

Ostracodal Type Specimens Stored in the Paleontological Collection of the Geological Survey of Austria

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1 Table, 9 Plates

Ostracoda
Microfossils
Type Specimens
Palaeontological collection

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Ostracoden-Typen in der Sammlung der Geologischen Bundesanstalt in Wien

Zusammenfassung

In den Sammlungen der Geologischen Bundesanstalt in Wien befinden sich 44 valide und 2 invalide Holotypen sowie Paratypen zu Ostracodenarten. Sie stammen aus dem Karbon (Viseum) von Nötsch (SCHRAUT, 1996), Trias und Jura der Nördlichen und Südlichen Kalkalpen in Österreich und Italien (KOLLMANN, 1960b, 1963), Trias (Ladinium) des Iran (KRISTAN-TOLLMANN, 1991), Eozän (Lutetium) des Beckens von Pazin in Kroatien (KOLLMANN, 1962) sowie aus dem Miozän des Korneuburger Beckens (Karpatum; CERNAJSEK, 1971; ZORN, 1998), der Molassezone und des Wiener Beckens in Österreich (Sarmatium; CERNAJSEK, 1971, 1974). Elf Typuserien stellen die primären Typusexemplare von Typusarten dar. Darüberhinaus liegen Syntypen aus dem Miozän von Mähren (PROCHÁZKA, 1893) und dem Devon der Türkei (KAYSER, 1900) vor. Auf zum Großteil invalide und teilweise verloren gegangene Neotypen (CERNAJSEK, 1971, 1974) wird ebenfalls eingegangen. Es werden Details zu den Typen, ihre aktuelle Gattungszugehörigkeit sowie Original-Abbildungen geliefert.

Abstract

The collection of the Geological Survey of Austria contains 44 valid and 2 invalid ostracod holotypes and also paratypes. These were derived from the Carboniferous (Visean) of Nötsch (SCHRAUT, 1996), the Triassic and Jurassic of the Northern and Southern Calcareous Alps in Austria and Italy (KOLLMANN, 1960b, 1963), the Triassic (Ladinian) of Iran (KRISTAN-TOLLMANN, 1991), the Eocene (Lutetian) of the Pazin Basin, Croatia (KOLLMANN, 1962), and the Miocene of the Korneuburg Basin (Karpatum; CERNAJSEK, 1971; ZORN, 1998), the Molasse Basin and Vienna Basin in Austria (Sarmatian; CERNAJSEK, 1971, 1974). Eleven type series represent the primary type specimens of type species. Furthermore, several syntypes from the Miocene of Moravia (PROCHÁZKA, 1893) and the Devonian of Turkey (KAYSER, 1900) are also available. Neotypes (CERNAJSEK, 1971, 1974) which are mostly invalid and some of which have been lost, are also documented here. Details of the type specimens, their current classification, as well as original pictures, are presented.

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Introduction

The paleontological collection of the Geological Survey of Austria in Vienna contains a large number of published fossils, many originating back to the mid 19th century. Within this, there are several microfossil collections from that time, although historic ostracod material is rare and was mainly derived from the Miocene. The originally undetermined material mentioned in Čížek (1851) from Mauer, which today is part of the 23rd district of Vienna, is still extant. This was later partly determined by STUR (1867) to belong to *Cytheridea heterostigma* REUSS, 1850. Ostracods from a well drilled in Mollardgasse, in the 6th district (Mariahilf) of Vienna, mentioned in FUCHS & KARRER (1875) also are available. Further material was published by PROCHÁZKA in 1892 from Walbersdorf in Burgenland, in Austria, and in 1893 from Židlochovice (Seelowitz) in Moravia (Czech Republic). A large part of this material, including foraminifers and otoliths, came to light when the Geological Survey moved premises in 2004. Within the Moravian ostracods, PROCHÁZKA (1900) erected seven new species, four of which (*Cythere vejhonensis*, *C. oviformis*, *C. reussi* and *C. blucinensis*) are still extant as syntypes. However, the samples of *Cythere fragilis*, *C. obliquus* and *C. moravica* have been lost. The syntypes of *Beyrichia roemeri* KAYSER, 1890 from the Devonian of Turkey, were also deposited at the Geological Survey.

In the following, only publications, in which type specimens were introduced are mentioned. In the 1960s, KOLLMANN published a series of ostracod papers, material from four of these was deposited in the Geological Survey collection (KOLLMANN, 1960a, 1960b, 1962, 1963). Two of these dealt with the Eocene of Italy and Croatia (1960a, 1962) and two dealt with the Triassic of the Northern and, to a lesser extent, the Southern Calcareous Alps (1960b, 1963). In three of these publications (KOLLMANN, 1960b, 1962, 1963), 34 new species were introduced whilst in two publications (KOLLMANN, 1962, 1963), 11 new genera were introduced, for which the following species are type species:

- Parabairdia ploechingeri* KOLLMANN, 1960b
- Ptychobairdia kuepperi* KOLLMANN, 1960b
- Urobairdia austriaca* KOLLMANN, 1963
- Lobobairdia salinaria* KOLLMANN, 1963
- Anisobairdia cincta* KOLLMANN, 1963
- Nodobairdia mammilata* KOLLMANN, 1963
- Mirabairdia pernodosa* KOLLMANN, 1963
- Dicerobairdia bicornuta* KOLLMANN, 1963

Neobairdiolites placklesensis KOLLMANN, 1963

Carinobairdia triassica KOLLMANN, 1963

Medwenitschia ornata KOLLMANN, 1963.

Subsequently, KRISTAN-TOLLMANN (1970) declared *Neobairdiolites* to be a junior synonym of *Bairdiolites*. KOLLMANN species *Ptychobairdia medwenitschi*, *Urobairdia angusta*, *Carinobairdia alta* and *C. tenuicarinata* have also been cancelled by various authors (see below).

CERNAJSEK (1971a, b, 1974) worked on Miocene ostracods from the Molasse, Korneuburg and Vienna basins. In his dissertation (CERNAJSEK, 1971a) on the Hemicysteridae of Austria, he erected two new subspecies, namely *Aurila angulata teiritzbergensis* and *Hemicytheria reniformis maior*. These have the status of nomina nuda, since the descriptions have never been published and the names are only mentioned in a summarizing article (CERNAJSEK, 1971b). Furthermore, CERNAJSEK (1971a) erected 17 neotypes which are also not valid. Four of them are missing from the collection. In 1974 CERNAJSEK erected the species *Aurila kollmanni*, *Loxococcha schmidi* and *Bythocypris ? pappi*. Furthermore, he chose neotypes for the following species: *Cypridina hispidula* REUSS, 1850, *C. notata* REUSS, 1850, *C. omphalodes omphalodes* REUSS, 1850, *Cythereis mehesi* ZALÁNYI, 1913 and *C. merita* ZALÁNYI, 1913. Unfortunately, neither the holotypes nor the neotypes of this publication have been found in the Geological Survey collection.

The 1990s brought new ostracodal type material to the collection. KRISTAN-TOLLMANN (1991) worked on Triassic (Ladinian) ostracods of Aghdarband in Iran, including the type series of two new species *Ptychobairdia ruttneri* and *Polycope aghdarbandensis*. SCHRAUT (1996) erected six new ostracod species from the Visean, in a monograph on the arthropods of the Carboniferous of Nötsch in Carinthia. Material from the Karpatian of the Korneuburg Basin (ZORN, 1998) was partly deposited in the Museum of Natural History in Vienna and partly in the Geological Survey. In the latter the holotypes and topotypic paratypes of *Callistocythere karpatiensis* and *Heliocythere leobendorfensis* are housed, as well as paratypes of *Cyamocytheridea gracilis*.

In the following, details of the type specimens, their current classification, as well as the illustrations, have been presented. The selection of lectotypes or neotypes in case of syntypes and missing holo- or neotypes was beyond the aim of this publication. For the illustrations, the original Figures have been scanned and, where possible, digitally improved, to save the specimens from further handling.

List of Type Specimens

The holo-, neo- and syntypes in the following list are named as it was done by the original author. They are ordered alphabetically and chronologically, according to author and then year of publication. Within each publication, they are given according to the inventory number. Table 1 gives a short overview of the specimens and also includes all those which have been lost over the years. The informations on the type levels mostly follow the original authors. Additionally, remarks have been given if the specimens were published subsequently or if the generic or specific attributions have been changed. The index of KEMPF (1986, 1995) was taken into account when determining if the generic attributions have changed. For better retrieval of the species described in the text, an index list has been given at the end of the paper.

**CERNAJSEK, T. (1971a):
Die Entwicklung und Abgrenzung der Gattung
Aurila POKORNY im Neogen Österreichs. –
Unpubl. Thesis Univ. Vienna.**

Although this material was derived from an unpublished thesis and includes nomina nuda and invalid holo- and neotypes it has been included here, to present completely the types in the ostracod collection. For photographic documentation, the original plates, with SEM photos, from the archives of the Geological Survey were scanned and digitally improved. Due to the relatively old SEM photographic techniques used, the pictures of many specimens were optically distorted which resulted in a different height/width-ratio. Details of paratypes have been omitted. Although the neotypes of *Aurila hispidula* (REUSS, 1850), *A. notata* (REUSS, 1850), *A. similis* (REUSS, 1850) and *Hemicytheria hungarica* (MÉHES, 1908) have not been found, they have nevertheless been treated here and figured. The first two neotypes were included in the remarks of the specimens in CERNAJSEK (1974) in which neotypes of five hemicytherid species were also selected. For the current classification of the species proposed, subgenera were not taken into consideration.

***Aurila angulata teiritzbergensis* CERNAJSEK, 1971
(Pl. 1, Fig. 2)**

Coll. no.: GBA 1997/003/0007/07.

Type: holotype, right valve.

Type level: Miocene, Karpatian, Korneuburg beds.

Type locality: Teiritzberg near Stetten, Lower Austria, Austria.

Type reference and figure: CERNAJSEK, T., 1971: p. 61, Pl. 14, Fig. 3.

Remarks: This holotype (nomen nudum) and its paratypes are reference material in ZORN (1998: p. 197) under the name *Aurila laryeyensis* MOYES, 1965?. ZORN (2003: Tab. 2) and AIELLO & SZCZECURA (2004: p. 30) confirmed this determination without question mark.

Current classification: ***Aurila laryeyensis* MOYES, 1965.**

***Aurila angulata angulata* (REUSS, 1850)
(Pl. 1, Fig. 1)**

Coll. no.: GBA 2009/003/0001.

Type: neotype, right valve.

Type level: Miocene, Badenian.

Type locality: Nußdorf, Kahlenbergerstraße 108, 19th district, Vienna, Austria.

Type reference and figure: CERNAJSEK, T., 1971: p. 57, Pl. 14, Fig. 4.

Remarks: KUČEROVÁ (1986: p. 113) assigned the species to *Senesia*.

Current classification: ***Aurila angulata* (REUSS, 1850).**

***Aurila cicatricosa* (REUSS, 1850)
(Pl. 1, Fig. 3)**

Coll. no.: GBA 2009/003/0002/01.

Type: neotype, left valve.

Type level: Miocene, Badenian.

Type locality: Nußdorf, Kahlenbergerstraße 108, 19th district, Vienna, Austria.

Type reference and figure: CERNAJSEK, T., 1971: p. 65, Pl. 14, Fig. 8.

Current classification: ***Aurila cicatricosa* (REUSS, 1850).**

***Aurila cinctella* (REUSS, 1850)
(Pl. 1, Fig. 4)**

Coll. no.: GBA 2009/003/0003.

Type: neotype, left valve.

Type level: Miocene, Badenian.

Type locality: Steinebrunn, Kalkofen (lime oven), Lower Austria, Austria.

Type reference and figure: CERNAJSEK, T., 1971: p. 70, Pl. 14, Fig. 11.

Remarks: BRESTENSKÁ & JIŘÍČEK (1978: p. 409) assigned the species to *Senesia*.

Current classification: ***Senesia cinctella* (REUSS, 1850).**

***Aurila galeata* (REUSS, 1850)
(Pl. 1, Fig. 6)**

Coll. no.: GBA 2009/003/0004.

Type: neotype, right valve.

Type level: Miocene, Badenian.

Type locality: Freibühl, near Wildon, Styria, Austria.

Type reference and figure: CERNAJSEK, T., 1971: p. 73, Pl. 14, Fig. 13.

Remarks: BRESTENSKÁ & JIŘÍČEK (1978: p. 410) assigned the species to *Senesia*.

Current classification: ***Senesia galeata* (REUSS, 1850).**

***Aurila haueri* (REUSS, 1850)
(Pl. 1, Fig. 5)**

Coll. no.: GBA 2009/003/0005.

Type: neotype, left valve.

Type level: Miocene, Badenian.

Type locality: Nußdorf, Kahlenbergerstraße 108, 19th district, Vienna, Austria.

Type reference and figure: CERNAJSEK, T., 1971: p. 76, Pl. 14, Fig. 12.

Current classification: ***Aurila haueri* (REUSS, 1850).**

***Aurila hispidula* (REUSS, 1850)
(Pl. 1, Fig. 12)**

Type: neotype, female right valve, specimen missing.

Type level: Miocene, upper Sarmatian, Upper Ervilia beds – Lower Mactra beds.

Type locality: Rosenhügelstraße near SW cemetery, 23rd district, Vienna, Austria.

Type reference and figure: CERNAJSEK, T., 1971: p. 83, Pl. 15, Fig. 4.

Remarks: Another female right valve was published in CERNAJSEK (1974) as a neotype (see below).

Current classification: ***Aurila hispidula* (REUSS, 1850).**

***Aurila mehesi* (ZALÁNYI, 1913)**

(Pl. 1, Fig. 10)

Coll. no.: GBA 2009/003/0007.

Type: neotype, left valve, female.

Type level: Miocene, lower Sarmatian, Risssoa beds.

Type locality: Siebenhirten near Mistelbach, Lower Austria, Austria.

Type reference and figure: CERNAJSEK, T., 1971: p. 87, Pl. 15, Fig. 1.

Remarks: CERNAJSEK (1974) chose a new neotype (see below).

Current classification: ***Aurila mehesi* (ZALÁNYI, 1913).**

***Aurila notata* (REUSS, 1850)**

(Pl. 1, Fig. 11)

Type: neotype, left valve, specimen missing.

Type level: Miocene, upper Sarmatian, *Nonion granosum* Zone.

Type locality: Nexing, "Hühnerfutterberg", Lower Austria, Austria.

Type reference and figure: CERNAJSEK, T., 1971: p. 96, Pl. 15, Fig. 7.

Remarks: CERNAJSEK (1974) chose a new neotype (see below).

Current classification: ***Aurila notata* (REUSS, 1850).**

***Aurila punctata* (MÜNSTER, 1830)**

(Pl. 1, Fig. 8)

Coll. no.: GBA 2009/003/0010/01.

Type: neotype, left valve.

Type level: Miocene, Badenian.

Type locality: Nußdorf, Kahlenbergerstraße 108, 19th district, Vienna, Austria.

Type reference and figure: CERNAJSEK, T., 1971: p. 106, Pl. 14, Fig. 10.

Current classification: ***Aurila punctata* (MÜNSTER, 1830).**

***Aurila similis* (REUSS, 1850)**

(Pl. 1, Fig. 9)

Type: neotype, right valve, specimen missing.

Type level: Miocene, Badenian.

Type locality: Wetzelsdorf, Styria, Austria.

Type reference and figure: CERNAJSEK, T., 1971: p. 113, Pl. 14, Fig. 6.

Current classification: ***Aurila similis* (REUSS, 1850).**

***Aurila trigonella* (REUSS, 1850)**

(Pl. 1, Fig. 7)

Coll. no.: GBA 2009/003/0012.

Type: neotype, left valve.

Type level: Miocene, Badenian.

Type locality: Steinebrunn, Kalkofen (lime oven), Lower Austria, Austria.

Type reference and figure: CERNAJSEK, T., 1971: p. 116, Pl. 14, Fig. 5.

Remarks: BRESTENSKÁ & JIŘÍČEK (1978: p. 410) assigned the species to *Senesia*.

Current classification: ***Senesia trigonella* (REUSS, 1850).**

***Hemicytheria hungarica* (MÉHES, 1908)**

(Pl. 1, Fig. 13)

Type: neotype, left female valve, specimen missing.

Type level: Miocene, lower Pannonian B.

Type locality: Draßburg (Drassburg), sand pit, Burgenland, Austria.

Type reference and figure: CERNAJSEK, T., 1971: p. 133, Pl. 15, Fig. 8.

Current classification: ***Hemicytheria hungarica* (MÉHES, 1908).**

***Hemicytheria omphalodes omphalodes* (REUSS, 1850)**

(Pl. 1, Fig. 14)

Coll. no.: GBA 2009/003/0016.

Type: neotype, left female valve.

Type level: Miocene, upper Sarmatian.

Type locality: Nexing or Hautzendorf, Lower Austria, Austria.

Type reference and figure: CERNAJSEK, T., 1971: p. 136, Pl. 15, Fig. 6.

Remarks: In the text CERNAJSEK (1971: p. 136) mentioned the neotype being a female left valve from Nexing, but in the figure captions was written Hautzendorf. It has been assumed here that the figured specimen is the neotype and that Nexing is the correct locality. In 1974, CERNAJSEK chose a right valve from Nexing for the neotype (see below).

Current classification: ***Hemicytheria omphalodes* (REUSS, 1850).**

***Hemicytheria omphalodes loerentheyi* (MÉHES, 1908)**

(Pl. 1, Fig. 15)

Coll. no.: GBA 2009/003/0017.

Type: neotype, right valve.

Type level: Miocene, Pannonian B.

Type locality: Draßburg (Drassburg), Burgenland, Austria.

Type reference and figure: CERNAJSEK, T., 1971: p. 142, Pl. 15, Fig. 10.

Current classification: ***Hemicytheria loerentheyi* (MÉHES 1908).**

***Hemicytheria reniformis reniformis* (REUSS, 1850)**

(Pl. 1, Fig. 17)

Coll. no.: GBA 2009/003/0018.

Type: neotype, left valve.

Type level: Miocene, Pannonian E.

Type locality: Brunn / Vösendorf clay pit, Lower Austria, Austria.

Type reference and figure: CERNAJSEK, T., 1971: p. 146, Pl. 15, Fig. 14.

Current classification: ***Hemicytheria reniformis* (REUSS, 1850).**

***Hemicytheria reniformis maior* CERNAJSEK, 1971**

(Pl. 1, Fig. 16)

Coll. no.: GBA 2009/003/0019.

Type: holotype (nomen nudum), female left valve.

Type level: Miocene, Pannonian E.

Type locality: Wien, Karlsplatz bore hole, 34.5 m, Austria.

Type reference and figure: CERNAJSEK, T., 1971: p. 151, Pl. 15, Fig. 15.

Current classification: ***Hemicytheria* cf. *reniformis* (REUSS, 1850).**

***Procythereis deformis* (REUSS, 1850)**

(Pl. 1, Fig. 19)

Coll. no.: GBA 2009/003/0022.

Type: neotype, right valve.

Type level: Miocene, Badenian.

Type locality: Nußdorf, Grünes Kreuz, 19th district, Vienna, Austria.

Type reference and figure: CERNAJSEK, T., 1971: p. 166, Pl. 14, Fig. 14.

Remarks: RUGGIERI (1976: p. 34) assigned the species to *Pokornyella*.

Current classification: ***Pokornyella deformis* (REUSS, 1850).**

***Procythereis sulcatopunctatus* (REUSS, 1850)**

(Pl. 1, Fig. 18)

Coll. no.: GBA 2009/003/0023.

Type: neotype, right valve.

Type level: Miocene, Badenian.

Type locality: Freibühl near Wildon, Steiermark, Austria.

Type reference and figure: CERNAJSEK, T., 1971: p. 170, Pl. 14, Fig. 15.

Remarks: BONADUCE et al. (1986: p. 532, 534) assigned the species to *Tenedocythere*, but also erected a new species on topotypic material of *T. sulcatopunctatus*, namely *T. perplexa*, which has to be considered a junior synonym (see also GROSS, 2004: p. 68).

Current classification: ***Tenedocythere sulcatopunctata* (REUSS, 1850).**

CERNAJSEK, T. (1974):

Die Ostracodenfaunen der Sarmatischen Schichten in Österreich. – Chronostratigraphie und Neostratotypen, Bd. 4.

***Aurila hispidula* (REUSS, 1850)**

(Pl. 2, Fig. 1)

Type: neotype, right female valve, specimen missing.

Type level: Miocene, upper Sarmatian, Upper Ervilia beds– Lower Mactra beds, *Nonion granosum* Zone.

Type locality: Vienna, 13th district, Rosenhügelstraße near SW-graveyard, Austria.

Type reference and figure: CERNAJSEK, T., 1974: p. 462, Pl. 1, Fig. 1.

Remarks: CERNAJSEK (1971) had already chosen another neotype for *Cypridina hispidula* REUSS, 1850 from the same

locality (see above). Neither specimen is currently in the Geological Survey collection. Many paraneotypes from the type locality are available.

Current classification: ***Aurila hispidula* (REUSS, 1850).**

***Aurila kollmanni* CERNAJSEK, 1974**

(Pl. 2, Fig. 4)

Type: holotype, right valve, specimen missing.

Type level: Miocene, lower Sarmatian, Hernalser Tegel, *Elphidium reginum* Zone.

Type locality: Wien, 17th district, Gschwandnergasse 56, Austria.

Type reference and figure: CERNAJSEK, T., 1974: p. 463, Pl. 1, Fig. 2.

Remarks: This species is probably synonymous with *Aurila mehesi minor* JIŘÍČEK, 1974 which is a nomen nudum and was mentioned in the same volume (p. 447). Many paratypes from the type locality as well as from Siebenhirten near Mistelbach, Neckenmarkt bore hole and Großkrut-1 bore hole (103 m) are in the collection.

Current classification: ***Aurila kollmanni* CERNAJSEK, 1974.**

***Aurila mehesi* (ZALÁNYI, 1913)**

(Pl. 2, Fig. 2)

Type: neotype, left female valve (?), specimen missing.

Type level: Miocene, lower Sarmatian, Rissoa beds, *Elphidium reginum* Zone.

Type locality: Siebenhirten, near Mistelbach, Lower Austria, Austria (?)

Type reference and figure: CERNAJSEK, T., 1974: p. 465, Pl. 1, Fig. 3.

Remarks: In the type figure, a right valve from Gschwandnergasse is indicated as the neotype.

Current classification: ***Aurila mehesi* (ZALÁNYI, 1913).**

***Aurila merita* (ZALÁNYI, 1913)**

(Pl. 2, Fig. 3)

Type: neotype, right valve, specimen missing.

Type level: Miocene, lower Sarmatian, Rissoa beds, *Elphidium reginum* Zone.

Type locality: Vienna, 17th district, Gschwandnergasse 56, Austria.

Type reference and figure: CERNAJSEK, T., 1974: p. 466, Pl. 1, Fig. 4.

Current classification: ***Aurila merita* (ZALÁNYI, 1913).**

***Aurila notata* (REUSS, 1850)**

(Pl. 2, Fig. 5)

Type: neotype, left valve, specimen missing.

Type level: Miocene, upper Sarmatian, *Nonion granosum* Zone.

Type locality: Nexing, “Hühnerfutterberg”, Lower Austria, Austria.

Type reference and figure: CERNAJSEK, T., 1974: p. 467, Pl. 1, Fig. 6.

Remarks: CERNAJSEK (1971) had already chosen a neotype from the same locality (see above). Neither specimen is currently in the Geological Survey collection.

Current classification: ***Aurila notata* (REUSS, 1850).**

***Hemicytheria omphalodes omphalodes* (REUSS, 1850)**

(Pl. 2, Fig. 6)

Type: neotype, right valve, specimen missing.

Type level: Miocene, upper Sarmatian, *Nonion granosum* Zone.

Type locality: Nexing, "Hühnerfutterberg", Lower Austria, Austria.

Type reference and figure: CERNAJSEK, T., 1974: p. 468, Pl. 1, Fig. 7.

Remarks: CERNAJSEK (1971) had already chosen a neotype from the same locality (see above). This specimen is still extant in the collection.

Current classification: ***Hemicytheria omphalodes* (REUSS, 1850).**

***Loxocorona schmidi* CERNAJSEK, 1974**

(Pl. 2, Fig. 7)

Type: holotype, left valve, specimen missing.

Type level: Miocene, lower Sarmatian, Hernalser Tegel, Rissoa beds, *Elphidium reginum* Zone.

Type locality: Vienna, 17th district, Gschwandnergasse 56, Austria.

Type reference and figure: CERNAJSEK, T., 1974: p. 479, Pl. 3, Fig. 4.

Remarks: Paratypes labelled with the name of the type locality, with Siebenhirten near Mistelbach or with Breitenbrunn quarry, as indicated in the publication are missing. Instead three carapaces and three right valves, including one juvenile, were found in a slide containing early Sarmatian ostracods, arranged by CERNAJSEK. Unfortunately the slide is not labelled. Also, on a SEM-stub, found amongst others, a left valve was found, but this is not identical with the holotype. One paratype from Neckenmarkt bore hole (103.8 m) exists in the collection. GROSS (2006) assigned the species to the genus *Loxocorniculum*.

Current classification: ***Loxocorniculum schmidi* CERNAJSEK, 1974.**

? *Bythocypris pappi* CERNAJSEK, 1974

(Pl. 2, Fig. 8)

Type: holotype, left valve, specimen missing.

Type level: Miocene, upper Sarmatian, *Parosonion granosum* Zone.

Type locality: Nexing, "Hühnerfutterberg", Lower Austria, Austria.

Type reference and figure: CERNAJSEK, T., 1974: p. 480, Pl. 3, Fig. 9.

Remarks: ZELENKA (1990) declared this species to be a synonym of *Phlyctenophora farkasi* (ZALÁNYI, 1913). The latter species was synonymized with *Ghardaglia pectinata* (HÉJJAS, 1894) by ZORN (1998). The following paratypes are in the collection: 1 carapace from the type locality, 4 right valves

and 1 left valve from Hölles, 6 right and 6 left valves and larval stages (2 right and 1 left valve) from Hautzendorf, 1 right valve from Heiligenberg, 2 right valves from the surroundings of Baden and 2 left and 2 right valves from Ebendorf, near Mistelbach (all Lower Austria).

Current classification: ***Ghardaglia pectinata* (HÉJJAS, 1894).**

KAYSER, E. (1900):

Devon-Fossilien vom Bosphorus und von der Nordküste des Marmara-Meeress (Zwischen Pendik und Kartal). – Beitr. Paläont. Geol. Österr.-Ung. Oriens, 12 (1899).

***Beyrichia roemeri* KAYSER, 1900**

(Pl. 3, Figs. 39–40)

Coll. no.: GBA 1900/002/0005.

Type: several syntypes on a rock (1 red indicated imprint with 3 artificial casts, 1 red indicated cast, 1 imprint).

Type level: Lower Devonian.

Type locality: Kanlydsa, Turkey.

Type reference and figure: KAYSER, E., 1900: p. 30, Pl. 1, Fig. 9.

Coll. no.: GBA 1900/002/0028.

Type: 1 syntype on a rock.

Type level: Lower Devonian.

Type locality: between Pendik and Kartal, Turkey.

Type reference and figure: KAYSER, E., 1900: p. 35, Pl. 1, Fig. 10.

Remarks: The specimens originate from the collection of Franz TOULA (collected 1895) and were originally deposited in the geological collection of the "K.k. technische Hochschule in Wien" (acquisition 1903). GROSS-UFFENORDE (1982) assigned *Beyrichia roemeri* to the genus *Zygobeyrichia*.

Current classification: ***Zygobeyrichia roemeri* (KAYSER, 1900).**

KOLLMANN, K. (1960b):

Ostracoden aus der alpinen Trias Österreichs I. *Parabairdia* n.g. und *Ptychobairdia* n.g. (Bairdiidae). – Jb. Geol. Bundesanst., Sonderbd. 5.

***Parabairdia ploechingeri* KOLLMANN, 1960b**

(Pl. 4, Figs. 1–3)

Coll. no.: GBA 2008/133/0001.

Type: holotype, carapace.

Type level: Triassic, Rhaetian, Zlambach marls.

Type locality: Grünbachgraben, Untersberg, Salzburg, Austria.

Type reference and figure: KOLLMANN, K., 1960b: p. 94, Pl. 23, Figs. 1–3.

Remarks: Genoholotype. In the original publication, the invalid coll. no. GBA/01 was given. BOLZ (1971: p. 141–144) interpreted the holotype to be a larval stage and placed the species in *Bairdia*, rejecting the genus *Parabairdia* through synonymy. KOZUR (1973: p. 21) kept the genus *Parabairdia*. Eight figured paratypes (coll. nos. GBA

2008/133/0002, 0005) inclusive 2 thin-sections (coll. nos. GBA 2008/133/0003, 0004) are in the collection.

Current classification: ***Parabairdia ploechingeri* KOLLMANN, 1960b.**

***Ptychobairdia kuepperi* KOLLMANN, 1960b**

(Pl. 4, Figs. 4–5)

Coll. no.: GBA 2008/133/0006.

Type: holotype, carapace.

Type level: Triassic, Rhaetian, Zlambach marls.

Type locality: Grünbachgraben, Untersberg, Salzburg, Austria.

Type reference and figure: KOLLMANN, K., 1960b: p. 97, Pl. 24, Fig. 1, 4.

Remarks: Genoholotype. In the original publication, the invalid coll. no. GBA/06 was given. BOLZ (1971: p. 199) placed the species in *Triebelina* (*Ptychobairdia*). Later authors considered *Ptychobairdia* to have the rank of a genus (e.g. KRISTAN-TOLLMANN, 1990a: p. 174; SEPKOSKI, 2002). Three paratypes exist in the collection (coll. nos. GBA 2008/133/0008, 0009), but one (Pl. 24, Figs. 2–3) has been lost.

Current classification: ***Ptychobairdia kuepperi* KOLLMANN, 1960b.**

***Ptychobairdia kristanae* KOLLMANN, 1960b**

(Pl. 4, Figs. 6–9)

Coll. no.: GBA 2008/133/0010.

Type: holotype, carapace.

Type level: Upper Triassic.

Type locality: Lanzing, base of the northern slope of the Hutberg, Lower Austria, Austria.

Type reference and figure: KOLLMANN, K., 1960b: p. 99, Pl. 25, Figs. 6–9.

Remarks: In the original publication, the invalid coll. no. GBA/010 was given. The holotype is reference material in KOLLMANN (1963: p. 181). BOLZ (1971: p. 210–211) placed the species in *Triebelina* (*Ptychobairdia*) and found the holotype to be a larval stage. KOZUR (1971: p. 10) named it *Triebelina kristanae kristanae* when erecting the subspecies *T. kristanae praecursor*, intending *Ptychobairdia* to be a junior synonym of *Triebelina*.

Current classification: ***Ptychobairdia kristanae* KOLLMANN, 1960b.**

***Ptychobairdia medwenitschi* KOLLMANN, 1960b**

(Pl. 4, Figs. 10–13)

Coll. no.: GBA 2008/133/0011.

Type: holotype, carapace.

Type level: Upper Triassic.

Type locality: Hallstätter Salzberg, Upper Austria, Austria.

Type reference and figure: KOLLMANN, K., 1960b: p. 100, Pl. 26, Figs. 1–4.

Remarks: In the original publication, the invalid coll. no. GBA/011 was given. The holotype is reference material in KOLLMANN (1963: p. 181) sub *Ptychobairdia kristanae* (larval stage, species *P. medwenitschi* rejected). Six figured paratypes are in the collection (coll. no. GBA 2008/133/0012–0016a,b).

Current classification: ***Ptychobairdia kristanae* KOLLMANN, 1960b.**

***Ptychobairdia oberhauseri* KOLLMANN, 1960b**

(Pl. 4, Figs. 14–15; Pl. 5., Figs. 1, 3)

Coll. no.: GBA 2008/133/0017.

Type: holotype, carapace.

Type level: Triassic, Rhaetian, Zlambach marls.

Type locality: Grünbachgraben, Untersberg, Salzburg, Austria.

Type reference and figure: KOLLMANN, K., 1960b: p. 98, Pl. 27, Figs. 1–4.

Remarks: In the original publication, the invalid coll. no. GBA/017 was given. BOLZ (1971: p. 208–210) placed the species in *Triebelina* (*Ptychobairdia*) and established that the holotype represents a larval stage. KOZUR (1971: p. 13) named it *Triebelina oberhauseri oberhauseri* when erecting the subspecies *T. oberhauseri hungarica*, intending *Ptychobairdia* to be a junior synonym of *Triebelina*.

Current classification: ***Ptychobairdia oberhauseri* KOLLMANN, 1960b.**

KOLLMANN, K. (1962):

Ostracoden aus dem mitteleozänen “Flysch” des Beckens von Pazin (Istrien, Jugoslawien). – Verh. Geol. Bundesanst., Jg. 1962 (2).

The reader will find remarks on old but nowadays invalid coll. nos. given by KOLLMANN (1962) in the Catalogue of ELLIS & MESSINA. The coll. nos. cited in the text of KOLLMANN are written on the slides. All mentioned paratypes are available.

***Cytherella triestina* KOLLMANN, 1962**

(Pl. 3, Figs. 1–3)

Coll. no.: GBA 2008/134/0001.

Type: holotype, carapace.

Type level: Eocene, Lutetian.

Type locality: Triest, Faccononi quarry, Italy.

Type reference and figure: KOLLMANN, K., 1962: p. 210, Pl. 3, Figs. 6–8.

Remarks: The specimen was previously figured in KOLLMANN (1960a: 191, Pl. 7, Figs. 1–3) sub *Cytherella* sp./136 (this numbering system was used by KOLLMANN, 1962). Eighteen paratypes are in the collection (coll. no. GBA 2008/135/0033–0035), although KOLLMANN mentioned only eleven.

Current classification: ***Cytherella triestina* KOLLMANN, 1962.**

***Cythereis ? pisinensis* KOLLMANN, 1962**

(Pl. 3, Figs. 4–6)

Coll. no.: GBA 2008/135/0020.

Type: holotype, carapace.

Type level: Eocene, upper Lutetian.

Type locality: Pazin, near the old bridge, Istria, Croatia.

Type reference and figure: KOLLMANN, K., 1962: p. 205, Pl. 6, Figs. 11–13.

Remarks: WHATLEY & COLES (1991: p. 124) assigned this species to *Trachyleberidea*. Four paratypes exist in the collection (coll. no. GBA 2008/135/0021, 0022).

Current classification: ***Trachyleberidea pisinensis* (KOLLMANN, 1962).**

***Trachyleberidea ? sikici* KOLLMANN, 1962**

(Pl. 3, Figs. 7–9)

Coll. no.: GBA 2008/135/0024.

Type: holotype, carapace.

Type level: Eocene, upper Lutetian.

Type locality: Zanetina, near the bridge, Istria, Croatia.

Type reference and figure: KOLLMANN, K., 1962: p. 206, Pl. 6, Figs. 7–9.

Remarks: Six paratypes (coll. no. GBA 2008/135/0025, 0026) exist.

Current classification: ***Trachyleberidea ? sikici* KOLLMANN, 1962.**

***Cytherella ventroinflata* KOLLMANN, 1962**

(Pl. 3, Figs. 10–12)

Coll. no.: GBA 2008/135/0030.

Type: holotype, left valve.

Type level: Eocene, upper Lutetian.

Type locality: Zanetina, near the bridge, Istria, Croatia.

Type reference and figure: KOLLMANN, K., 1962: p. 209, Pl. 2, Figs. 11–13.

Remarks: One paratype (coll. no. GBA 2008/135/0031) is in the collection.

Current classification: ***Cytherella ventroinflata* KOLLMANN, 1962.**

***Cytherella praehumilis* KOLLMANN, 1962**

(Pl. 3, Figs. 13–14)

Coll. no.: GBA 2008/135/0038.

Type: holotype, carapace.

Type level: Eocene, Upper Lutetian.

Type locality: Zanetina, near the bridge, Istria, Croatia.

Type reference and figure: KOLLMANN, K., 1962: p. 213, Pl. 4, Figs. 9–10.

Remarks: Two figured paratypes (coll. no. GBA 2008/135/0039) exist.

Current classification: ***Cytherella praehumilis* KOLLMANN, 1962.**

***Cytherella unguiformis* KOLLMANN, 1962**

(Pl. 3, Figs. 15–17)

Coll. no.: GBA 2008/135/0040.

Type: holotype, carapace.

Type level: Eocene, upper Lutetian.

Type locality: Zanetina, near the bridge, Istria, Croatia.

Type reference and figure: KOLLMANN, K., 1962: p. 214, Pl. 4, Figs. 13–15.

Remarks: One paratype (coll. no. GBA 2008/135/0041) exists.

Current classification: ***Cytherella unguiformis* KOLLMANN, 1962.**

KOLLMANN, K. (1963): Ostracoden aus der alpinen Trias. II. Weitere Bairdiidae. – Jb. Geol. Bundesanst., 106.

***Bairdia deformata* KOLLMANN, 1963**

(Pl. 6, Fig. 6)

Coll. no.: GBA 2008/136/0001.

Type: holotype, left valve.

Type level: Triassic, Rhaetian.

Type locality: Lanzing, Hohe Wand, NW Wiener Neustadt, Lower Austria, Austria.

Type reference and figure: KOLLMANN, K., 1963: p. 165, Pl. 4, Fig. 4.

Remarks: In the original publication, the invalid coll. no. GBA/0142 was given. One paratype (coll. no. GBA 2008/136/0002) is in the collection.

Current classification: ***Bairdia deformata* KOLLMANN, 1963.**

***Urobairdia austriaca* KOLLMANN, 1963**

(Pl. 6, Figs. 16–19)

Coll. no.: GBA 2008/136/0003.

Type: holotype, carapace.

Type level: Triassic, upper Norian, lower Sevatian, Zlambach marls.

Type locality: Rossmoos, Bad Goisern, Upper Austria, Austria.

Type reference and figure: KOLLMANN, K., 1963: p. 166, Pl. 6, Figs. 5–8.

Remarks: Genoholotype. In the original publication, the invalid coll. no. GBA/0144 was given. KOLLMANN did not mention paratypes and there are none in the collection, too, but he mentions the occurrence of this species in several other samples from various localities. BOLZ (1971: p. 144–148, 241) presented a new description of the species and proposed that the holotype is a female larval stage and placed the species in *Bairdia*, thus invalidating the genus *Urobairdia*. Later authors (KRISTAN-TOLLMANN, 1987: p. 238; CRASQUIN-SOLEAU & GRADINARU, 1996: p. 27) kept the name *Urobairdia austriaca*. In recent years, *Urobairdia* has also been interpreted as a subgenus of *Bairdia* (see CRASQUIN-SOLEAU et al., 2006: p. 60).

Current classification: ***Bairdia (Urobairdia) austriaca* KOLLMANN, 1963.**

***Urobairdia angusta* KOLLMANN 1963**

(Pl. 6, Figs. 12–15)

Coll. no.: GBA 2008/136/0004.

Type: holotype, carapace.

Type level: Triassic, upper Norian, lower Sevatian, Zlambach marls.

Type locality: Rossmoos, Bad Goisern, Upper Austria, Austria.

Type reference and figure: KOLLMANN, K., 1963: p. 167, Pl. 6, Figs. 1–4.

Remarks: In the original publication, the invalid coll. no. GBA/0145 was given. There are no paratypes either in the collection or mentioned in the publication. BOLZ (1971: p. 144–148) found the holotype to be a male larval stage of *Bairdia austriaca*, and thus rejected the species *U. angusta*.

Current classification: ***Bairdia (Urobairdia) austriaca* KOLLMANN, 1963.**

***Cryptobairdia hians* KOLLMANN, 1963**

(Pl. 6, Figs. 1–3)

Coll. no.: GBA 2008/136/0005.

Type: holotype, carapace.

Type level: Triassic, Rhaetian.

Type locality: Lanzing, Hohe Wand NW Wiener Neustadt, Lower Austria, Austria.

Type reference and figure: KOLLMANN, K., 1963: p. 168, Pl. 4, Figs. 1–3.

Remarks: In the original publication, the invalid coll. no. GBA/0146 was given. BOLZ (1971: p. 153–154) placed the species in *Bairdia*, for which he proposed *Cryptobairdia* as a junior synonym. In SEPKOSKI (2002) *Cryptobairdia* was a valid genus. From the type locality 4 paratypes (coll. No. GBA 2008/136/0006) are in the collection, but are not mentioned by KOLLMANN.

Current classification: ***Cryptobairdia hians* KOLLMANN, 1963.**

***Lobobairdia salinaria* KOLLMANN, 1963**

(Pl. 7, Figs. 1–4)

Coll. no.: GBA 2008/136/0007.

Type: holotype, carapace.

Type level: Triassic, Rhaetian, Zlambach marls.

Type locality: Hallstatt, Salzberg, Upper Austria, Austria.

Type reference and figure: KOLLMANN, K., 1963: p. 169, Pl. 6, Figs. 9–12.

Remarks: Genoholotype. In the original publication, the invalid coll. no. GBA/0147 was given. One paratype exists (coll. no. 2008/133/0018) and was previously figured in KOLLMANN (1960b: p. 102, Pl. 27, Figs. 5–8) under the name *Ptychobairdia* ? sp.

Current classification: ***Lobobairdia salinaria* KOLLMANN, 1963.**

***Anisobairdia cincta* KOLLMANN, 1963**

(Pl. 6, Figs. 8–11)

Coll. no.: GBA 2008/136/0008.

Type: holotype, carapace.

Type level: Triassic, Rhaetian, Zlambach marls.

Type locality: Halleiner Salzberg, Salzburg, Austria.

Type reference and figure: KOLLMANN, K., 1963: p. 170, Pl. 5, Figs. 1–4.

Remarks: Genoholotype. In the original publication, the invalid coll. no. GBA/0148 was given. BOLZ (1971: p. 161–163) regarded the holotype as a larval stage and placed this (and the next species below) to *Bairdia*, for which he intended *Anisobairdia* to be a junior synonym. He revised one paratype from Grünbachgraben (coll. no. GBA 2008/136/0009)

to belong to his new species *Bairdia ventricosa* BOLZ, 1971. KRISTAN-TOLLMANN et al. (1987: 243, 1990b: 544) kept the genus *Anisobairdia*. Two figured paratypes (coll. nos. GBA 2008/136/0009–0010) exist.

Current classification: ***Anisobairdia cincta* KOLLMANN, 1963.**

***Anisobairdia salisburgensis* KOLLMANN, 1963**

(Pl. 6, Figs. 4–5)

Coll. no.: GBA 2008/136/0011.

Type: holotype, left valve.

Type level: Jurassic, Liassic, “Liasfleckenmergel”, Jakobbergseries ?

Type locality: Grünbachgraben, Untersberg, Salzburg, Austria.

Type reference and figure: KOLLMANN, K., 1963: p. 171, Pl. 4, Figs. 7–8.

Remarks: In the original publication, the invalid coll. no. GBA/0151 was given. BOLZ (1971: p. 167–170) placed the species in *Bairdia* (see above) and found the holotype to be a larval stage. There are no paratypes either in the collection or especially treated in the publication, but the occurrence of the species is also mentioned for the Triassic (Rhaetian).

Current classification: ***Anisobairdia salisburgensis* KOLLMANN, 1963.**

***Nodobairdia mammilata* KOLLMANN, 1963**

(Pl. 7, Figs. 8–11)

Coll. no.: GBA 2008/136/0012.

Type: holotype, carapace.

Type level: Triassic, upper Ladinian, Seeland beds = upper Cassian beds.

Type locality: Seelandalpe, Pragser Dolomiten, South Tyrol, Italy.

Type reference and figure: KOLLMANN, K., 1963: p. 174, Pl. 7, Figs. 9–12.

Remarks: Genoholotype. In the publication, the invalid coll. no. GBA/0152 was given. BOLZ (1971: p. 213) classified *Nodobairdia* to be a subgenus of *Triebelina*. This was not adopted by later authors (KRISTAN-TOLLMANN et al., 1980: p. 185; KRISTAN-TOLLMANN, 1990a: p. 174; see also SEPKOSKI, 2002). Three figured paratypes (coll. nos. GBA 2008/136/0013–0015) are in the collection.

Current classification: ***Nodobairdia mammilata* KOLLMANN, 1963.**

***Nodobairdia verrucosa* KOLLMANN, 1963**

(Pl. 7, Figs. 5–7)

Coll. no.: GBA 2008/136/0016.

Type: holotype, left valve.

Type level: Triassic, Carnian, lower Julian, “Halobien-schiefer”.

Type locality: Hohe Wand W Wiener Neustadt, Lower Austria, Austria.

Type reference and figure: KOLLMANN, K., 1963: p. 176, Pl. 7, Figs. 1–3.

Remarks: In the original publication, the invalid coll. no. GBA/0156 was given. Two figured paratypes (coll. nos. GBA 2008/136/0017–0018) are available.

Current classification: ***Nodobairdia verrucosa* KOLLMANN, 1963.**

***Mirabairdia pernodosa* KOLLMANN, 1963**

(Pl. 7, Fig. 12)

Coll. no.: GBA 2008/136/0019.

Type: holotype, left valve.

Type level: Triassic, upper Ladinian, “Seeland beds = upper Cassian beds.

Type locality: Seelandalpe, Pragser Dolomiten, South Tyrol, Italy.

Type reference and figure: KOLLMANN, K., 1963: p. 177, Pl. 8, Fig. 1.

Remarks: Genoholotype. In the publication, the invalid coll. no. GBA/0159 was given. BOLZ (1971: p. 213) placed the species in *Triebelina* (*Nodobairdia*) and KOZUR (1971: p. 15) named it *Triebelina* (*Mirabairdia*) *pernodosa pernodosa* when erecting his new subspecies *Triebelina* (*Mirabairdia*) *pernodosa illyrica*. *Nodobairdia* and *Mirabairdia* are valid genera after SEPKOSKI (2002). Four figured paratypes (coll. nos. GBA 2008/136/0020–0023) exist.

Current classification: ***Mirabairdia pernodosa* KOLLMANN, 1963.**

***Ptychobairdia schaubegeri* KOLLMANN, 1963**

(Pl. 5, Figs. 2, 4–6)

Coll. no.: GBA 2008/136/0026.

Type: holotype, carapace.

Type level: Jurassic, Liassic, Jakobbergseries, “Liasfleckenmergel”.

Type locality: Hallein, Salzberg, Salzburg, Austria.

Type reference and figure: KOLLMANN, K., 1963: p. 179, Pl. 2, Figs. 1–2; Pl. 3, Figs. 1–2.

Remarks: In the original publication, the invalid coll. no. GBA/0165 was given. BOLZ (1971: p. 210) placed the species in *Triebelina* (*Ptychobairdia*) and KOZUR (1971: p. 15) in *Triebelina* for which he intended *Ptychobairdia* to be a junior synonym. *Ptychobairdia* is a valid genus after KRISTAN-TOLLMANN (1990a: p. 174–178). One figured paratype (coll. no. GBA 2008/136/0027) exists.

Current classification: ***Ptychobairdia schaubegeri* KOLLMANN, 1963.**

***Dicerobairdia bicornuta* KOLLMANN, 1963**

(Pl. 5, Figs. 7–9; Pl. 7, Fig. 13)

Coll. no.: GBA 2008/136/0028.

Type: holotype, left valve.

Type level: Triassic, Rhaetian.

Type locality: Plackleswiese, W Plackles, Hohe Wand, NW Wiener Neustadt, Lower Austria, Austria.

Type reference and figure: KOLLMANN, K., 1963: p. 182, Pl. 1, Figs. 3–5; Pl. 9, Fig. 1.

Remarks: Genoholotype. In the original publication, the invalid coll. no. GBA/0167 was given. BOLZ (1971: p. 192–195) gave a new description of this species. He as-

signed all of KOLLMANN's (1963) *Dicerobairdia* species to *Triebelina* (*Triebelina*) whereby *Dicerobairdia* became a junior synonym of *Triebelina*. KRISTAN-TOLLMANN (1970: p. 289, 1990a: p. 173; KRISTAN-TOLLMANN et al., 1980: p. 186) continued using *Dicerobairdia* and also (1970: p. 292) erected the subspecies *Dicerobairdia bicornuta kollmanni* which BOLZ (1971: p. 195) did not accept. Two figured paratypes (coll. nos. 2008/136/0029–0030) are in the collection.

Current classification: ***Dicerobairdia bicornuta bicornuta* KOLLMANN, 1963.**

***Dicerobairdia ladinica* KOLLMANN, 1963**

(Pl. 7, Figs. 18–20)

Coll. no.: GBA 2008/136/0032.

Type: holotype, left valve.

Type level: Triassic, Ladinian, upper Cordevolian, upper Cassian beds = Falzarego beds.

Type locality: Settsass-Scharte, St. Cassian, South Tyrol, Italy.

Type reference and figure: KOLLMANN, K., 1963: p. 183, Pl. 9, Figs. 11–13.

Remarks: In the publication, the invalid coll. no. GBA/0171 was given. This is the only case for which KOLLMANN stated that there are no paratypes. Therefore it is a holotype by monotypy. BOLZ (1971: p. 183) did not mention the species, but placed it indirectly in *Triebelina* (*Triebelina*) because he declared the genus *Dicerobairdia* to be a synonym of *Triebelina* (see above).

Current classification: ***Triebelina ladinica* (KOLLMANN, 1963).**

***Dicerobairdia gruenbachensis* KOLLMANN, 1963**

(Pl. 7, Figs. 16–17)

Coll. no.: GBA 2008/136/0033.

Type: holotype, left valve.

Type level: Triassic, Carnian, lower Julian, “Halobien-schiefer”.

Type locality: Hohe Wand, Segen-Gottes-Schacht, W Wiener Neustadt, Lower Austria, Austria.

Type reference and figure: KOLLMANN, K., 1963: p. 184, Pl. 9, Figs. 6–7.

Remarks: In the publication, the invalid coll. no. GBA/0172 was given. BOLZ (1971: p. 183) placed the species in *Triebelina* (*Triebelina*) (see above). KOZUR (1971: p. 10) erected the new subspecies *T. gruenbachensis tollmannae*. Two figured paratypes (coll. nos. GBA 2008/136/0034–0035) exist.

Current classification: ***Triebelina gruenbachensis* (KOLLMANN, 1963).**

***Dicerobairdia elegans* KOLLMANN, 1963**

(Pl. 7, Figs. 14–15)

Coll. no.: GBA 2008/136/0036.

Type: holotype, carapace.

Type level: Triassic, Carnian, lower Julian, “Halobien-schiefer”.

Type locality: Hohe Wand, Segen-Gottes-Schacht, W Wiener Neustadt, Lower Austria, Austria.

Type reference and figure: KOLLMANN, K., 1963: p. 185, Pl. 9, Figs. 4–5.

Remarks: In the publication, the invalid coll. no. GBA/0175 was given. BOLZ (1971: p. 183) placed the species in *Triebelina* (*Triebelina*) (see above). Paratypes have not been found in the collection and were not mentioned by KOLLMANN (1963).

Current classification: *Triebelina elegans* (KOLLMANN, 1963).

***Bairdiolites semisculptus* KOLLMANN, 1963**

(Pl. 7, Figs. 26–29)

Coll. no.: GBA 2008/136/0037.

Type: holotype, carapace.

Type level: Triassic, Rhaetian, Zlambach marls.

Type locality: Hallstatt, Salzberg, Upper Austria, Austria.

Type reference and figure: KOLLMANN, K., 1963: p. 188, Pl. 10, Figs. 6–9.

Remarks: In the publication, the invalid coll. no. GBA/0176 was given. The latin ending (-a) of the species name was corrected by KEMPF (1986: -us). There are no paratypes.

Current classification: *Bairdiolites semisculptus* KOLLMANN, 1963.

***Neobairdiolites placklesensis* KOLLMANN, 1963**

(Pl. 7, Figs. 21–25)

Coll. no.: GBA 2008/136/0038.

Type: holotype, carapace.

Type level: Triassic, Rhaetian, Zlambach marls ?

Type locality: Plackleswiese, W Plackles, Hohe Wand, NW Wiener Neustadt, Lower Austria, Austria.

Type reference and figure: KOLLMANN, K., 1963: p. 190, Pl. 10, Figs. 1–5.

Remarks: Genoholotype. In the original publication, the invalid coll. no. GBA/0177 was given. KRISTAN-TOLLMANN (1970: p. 279) assigned the species to *Bairdiolites* declaring the monospecific *Neobairdiolites* to be a junior synonym of *Bairdiolites*. There are no paratypes.

Current classification: *Bairdiolites placklesensis* KOLLMANN, 1963.

***Carinobairdia triassica* KOLLMANN, 1963**

(Pl. 5, Figs. 15–16; Pl. 8, Fig. 5)

Coll. no.: GBA 2008/136/0039.

Type: holotype, left valve.

Type level: Triassic, Rhaetian, Zlambach marls ?

Type locality: Plackleswiese, W Plackles, Hohe Wand, NW Wiener Neustadt, Lower Austria, Austria.

Type reference and figure: KOLLMANN, K., 1963: p. 191, Pl. 3, Figs. 5–6; Pl. 11, Fig. 1.

Remarks: Genoholotype. In the original publication, the invalid coll. no. GBA/0178 was given. BOLZ (1971: p. 228–229) assigned *C. triassica* and *C. umbonata* to the genus *Lobobairdia*. He rejected the genus *Carinobairdia*, which he synonymized partly with *Lobobairdia* and partly with *Triebelina* (*Nodobairdia*). This opinion stands in contrast with the works of KRISTAN-TOLLMANN (1969: p. 85; 1970: p. 295; 1990a: p.

173) and KRISTAN-TOLLMANN et al. (1979: p. 150, 1980: p. 182). URLICHS (1973: p. 676) first followed BOLZ's (1971) opinion, but later used *Carinobairdia* (in HILLEBRANDT et al., 2007: p. 10). KRISTAN-TOLLMANN (1970: p. 302) erected the subspecies *Carinobairdia triassica interrupta*. Two figured paratypes (coll. nos. GBA 2008/136/0040–0041) are at hand.

Current classification: *Carinobairdia triassica triassica* KOLLMANN, 1963

***Carinobairdia umbonata* KOLLMANN, 1963**

(Pl. 5, Figs. 12–14; Pl. 6, Fig. 7)

Coll. no.: GBA 2008/136/0042.

Type: holotype, left valve.

Type level: Triassic, Rhaetian, Zlambach marls ?

Type locality: Plackleswiese, W Plackles, Hohe Wand, NW Wiener Neustadt, Lower Austria, Austria.

Type reference and figure: KOLLMANN, K., 1963: p. 193, Pl. 3, Figs. 10–12; Pl. 4, Fig. 9.

Remarks: In the original publication, the invalid coll. no. GBA/0181 was given. BOLZ (1971: p. 228) assigned the species to *Lobobairdia* and KRISTAN-TOLLMANN et al. (1979: p. 153, 1980: p. 184) to *Carinobairdia* (see above). There is one figured paratype (coll. no. GBA 2008/136/0043).

Current classification: *Carinobairdia umbonata* KOLLMANN, 1963.

***Carinobairdia alpina* KOLLMANN, 1963**

(Pl. 5, Figs. 10–11)

Coll. no.: GBA 2008/136/0044.

Type: holotype, right valve.

Type level: Triassic, Rhaetian, Zlambach marls.

Type locality: Grünbachgraben, Untersberg, Salzburg, Austria.

Type reference and figure: KOLLMANN, K., 1963: p. 194, Pl. 3, Figs. 3–4.

Remarks: In the original publication, the invalid coll. no. GBA/0183 was given. BOLZ (1971: p. 218) assigned the species to *Triebelina* (*Nodobairdia*) and KOZUR (1985: p. 75) to his new genus *Bolzibairdia*. KRISTAN-TOLLMANN et al. (1979: p. 150, 1980: p. 183), KRISTAN-TOLLMANN (1990a: p. 173) and URLICHS (in HILLEBRANDT et al., 2007: p. 10) followed the concept of *Carinobairdia*. The mentioned paratypes are still present (coll. nos. GBA 2008/136/0045–0046).

Current classification: *Carinobairdia alpina* KOLLMANN, 1963.

***Carinobairdia alta* KOLLMANN, 1963**

(Pl. 8, Fig. 6)

Coll. no.: GBA 2008/136/0047.

Type: holotype, left valve.

Type level: Triassic, Rhaetian.

Type locality: Lanzing, Hohe Wand, NW Wiener Neustadt, Lower Austria, Austria.

Type reference and figure: KOLLMANN, K., 1963: p. 195, Pl. 11, Fig. 3.

Remarks: In the original publication, the invalid coll. no. GBA/0186 was given. BOLZ (1969: p. 427; 1971: p. 218)

and KRISTAN-TOLLMANN (1970: p. 297) declared *Carinobairdia alta* to be synonymous with *C. alpina* (see above), because the specimens are the left valves of this species. One figured paratype from the Hallstätter Salzberg (coll. no. GBA 2008/136/0048) exists.

Current classification: ***Carinobairdia alpina* KOLLMANN, 1963.**

***Carinobairdia tenuicarinata* KOLLMANN, 1963**

(Pl. 8, Figs. 7–8)

Coll. no.: GBA 2008/136/0049.

Type: holotype, carapace.

Type level: Triassic, Rhaetian.

Type locality: Dolomitenhütte, Lienzer Dolomiten, Tyrol, Austria.

Type reference and figure: KOLLMANN, K., 1963: p. 196, Pl. 11, Figs. 5, 7.

Remarks: In the original publication, the invalid coll. no. GBA/0188 was given. KRISTAN-TOLLMANN (1970: p. 301) and BOLZ (1971: p. 218) declared *Carinobairdia tenuicarinata* to be a synonym of *C. alpina* (see above) because all specimens represent larval stages of this species. Two figured paratypes (coll. nos. GBA 2008/136/0050–0051) exist in the collection.

Current classification: ***Carinobairdia alpina* KOLLMANN, 1963.**

***Medwenitschia ornata* KOLLMANN, 1963**

(Pl. 8, Figs. 1–4)

Coll. no.: GBA 2008/136/0052.

Type: holotype, carapace.

Type level: Triassic, Rhaetian, Zlambach marls.

Type locality: Hallstatt, Salzberg, Upper Austria, Austria.

Type reference and figure: KOLLMANN, K., 1963: p. 197, Pl. 10, Figs. 11–14.

Remarks: Genoholotype. In the original publication, the invalid coll. no. GBA/0191 was given. One figured paratype (coll. no. GBA 2008/136/0053) exists. BOLZ (1971: p. 195, 183) found more material of this species and described the inner characteristics of the valves for the first time. With this knowledge, he declared the monospecific genus *Medwenitschia* to be a junior synonym of *Triebelina* (*Triebelina*). At the same time, KRISTAN-TOLLMANN (1971: p. 73) erected a second species of *Medwenitschia*, based on one carapace, and kept the genus.

Current classification: ***Medwenitschia ornata* KOLLMANN, 1963.**

**KRISTAN-TOLLMANN, E. (1991):
Ostracods from the Middle Triassic Sina
Formation (Aghdarband Group) in NE-Iran. –
Abh. Geol. Bundesanst., 38.**

***Ptychobairdia ruttneri* KRISTAN-TOLLMANN, 1991**

(Pl. 8, Figs. 10–11)

Coll. no.: GBA 1985/005/0004.

Type: holotype, carapace.

Type level: Triassic, Ladinian, upper Langobardian (*Frankites regoledanus* Zone), Aghdarband Group, Sina Formation, Faqir Marl Bed.

Type locality: Aghdarband, E Mashad, Khorassan province, Iran.

Type reference and figure: KRISTAN-TOLLMANN, E., 1991: p. 196, Pl. 1, Fig. 4.

Current classification: ***Ptychobairdia ruttneri* KRISTAN-TOLLMANN, 1991.**

***Polycope aghdarbandensis* KRISTAN-TOLLMANN, 1991**

(Pl. 8, Fig. 9)

Coll. no.: GBA 1985/005/0011.

Type: holotype, single valve.

Type level: Triassic, Ladinian, upper Langobardian (*Frankites regoledanus* Zone), Aghdarband Group, Sina Formation, Faqir Marl Bed.

Type locality: Aghdarband E Mashad, province Khorassan, Iran.

Type reference and figure: KRISTAN-TOLLMANN, E., 1991: p. 197, Pl. 1, Fig. 11.

Current classification: ***Polycope aghdarbandensis* KRISTAN-TOLLMANN, 1991.**

PROCHÁZKA, V.J. (1893):

**Miocaen Židlochovický na Moravě a jeho zvířena
(Das Miocaen von Seelowitz in Moravia und dessen Fauna). – Rozpravy České Akad. Císarě
Františka Josefa Pro Vědy, Slovesnost a Umění v
Praze, ser. 2 (matematicko-Přírodnická), 2 (24).**

PROCHÁZKA (1893) described seven new Miocene ostracod species from the surroundings of Židlochovice in Moravia, four of which have been found in the collection of the Geological Survey of Austria. However, the samples of *Cythere fragilis*, *C. obliquus* and *C. moravica* have been lost. These species are not treated in detail in the present paper, but the original drawings are presented on Plate 3.

***Cythere vejhonensis* PROCHÁZKA, 1893**

(Pl. 3, Figs. 36–38)

Coll. no.: GBA 2008/171/0001.

Type: 1 syntype, left valve.

Type level: Miocene, Badenian.

Type locality: Židlochovice (Seelowitz), Vejhonberg, Moravia, Czech Republic.

Type reference and figure: PROCHÁZKA, V.J., 1893: p. 54, 78, Taf. 1, Fig. 11a–c.

Locality details: quarry near the city waterworks (“Steinbruch nächst der städtischen Wasserleitung”).

Coll. no.: GBA 2008/171/0002.

Type: 1 syntype, right valve.

Locality details: clay pit opposite Hlinikstreet (“Tongrube gegenüber Hlinikgasse”).

Remarks: BONADUCE et al. (1988) assigned *Cythere vejhonensis* to their new genus *Heliocythere*. *Cythere moedlingensis* TOULA, 1915 is very probably identical with this species.

Current classification: ***Heliocythere vejhonensis* (PROCHÁZKA, 1893).**

***Cythere oviformis* PROCHÁZKA, 1893**

(Pl. 3, Figs. 30–32)

Coll. no.: GBA 2008/171/0003.

Type: 9 syntypes, 7 left valves (one larval stage), 2 right valves.

Type level: Miocene, Badenian, Leda beds.

Type locality: Židlochovice (Seelowitz), Vejhonberg, Moravia, Czech Republic.

Type reference and figure: PROCHÁZKA, V.J., 1893: p. 55, 78, Taf. 1, Fig. 9.

Remarks: Because there is only one complete right valve available, this one is presumed to be the figured syntype. All of the specimens belong to *Bosquetina carinella*. *Cythere oviformis* must be regarded to be a junior synonym.

Current classification: ***Bosquetina carinella* (REUSS, 1850).**

***Cythere reussi* PROCHÁZKA, 1893**

(Pl. 3, Figs. 18–20)

Type level: Miocene, Badenian.

Type locality: Židlochovice (Seelowitz), Vejhonberg, Moravia, Czech Republic.

Type reference and figure: PROCHÁZKA, V.J., 1893: p. 56, 79.

Coll. no.: GBA 2008/171/0004.

Type: 1 syntype, left valve.

Locality details: road cut, real “Schlier” (“Wegeinschnitt, echter Schlier”).

Coll. no.: GBA 2008/171/0005.

Type: 6 syntypes, 5 right and 1 left valve.

Locality details: road cut, fossil-rich layer (“Wegeinschnitt, fossilreiche Lage”).

Coll. no.: GBA 2008/171/0006.

Type: 7 syntypes, 2 right and 5 left valves.

Locality details: quarry near the city waterworks (“Steinbruch nächst der städtischen Wasserleitung”).

Coll. no.: GBA 2008/171/0007.

Type: 8 syntypes, 2 right and 6 left valves.

Locality details: hillside opposite the cross at the street (“Hang gegenüber dem Kreuze an der Straße”).

Remarks: PROCHÁZKA (1893: p. 16, 20, 25, 79) stated that he found *Cythere reussi* at Vejhonberg, in the beds that are rich in *Corbula gibba* and *Leda nitida*, in the real “Schlier”, in the clay pit opposite Hlinikstreet and in the fossil-rich layer. In the collection the syntypes from two of these localities are extant as is additional material from two other localities, for which he did not mention the occurrence (see above).

The figured specimens (PROCHÁZKA, 1893: Pl. 2, Fig. 1) cannot be identified among the 22 syntypes. TRIEBEL (1950) recognised that *Cythere reussi* PROCHÁZKA, 1893 is a homonym of *Cythere reussi* BRADY, 1869. He substituted the name with *Cnestocythere lamellicosta* n.n. All available syntypes belong to *Cnestocythere lamellicosta* TRIEBEL, 1950.

Current classification: ***Cnestocythere lamellicosta* TRIEBEL, 1950.**

***Cythere blucinensis* PROCHÁZKA, 1893**

(Pl. 3, Figs. 33–35)

Coll. no.: GBA 2008/171/0008.

Type: 1 syntype, right valve.

Type level: Miocene, Badenian.

Type locality: Židlochovice (Seelowitz), Kohlberg near Blucina, Moravia, Czech Republic.

Type reference and figure: PROCHÁZKA, V.J., 1893: p. 56, 79, Taf. 2, Fig. 3.

Remarks: PROCHÁZKA (1893: p. 30, 87) mentioned that *Cythere blucinensis* occur in the quarry near the city waterworks of Židlochovice and at Kohlberg. Only one syntype from Kohlberg is available and is probably the figured specimen. However, this belongs to *Nonurocythereis seminulum* (SEGUENZA, 1880). *Cythere blucinensis*, therefore, has to be regarded a junior synonym of this species.

Current classification: ***Nonurocythereis seminulum* (SEGUENZA, 1880).**

**SCHRAUT, G. (1996):
Die Arthropoden aus dem Unterkarbon von
Nötsch (Kärnten/Österreich). –
Abh. Geol. Bundesanst., 51.**

***Hollinella (Hollinella) bulbolobata* SCHRAUT, 1996**

(Pl. 9, Figs. 1–2)

Coll. no.: GBA 1996/002/0020.

Type: holotype, artificial cast of right male valve.

Type level: Carboniferous, upper Visean / lower Namurian, Erlachgraben Formation.

Type locality: Hermsberg, Oberhöher near Nötsch, Carinthia, Austria.

Type reference and figure: SCHRAUT, G., 1996: p. 66–67, Pl. 5, Fig. 2; Text-Fig. 54.

Remarks: Number of holotype in publication: T33 H1397. One figured paratype (number T33 K03206) exists.

Current classification: ***Hollinella (Hollinella) bulbolobata* SCHRAUT, 1996.**

***Knoxiiella? bicornuta* SCHRAUT, 1996**

(Pl. 9, Figs. 3–4)

Coll. no.: GBA 1996/002/0079.

Type: holotype, artificial cast of left valve.

Type level: Carboniferous, upper Visean, Nötsch Formation.

Type locality: Oberhöher, near Nötsch (locality SCHÖNLAUB 1), Carinthia, Austria.

Type reference and figure: SCHRAUT, G., 1996: p. 99–100, Pl. 7, Fig. 14; Text-Fig. 91.

Remarks: Holotypus monotypicus, number in publication: T19 S1253.

Current classification: ***Knoxiiella ? bicornuta* SCHRAUT, 1996.**

***Pseudobeyrichiopsis angustata* SCHRAUT, 1996**

(Pl. 9, Figs. 5–6)

Coll. no.: GBA 1996/002/0082.

Type: holotype, artificial cast of a female left valve.

Type level: Carboniferous, upper Visean, Nötsch Formation.

Type locality: Oberhöher, near Nötsch (locality SCHÖNLAUB 1), Carinthia, Austria.

Type reference and figure: SCHRAUT, G., 1996: p. 102–103, Pl. 8, Fig. 1; Text-Fig. 94.

Remarks: Holotypus monotypicus, number in publication: T22 S03109.

Current classification: ***Pseudobeyrichiopsis angustata* SCHRAUT, 1996.**

***Pseudobeyrichiopsis longispinosa* SCHRAUT, 1996**

(Pl. 9, Figs. 7–8)

Coll. no.: GBA 1996/002/0085.

Type: holotype, artificial cast of a male right valve.

Type level: Carboniferous, upper Visean, Nötsch Formation.

Type locality: Oberhöher, near Nötsch (locality SCHÖNLAUB 1), Carinthia, Austria.

Type reference and figure: SCHRAUT, G., 1996: p. 104–105, Pl. 8, Fig. 4; Text-Fig. 96.

Remarks: Number of holotype in publication: T5 K1468. Five paratypes (casts) exist.

Current classification: ***Pseudobeyrichiopsis longispinosa* SCHRAUT, 1996**

***Acratia dorsoangulata* SCHRAUT, 1996**

(Pl. 9, Figs. 9–10)

Coll. no.: GBA 1996/002/0102.

Type: holotype, artificial cast of left valve.

Type level: Carboniferous, upper Visean, Nötsch Formation.

Type locality: Oberhöher, near Nötsch (locality SCHÖNLAUB 1), Carinthia, Austria.

Type reference and figure: SCHRAUT, G., 1996: p. 127–128, Pl. 10, Fig. 9; Text-Fig. 109.

Remarks: Holotypus monotypicus, number in publication: T23 S03136.

Current classification: ***Acratia dorsoangulata* SCHRAUT, 1996.**

***Acratia rectiventralis* SCHRAUT, 1996**

(Pl. 9, Figs. 11–12)

Coll. no.: GBA 1996/002/0103.

Type: holotype, artificial cast of left valve.

Type level: Carboniferous, Upper Visean, Nötsch Formation.

Type locality: Oberhöher, near Nötsch (locality SCHÖNLAUB 1), Carinthia, Austria.

Type reference and figure: SCHRAUT, G., 1996: p. 128–129, Pl. 10, Fig. 10; Text-Fig. 110.

Remarks: Holotypus monotypicus, number in publication: T23 S03142.

Current classification: ***Acratia rectiventralis* SCHRAUT, 1996.**

ZORN, I. (1998):

Ostracoda aus dem Karpat (Unter-Miozän) des Korneuburger Beckens (Niederösterreich). – Beitr. Paläont., 23.

For this publication only the holo- and paratypes that are stored in the collection of the Geological Survey are documented. Further material is deposited at the Museum of Natural History in Vienna.

***Callistocythere karpatiensis* ZORN, 1998**

(Pl. 2, Figs. 9–10)

Coll. no.: GBA 1997/003/0004/04.

Type: holotype, female right valve.

Type level: Miocene, Karpatian, Korneuburg beds.

Type locality: Teiritzberg, near Stetten, Lower Austria, Austria.

Type reference and figure: ZORN, I., 1998: p. 183, Pl. 2, Fig. 1.

Remarks: The following paratypes from the type locality are in the collection: 1 figured female left valve (coll. no. GBA 1997/0003/004/05: Pl. 2, Fig. 2; Pl. 14, Fig. 1), 1 female right and 1 female left valve and 2 fragments (coll. no. GBA 1997/0003/004/06).

Current classification: ***Callistocythere karpatiensis* ZORN, 1998.**

***Heliocythere leobendorfensis* ZORN, 1998**

(Pl. 2, Figs. 11–12)

Coll. no.: GBA 1997/003/0011/18.

Type: holotype, carapace.

Type level: Miocene, Karpatian, Korneuburg Beds.

Type locality: Leobendorf, behind the school, Lower Austria, Austria.

Type reference and figure: ZORN, I. 1998: p. 201, Pl. 8, Figs. 7–8.

Remarks: The following paratypes from the type locality are in the collection: 1 figured right valve (coll. no. GBA 1997/003/0011/19: Pl. 8, Fig. 6; Pl. 18, Fig. 3), 1 left valve and 2 larval left valves (coll. no. GBA 1997/003/0011/20).

Current classification: ***Heliocythere leobendorfensis* ZORN, 1998.**

***Cyamocytheridea gracilis* ZORN, 1998**

Type and type reference: paratypes, ZORN, I. 1998: p. 187.

Type level: Miocene, Karpatian, Korneuburg beds.

Coll. nos.:

GBA 1997/003/0011/10: 1 right valve (Leobendorf, behind the school).

GBA 1997/003/0013/02: 3 right and 2 left valves Korneuburg-1 borehole: 102,0–104,6 m).

Current classification: ***Cyamocytheridea gracilis* ZORN, 1998.**

Acknowledgements

Many thanks are due to Helga PRIEWALDER, Monika BRÜGGEMANN-LEDOLTER and Ilka WÜNSCHE (Geologische Bundesanstalt) for their help in terms of scanning and digital imaging of the original plates.

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(Sub-)species with holo- (H), neo- (N) or syntypes (S) in GBA-collection				Coll. no./remarks	Chronostratigraphy	
CERNAJSEK (1971)	<i>Aurila</i>	<i>angulata angulata</i>	(REUSS, 1850)	N	2009/003/0001	Miocene, Badenian
	<i>Aurila</i>	<i>angulata teiritzbergensis</i>	CERNAJSEK, 1971	H	1997/003/0007/07	Miocene, Karpatian
	<i>Aurila</i>	<i>cicatricosa</i>	(REUSS, 1850)	N	2009/003/0002/1	Miocene, Badenian
	<i>Aurila</i>	<i>cinctella</i>	(REUSS, 1850)	N	2009/003/0003	Miocene, Badenian
	<i>Aurila</i>	<i>galeata</i>	(REUSS, 1850)	N	2009/003/0004	Miocene, Badenian
	<i>Aurila</i>	<i>haueri</i>	(REUSS, 1850)	N	2009/003/0005	Miocene, Badenian
	<i>Aurila</i>	<i>hispidula</i>	(REUSS, 1850)	N	specimen missing	Miocene, Sarmatian
	<i>Aurila</i>	<i>mehesi</i>	(ZALÁNYI, 1913)	N	2009/003/0007	Miocene, Sarmatian
	<i>Aurila</i>	<i>notata</i>	(REUSS, 1850)	N	specimen missing	Miocene, Sarmatian
	<i>Aurila</i>	<i>punctata</i>	(MÜNSTER, 1830)	N	2009/003/0010/1	Miocene, Badenian
	<i>Aurila</i>	<i>similis</i>	(REUSS, 1850)	N	specimen missing	Miocene, Badenian
	<i>Aurila</i>	<i>trigonella</i>	(REUSS, 1850)	N	2009/003/0012	Miocene, Badenian
	<i>Hemicytheria</i>	<i>hungarica</i>	(MÉHES, 1908)	N	specimen missing	Miocene, Pannonian
	<i>Hemicytheria</i>	<i>omphalodes omphalodes</i>	(MÉHES, 1908)	N	2009/003/0016	Miocene, Sarmatian
	<i>Hemicytheria</i>	<i>omphalodes loerentheyi</i>	(MÉHES, 1908)	N	2009/003/0017	Miocene, Pannonian
	<i>Hemicytheria</i>	<i>reniformis maior</i>	CERNAJSEK, 1971	H	2009/003/0019	Miocene, Sarmatian
	<i>Hemicytheria</i>	<i>reniformis reniformis</i>	(REUSS, 1850)	N	2009/003/0018	Miocene, Pannonian
	<i>Procythereis</i>	<i>deformis</i>	(REUSS, 1850)	N	2009/003/0022	Miocene, Badenian
	<i>Procythereis</i>	<i>sulcatopunctatus</i>	(REUSS, 1850)	N	2009/003/0023	Miocene, Badenian
CERNAJSEK (1974)	<i>Aurila</i>	<i>kollmanni</i>	CERNAJSEK, 1974	H	specimen missing	Miocene, Sarmatian
	<i>Loxoconcha</i>	<i>schmidi</i>	CERNAJSEK, 1974	H	specimen missing	Miocene, Sarmatian
	<i>Bythocypris</i> ?	<i>pappi</i>	CERNAJSEK, 1974	H	specimen missing	Miocene, Sarmatian
	<i>Aurila</i>	<i>hispidula</i>	(REUSS, 1850)	N	specimen missing	Miocene, Sarmatian
	<i>Aurila</i>	<i>mehesi</i>	(ZALÁNYI, 1913)	N	specimen missing	Miocene, Sarmatian
	<i>Aurila</i>	<i>merita</i>	(ZALÁNYI, 1913)	N	specimen missing	Miocene, Sarmatian
	<i>Aurila</i>	<i>notata</i>	(REUSS, 1850)	N	specimen missing	Miocene, Sarmatian
	<i>Hemicytheria</i>	<i>omphalodes omphalodes</i>	(REUSS, 1850)	N	specimen missing	Miocene, Sarmatian
KAYSER (1900)	<i>Beyrichia</i>	<i>roemeri</i>	KAYSER, 1890	S	1902/002/0005	Devonian
	<i>Beyrichia</i>	<i>roemeri</i>	KAYSER, 1890	S	1902/002/0028	Devonian
KOLLMANN (1960b)	<i>Parabairdia</i>	<i>ploechingeri</i>	KOLLMANN, 1960	H	2008/133/0001	Triassic, Rhaetian
	<i>Ptychobairdia</i>	<i>kuepperi</i>	KOLLMANN, 1960	H	2008/133/0006	Triassic, Rhaetian
	<i>Ptychobairdia</i>	<i>kristanae</i>	KOLLMANN, 1960	H	2008/133/0010	Late Triassic
	<i>Ptychobairdia</i>	<i>medwenitschi</i>	KOLLMANN, 1960	H	2008/133/0011	Late Triassic
	<i>Ptychobairdia</i>	<i>oberhauseri</i>	KOLLMANN, 1960	H	2008/133/0017	Triassic, Rhaetian
KOLLMANN (1962)	<i>Cytherella</i>	<i>triestina</i>	KOLLMANN, 1962	H	2008/134/0001	Eocene, Lutetian
	<i>Cythereis</i> ?	<i>pisinensis</i>	KOLLMANN, 1962	H	2008/135/0020	Eocene, Lutetian
	<i>Trachyleberidea</i> ?	<i>sikici</i>	KOLLMANN, 1962	H	2008/135/0024	Eocene, Lutetian
	<i>Cytherella</i>	<i>ventroinflata</i>	KOLLMANN, 1962	H	2008/135/0030	Eocene, Lutetian
	<i>Cytherella</i>	<i>praehumilis</i>	KOLLMANN, 1962	H	2008/135/0038	Eocene, Lutetian
	<i>Cytherella</i>	<i>unguiformis</i>	KOLLMANN, 1962	H	2008/135/0040	Eocene, Lutetian

(Sub-)species with holo- (H), neo- (N) or syntypes (S) in GBA-collection				Coll. no./remarks	Chronostratigraphy	
KOLLMANN (1963)	<i>Bairdia</i>	<i>deformata</i>	KOLLMANN, 1963	H	2008/136/0001	Triassic, Rhaetian
	<i>Urobairdia</i>	<i>austriaca</i>	KOLLMANN, 1963	H	2008/136/0003	Triassic, Norian
	<i>Urobairdia</i>	<i>angusta</i>	KOLLMANN, 1963	H	2008/136/0004	Triassic, Norian
	<i>Cryptobairdia</i>	<i>hians</i>	KOLLMANN, 1963	H	2008/136/0005	Triassic, Rhaetian
	<i>Lobobairdia</i>	<i>salinaria</i>	KOLLMANN, 1963	H	2008/136/0007	Triassic, Rhaetian
	<i>Anisobairdia</i>	<i>cincta</i>	KOLLMANN, 1963	H	2008/136/0008	Triassic, Rhaetian
	<i>Anisobairdia</i>	<i>salisburgensis</i>	KOLLMANN, 1963	H	2008/136/0011	Jurassic, Liassic
	<i>Nodobairdia</i>	<i>mammilata</i>	KOLLMANN, 1963	H	2008/136/0012	Triassic, Ladinian
	<i>Nodobairdia</i>	<i>verrucosa</i>	KOLLMANN, 1963	H	2008/136/0016	Triassic, Carnian
	<i>Mirabairdia</i>	<i>pernodosa</i>	KOLLMANN, 1963	H	2008/136/0019	Triassic, Ladinian
	<i>Ptychobairdia</i>	<i>schaubergeri</i>	KOLLMANN, 1963	H	2008/136/0026	Jurassic, Liassic
	<i>Dicerobairdia</i>	<i>bicornuta</i>	KOLLMANN, 1963	H	2008/136/0028	Triassic, Rhaetian
	<i>Dicerobairdia</i>	<i>ladinica</i>	KOLLMANN, 1963	H	2008/136/0032	Triassic, Ladinian
	<i>Dicerobairdia</i>	<i>gruenbachensis</i>	KOLLMANN, 1963	H	2008/136/0033	Triassic, Carnian
	<i>Dicerobairdia</i>	<i>elegans</i>	KOLLMANN, 1963	H	2008/136/0036	Triassic, Carnian
	<i>Bairdiolites</i>	<i>semisculptus</i>	KOLLMANN, 1963	H	2008/136/0037	Triassic, Rhaetian
	<i>Neobairdiolites</i>	<i>placklesensis</i>	KOLLMANN, 1963	H	2008/136/0038	Triassic, Rhaetian
	<i>Carinobairdia</i>	<i>triassica</i>	KOLLMANN, 1963	H	2008/136/0039	Triassic, Rhaetian
	<i>Carinobairdia</i>	<i>umbonata</i>	KOLLMANN, 1963	H	2008/136/0042	Triassic, Rhaetian
	<i>Carinobairdia</i>	<i>alpina</i>	KOLLMANN, 1963	H	2008/136/0044	Triassic, Rhaetian
<i>Carinobairdia</i>	<i>alta</i>	KOLLMANN, 1963	H	2008/136/0047	Triassic, Rhaetian	
<i>Carinobairdia</i>	<i>tenuicarinata</i>	KOLLMANN, 1963	H	2008/136/0049	Triassic, Rhaetian	
<i>Medwenitschia</i>	<i>ornata</i>	KOLLMANN, 1963	H	2008/136/0052	Triassic, Rhaetian	
KRISTAN-T. (1991)	<i>Ptychobairdia</i>	<i>ruttneri</i>	KRISTAN-TOLLMANN, 1991	H	1985/005/0004	Triassic, Ladinian
	<i>Polycope</i>	<i>aghdarbandensis</i>	KRISTAN-TOLLMANN, 1991	H	1985/005/0011	Triassic, Ladinian
PROCHÁZKA (1893)	<i>Cythere</i>	<i>fragilis</i>	PROCHÁZKA, 1893	S	specimens missing	Miocene, Badenian
	<i>Cythere</i>	<i>obliquus</i>	PROCHÁZKA, 1893	S	specimens missing	Miocene, Badenian
	<i>Cythere</i>	<i>vejhonensis</i>	PROCHÁZKA, 1893	S	2008/171/0001-2	Miocene, Badenian
	<i>Cythere</i>	<i>moravica</i>	PROCHÁZKA, 1893	S	specimens missing	Miocene, Badenian
	<i>Cythere</i>	<i>oviformis</i>	PROCHÁZKA, 1893	S	2008/171/0003	Miocene, Badenian
	<i>Cythere</i>	<i>reussi</i>	PROCHÁZKA, 1893	S	2008/171/0004-7	Miocene, Badenian
	<i>Cythere</i>	<i>blucinensis</i>	PROCHÁZKA, 1893	S	2008/171/0008	Miocene, Badenian
SCHRAUT (1996)	<i>Hollinella</i> (<i>Hollinella</i>)	<i>bulbolobata</i>	SCHRAUT, 1996	H	1996/002/0020	Carboniferous, Visean
	<i>Knoxiella</i> ?	<i>bicornuta</i>	SCHRAUT, 1996	H	1996/002/0079	Carboniferous, Visean
	<i>Pseudobeyrichiopsis</i>	<i>angustata</i>	SCHRAUT, 1996	H	1996/002/0082	Carboniferous, Visean
	<i>Pseudobeyrichiopsis</i>	<i>longispinosa</i>	SCHRAUT, 1996	H	1996/002/0085	Carboniferous, Visean
	<i>Acratia</i>	<i>dorsoangulata</i>	SCHRAUT, 1996	H	1996/002/0102	Carboniferous, Visean
	<i>Acratia</i>	<i>rectiventralis</i>	SCHRAUT, 1996	H	1996/002/0103	Carboniferous, Visean
ZORN (1998)	<i>Callistocythere</i>	<i>karpatiensis</i>	ZORN, 1998	H	1997/003/0004/04	Miocene, Karpatian
	<i>Heliocythere</i>	<i>leobendorfensis</i>	ZORN, 1998	H	1997/003/0011/18	Miocene, Karpatian

Table 1.

List of holo-, neo- and syntypes of ostracod species stored in the collection of the Geological Survey of Austria (paratypes are only mentioned in the text). Dark grey underlined species are genotypes and light grey underlined specimens are from an unpublished thesis. Names of species are in the spelling of the author who introduced the type specimens.

Plate 1

Unpublished holo- and neotypes from CERNAJSEK (1971). The original SEM photos were usually optically distorted compared to the dimensions of the specimens. They have been scanned and if possible only revised in quality.

- Fig. 1: *Aurila angulata angulata* (REUSS, 1850).
"Neotype".
Coll. no.: GBA 2009/003/0001.
- Fig. 2: *Aurila angulata teiritzbergensis* CERNAJSEK, 1971.
"Holotype".
Coll. no.: GBA 1997/003/0007/07.
- Fig. 3: *Aurila cicatricosa* (REUSS, 1850).
"Neotype".
Coll. no.: GBA 2009/003/0002/01.
- Fig. 4: *Aurila cinctella* (REUSS, 1850).
"Neotype".
Coll. no.: GBA 2009/003/0003.
- Fig. 5: *Aurila haueri* (REUSS, 1850).
"Neotype".
Coll. no.: GBA 2009/003/0005.
- Fig. 6: *Aurila galeata* (REUSS, 1850).
"Neotype".
Coll. no.: GBA 2009/003/0004.
- Fig. 7: *Aurila trigonella* (REUSS, 1850).
"Neotype".
Coll. no.: GBA 2009/003/0012.
- Fig. 8: *Aurila punctata* (MÜNSTER, 1830).
"Neotype".
Coll. no.: GBA 2009/003/0010/01.
- Fig. 9: *Aurila similis* (REUSS, 1850).
"Neotype".
Specimen missing.
- Fig. 10: *Aurila mehesi* (ZALÁNYI, 1913).
"Neotype".
Coll. no.: GBA 2009/003/0007.
- Fig. 11: *Aurila notata* (REUSS, 1850).
"Neotype".
Specimen missing.
- Fig. 12: *Aurila hispidula* (REUSS, 1850).
"Neotype".
Specimen missing.
- Fig. 13: *Hemicytheria hungarica* (MÉHES, 1908).
"Neotype".
Specimen missing.
- Fig. 14: *Hemicytheria omphalodes omphalodes* (REUSS, 1850).
"Neotype".
Coll. no.: GBA 2009/003/0016.
- Fig. 15: *Hemicytheria omphalodes loerentheyi* (MÉHES, 1908).
"Neotype".
Coll. no.: GBA 2009/003/0017.
- Fig. 16: *Hemicytheria reniformis maior* CERNAJSEK, 1971.
"Holotype".
Coll. no.: GBA 2009/003/0019.
- Fig. 17: *Hemicytheria reniformis reniformis* (REUSS, 1850).
"Neotype".
Coll. no.: GBA 2009/003/0018.
- Fig. 18: *Procythereis sulcatopunctatus* (REUSS, 1850).
"Neotype".
Coll. no.: GBA 2009/003/0023.
- Fig. 19: *Procythereis deformis* (REUSS, 1850).
"Neotype".
Coll. no.: GBA 2009/003/0022.

Magnifications of all Figures = x 50.

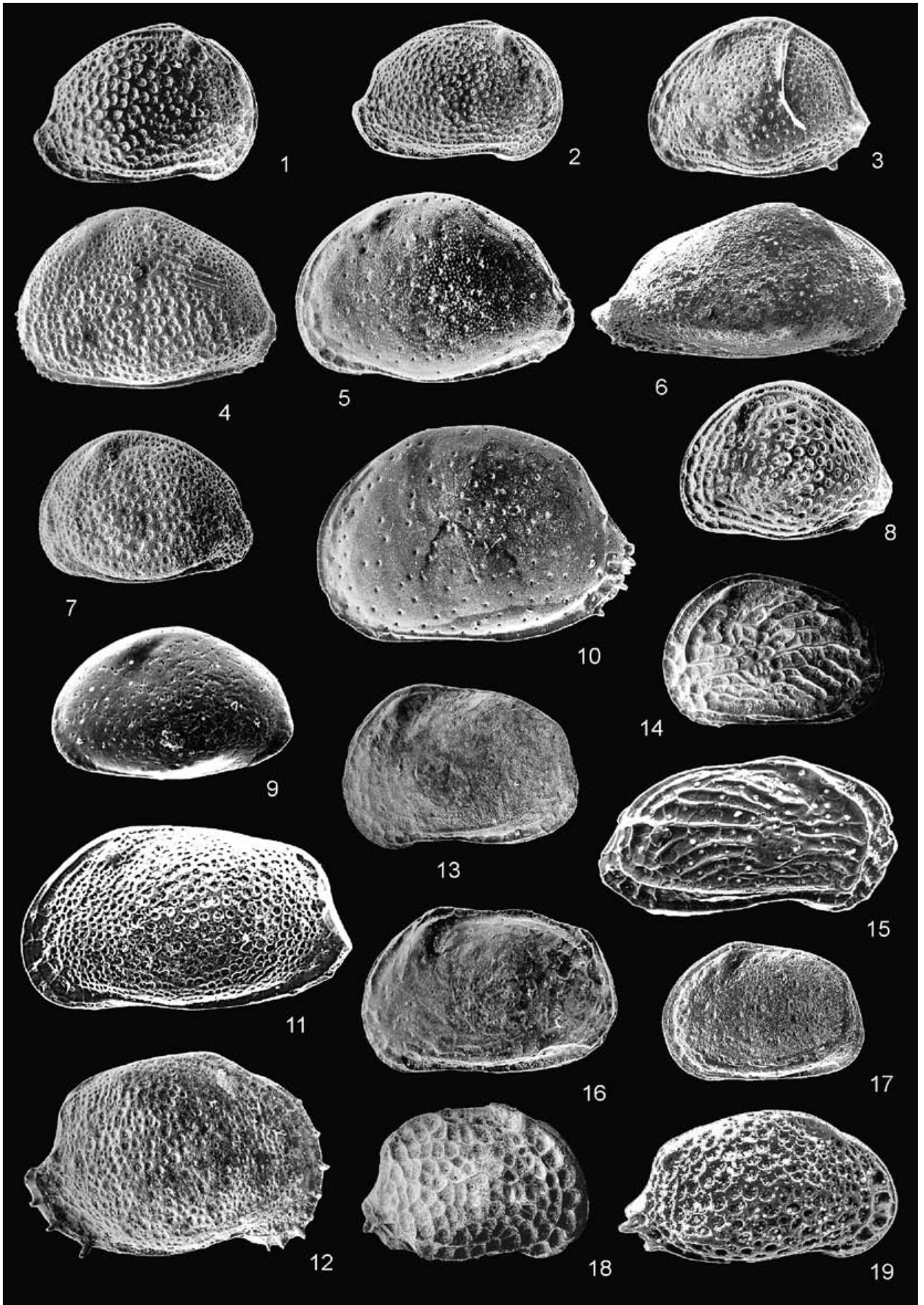


Plate 2

Type specimens published in CERNAJSEK (1974) and ZORN (1998).

- Fig. 1: *Aurila hispidula* (REUSS, 1850).
Neotype.
Specimen missing.
- Fig. 2: *Aurila mehesi* (ZALÁNYI, 1913).
Neotype.
Specimen missing.
- Fig. 3: *Aurila merita* (ZALÁNYI, 1913).
Neotype.
Specimen missing.
- Fig. 4: *Aurila kollmanni* CERNAJSEK, 1974.
Holotype.
Specimen missing.
- Fig. 5: *Aurila notata* (REUSS, 1850).
Neotype.
Specimen missing.
- Fig. 6: *Hemicytheria omphalodes omphalodes* (REUSS, 1850).
Neotype.
Specimen missing.
- Fig. 7: *Loxoconcha schmidi* CERNAJSEK, 1974.
Holotype.
Specimen missing.
- Fig. 8: *Bythocypris pappi* CERNAJSEK, 1974.
Holotype.
Specimen missing.
- Figs. 9–10: *Callistocythere karpatiensis* ZORN, 1998.
Fig. 9: Holotype.
Coll. no.: GBA 1997/003/0004/04.
Fig. 10: paratype, inner view.
Coll. no.: GBA 1997/003/0004/05.
- Figs. 11–12: *Heliocythere leobendorfensis* ZORN, 1998.
Holotype.
Coll. no.: GBA 1997/003/0011/18.

Magnifications: Figs. 1–8: not given by original author, Figs. 9–10 = x 100, Figs. 11–12 = x 80.

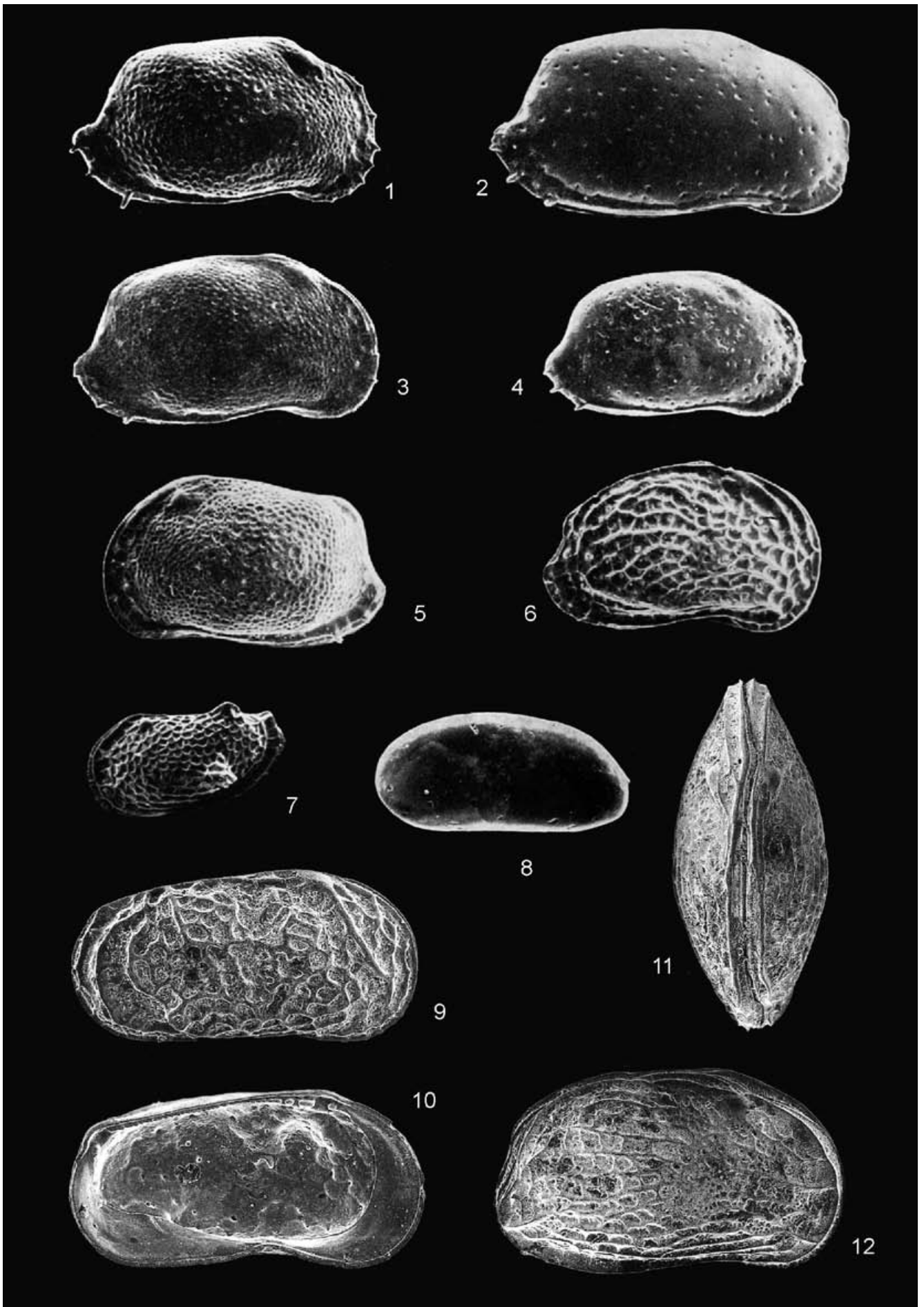


Plate 3

- Figs. 1–3: *Cytherella triestina* KOLLMANN, 1962.
Holotype.
Coll. no.: GBA 2008/134/0001, 1: left side, 2: anterior view, 3: dorsal view.
- Figs. 4–6: *Cythereis ? pisinensis* KOLLMANN, 1962.
Holotype.
Coll. no.: GBA 2008/135/0020, 4: right side, 5: dorsal view, 6: ventral view.
- Figs. 7–9: *Trachyleberidea ? sikici* KOLLMANN, 1962.
Holotype.
Coll. no.: GBA 2008/135/0024, 7: right side, 8: dorsal view, 9: ventral view.
- Figs. 10–12: *Cytherella ventroinflata* KOLLMANN, 1962.
Holotype.
Coll. no.: GBA 2008/135/0030, 10: lateral view, 11: anterior view, 12: dorsal view.
- Figs. 13–14: *Cytherella praehumilis* KOLLMANN, 1962.
Holotype.
Coll. no.: GBA 2008/135/0038, 13: left side, 14: dorsal view.
- Figs. 15–17: *Cytherella unguiformis* KOLLMANN, 1962.
Holotype.
Coll. no.: GBA 2008/135/0040, 15: left side, 16: dorsal view, 17: anterior view.
- Figs. 18–20: *Cythere reussi* PROCHÁZKA, 1893.
Syntype.
Specimen missing.
- Figs. 21–23: *Cythere blucinensis* PROCHÁZKA, 1893.
Syntype.
Coll. no.: GBA 2008/171/0008.
- Figs. 24–26: *Cythere fragilis* PROCHÁZKA, 1893.
Syntype.
Specimen missing.
- Figs. 27–29: *Cythere obliquus* PROCHÁZKA, 1893.
Syntype.
Specimen missing.
- Figs. 30–32: *Cythere oviformis* PROCHÁZKA, 1893.
Syntype.
Coll. no.: GBA 2008/171/0003.
- Figs. 33–35: *Cythere moravica* PROCHÁZKA, 1893.
Syntype.
Specimen missing.
- Figs. 36–38: *Cythere vejhonensis* PROCHÁZKA, 1893.
Syntype.
Coll. no.: GBA 2008/171/0001.
- Fig. 39: *Beyrichia roemeri* KAYSER, 1900.
Syntype.
Coll. no.: GBA 1900/002/0005.
- Fig. 40: *Beyrichia roemeri* KAYSER, 1900.
Syntype.
Coll. no.: GBA 1900/002/0028.

Magnifications: Fig. 1–17 = x 50, Fig. 18–38 = x 24.

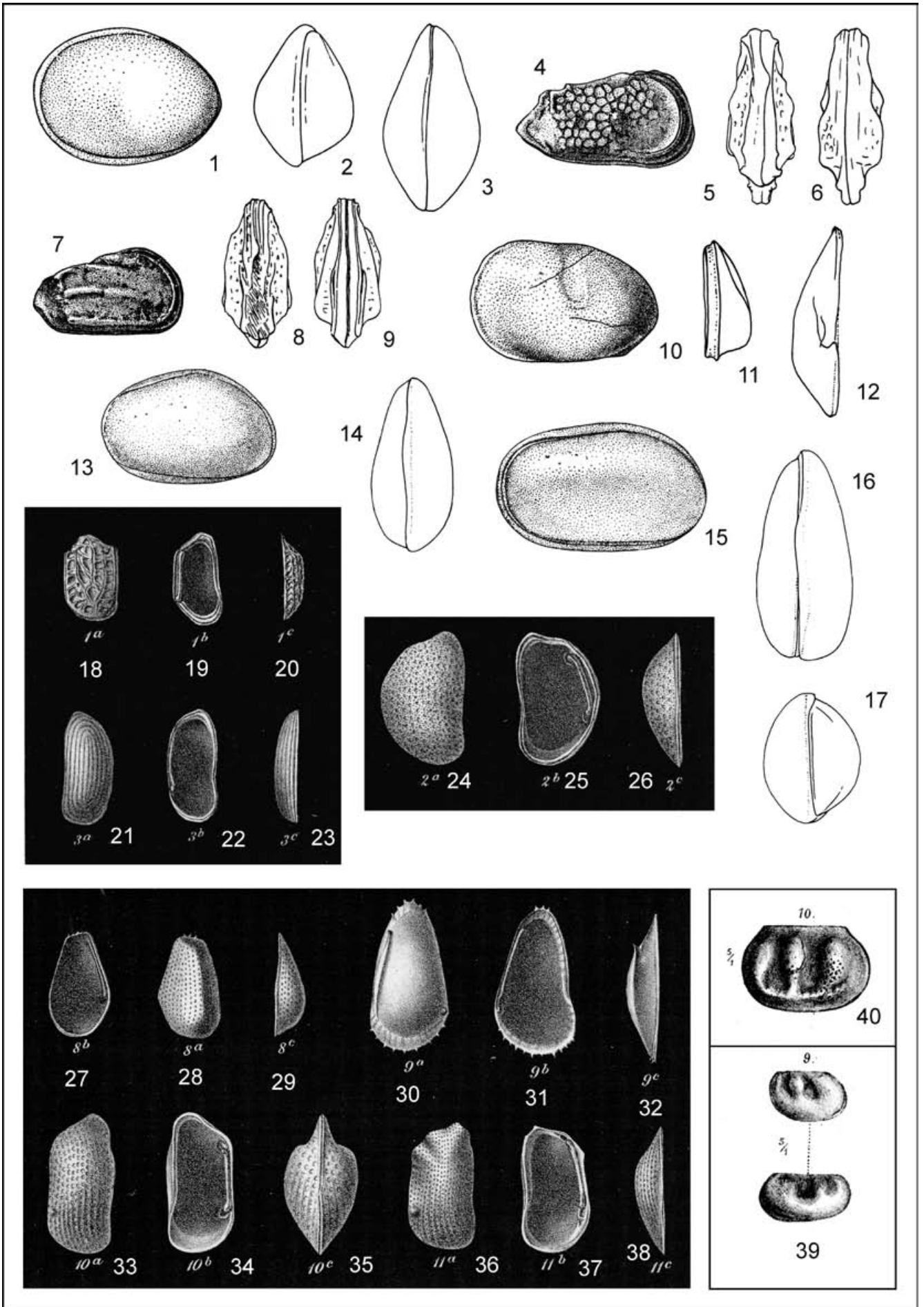


Plate 4

- Figs. 1–3: *Parabairdia ploechingeri* KOLLMANN, 1960b.
Holotype.
Coll. no.: GBA 2008/133/0001.
- Fig. 1: dorsal view.
Fig. 2: left side.
Fig. 3: right side.
- Figs. 4–5: *Ptychobairdia kuepperi* KOLLMANN, 1960b.
Holotype.
Coll. no.: GBA 2008/133/0006.
- Fig. 4: left side.
Fig. 5: anterior view.
- Figs. 6–9: *Ptychobairdia kristanae* KOLLMANN, 1960b.
Holotype.
Coll. no.: GBA 2008/133/0010.
- Fig. 6: left side.
Fig. 7: right side.
Fig. 8: dorsal view.
Fig. 9: anterior view.
- Figs. 10–13: *Ptychobairdia medwenitschi* KOLLMANN, 1960b.
Holotype.
Coll. no.: GBA 2008/133/0011.
- Fig. 10: left side.
Fig. 11: right side.
Fig. 12: dorsal view.
Fig. 13: anterior view.
- Figs. 14–15: *Ptychobairdia oberhauseri* KOLLMANN, 1960b.
Holotype.
Coll. no.: GBA 2008/133/0017.
- Fig. 14: left side.
Fig. 15: right side.

Magnification of all Figures = x 50.

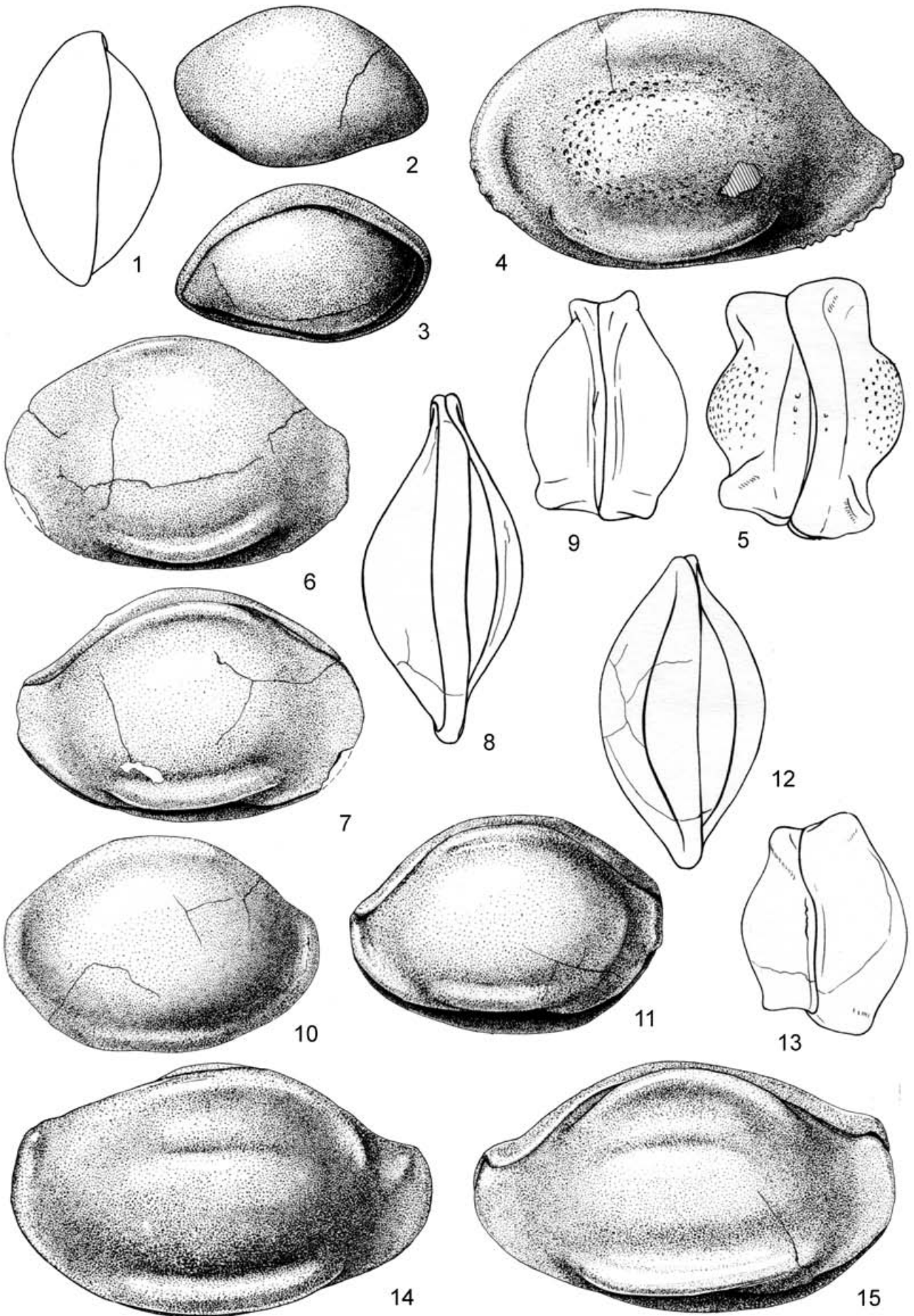


Plate 5

Figs. 1, 3: *Ptychobairdia oberhauseri* KOLLMANN, 1960b.
Holotype.
Coll. no.: GBA 2008/133/0017.

Fig. 1: dorsal view.
Fig. 3: anterior view.

Figs. 2, 4–6: *Ptychobairdia schaubegeri* KOLLMANN, 1963.
Holotype.
Coll. no.: GBA 2008/136/0026.

Fig. 2: dorsal view.
Fig. 4: anterior view.
Fig. 5: left side.
Fig. 6: right side.

Figs. 7–9: *Dicerobairdia bicornuta* KOLLMANN, 1963.
Holotype.

Coll. no.: GBA 2008/136/0028.
Fig. 7: left valve from outside.
Fig. 8: left valve from inside.
Fig. 9: dorsal view.

Figs. 10–11: *Carinobairdia alpina* KOLLMANN, 1963.
Holotype.
Coll. no.: GBA 2008/136/0044.

Fig. 10: right valve.
Fig. 11: dorsal view.

Figs. 12–14: *Carinobairdia umbonata* KOLLMANN, 1963.
Holotype.
Coll. no.: GBA 2008/136/0042.

Fig. 12: left valve from outside.
Fig. 13: left valve from inside.
Fig. 14: dorsal view.

Figs. 15–16: *Carinobairdia triassica* KOLLMANN, 1963.
Holotype.
Coll. no.: GBA 2008/136/0039.

Fig. 15: left valve from outside.
Fig. 16: left valve from inside.

Magnifications: Figs. 1, 3, 5–16 = x 50 and Figs. 2, 4 = x 42.

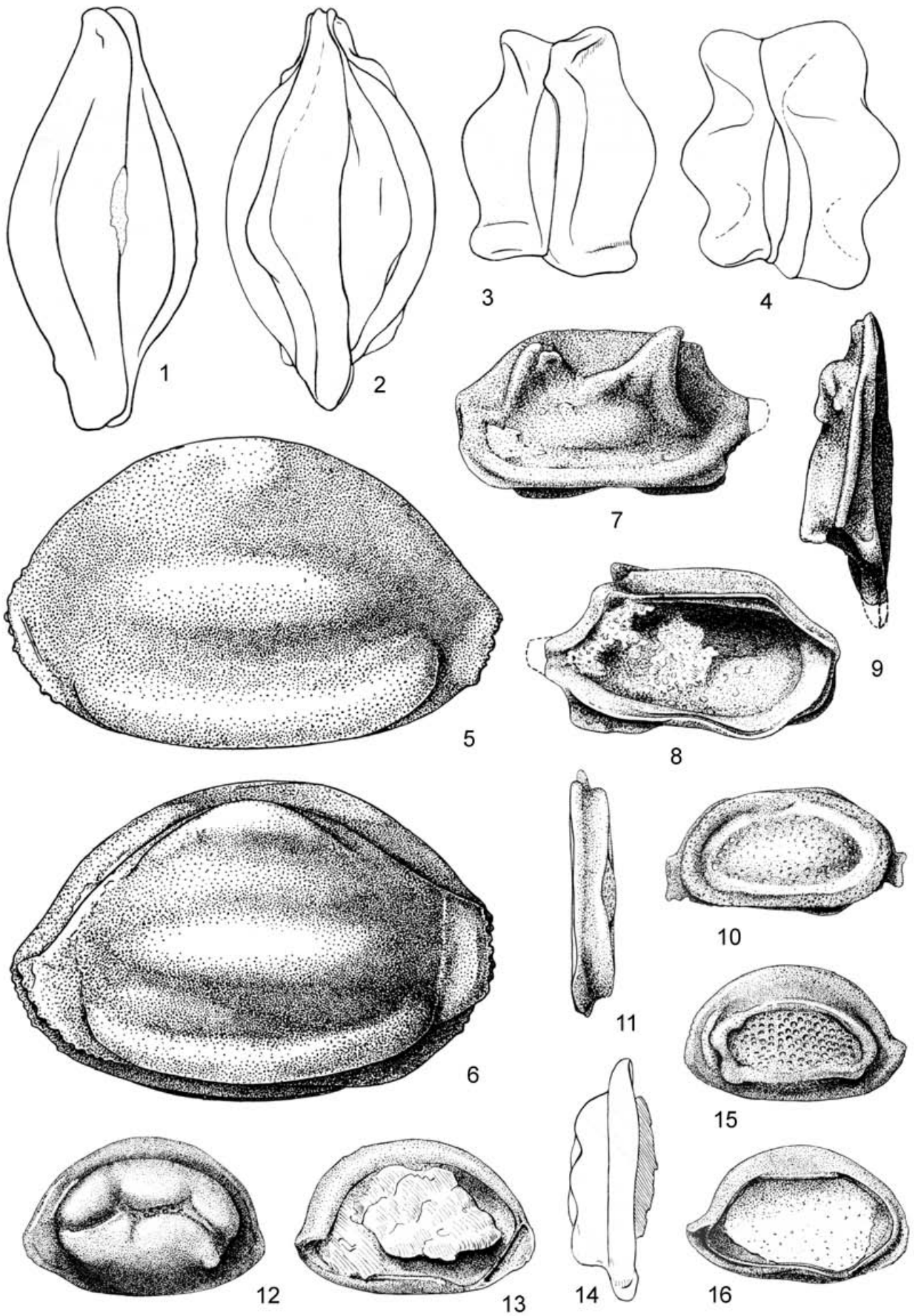


Plate 6

- Figs. 1–3: *Cryptobairdia hians* KOLLMANN, 1963.
Holotype.
Coll. no.: GBA 2008/136/0005.
- Fig. 1: left side.
Fig. 2: right side.
Fig. 3: ventral view.
- Figs. 4–5: *Anisobairdia salisburgensis* KOLLMANN, 1963.
Holotype.
Coll. no.: GBA 2008/136/0011.
- Fig. 4: left valve from outside.
Fig. 5: left valve from inside.
- Fig. 6: *Bairdia deformata* KOLLMANN, 1963.
Holotype.
Coll. no.: GBA 2008/136/0001.
- Fig. 7: *Carinobairdia umbonata* KOLLMANN, 1963.
Holotype.
Coll. no.: GBA 2008/136/0042.
- Figs. 8–11: *Anisobairdia cincta* KOLLMANN, 1963.
Holotype.
Coll. no.: GBA 2008/136/0008.
- Fig. 8: dorsal view.
Fig. 9: ventral view.
Fig. 10: left side.
Fig. 11: right side.
- Figs. 12–15: *Urobairdia angusta* KOLLMANN, 1963.
Holotype.
Coll. no.: GBA 2008/136/0004.
- Fig. 12: left side.
Fig. 13: right side.
Fig. 14: dorsal view.
Fig. 15: ventral view.
- Figs. 16–19: *Urobairdia austriaca* KOLLMANN, 1963.
Holotype.
Coll. no.: GBA 2008/136/0003.
- Fig. 16: left side.
Fig. 17: anterior view.
Fig. 18: dorsal view.
Fig. 19: ventral view.

Magnification of all Figures = x 50.

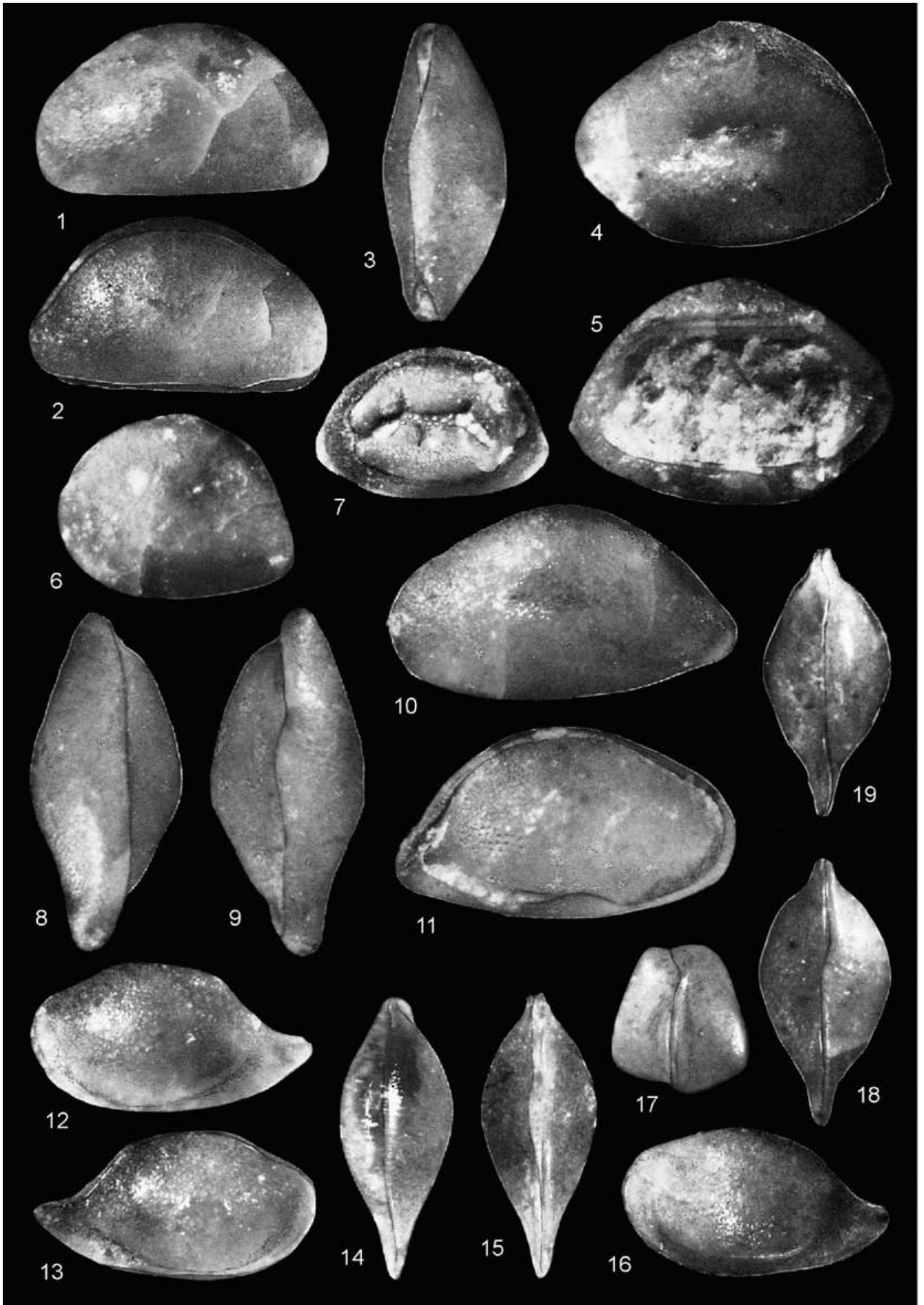


Plate 7

- Figs. 1–4: *Lobobairdia salinaria* KOLLMANN, 1963.
Holotype.
Coll. no.: GBA 2008/136/0007.
- Fig. 1: right side.
Fig. 2: left side.
Fig. 3: dorsal view.
Fig. 4: ventral view.
- Figs. 5–7: *Nodobairdia verrucosa*, KOLLMANN, 1963.
Holotype.
Coll. no.: GBA 2008/136/0016.
- Fig. 5: dorsal view.
Fig. 6: left valve from outside.
Fig. 7: left valve from inside.
- Figs. 8–11: *Nodobairdia mammilata* KOLLMANN, 1963.
Holotype.
Coll. no.: GBA 2008/136/0012.
- Fig. 8: left side.
Fig. 9: right side.
Fig. 10: ventral view.
Fig. 11: dorsal view.
- Fig. 12: *Mirabairdia pernodosa* KOLLMANN, 1963.
Holotype.
Coll. no.: GBA 2008/136/0019.
- Fig. 13: *Dicerobairdia bicomuta* KOLLMANN, 1963.
Holotype.
Coll. no.: GBA 2008/136/0028.
- Figs. 14–15: *Dicerobairdia elegans* KOLLMANN, 1963.
Holotype.
Coll. no.: GBA 2008/136/0036.
- Fig. 14: left side.
Fig. 15: dorsal view.
- Figs. 16–17: *Dicerobairdia gruenbachensis* KOLLMANN, 1963.
Holotype.
Coll. no.: GBA 2008/136/0033.
- Fig. 16: left valve from outside.
Fig. 17: left valve from inside.
- Fig. 18–20: *Dicerobairdia ladinica* KOLLMANN, 1963.
Holotype.
Coll. no.: GBA 2008/136/0032.
- Fig. 18: dorsal view.
Fig. 19: left valve from outside.
Fig. 20: left valve from inside.
- Figs. 21–25: *Neobairdiolites placklesensis* KOLLMANN, 1963.
Holotype.
Coll. no.: GBA 2008/136/0038.
- Fig. 21: left side.
Fig. 22: right side.
Fig. 23: posterior view.
Fig. 24: dorsal view.
Fig. 25: ventral view.
- Figs. 26–29: *Bairdiolites semisculptus* KOLLMANN, 1963.
Holotype.
Coll. no.: GBA 2008/136/0037.
- Fig. 26: left side.
Fig. 27: right side.
Fig. 28: dorsal view.
Fig. 29: ventral view.

Magnification of all Figures = x 50.

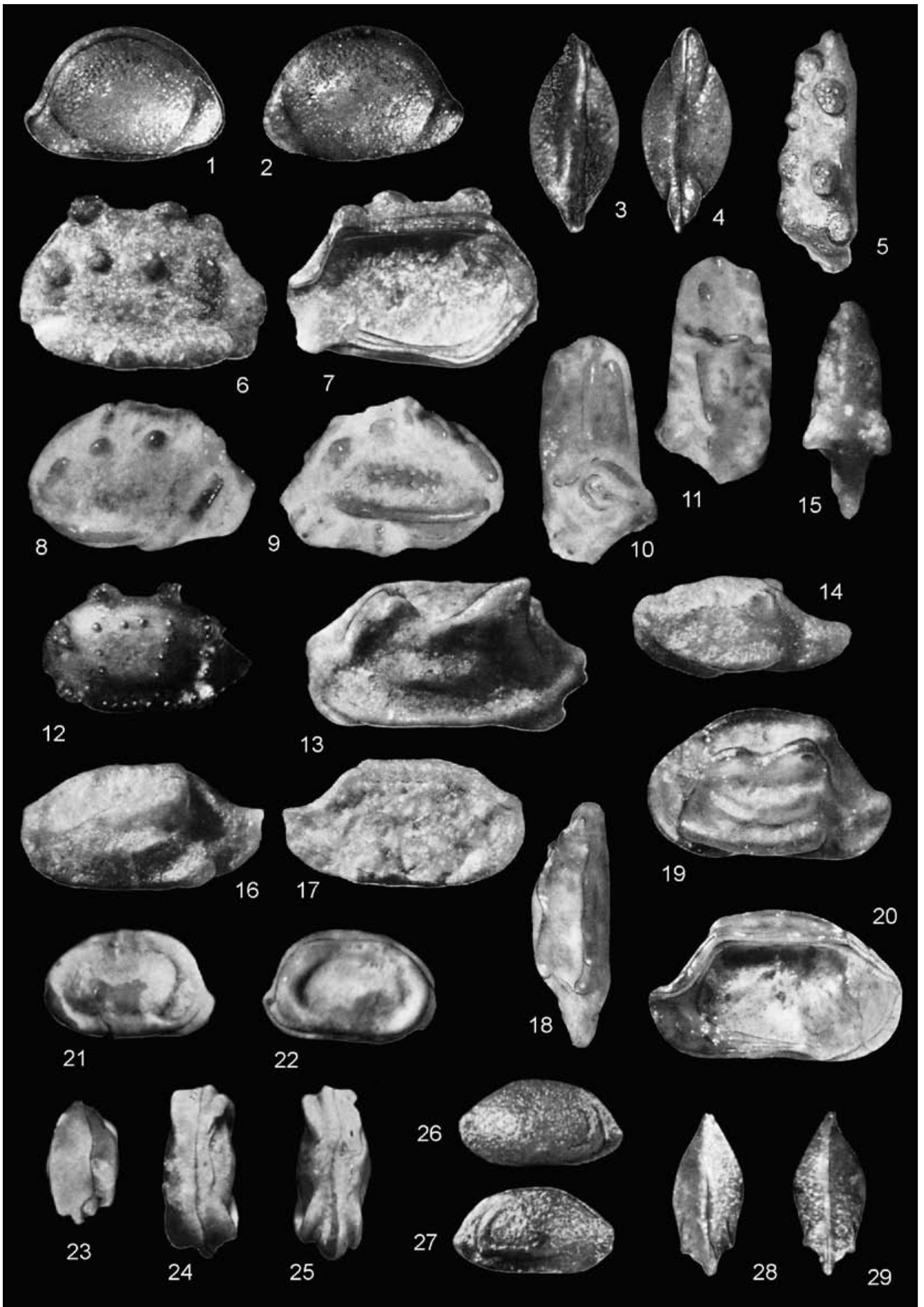


Plate 8

- Figs. 1–4: *Medwenitschia ornata* KOLLMANN, 1963.
Holotype.
Coll. no.: GBA 2008/136/0052.
- Fig. 1: left side.
Fig. 2: right side.
Fig. 3: dorsal view.
Fig. 4: ventral view.
- Fig. 5: *Carinobairdia triassica* KOLLMANN, 1963.
Holotype.
Coll. no.: GBA 2008/136/0039.
- Fig. 6: *Carinobairdia alta* KOLLMANN, 1963.
Holotype.
Coll. no.: GBA 2008/136/0047.
- Figs. 7–8: *Carinobairdia tenuicarinata* KOLLMANN, 1963.
Holotype.
Coll. no.: GBA 2008/136/0049.
- Fig. 7: left side.
Fig. 8: right side.
- Fig. 9: *Polycope aghdarbandensis* KRISTAN-TOLLMANN, 1991.
Holotype.
Coll. no.: GBA 1985/005/0011.
- Figs. 10–11: *Ptychobairdia ruttneri* KRISTAN-TOLLMANN, 1991.
Holotype.
Coll. no.: GBA 1985/005/0004.
- Fig. 10: left side.
Fig. 11: right side.

Magnification of Figures 1–8 = x 50. Scale bars of Figures 10–11 not defined by original author.

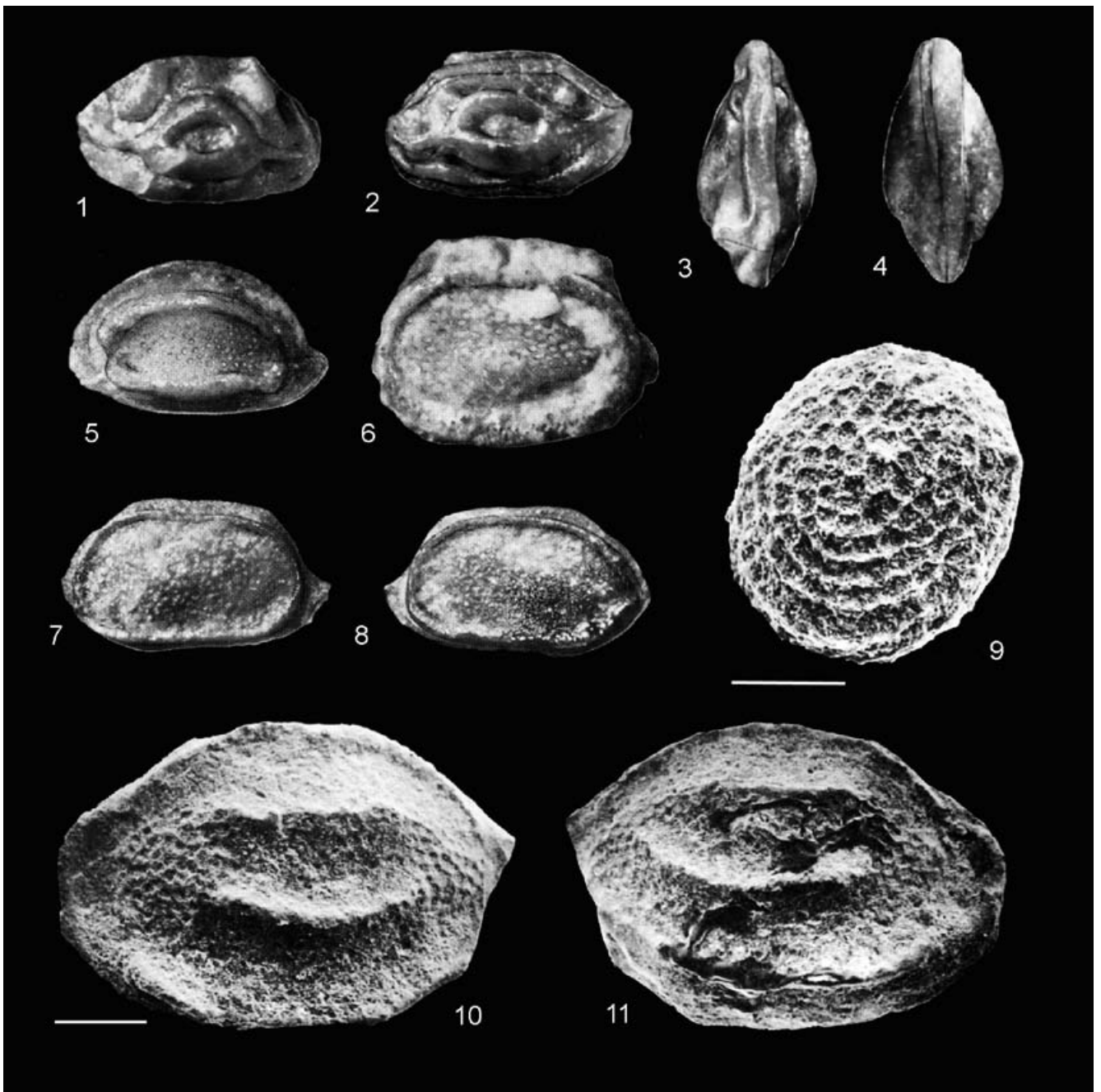
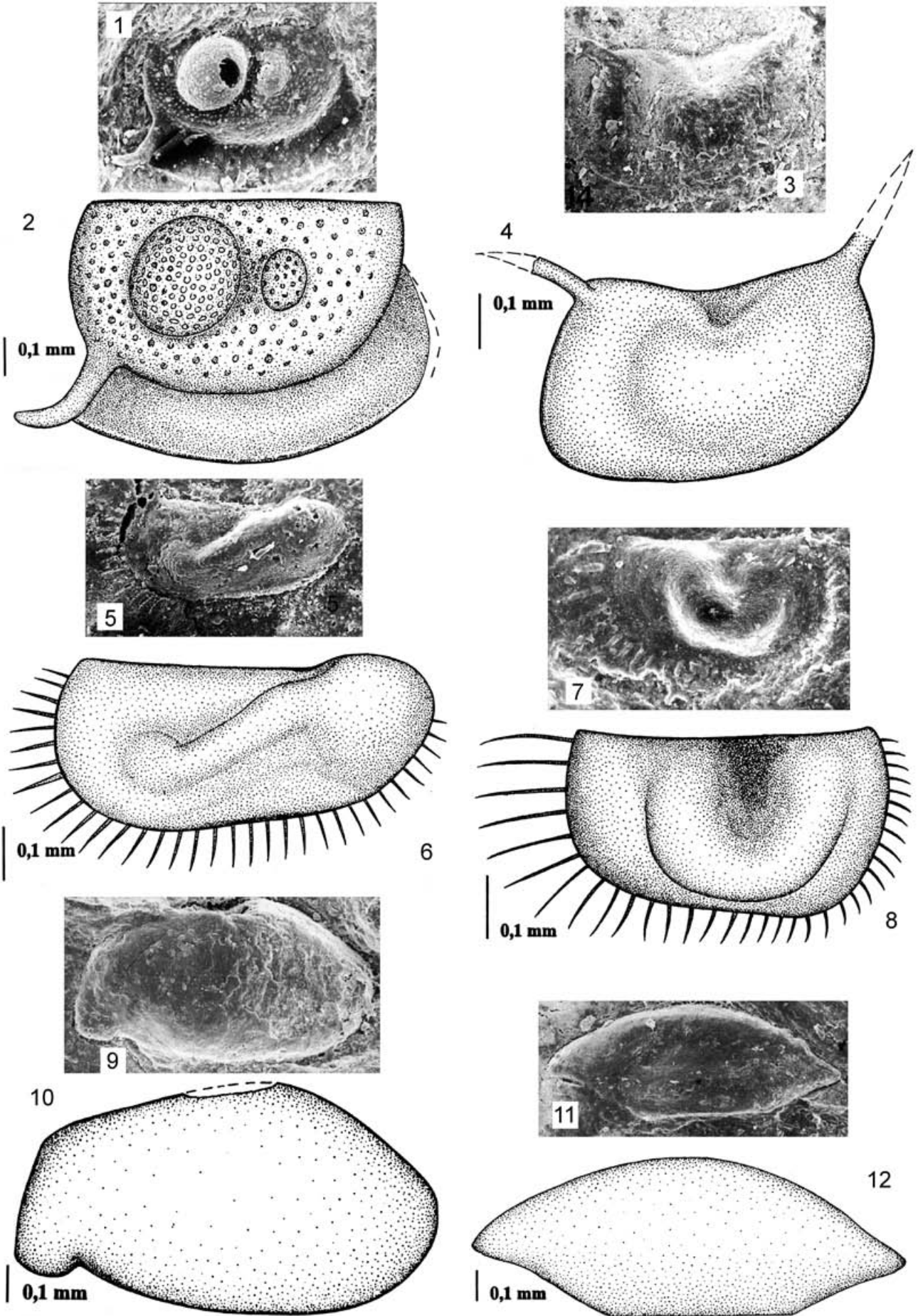


Plate 9

- Figs. 1–2: *Hollinella (Hollinella) bulbolobata* SCHRAUT, 1996.
Holotype.
Coll. no.: GBA 1996/002/0020.
- Figs. 3–4: *Knoxella ? bicornuta* SCHRAUT, 1996.
Holotype.
Coll. no.: GBA 1996/002/0079.
- Figs. 5–6: *Pseudobeyrichiopsis angustata* SCHRAUT, 1996.
Holotype.
Coll. no.: GBA 1996/002/0082.
- Figs. 7–8: *Pseudobeyrichiopsis longispinosa* SCHRAUT, 1996.
Holotype.
Coll. no.: GBA 1996/002/0085.
- Figs. 9–10: *Acratia dorsoangulata* SCHRAUT, 1996.
Holotype.
Coll. no.: GBA 1996/002/0102.
- Figs. 11–12: *Acratia rectiventralis* SCHRAUT, 1996.
Holotype.
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Zeitschrift/Journal: [Jahrbuch der Geologischen Bundesanstalt](#)

Jahr/Year: 2010

Band/Volume: [150](#)

Autor(en)/Author(s): Zorn I.

Artikel/Article: [Ostracodal Type Specimens Stored in the Paleontological Collection of the Geological Survey of Austria 263-299](#)