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Catalogue of Type, Figured and Cited specimens in the  
Commonwealth Palaeontological Collection

PALAEOZOIC MOLLUSCA and HYOLITHA

by

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CANBERRA 1996



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*Abstract:* This catalogue, the sixth of a series, lists details of the published specimens of fossil molluscs and hyoliths of Palaeozoic age registered in the Commonwealth Palaeontological Collection, Canberra, which is administered by the Australian Geological Survey Organisation. It covers over 1100 specimens of both extant (gastropods, bivalves) and extinct groups, including many holotypes, some of which are of type species. This catalogue meets part of the international responsibilities of the Australian Geological Survey Organisation under Article 72, Recommendation 72G, of the International Code of Zoological Nomenclature 1985.

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## INTRODUCTION

The **Commonwealth Palaeontological Collection** is a national collection of almost exclusively Australasian fossils, including the type specimens of many new species and genera, which have been illustrated or otherwise referred to in scientific publications. The Collection originated with the 1927 appointment in Melbourne of a Commonwealth Palaeontologist, who soon established a separate register of such published specimens, which quickly became recognised by the prefixed acronym CPC. The Collection is currently housed in Canberra, and administered by the Australian Geological Survey Organisation (AGSO), previously known as the Bureau of Mineral Resources, Geology & Geophysics (BMR).

The collection has grown steadily since the early 1960's, and at the time of writing contains over 34,000 specimens. The steady increase in the size of the Collection reflects a strong research effort to document through formal taxonomic description fossil faunas and floras from all ages and areas which have been the subject of geological investigations by BMR and now AGSO. The Commonwealth Palaeontological Collection is thus an essential database for biochronological dating of sedimentary rocks, with wide application in geological mapping and subsurface investigations associated with all aspects of land use, including petroleum and mineral exploration. The specimens it contains document the evolutionary history of the Australian biota over the last 3,000 million years, and also include extensive material from Papua New Guinea, the Australian Antarctic Territory, and the seafloor of our continental shelves.

A first series of catalogues of the Collection, part of a more extensive series covering many University collections, was published by Crespin in 1960, 1971 and 1974 as BMR Reports 54, 148, 160. This catalogue is the latest in the current series, which is being produced from the AGSO 'Oracle' database PALEO. The first three catalogues appeared as part of the same BMR Report series, which has now been discontinued. These covered the Brachiopoda (Report 298), Bryozoa (Report 305), and the Archaeocyatha, Porifera and Coelenterata (combined in Report 307). The introduction to those catalogues contains a more detailed discussion of the development of both catalogue series. The present catalogue is the third of those in this new series which are appearing within the AGSO Record series, the first being on Vertebrata, the second on Conodonta. Further volumes will appear as data entry for particular taxonomic groups is brought up to date. Unpublished specimens are not included in the catalogues, but in the context of the Palaeozoic Molluscan catalogue it should be noted that the Commonwealth Palaeontological Collection contains a large suite of Devonian nautiloids from the Canning and Carnarvon Basins, described by D. Collins in his PhD thesis presented at the University of Iowa in 1966.

**Organisation of catalogue.** This catalogue covers Palaeozoic representatives of the Phylum Mollusca, and also a few specimens of a group once thought to be molluscs, but now placed in the separate Phylum Hyolitha. The Mollusca are grouped by Class, and within each Class the arrangement is alphabetic by genus, subgenus, species and subspecies. Specimens are listed under the taxonomic names with which they have been most recently published, with cross-references between older and current names. Un-named species are grouped at the end of the genus to which they have been assigned. There is only one hyolithan species, so that Phylum is not further subdivided.

There are 1112 specimens, ranging in age from Cambrian to Permian; most are of Ordovician, Early Devonian and Permian age. In general, records included are those received for entry into the database up to 1st January, 1996.

All specimens assigned to the same taxon are ordered numerically by **CPC number**. For each there follows the most significant status, using the categories **referred** (referred to in the text by locality or similar, but not by number), **cited** (the number is quoted), **figured** (either in a text-figure or plate), and the usual **paratype**, **holotype**, etc. (this follows the guidelines in Brunton *et al.*, 1985). Where a species is the type of a new genus or subgenus, those specimens used in the original description of the species are additionally annotated with "**type species**". Under Article 72(b)(v) of the International Rules of Zoological Nomenclature, if only a holotype is specifically designated from amongst the specimens cited when a new species or subspecies is named, the remainder of the specimens automatically become paratypes; they are therefore cited as such herein. No systematic revisions are initiated in this catalogue.

Against each specimen are given the full bibliographic data for each publication in which it has appeared. There follow details of **locality**, **horizon** and **age**. Time and resources have not allowed an extensive search of the non-taxonomic literature to check (and where necessary bring up to date) every locality, but it has proved necessary to do this for some papers because of perceived inconsistencies. Information is generally that published, blending different locality descriptions where appropriate, but has made use of biostratigraphic projects presently in progress. In general, biostratigraphic terminology and correlations follow the usage in the AGSO Phanerozoic Timescales Series (BMR Records 1989/31-40, and subsequent revisions). In particular, the ages of Permian localities have wherever possible been revised following Archbold & Dickinson, 1991. Entries with data repeated from previous entries for the same taxon are given in appropriately abbreviated form.

**Acknowledgments.** I have previously extended my thanks to those who have, over the years, contributed to developing the PALEO database, and I remain grateful to them; the continuing developmental help provided by Sonja Lenz deserves special mention. While most of the data entry has been done by a number of contractors, I have checked all entries, and have been entirely responsible for actual preparation of the catalogue. This is the last catalogue I will produce as an officer of the Australian Geological Survey Organisation.

It is inevitable that not all errors have been detected or citations of CPC specimens (especially only by reference in synonymies to where illustrated) noticed. Users of this catalogue are asked to notify my successor as curator of any such errors or omissions. It would also be appreciated if those aware of systematic changes affecting any of the records herein could provide the details. Specialists who may find reason to cite any CPC specimens, either directly or indirectly, are asked to provide the bibliographic and taxonomic details to the curator, so that they can be added to the database. In this way its usefulness in both systematic and biostratigraphic studies can be kept at a high level.

Phylum **MOLLUSCA**  
Class **Monoplacophora**

***Latouchella* sp. cf. *accordionata* RUNNEGAR & JELL, 1976**

**CPC 28578 to 28587:** Cited specimens -- KRUSE, 1990, pp. 42-43.

**Locality:** NT13 - in undulating hills 15.2 km north of the Daly River road, on the track to "Stapleton" property, Northern Territory, Australia. Approximate grid reference 105.135, REYNOLDS RIVER 1:100,000 sheet 5071.

**Horizon:** Tindall Limestone, Daly River Group, Daly Basin.

**Age:** Ordian, Early Templetonian, Middle Cambrian.

***Scenella reticulata* BILLINGS**

**CPC 13187:** Figured specimen -- ÖPIK, 1975, p. 36, Text-fig. 9, Pl. 6, fig. 8.

**Locality:** About 7 km west of Mt Wright, Mootwingee Range 110 km northeast from Broken Hill, New South Wales, Australia. 13.0°S, 142.33°E. BROKEN HILL 1:250,000 sheet SH54-15.

**Horizon:** Cymbric Vale Formation.

**Age:** Late Atdabanian, Early Cambrian.

***Scenella* sp. indet. ÖPIK, 1975**

**CPC 13186:** Figured specimen (shell fragment) -- ÖPIK, 1975, pp. 36-37, Pl. 6, fig. 7.

**Locality:** About 7 km west of Mt Wright, Mootwingee Range 110 km northeast from Broken Hill, New South Wales, Australia. 13.0°S, 142.33°E. BROKEN HILL 1:250,000 sheet SH54-15.

**Horizon:** Cymbric Vale Formation.

**Age:** Late Atdabanian, Early Cambrian.

**Remarks:** Compared by Öpik with *Scenella antiqua* Kiaer, 1916.

## **Class Rostroconchia**

### ***Apoptopegma dickinsi* POJETA, GILBERT-TOMLINSON & SHERGOLD, 1977**

**CPC 14767, HOLOTYPE**, type species -- POJETA *et al.*, 1977, p. 16, Pl. 10, fig. 9.

**Locality:** GEO305/3 (= 74713100) - 602 m above the base of the Black Mountain Section of Jones, Shergold & Druce, 1971, Mt Unbunmaroo (Black Mountain), western Queensland, Australia. 22.543°S, 140.280°E. BOULIA 1:250,000 sheet SF54-10.

**Horizon:** Ninmaroo Formation, Georgina Basin.

**Age:** Datsonian, Late Cambrian.

**CPC 14768:** Figured Paratype, type species -- POJETA *et al.*, 1977, p. 16, Pl. 10, figs 4-6.

**Locality, horizon and age** as for CPC 14767.

**CPC 14769:** Figured Paratype, type species -- POJETA *et al.*, 1977, p. 16, Pl. 10, fig. 7.

**Locality, horizon and age** as for CPC 14767.

**CPC 14770:** Figured Paratype, type species -- POJETA *et al.*, 1977, p. 16, Pl. 10, fig. 8.

**Locality, horizon and age** as for CPC 14767.

**CPC 14771:** Figured Paratype, type species -- POJETA *et al.*, 1977, p. 16, Pl. 10, fig. 9.

**Locality, horizon and age** as for CPC 14767.

### ***Apoptopegma* sp. A POJETA, GILBERT-TOMLINSON & SHERGOLD, 1977**

**CPC 14772:** Figured specimen -- POJETA *et al.*, 1977, p. 16, Pl. 10, figs 11-13.

**Locality:** GEO303 (= 74713095) - Signal Hill, south bank of Kolar or Ibis Creek, where the road from Ibis Bore to 33 Bore crosses the creek, 66 km south-southwest of Duchess, western Queensland, Australia. 21.946° S, 140.038° E. DUCHESS 1:250,000 sheet SF54-6

**Horizon:** Ninmaroo Formation, Georgina Basin.

**Age:** Datsonian, Late Cambrian.

### ***Bransonia chapronierei* POJETA, GILBERT-TOMLINSON & SHERGOLD, 1977**

**CPC 14879: HOLOTYPE** -- POJETA *et al.*, 1977, p. 29, Pl. 20, figs 1-4.

**Locality:** GEO305/3 (= 74713100) - 602 m above the base of the Black Mountain Section of Jones, Shergold & Druce, 1971, Mt Unbunmaroo (Black Mountain), western Queensland, Australia. 22.543°S, 140.280°E. BOULIA 1:250,000 sheet SF54-10.

**Horizon:** Ninmaroo Formation, Georgina Basin.

**Age:** Datsonian, Late Cambrian.

**CPC 14880:** Figured Paratype -- POJETA *et al.*, 1977, p. 29, Pl. 20, fig. 5.

**Locality, horizon and age** as for CPC 14879.

**CPC 14881:** Figured Paratype -- POJETA *et al.*, 1977, p. 29, Pl. 20, figs 6-7.

**Locality, horizon and age** as for CPC 14879.

### ***Bransonia townleyi* POJETA & GILBERT-TOMLINSON, 1977**

**CPC 15597: HOLOTYPE** -- POJETA & GILBERT-TOMLINSON, 1977, p. 33, Pl. 29, figs 4-7.

**Locality:** Smelter's Quarry, 2.5 km south of Zeehan, western Tasmania, Australia. Grid reference CP 804410, QUEENSTOWN 1:250,000 sheet SK55-5.

**Horizon:** Gordon Group (Benjamin Limestone?)

**Age:** Eastonian?, Late Ordovician.

**'Conocardium' sp. HILL, PLAYFORD & WOODS, 1972**

*This is Conocardium sp. of Hill & Woods, 1964, the addition of quotes by Hill et al., 1972 presumably implying doubt over the generic position.*

**CPC 5184:** Figured specimen (left valve) -- HILL & WOODS, 1964, p. p xii, Pl. P XII, fig. 11. HILL *et al.*, 1972, p. p xii, Pl. PXII, fig. 11.

**Locality:** Du764 - 2 miles (3.2 km) west-northwest of "Bundaleer" homestead, 60.3 km north of Bluff, central Queensland, Australia. DUARINGA 1:250,000 sheet SF55-16.

**Horizon:** Gebbie Subgroup, Back Creek Group, Bowen Basin.

**Age:** Artinskian to Kungurian, Early Permian.

***Cymatopigma semiplicatum* POJETA, GILBERT-TOMLINSON & SHERGOLD, 1977**

**CPC 14717: HOLOTYPE**, type species -- POJETA *et al.*, 1977, p. 17, Pl. 6, figs 1-4.

**Locality:** BC5 - 70 km south of "Murray Downs" homestead, north of Alice Springs, Northern Territory, Australia. 21.686°S, 134.741°E. BARROW CREEK 1:250,000 sheet SF53-6.

**Horizon:** Tomahawk beds, Georgina Basin.

**Age:** Payntonian, Late Cambrian.

**CPC 14718:** Figured Paratype, type species -- POJETA *et al.*, 1977, p. 17, Pl. 6, figs 5-7.

**Locality:** AS198 - scree on the east bank of the Ross River, 7.5 km south of the Ross River Chalet, east of Alice Springs, Northern Territory, Australia. 23.665°S, 134.487°E. ALICE SPRINGS 1:250,000 sheet SF53-14.

**Horizon:** Pacoota Sandstone, Amadeus Basin.

**Age:** Payntonian, Late Cambrian.

**CPC 14719:** Figured Paratype, type species -- POJETA *et al.*, 1977, p. 17, Pl. 6, fig. 9.

**Locality, horizon and age** as for CPC 14718.

**CPC 14720:** Figured Paratype, type species -- POJETA *et al.*, 1977, p. 17, Pl. 6, figs 9-11.

**Locality:** H6 - Grants Bluff section, Ooratha area, 4 km east-northeast of Point Spring, Northern Territory, Australia. 22.614°S, 135.858°E. HUCKITTA 1:250,000 sheet SF53-11.

**Horizon and age** as for CPC 14717.

**CPC 14721:** Figured Paratype, type species -- POJETA *et al.*, 1977, p. 17, Pl. 6, fig. 12.

**Locality, horizon and age** as for CPC 14720.

**CPC 14722:** Figured Paratype, type species -- POJETA *et al.*, 1977, p. 17, Pl. 6, fig. 13.

**Locality:** GEO310/5 (= 74713115) - "Old Huckitta", 0.8 km east of the track at locality H24, Mopunga Range, Northern Territory, Australia. 22.594°S, 135.581°E. HUCKITTA 1:250,000 sheet SF53-11.

**Horizon and age** as for CPC 14717.

**CPC 14723:** Figured Paratype, type species -- POJETA *et al.*, 1977, p. 17, Pl. 6, figs 14-15.

**Locality, horizon and age** as for CPC 14718.

**CPC 14724:** Figured Paratype, type species -- POJETA *et al.*, 1977, p. 17, Pl. 6, figs 16-17.

**Locality, horizon and age** as for CPC 14717.

**CPC 14725:** Figured Paratype, type species -- POJETA *et al.*, 1977, p. 17, Pl. 7, fig. 1.

**Locality, horizon and age** as for CPC 14722.

**CPC 14726:** Figured Paratype, type species -- POJETA *et al.*, 1977, p. 17, Pl. 7, fig. 2.

**Locality, horizon and age** as for CPC 14718.

**CPC 14727:** Figured Paratype, type species -- POJETA *et al.*, 1977, p. 17, Pl. 7, fig. 3.

**Locality:** AS352 - Ross River Syncline, west of sawmill, east of Alice Springs, Northern Territory, Australia. 23.692°S, 134.548°E. ALICE SPRINGS 1:250,000 sheet SF53-14.

**Locality, horizon and age** as for CPC 14718.

**CPC 14728:** Figured Paratype, type species -- POJETA *et al.*, 1977, p. 17, Pl. 7, fig. 4.

**Locality, horizon and age** as for CPC 14717.

**CPC 14729:** Figured Paratype, type species -- POJETA *et al.*, 1977, p. 17, Pl. 7, fig. 5.

**Locality:** AS350 - south limb of the Ross River Syncline, 8.5 km northeast of No. 6 Bore, east of Alice Springs, Northern Territory, Australia. 23.686°S, 134.416°E. ALICE SPRINGS 1:250,000 sheet SF53-14.

**Horizon and age** as for CPC 14718.

**CPC 14730:** Figured Paratype, type species -- POJETA *et al.*, 1977, p. 17, Pl. 7, fig. 6.

**Locality, horizon and age** as for CPC 14718.

**CPC 14731:** Figured Paratype, type species -- POJETA *et al.*, 1977, p. 17, Pl. 7, fig. 7.

**Locality:** Frome Broken Hill locality AW/10 - near the axis of the Ross River Syncline, on the "first prominent spur on the western side of the river", east of Alice Springs, Northern Territory, Australia. ALICE SPRINGS 1:250,000 sheet SF53-14.

**Horizon and age** as for CPC 14718.

**CPC 14732:** Figured Paratype, type species -- POJETA *et al.*, 1977, p. 17, Pl. 7, fig. 8.

**Locality, horizon and age** as for CPC 14717.

**CPC 14733:** Figured Paratype, type species -- POJETA *et al.*, 1977, p. 17, Pl. 7, fig. 9.

**Locality, horizon and age** as for CPC 14718.

**CPC 14734:** Figured Paratype, type species -- POJETA *et al.*, 1977, p. 17, Pl. 7, fig. 10.

**Locality, horizon and age** as for CPC 14718.

### ***Eopteria struszi* POJETA, GILBERT-TOMLINSON & SHERGOLD, 1977**

**CPC 14913:** Figured Paratype -- POJETA *et al.*, 1977, p. 26, Pl. 24, fig. 6.

**Locality:** GEO305/3 (= 74713100) - 602 m above the base of the Black Mountain Section of Jones, Shergold & Druce, 1971, Mt Unbunmaroo (Black Mountain), western Queensland, Australia. 22.543°S, 140.280°E. BOULIA 1:250,000 sheet SF54-10.

**Horizon:** Ninmaroo Formation, Georgina Basin.

**Age:** Datsonian, Late Cambrian.

**CPC 14914:** Figured Paratype -- POJETA *et al.*, 1977, p. 26, Pl. 24, fig. 7.

**Locality, horizon and age** as for CPC 14913.

**CPC 14915:** Figured Paratype -- POJETA *et al.*, 1977, p. 26, Pl. 24, figs 8-9.

**Locality, horizon and age** as for CPC 14913.

**CPC 14916:** Figured Paratype -- POJETA *et al.*, 1977, p. 26, Pl. 24, fig. 10.

**Locality, horizon and age** as for CPC 14913.

**CPC 14917:** Figured Paratype -- POJETA *et al.*, 1977, p. 26, Pl. 24, fig. 11.

**Locality, horizon and age** as for CPC 14913.

**CPC 14918:** Figured Paratype -- POJETA *et al.*, 1977, p. 26, Pl. 24, fig. 12.

**Locality, horizon and age** as for CPC 14913.

**CPC 14919:** Figured Paratype -- POJETA *et al.*, 1977, p. 26, Pl. 24, fig. 13.

**Locality, horizon and age** as for CPC 14913.

**CPC 14920:** Figured Paratype -- POJETA *et al.*, 1977, p. 26, Pl. 25, figs 1-4

**Locality:** GEO303 (= 74713095) - Signal Hill, south bank of Kolar or Ibis Creek, where the road from Ibis Bore to 33 Bore crosses the creek, 66 km south-southwest of Duchess, western Queensland, Australia. 21.946° S, 140.038° E. DUCHESS 1:250,000 sheet SF54-6

**Horizon and age** as for CPC 14913.

- CPC 14921:** Figured Paratype -- POJETA *et al.*, 1977, p. 26, Pl. 25, fig. 5.  
**Locality, horizon and age** as for CPC 14920.
- CPC 14922:** Figured Paratype -- POJETA *et al.*, 1977, p. 26, Pl. 25, fig. 6.  
**Locality, horizon and age** as for CPC 14920.
- CPC 14923:** Figured Paratype -- POJETA *et al.*, 1977, p. 26, Pl. 25, fig. 7.  
**Locality, horizon and age** as for CPC 14920.
- CPC 14924:** Figured Paratype -- POJETA *et al.*, 1977, p. 26, Pl. 25, fig. 8.  
**Locality, horizon and age** as for CPC 14920.
- CPC 14925:** Figured Paratype -- POJETA *et al.*, 1977, p. 26, Pl. 25, figs 9-10..  
**Locality, horizon and age** as for CPC 14920.
- CPC 14926:** Figured Paratype -- POJETA *et al.*, 1977, p. 26, Pl. 25, fig. 11.  
**Locality, horizon and age** as for CPC 14920.
- CPC 14927:** Figured Paratype -- POJETA *et al.*, 1977, p. 26, Pl. 25, fig. 12.  
**Locality, horizon and age** as for CPC 14920.
- CPC 14928:** Figured Paratype -- POJETA *et al.*, 1977, p. 26, Pl. 25, fig. 13.  
**Locality, horizon and age** as for CPC 14920.
- CPC 14929:** Figured Paratype -- POJETA *et al.*, 1977, p. 26, Pl. 25, fig. 14.  
**Locality, horizon and age** as for CPC 14920.
- CPC 14930:** Figured Paratype -- POJETA *et al.*, 1977, p. 26, Pl. 26, fig. 1.  
**Locality, horizon and age** as for CPC 14920.
- CPC 14931:** Figured Paratype -- POJETA *et al.*, 1977, p. 26, Pl. 26, fig. 2.  
**Locality, horizon and age** as for CPC 14920.
- CPC 14932:** Figured Paratype -- POJETA *et al.*, 1977, p. 26, Pl. 26, fig. 3.  
**Locality, horizon and age** as for CPC 14920.
- CPC 14933:** Figured Paratype -- POJETA *et al.*, 1977, p. 26, Pl. 26, fig. 4.  
**Locality, horizon and age** as for CPC 14920.
- CPC 14934:** Figured Paratype -- POJETA *et al.*, 1977, p. 26, Pl. 26, fig. 5.  
**Locality, horizon and age** as for CPC 14920.
- CPC 14935:** Figured Paratype -- POJETA *et al.*, 1977, p. 26, Pl. 26, fig. 6.  
**Locality, horizon and age** as for CPC 14920.
- CPC 14936:** Figured Paratype -- POJETA *et al.*, 1977, p. 26, Pl. 26, fig. 7.  
**Locality, horizon and age** as for CPC 14920.
- CPC 14937:** Figured Paratype -- POJETA *et al.*, 1977, p. 26, Pl. 26, fig. 8.  
**Locality, horizon and age** as for CPC 14920.
- CPC 14938:** Figured Paratype -- POJETA *et al.*, 1977, p. 26, Pl. 26, fig. 9.  
**Locality, horizon and age** as for CPC 14920.
- CPC 14939:** Figured Paratype -- POJETA *et al.*, 1977, p. 26, Pl. 26, fig. 10.  
**Locality, horizon and age** as for CPC 14920.
- CPC 14940: HOLOTYPE** -- POJETA *et al.*, 1977, p. 26, Pl. 26, fig. 11, Pl. 27, figs 1-4.  
**Locality, horizon and age** as for CPC 14920.

**CPC 14941:** Figured Paratype -- POJETA *et al.*, 1977, p. 26, Pl. 27, fig. 5.

**Locality, horizon and age** as for CPC 14920.

**CPC 14942:** Figured Paratype -- POJETA *et al.*, 1977, p. 26, Pl. 27, fig. 6.

**Locality, horizon and age** as for CPC 14920.

**CPC 14943:** Figured Paratype -- POJETA *et al.*, 1977, p. 26, Pl. 27, fig. 7.

**Locality, horizon and age** as for CPC 14920.

**CPC 14944:** Figured Paratype -- POJETA *et al.*, 1977, p. 26, Pl. 27, fig. 8.

**Locality, horizon and age** as for CPC 14920.

**CPC 14945:** Figured Paratype -- POJETA *et al.*, 1977, p. 26, Pl. 27, fig. 9.

**Locality, horizon and age** as for CPC 14920.

**CPC 14946:** Figured Paratype -- POJETA *et al.*, 1977, p. 26, Pl. 27, fig. 10.

**Locality, horizon and age** as for CPC 14920.

**CPC 14947:** Figured Paratype -- POJETA *et al.*, 1977, p. 26, Pl. 27, fig. 11.

**Locality, horizon and age** as for CPC 14920.

### ***Eopteria* sp. A POJETA, GILBERT-TOMLINSON & SHERGOLD, 1977**

**CPC 14894:** Figured specimen -- POJETA *et al.*, 1977, p. 27, Pl. 21, fig. 11.

**Locality:** G317 - prominent ridge east of and parallel to the Toko Range, between Linda and Wheelaman Creeks, Queensland, Australia. 22.804°S, 138.208°E. GLENORMISTON 1:250,000 sheet SF54-9.

**Horizon:** Coolibah Formation, Georgina Basin.

**Age:** Arenigian, Early Ordovician.

### ***Euchasma caseyi* POJETA, GILBERT-TOMLINSON & SHERGOLD, 1977**

**CPC 14882:** Figured Paratype -- POJETA *et al.*, 1977, p. 27, Pl. 20, figs 8-10.

**Locality:** B401 - small ridges north of the track between the "Digby Peaks" turn-off from the Boulia-Selwyn road and "Noranside" homestead, western Queensland, Australia. Approx. 22.1°S, 140.08°E. BOULIA 1:250,000 sheet SF54-10.

**Horizon:** Ninmaroo Formation, Georgina Basin.

**Age:** Warendian, Early Ordovician.

**CPC 14883:** Figured Paratype -- POJETA *et al.*, 1977, p. 27, Pl. 20, fig. 11.

**Locality:** GEO303 (= 74713095) - Signal Hill, south bank of Kolar or Ibis Creek, where the road from Ibis Bore to 33 Bore crosses the creek, 66 km south-southwest of Duchess, western Queensland, Australia. 21.946° S, 140.038° E. DUCHESS 1:250,000 sheet SF54-6

**Horizon:** Ninmaroo Formation, Georgina Basin.

**Age:** Datsonian, Late Cambrian.

**CPC 14884:** Figured Paratype -- POJETA *et al.*, 1977, p. 27, Pl. 20, fig. 12.

**Locality, horizon and age** as for CPC 14882.

**CPC 14885:** Figured Paratype -- POJETA *et al.*, 1977, p. 27, Pl. 20, fig. 13.

**Locality, horizon and age** as for CPC 14883.

**CPC 14886:** Figured Paratype -- POJETA *et al.*, 1977, p. 27, Pl. 20, fig. 14.

**Locality:** B305 - 4½ miles (7.2 km) northwest of Digby Peaks, ¾ mile (1.2 km) northeast of locality B304, on the east side of a ridge, western slope of the Burke River valley near the mouth of the Mort River, western Queensland, Australia. 22.05°S, 140.92°E. BOULIA 1:250,000 sheet SF54-10.

**Horizon and age** as for CPC 14882.

**CPC 14887:** Figured Paratype-- POJETA *et al.*, 1977, p. 27, Pl. 20, fig. 15.

**Locality, horizon and age** as for CPC 14483.

**CPC 14888: HOLOTYPE** -- POJETA *et al.*, 1977, p. 27, Pl. 21, figs 1-5.

**Locality:** B251 - from measured section in hills south of Signal Hill, on the eastern side of the Swift Hills, 2 miles (3.2 km) south of Bore 34, western Queensland, Australia. 22.05°S, 140.05°E. BOULIA 1:250,000 sheet SF54-10.

**Horizon:** Ninmaroo Formation, Georgina Basin.

**Age:** Probably Warendian, Early Ordovician.

**CPC 14889:** Figured Paratype -- POJETA *et al.*, 1977, p. 27, Pl. 21, fig. 6.

**Locality, horizon and age** as for CPC 14483.

**CPC 14890:** Figured Paratype -- POJETA *et al.*, 1977, p. 27, Pl. 21, fig. 7.

**Locality, horizon and age** as for CPC 14483.

**CPC 14891:** Figured Paratype -- POJETA *et al.*, 1977, p. 27, Pl. 21, figs 8-9.

**Locality, horizon and age** as for CPC 14884.

**CPC 14892:** Figured Paratype -- POJETA *et al.*, 1977, p. 27, Pl. 21, fig. 9.

**Locality, horizon and age** as for CPC 14884.

**CPC 14895:** Figured Paratype -- POJETA *et al.*, 1977, p. 27, Pl. 22, fig. 1.

**Locality, horizon and age** as for CPC 14483.

**CPC 14896:** Figured Paratype -- POJETA *et al.*, 1977, p. 27, Pl. 22, figs 2-3.

**Locality, horizon and age** as for CPC 14483.

**CPC 14897:** Figured Paratype -- POJETA *et al.*, 1977, p. 27, Pl. 22, figs 4-5.

**Locality, horizon and age** as for CPC 14483.

**CPC 14898:** Figured Paratype -- POJETA *et al.*, 1977, p. 27, Pl. 22, figs 6-7.

**Locality, horizon and age** as for CPC 14483.

**CPC 14899:** Figured Paratype -- POJETA *et al.*, 1977, p. 27, Pl. 22, fig. 9.

**Locality, horizon and age** as for CPC 14483.

**CPC 14900:** Figured Paratype -- POJETA *et al.*, 1977, p. 27, Pl. 22, fig. 8.

**Locality, horizon and age** as for CPC 14888.

**CPC 14901:** Figured Paratype -- POJETA *et al.*, 1977, p. 27, Pl. 23, fig. 1.

**Locality, horizon and age** as for CPC 14483.

**CPC 14902:** Figured Paratype -- POJETA *et al.*, 1977, p. 27, Pl. 23, fig. 2.

**Locality:** B88 - 2 miles (3.2 km) south-east of "Digby Peaks" homestead, south of Jiggamore Bore, western Queensland, Australia. 22.10°S, 140.18°E. BOULIA 1:250,000 sheet SF54-10.

**Horizon and age** as for CPC 14883.

**CPC 14903:** Figured Paratype -- POJETA *et al.*, 1977, p. 27, Pl. 23, fig. 3.

**Locality, horizon and age** as for CPC 14483.

**CPC 14904:** Figured Paratype -- POJETA *et al.*, 1977, p. 27, Pl. 23, fig. 4.

**Locality, horizon and age** as for CPC 14483.

**CPC 14905:** Figured Paratype -- POJETA *et al.*, 1977, p. 27, Pl. 23, fig. 5.

**Locality, horizon and age** as for CPC 14483.

**CPC 14906:** Figured Paratype -- POJETA *et al.*, 1977, p. 27, Pl. 23, figs 6-7.

**Locality, horizon and age** as for CPC 14483.

- CPC 14907:** Figured Paratype -- POJETA *et al.*, 1977, p. 27, Pl. 23, fig. 8.  
**Locality, horizon and age** as for CPC 14483.
- CPC 14908:** Figured Paratype -- POJETA *et al.*, 1977, p. 27, Pl. 23, figs 9-10.  
**Locality, horizon and age** as for CPC 14483.
- CPC 14909:** Figured Paratype -- POJETA *et al.*, 1977, p. 27, Pl. 24, figs 1-2.  
**Locality, horizon and age** as for CPC 14483.
- CPC 14910:** Figured Paratype -- POJETA *et al.*, 1977, p. 27, Pl. 24, fig. 3.  
**Locality, horizon and age** as for CPC 14483.
- CPC 14911:** Figured Paratype -- POJETA *et al.*, 1977, p. 27, Pl. 24, fig. 4.  
**Locality, horizon and age** as for CPC 14483.
- CPC 14912:** Figured Paratype -- POJETA *et al.*, 1977, p. 27, Pl. 24, fig. 5.  
**Locality, horizon and age** as for CPC 14483.

***Euchasma skwarkoi* POJETA, GILBERT-TOMLINSON & SHERGOLD, 1977**

- CPC 14871:** Figured Paratype -- POJETA *et al.*, 1977, p. 28, Pl. 19, fig. 3.  
**Locality:** T4 - near track, 3.2 km south from Kelly Creek Bore, Toko Range area, Northern Territory, Australia. 22.608°S, 137.944°E. TOBERMORY 1:250,000 sheet SF53-12.  
**Horizon:** Coolibah Formation, Georgina Basin.  
**Age:** Arenig, Early Ordovician.
- CPC 14872:** Figured Paratype -- POJETA *et al.*, 1977, p. 28, Pl. 19, figs 4-5.  
**Locality:** T112 - 5.2 (not 4.8) km northwest of Alcoora Spring, on the north side of the Toko Range 10 km south-southwest of Mistake Bore, Northern Territory, Australia. 22.673°S, 137.826°E. TOBERMORY 1:250,000 sheet SF53-12.  
**Horizon and age** as for CPC 14871.
- CPC 14873: HOLOTYPE** -- POJETA *et al.*, 1977, p. 28, Pl. 19, fig. 6.  
**Locality:** T215 - given as "14 km north of No. 8 Dam (?south of Coolibah Dam)", the coordinates place the locality 3 km southwest of Halfway Dam, 9.8 km northwest of Burnt Well, on the southwestern side of the Toko Range, Northern Territory, Australia, at 22.904°S, 137.794°E. TOBERMORY 1:250,000 sheet SF53-12.  
**Horizon and age** as for CPC 14871.
- CPC 14874:** Figured Paratype -- POJETA *et al.*, 1977, p. 28, Pl. 19, fig. 7.  
**Locality, horizon and age** as for CPC 14873.
- CPC 14875:** Figured Paratype -- POJETA *et al.*, 1977, p. 28, Pl. 19, fig. 8.  
**Locality, horizon and age** as for CPC 14873.
- CPC 14876:** Figured Paratype -- POJETA *et al.*, 1977, p. 28, Pl. 19, fig. 9.  
**Locality:** T368 - 46 km due northeast of "Marqua" homestead, between Warka and Battle Creeks, Northern Territory, Australia. 22.52°S, 137.65°E. TOBERMORY 1:250,000 sheet SF53-12.  
**Horizon and age** as for CPC 14871.
- CPC 14877:** Figured Paratype -- POJETA *et al.*, 1977, p. 28, Pl. 19, fig. 10.  
**Locality, horizon and age** as for CPC 14876.
- CPC 14878:** Figured Paratype -- POJETA *et al.*, 1977, p. 28, Pl. 19, fig. 11.  
**Locality, horizon and age** as for CPC 14876.

***Euchasma* sp. A POJETA, GILBERT-TOMLINSON & SHERGOLD, 1977**

- CPC 14870:** Figured specimen -- POJETA *et al.*, 1977, p. 28, Pl. 19, fig. 2.

**Locality:** G321 - a prominent ridge just east of the Toko Range and just north of Linda Creek, western Queensland, Australia. 22.729°S, 138.107°E. GLENORMISTON 1:250,000 sheet SF54-9.  
**Horizon:** Coolibah Formation, Georgina Basin.  
**Age:** Arenig, Early Ordovician.

***Euchasma?* sp. B POJETA, GILBERT-TOMLINSON & SHERGOLD, 1977**

**CPC 14893:** Figured specimen -- POJETA *et al.*, 1977, p. 28, Pl. 21, fig. 10.

**Locality:** G127 - south of track, about 10 km northeast of McCabe Knob, western Queensland, Australia. 22.290°S, 138.983°E. GLENORMISTON 1:250,000 sheet SF54-9.  
**Horizon:** Mungerebar Limestone, Georgina Basin.  
**Age:** Mindyallan, early Late Cambrian.

***Kimopegma pinnatum* POJETA, GILBERT-TOMLINSON & SHERGOLD, 1977**

**CPC 14842:** Figured Paratype, type species -- POJETA *et al.*, 1977, p. 22, Pl. 16, fig. 1.

**Locality:** BC11 - a now unknown locality on the Barrow Creek sheet, Northern Territory, Australia. BARROW CREEK 1:250,000 sheet SF53-6.  
**Horizon:** Tomahawk beds, Georgina Basin.  
**Age:** Payntonian, Late Cambrian.

**CPC 14843:** Figured Paratype, type species -- POJETA *et al.*, 1977, p. 22, Pl. 16, fig. 2.

**Locality:** AS198 - scree on the east bank of the Ross River, 7.5 km south of the Ross River Chalet, east of Alice Springs, Northern Territory, Australia. 23.665°S, 134.487°E. ALICE SPRINGS 1:250,000 sheet SF53-14.  
**Horizon:** Pacoota Sandstone, Amadeus Basin.  
**Age:** Payntonian, Late Cambrian.

**CPC 14844:** Figured Paratype, type species -- POJETA *et al.*, 1977, p. 22, Pl. 16, figs 3-4.

**Locality:** BC5 - 70 km south of "Murray Downs" homestead, north of Alice Springs, Northern Territory, Australia. 21.686°S, 134.741°E. BARROW CREEK 1:250,000 sheet SF53-6.  
**Horizon and age as for CPC 14842.**

**CPC 14845:** Figured Paratype, type species -- POJETA *et al.*, 1977, p. 22, Pl. 16, fig. 5.

**Locality:** GEO309/1 - given as "Gaphole Creek. Roadside exposures opposite Burnt Well, S of side road, due S of well", Northern Territory, Australia, which is far removed from the position derived from the published coordinates. Probably 22.97°S, 137.87°E. TOBERMORY 1:250,000 sheet SF53-12.  
**Horizon:** An uncertain horizon in the Georgina Basin.  
**Age:** Payntonian, Late Cambrian.

**CPC 14846:** Figured Paratype, type species -- POJETA *et al.*, 1977, p. 22, Pl. 16, figs 6-7.

**Locality, horizon and age as for CPC 14843.**

**CPC 14847:** Figured Paratype, type species -- POJETA *et al.*, 1977, p. 22, Pl. 16, fig. 8.

**Locality, horizon and age as for CPC 14843.**

**CPC 14848: HOLOTYPE**, type species -- POJETA *et al.*, 1977, p. 22, Pl. 16, figs 9-10.

**Locality, horizon and age as for CPC 14844.**

***Oepikila cambrica* (RUNNEGAR & POJETA, 1974)**

*In the original text (pp. 315, 317) this was named **Opikella cambrica**, but in a footnote added at proof stage on p. 316 the generic name was recognised as preoccupied, and **Oepikila** substituted.*

**CPC 13953: HOLOTYPE** -- POJETA *et al.*, 1977, p. 23, Pl. 15, figs 20-21. RUNNEGAR & POJETA, 1974, pp. 314-317, Fig. 3H.

**Locality:** W9 - 11.3 km north-northeast from Twenty Mile Bore on the road south to there from "Glenormiston", 24 km south-southwest of "Glenormiston", western Queensland, Australia. 23.125°S, 138.856°E. MOUNT WHELAN 1:250,000 sheet SF54-13.

**Horizon:** Georgina Limestone, Georgina Basin.

**Age:** Zone of *Erixanum sentum*, Idamean, Late Cambrian.

**CPC 14841:** Figured specimen -- POJETA *et al.*, 1977, p. 23, Pl. 15, fig. 19.

**Locality:** NT 187 - 4.6 m above the bed of the Ross River at a corner, about 3.2 km south of "Loves Creek" homestead, east of Alice Springs, Northern Territory, Australia. 23.62°S, 134.486°E. ALICE SPRINGS 1:250,000 sheet SF53-14.

**Horizon:** Goyder Formation, Amadeus Basin.

**Age:** Mindyallan, early Late Cambrian.

### ***Pauropegma jelli* (POJETA & RUNNEGAR, 1976)**

**CPC 14793:** Figured specimen, type species -- POJETA *et al.*, 1977, p. 23, Pl. 12, fig. 16.

**Locality:** B769D - 518 m above the base of a measured section on the east side of Mount Ninmaroo, near a faulted anticline, western Queensland, Australia. 22.63°S, 140.30°E. BOULIA 1:250,000 sheet SF54-10.

**Horizon:** Ninmaroo Formation, Georgina Basin.

**Age:** Warendian, Early Ordovician.

**CPC 14794:** Figured specimen, type species -- POJETA *et al.*, 1977, p. 23, Pl. 12, fig. 17.

**Locality, horizon and age** as for CPC 14793.

**CPC 14838:** Figured specimen, type species -- POJETA *et al.*, 1977, p. 23, Pl. 15, figs 9-13.

**Locality:** GEO010/21 - Digby Peaks, in a creek which cuts the Ninmaroo and Swift Formations, western Queensland, Australia. 22.08°S, 140.13°E. BOULIA 1:250,000 sheet SF54-10.

**Horizon and age** as for CPC 14793.

**CPC 14839:** Figured specimen, type species -- POJETA *et al.*, 1977, p. 23, Pl. 15, figs 14-16.

**Locality:** B771 - 722 m above the base of a measured section near the top of Mount Ninmaroo, western Queensland, Australia. 22.63°S, 140.30°E. BOULIA 1:250,000 sheet SF54-10.

**Horizon and age** as for CPC 14793.

**CPC 14840:** Figured specimen, type species -- POJETA *et al.*, 1977, p. 23, Pl. 15, figs 17-18.

**Locality, horizon and age** as for CPC 14839.

**CPC 14849:** Figured specimen, type species -- POJETA *et al.*, 1977, p. 23, Pl. 17, fig. 1.

**Locality:** GEO208/1 - southwest of Digby Peaks, western Queensland, Australia. 22.10 °S, 140.14°E. BOULIA 1:250,000 sheet SF54-10.

**Horizon and age** as for CPC 14793.

**CPC 14850:** Figured specimen, type species -- POJETA *et al.*, 1977, p. 23, Pl. 17, fig. 2.

**Locality:** GEO110/10 - about 5 km west-southwest of "Datchet Downs", western Queensland, Australia. 22.28°S, 140.25°E. BOULIA 1:250,000 sheet SF54-10.

**Horizon and age** as for CPC 14793.

**CPC 14851:** Figured specimen, type species -- POJETA *et al.*, 1977, p. 23, Pl. 17, figs 3-5.

**Locality, horizon and age** as for CPC 14850.

**CPC 14852:** Figured specimen, type species -- POJETA *et al.*, 1977, p. 23, Pl. 17, figs 6-8.

**Locality:** Frome Broken Hill 41653 (= T110) - gullies in limestone rises 3 km (not 4) northwest of Burnt Well, Northern Territory, Australia. 22.946°S, 137.838°E. TOBERMORY 1:250,000 sheet SF53-12.

**Horizon and age** as for CPC 14793.

**CPC 14853:** Figured specimen, type species -- POJETA *et al.*, 1977, p. 23, Pl. 17, fig. 9.

**Locality, horizon and age** as for CPC 14850.

**CPC 14854:** Figured specimen, type species -- POJETA *et al.*, 1977, p. 23, Pl. 17, figs 10-12.

**Locality, horizon and age** as for CPC 14852.

- CPC 14855:** Figured specimen, type species -- POJETA *et al.*, 1977, p. 23, Pl. 17, fig. 13.  
**Locality, horizon and age** as for CPC 14852.
- CPC 14856:** Figured specimen, type species -- POJETA *et al.*, 1977, p. 23, Pl. 17, fig. 14.  
**Locality, horizon and age** as for CPC 14852.
- CPC 14857:** Figured specimen, type species -- POJETA *et al.*, 1977, p. 23, Pl. 17, fig. 15.  
**Locality, horizon and age** as for CPC 14852.
- CPC 14858:** Figured specimen, type species -- POJETA *et al.*, 1977, p. 23, Pl. 17, fig. 16.  
**Locality, horizon and age** as for CPC 14852.
- CPC 14859:** Figured specimen, type species -- POJETA *et al.*, 1977, p. 23, Pl. 18, fig. 1.  
**Locality:** GEO305/8 (= 74713105) - 887 m above the base of the Black Mountain Section of Jones, Shergold & Druce, 1971, Mt Unbunmaroo (Black Mountain), western Queensland, Australia. 22.543°S, 140.280°E. BOULIA 1:250,000 sheet SF54-10.  
**Horizon and age** as for CPC 14793.
- CPC 14860:** Figured specimen, type species -- POJETA *et al.*, 1977, p. 23, Pl. 18, fig. 3.  
**Locality:** T110 - gullies in limestone rises 3 km (not 4) northwest of Burnt Well, Northern Territory, Australia. 22.946°S, 137.838°E. TOBERMORY 1:250,000 sheet SF53-12.  
**Horizon and age** as for CPC 14793.
- CPC 14861:** Figured specimen, type species -- POJETA *et al.*, 1977, p. 23, Pl. 18, fig. 6.  
**Locality, horizon and age** as for CPC 14860.
- CPC 14862:** Figured specimen, type species -- POJETA *et al.*, 1977, p. 23, Pl. 18, fig. 7.  
**Locality, horizon and age** as for CPC 14860.
- CPC 14863:** Figured specimen, type species -- POJETA *et al.*, 1977, p. 23, Pl. 18, fig. 8.  
**Locality, horizon and age** as for CPC 14860.
- CPC 14864:** Figured specimen, type species -- POJETA *et al.*, 1977, p. 23, Pl. 18, fig. 9.  
**Locality, horizon and age** as for CPC 14860.
- CPC 14865:** Figured specimen, type species -- POJETA *et al.*, 1977, p. 23, Pl. 18, fig. 10.  
**Locality, horizon and age** as for CPC 14860.
- CPC 14866:** Figured specimen, type species -- POJETA *et al.*, 1977, p. 23, Pl. 18, figs 13-14.  
**Locality, horizon and age** as for CPC 14860.
- CPC 14867:** Figured specimen, type species -- POJETA *et al.*, 1977, p. 23, Pl. 18, fig. 15.  
**Locality, horizon and age** as for CPC 14860.
- CPC 14868:** Figured specimen, type species -- POJETA *et al.*, 1977, p. 23, Pl. 18, fig. 16.  
**Locality, horizon and age** as for CPC 14860.
- CPC 14869:** Figured specimen, type species -- POJETA *et al.*, 1977, p. 23, Pl. 19, fig. 1.  
**Locality, horizon and age** as for CPC 14860.

### ***Pinnocaris robusta* POJETA, GILBERT-TOMLINSON & SHERGOLD, 1977**

- CPC 14735:** Figured Paratype -- POJETA *et al.*, 1977, p. 18, Pl. 8, figs 1-2.  
**Locality:** NT323 - 3.2 km E of Native Pine Gap, southwest of Alice Springs, Northern Territory, Australia. 23.81°S, 133.77°E. ALICE SPRINGS 1:250,000 sheet SF53-14.  
**Horizon:** Pacoota Sandstone, Amadeus Basin.  
**Age:** Payntonian, Late Cambrian.

**CPC 14736:** Figured Paratype -- POJETA *et al.*, 1977, p. 18, Pl. 8, figs 3-4.

**Locality, horizon and age** as for CPC 14735.

**CPC 14737:** Figured Paratype -- POJETA *et al.*, 1977, p. 18, Pl. 8, fig. 5.

**Locality, horizon and age** as for CPC 14735.

**CPC 14738:** Figured Paratype -- POJETA *et al.*, 1977, p. 18, Pl. 8, fig. 6.

**Locality:** AS198 - scree on the east bank of the Ross River, 7.5 km south of the Ross River Chalet, east of Alice Springs, Northern Territory, Australia. 23.665°S, 134.487°E. ALICE SPRINGS 1:250,000 sheet SF53-14.

**Horizon and age** as for CPC 14735.

**CPC 14739: HOLOTYPE** -- POJETA *et al.*, 1977, p. 18, Pl. 8, figs 7-8.

**Locality, horizon and age** as for CPC 14735.

**CPC 14740:** Figured Paratype -- POJETA *et al.*, 1977, p. 18, Pl. 8, fig. 9.

**Locality, horizon and age** as for CPC 14735.

**CPC 14741:** Figured Paratype -- POJETA *et al.*, 1977, p. 18, Pl. 8, fig. 10.

**Locality:** AS350 - 8.5 km west-southwest of AS198, east of Alice Springs, Northern Territory, Australia. 23.686°S, 134.416°E. ALICE SPRINGS 1:250,000 sheet SF53-14.

**Horizon and age** as for CPC 14735.

### ***Pinnocaris wellsi* POJETA, GILBERT-TOMLINSON & SHERGOLD, 1977**

**CPC 14744:** Figured Paratype -- POJETA *et al.*, 1977, p. 17, Pl. 8, fig. 13.

**Locality:** AS198 - scree on the east bank of the Ross River, 7.5 km south of the Ross River Chalet, east of Alice Springs, Northern Territory, Australia. 23.665°S, 134.487°E. ALICE SPRINGS 1:250,000 sheet SF53-14.

**Horizon:** Pacoota Sandstone, Amadeus Basin.

**Age:** Payntonian, Late Cambrian.

**CPC 14745:** Figured Paratype -- POJETA *et al.*, 1977, p. 17, Pl. 8, fig. 14.

**Locality, horizon and age** as for CPC 14744.

**CPC 14746:** Figured Paratype -- POJETA *et al.*, 1977, p. 17, Pl. 8, fig. 15.

**Locality, horizon and age** as for CPC 14744.

**CPC 14747:** Figured Paratype -- POJETA *et al.*, 1977, p. 17, Pl. 8, fig. 16.

**Locality, horizon and age** as for CPC 14744.

**CPC 14748:** Figured Paratype -- POJETA *et al.*, 1977, p. 17, Pl. 8, fig. 17.

**Locality, horizon and age** as for CPC 14744.

**CPC 14749:** Figured Paratype -- POJETA *et al.*, 1977, p. 17, Pl. 8, fig. 18.

**Locality, horizon and age** as for CPC 14744.

**CPC 14750:** Figured Paratype -- POJETA *et al.*, 1977, p. 17, Pl. 8, fig. 19.

**Locality, horizon and age** as for CPC 14744.

**CPC 14751: HOLOTYPE** -- POJETA *et al.*, 1977, p. 17, Pl. 8, figs 20-21.

**Locality, horizon and age** as for CPC 14744.

**CPC 14752:** Figured Paratype -- POJETA *et al.*, 1977, p. 17, Pl. 9, fig. 1.

**Locality, horizon and age** as for CPC 14744.

**CPC 14753:** Figured Paratype -- POJETA *et al.*, 1977, p. 17, Pl. 9, fig. 2.

**Locality, horizon and age** as for CPC 14744.

**CPC 14754:** Figured Paratype -- POJETA *et al.*, 1977, p. 17, Pl. 9, fig. 3.

**Locality, horizon and age** as for CPC 14744.

**CPC 14755:** Figured Paratype -- POJETA *et al.*, 1977, p. 17, Pl. 9, fig. 4.

**Locality, horizon and age** as for CPC 14744.

**CPC 14756:** Figured Paratype -- POJETA *et al.*, 1977, p. 17, Pl. 9, fig. 5.

**Locality, horizon and age** as for CPC 14744.

**CPC 14757:** Figured Paratype -- POJETA *et al.*, 1977, p. 17, Pl. 9, fig. 6.

**Locality, horizon and age** as for CPC 14744.

**CPC 14758:** Figured Paratype -- POJETA *et al.*, 1977, p. 17, Pl. 9, fig. 7.

**Locality, horizon and age** as for CPC 14744.

**CPC 14759:** Figured Paratype -- POJETA *et al.*, 1977, p. 17, Pl. 9, fig. 8.

**Locality, horizon and age** as for CPC 14744.

**CPC 14760:** Figured Paratype -- POJETA *et al.*, 1977, p. 17, Pl. 9, fig. 9.

**Locality, horizon and age** as for CPC 14744.

### ***Pinnocaris* sp. A POJETA, GILBERT-TOMLINSON & SHERGOLD, 1977**

**CPC 14742:** Figured specimen -- POJETA *et al.*, 1977, p. 18, Pl. 8, fig. 11.

**Locality:** Hy 702 - about 19 km east-northeast of "Angas Downs" homestead, southwest of Alice Springs, Northern Territory, Australia. 24.979°S, 132.400°E. HENBURY 1:250,000 sheet SG53-1.

**Horizon:** Stairway Sandstone, Amadeus Basin.

**Age:** Darriwilian, Middle Ordovician.

### ***Pinnocaris?* sp. B POJETA, GILBERT-TOMLINSON & SHERGOLD, 1977**

**CPC 14743:** Figured specimen -- POJETA *et al.*, 1977, p. 18, Pl. 8, fig. 12.

**Locality:** GEO310/5 (= 74713115) - "Old Huckitta", 0.8 km east of the track at locality H24, Mopunga Range, Northern Territory, Australia. 22.594°S, 135.581°E. HUCKITTA 1:250,000 sheet SF53-11.

**Horizon:** Tomahawk beds, Georgina Basin.

**Age:** Payntonian, Late Cambrian.

### ***Pinnocaris?* sp. C POJETA & GILBERT-TOMLINSON, 1977**

**CPC 15598:** Figured specimen (right valve) -- POJETA & GILBERT-TOMLINSON, 1977, pp. 31-32, Pl. 29, fig. 12.

**Locality:** NT237C - near Pine Gap, "east of road, 12 km southwest of Alice Springs on the Owen Springs road", Northern Territory, Australia. 23.81°S, 133.74°E. ALICE SPRINGS 1:250,000 sheet SF53-14.

**Horizon:** Pacoota Sandstone, Amadeus Basin.

**Age:** Lancefieldian, Early Ordovician.

### ***Pleuropegma plicatum* POJETA, GILBERT-TOMLINSON & SHERGOLD, 1977**

**CPC 14832:** HOLOTYPE, type species -- POJETA *et al.*, 1977, p. 25, Pl. 15, fig. 1.

**Locality:** NT 187 - 4.6 m above the bed of the Ross River at a corner, about 3.2 km south of "Loves Creek" homestead, east of Alice Springs, Northern Territory, Australia. 23.62°S, 134.486°E. ALICE SPRINGS 1:250,000 sheet SF53-14.

**Horizon:** Goyder Formation, Amadeus Basin.

**Age:** Mindyallan, early Late Cambrian.

**CPC 14833:** Figured Paratype, type species -- POJETA *et al.*, 1977, p. 25, Pl. 15, figs 2-3.

**Locality, horizon and age** as for CPC 14832.

**CPC 14834:** Figured Paratype, type species -- POJETA *et al.*, 1977, p. 25, Pl. 15, fig. 4.

**Locality, horizon and age** as for CPC 14832

**CPC 14835:** Figured Paratype, type species -- POJETA *et al.*, 1977, p. 25, Pl. 15, figs 5-7.

**Locality, horizon and age** as for CPC 14832

**CPC 14836:** Figured Paratype, type species -- POJETA *et al.*, 1977, p. 25, Pl. 15, fig. 6.

**Locality, horizon and age** as for CPC 14832

**CPC 14837:** Figured Paratype, type species -- POJETA *et al.*, 1977, p. 25, Pl. 15, fig. 8.

**Locality, horizon and age** as for CPC 14832

### ***Ptychopegma burgeri* POJETA, GILBERT-TOMLINSON & SHERGOLD, 1977**

**CPC 14761: HOLOTYPE**, type species -- POJETA *et al.*, 1977, p. 19, Pl. 9, figs 10-16.

**Locality:** B230 - measured section in low rises on the western side of the Swift Hills, about 1.6 km east of Middle Creek and 2.4 km north of the fence, western Queensland, Australia. 22.067°S, 140.008°E. BOULIA 1:250,000 sheet SF54-10.

**Horizon:** Ninmaroo Formation, Georgina Basin.

**Age:** Datsonian, Late Cambrian.

**CPC 14762:** Figured Paratype, type species -- POJETA *et al.*, 1977, p. 19, Pl. 9, fig. 17.

**Locality, horizon and age** as for CPC 14761.

**CPC 14763:** Figured Paratype, type species -- POJETA *et al.*, 1977, p. 19, Pl. 9, fig. 18.

**Locality:** B695 - Mt Unbunmaroo (Black Mountain), about 3.2 km due west of the Trigonometrical Station, western Queensland, Australia. 140.267°E, 22.542°S. BOULIA 1:250,000 sheet SF54-10.

**Horizon:** Ninmaroo Formation, Georgina Basin.

**Age:** Warendian, Early Ordovician.

**CPC 14764:** Figured Paratype, type species -- POJETA *et al.*, 1977, p. 19, Pl. 9, fig. 19.

**Locality:** GEO305/5 (= 74713102) - 731 m above the base of the Black Mountain Section of Jones, Shergold & Druce, 1971, Mt Unbunmaroo (Black Mountain), western Queensland, Australia. 22.543°S, 140.280°E. BOULIA 1:250,000 sheet SF54-10.

**Horizon and age** as for CPC 14763.

**CPC 14765:** Figured Paratype, type species -- POJETA *et al.*, 1977, p. 19, Pl. 9, fig. 20.

**Locality, horizon and age** as for CPC 14763.

**CPC 14766:** Figured Paratype, type species -- POJETA *et al.*, 1977, p. 19, Pl. 9, fig. 21.

**Locality, horizon and age** as for CPC 14763.

### ***Ribeiria australiensis* POJETA & RUNNEGAR, 1976**

**CPC 14670: HOLOTYPE** -- POJETA & RUNNEGAR, 1976, p. 50, Pl. 4, figs 26-29. POJETA *et al.*, 1977, p. 13, Pl. 1, figs 3-7.

**Locality:** G128 - 0.8 km southwest of Chummy Bore, west of Smoky Creek about 12 km east-northeast of McCabe Knob, western Queensland, Australia. 22.279°S, 139.022°E. GLENORMISTON 1:250,000 sheet SF54-9.

**Horizon:** Mungerebar Limestone, Georgina Basin.

**Age:** Mindyallan, Late Cambrian.

**CPC 14671:** Figured Paratype -- POJETA *et al.*, 1977, p. 13, Pl. 1, figs 17-18.

**Locality, horizon and age** as for CPC 14670.

**CPC 14672:** Figured Paratype -- POJETA *et al.*, 1977, p. 13, Pl. 1, figs 1-2.

**Locality, horizon and age** as for CPC 14670.

**CPC 14673:** Figured Paratype -- POJETA *et al.*, 1977, p. 13, Pl. 1, figs 8-11.

**Locality, horizon and age** as for CPC 14670.

**CPC 14674:** Figured Paratype -- POJETA *et al.*, 1977, p. 13, Pl. 1, figs 12-13.

**Locality, horizon and age** as for CPC 14670.

**CPC 14675:** Figured Paratype -- POJETA *et al.*, 1977, p. 13, Pl. 1, fig. 14.

**Locality, horizon and age** as for CPC 14670.

**CPC 14676:** Figured Paratype -- POJETA *et al.*, 1977, p. 13, Pl. 1, fig. 15.

**Locality, horizon and age** as for CPC 14670.

**CPC 14677:** Figured Paratype -- POJETA *et al.*, 1977, p. 13, Pl. 1, fig. 16.

**Locality, horizon and age** as for CPC 14670.

**CPC 14678:** Figured Paratype -- POJETA *et al.*, 1977, p. 13, Pl. 1, fig. 19.

**Locality, horizon and age** as for CPC 14670.

**CPC 14679:** Figured Paratype -- POJETA *et al.*, 1977, p. 13, Pl. 1, fig. 20.

**Locality, horizon and age** as for CPC 14670.

### ***Ribeiria csiro* POJETA, GILBERT-TOMLINSON & SHERGOLD, 1977**

**CPC 14715: HOLOTYPE** -- POJETA *et al.*, 1977, p. 13, Pl. 3, fig. 3.

**Locality:** CSIRO 303 - flat-topped hill 400 m north of the road from "Maryvale" homestead to "Idracowra" homestead, 40 km southwest of "Maryvale", Northern Territory, Australia. RODINGA 1:250,000 sheet SG53-2.

**Horizon:** Stairway Sandstone, Amadeus Basin.

**Age:** Early Darriwilian, Middle Ordovician.

**CPC 14716:** Figured Paratype -- POJETA *et al.*, 1977, p. 13, Pl. 3, fig. 4.

**Locality, horizon and age** as for CPC 14715.

**CPC 15601:** Figured specimen (internal mould of left valve) -- POJETA & GILBERT-TOMLINSON, 1977, p. 31, Pl. 29, fig. 17.

**Locality:** Hy13F - 800 m southeast of a point 3.5 km northeast of Mount Levi, Northern Territory, Australia. 24.4297°S, 132.1636°E. Grid reference 2124.2952, HENBURY 1:250,000 sheet SG53-1.

**Horizon:** Stairway Sandstone, Amadeus Basin.

**Age:** Darriwilian, Middle Ordovician.

### ***Ribeiria huckitta* POJETA, GILBERT-TOMLINSON & SHERGOLD, 1977**

**CPC 14701:** Figured Paratype -- POJETA *et al.*, 1977, p. 14, Pl. 3, fig. 1.

**Locality:** H188 - hills about 2.3 km west-northwest of the end of the fence, northeast of "Lucy Creek" homestead, Northern Territory, Australia. 22.010°S, 136.260°E. HUCKITTA 1:250,000 sheet SF53-11.

**Horizon:** Tomahawk beds, Georgina Basin.

**Age:** Payntonian?, Late Cambrian.

**CPC 14702:** Figured Paratype -- POJETA *et al.*, 1977, p. 14, Pl. 3, fig. 2.

**Locality, horizon and age** as for CPC 14701.

**CPC 14703:** Figured Paratype -- POJETA *et al.*, 1977, p. 14, Pl. 3, fig. 7.

**Locality, horizon and age** as for CPC 14701.

**CPC 14704:** Figured Paratype -- POJETA *et al.*, 1977, p. 14, Pl. 3, fig. 5.

**Locality:** BC6 - low hills about 35 km northeast of the Dulcie Range, Northern Territory, Australia. 21.664°S, 134.742°E. BARROW CREEK 1:250,000 sheet SF53-6.

**Horizon:** Tomahawk beds, Georgina Basin.

**Age:** Payntonian, Late Cambrian.

**CPC 14705:** Figured Paratype -- POJETA *et al.*, 1977, p. 14, Pl. 4, fig. 5.

**Locality, horizon and age** as for CPC 14704.

**CPC 14706:** Figured Paratype -- POJETA *et al.*, 1977, p. 14, Pl. 3, fig. 6.

**Locality:** H60 - near the top of the ridge about 8 km north-northwest of Oorabba Rockholes and 12.5 km east-southeast of "Huckitta" homestead, Northern Territory, Australia. 22.647°S, 135.686°E. HUCKITTA 1:250,000 sheet SF53-11.

**Horizon and age** as for CPC 14704.

**CPC 14710:** Figured Paratype -- POJETA *et al.*, 1977, p. 14, Pl. 4, fig. 3.

**Locality:** H112 - low hills just east of creek, about 8 km west-northwest of the end of the "Lucy Creek" boundary fence, Northern Territory, Australia. 22.014°S, 136.020°E. HUCKITTA 1:250,000 sheet SF53-11.

**Horizon and age** as for CPC 14704.

**CPC 14712:** Figured Paratype -- POJETA *et al.*, 1977, p. 14, Pl. 4, fig. 10.

**Locality, horizon and age** as for CPC 14704.

**CPC 14713: HOLOTYPE** -- POJETA *et al.*, 1977, p. 14, Pl. 4, fig. 11.

**Locality, horizon and age** as for CPC 14704.

**CPC 14714:** Figured Paratype -- POJETA *et al.*, 1977, p. 14, Pl. 4, fig. 12.

**Locality:** H24 (= GEO310/4 = 74713114) - on the east side of a southward track, opposite the mouths of two close parallel gullies coming from the northwest, 2.4 km southwest of "Huckitta" homestead, Northern Territory, Australia. 22.594°S, 135.572°E. HUCKITTA 1:250,000 sheet SF53-11.

**Horizon and age** as for CPC 14704.

### ***Ribeiria* sp. aff. *huckitta* POJETA, GILBERT-TOMLINSON & SHERGOLD, 1977**

**CPC 14707:** Figured specimen -- POJETA *et al.*, 1977, p. 14, Pl. 3, fig. 8.

**Locality:** H163 - an unknown locality in the Huckitta region, Northern Territory, Australia. HUCKITTA 1:250,000 sheet SF53-11.

**Horizon:** Tomahawk beds, Georgina Basin.

**Age:** Payntonian, Late Cambrian.

**CPC 14708:** Figured specimen -- POJETA *et al.*, 1977, p. 14, Pl. 4, fig. 4.

**Locality, horizon and age** as for CPC 14707.

### ***Ribeiria jonesi* POJETA, GILBERT-TOMLINSON & SHERGOLD, 1977**

**CPC 14709:** Figured Paratype -- POJETA *et al.*, 1977, p. 15, Pl. 4, figs 1-2.

**Locality:** AS352 - Ross River Syncline, west of sawmill, east of Alice Springs, Northern Territory, Australia. 23.692°S, 134.548°E. ALICE SPRINGS 1:250,000 sheet SF53-14.

**Horizon:** Pacoota Sandstone, Amadeus Basin.

**Age:** Payntonian, Late Cambrian.

**CPC 14711:** Figured Paratype -- POJETA *et al.*, 1977, p. 15, Pl. 4, figs 6-9.

**Locality:** AS198 - scree on the east bank of the Ross River, 7.5 km south of the Ross River Chalet, east of Alice Springs, Northern Territory, Australia. 23.665°S, 134.487°E. ALICE SPRINGS 1:250,000 sheet SF53-14.

**Horizon and age** as for CPC 14709.

**CPC 14782:** Figured Paratype -- POJETA *et al.*, 1977, p. 15, Pl. 11, fig. 8.

**Locality, horizon and age** as for CPC 14711.

**CPC 14783:** Figured Paratype -- POJETA *et al.*, 1977, p. 15, Pl. 11, fig. 9.

**Locality:** NT327 - measured section 3.2 km east of Native Pine Gap, southwest of Alice Springs, Northern Territory,

Australia. 23.81°S, 133.77°E. ALICE SPRINGS 1:250,000 sheet SF53-14.  
**Horizon and age as for CPC 14709.**

- CPC 14784:** Figured Paratype -- POJETA *et al.*, 1977, p. 15, Pl. 11, fig. 10.  
**Locality:** NT251 - in gorge through strike ridges, Ellery Creek, about 40 km northeast of Hermannsburg Mission, Northern Territory, Australia. HERMANNsburg 1:250,000 sheet SF53-13.  
**Horizon:** 427 m above the base of the Pacoota Sandstone, Amadeus Basin.  
**Age:** Payntonian, Late Cambrian.
- CPC 14785:** Figured Paratype -- POJETA *et al.*, 1977, p. 15, Pl. 11, fig. 11.  
**Locality, horizon and age as for CPC 14784.**
- CPC 14786:** Figured Paratype -- POJETA *et al.*, 1977, p. 15, Pl. 11, figs 12-13.  
**Locality, horizon and age as for CPC 14711.**
- CPC 14787: HOLOTYPE** -- POJETA *et al.*, 1977, p. 15, Pl. 11, fig. 14.  
**Locality, horizon and age as for CPC 14784.**
- CPC 14788:** Figured Paratype -- POJETA *et al.*, 1977, p. 15, Pl. 11, fig. 15.  
**Locality, horizon and age as for CPC 14784.**

***Ribeiria runnegari* POJETA, GILBERT-TOMLINSON & SHERGOLD, 1977**

- CPC 14680:** Figured Paratype -- POJETA *et al.*, 1977, p. 15, Pl. 2, fig. 8.  
**Locality:** GEO311/5 - measured section in the gorge at locality H186, on the northeastern side of the Dulcie Range about 9 km south of Tomahawk Yard and 6 km (not 8, as published) northwest of Picton Spring, Northern Territory, Australia. 22.510°S, 135.797°E. HUCKITTA 1:250,000 sheet SF53-11.  
**Horizon:** Tomahawk beds, Georgina Basin.  
**Age:** Datsonian?, Late Cambrian (published as Early Ordovician).
- CPC 14681:** Figured Paratype -- POJETA *et al.*, 1977, p. 15, Pl. 2, fig. 10.  
**Locality, horizon and age as for CPC 14680.**
- CPC 14682:** Figured Paratype -- POJETA *et al.*, 1977, p. 15, Pl. 2, fig. 11.  
**Locality, horizon and age as for CPC 14680.**
- CPC 14683: HOLOTYPE** -- POJETA *et al.*, 1977, p. 15, Pl. 2, figs 2, 13.  
**Locality, horizon and age as for CPC 14680.**
- CPC 14684:** Figured Paratype -- POJETA *et al.*, 1977, p. 15, Pl. 2, fig. 3.  
**Locality, horizon and age as for CPC 14680.**
- CPC 14686:** Figured Paratype -- POJETA *et al.*, 1977, p. 15, Pl. 2, fig. 4.  
**Locality, horizon and age as for CPC 14680.**
- CPC 14687:** Figured Paratype -- POJETA *et al.*, 1977, p. 15, Pl. 2, fig. 5.  
**Locality, horizon and age as for CPC 14680.**
- CPC 14688:** Figured Paratype -- POJETA *et al.*, 1977, p. 15, Pl. 2, fig. 1.  
**Locality, horizon and age as for CPC 14680.**
- CPC 14689:** Figured Paratype -- POJETA *et al.*, 1977, p. 15, Pl. 2, figs 6-7  
**Locality, horizon and age as for CPC 14680.**
- CPC 14690:** Figured Paratype -- POJETA *et al.*, 1977, p. 15, Pl. 2, fig. 9.  
**Locality, horizon and age as for CPC 14680.**
- CPC 14691:** Figured Paratype -- POJETA *et al.*, 1977, p. 15, Pl. 2, fig. 12.  
**Locality, horizon and age as for CPC 14680.**

***Ribeiria* sp. A POJETA, GILBERT-TOMLINSON & SHERGOLD, 1977**

**CPC 14795:** Figured specimen -- POJETA *et al.*, 1977, p. 15, Pl. 12, fig. 18.

**Locality:** B769D - 518 m above the base of a measured section near a faulted anticline on the east side of Mount Ninmaroo, western Queensland, Australia. 22.63°S, 140.30°E. BOULIA 1:250,000 sheet SF54-10.

**Horizon:** Ninmaroo Formation, Georgina Basin.

**Age:** Warendian, Early Ordovician.

***Technophorus kempae* POJETA, TOMLINSON & SHERGOLD, 1977**

**CPC 14796: HOLOTYPE** -- POJETA *et al.*, 1977, p. 20, Pl. 13, figs 1-4.

**Locality:** GEO311/5 - measured section in the gorge at locality H186, on the northeast side of the Dulcie Range about 9 km south of Tomahawk Yard and 6 km (not 8, as published) northwest of Picton Spring, Northern Territory, Australia. 22.510°S, 135.797°E. HUCKITTA 1:250,000 sheet SF53-11.

**Horizon:** Tomahawk beds, Georgina Basin.

**Age:** Datsonian?, Late Cambrian (published as Early Ordovician).

**CPC 14797:** Figured Paratype -- POJETA *et al.*, 1977, p. 20, Pl. 13, figs 5-8.

**Locality, horizon and age** as for CPC 14796.

**CPC 14798:** Figured Paratype -- POJETA *et al.*, 1977, p. 20, Pl. 13, fig. 9.

**Locality, horizon and age** as for CPC 14796.

**CPC 14799:** Figured Paratype -- POJETA *et al.*, 1977, p. 20, Pl. 13, fig. 10.

**Locality, horizon and age** as for CPC 14796.

**CPC 14800:** Figured Paratype -- POJETA *et al.*, 1977, p. 20, Pl. 13, fig. 11.

**Locality, horizon and age** as for CPC 14796.

**CPC 14801:** Figured Paratype -- POJETA *et al.*, 1977, p. 20, Pl. 13, fig. 12.

**Locality:** NT84 - uncertain, but probably about 26 km northwest of "Utopia" homestead, Northern Territory, Australia. ALCOOTA 1:250,000 sheet SF53-10.

**Horizon and age** as for CPC 14796.

**CPC 14802:** Figured Paratype -- POJETA *et al.*, 1977, p. 20, Pl. 13, fig. 13.

**Locality, horizon and age** as for CPC 14796.

**CPC 14803:** Figured Paratype -- POJETA *et al.*, 1977, p. 20, Pl. 13, fig. 13.

**Locality, horizon and age** as for CPC 14801.

**CPC 14804:** Figured Paratype -- POJETA *et al.*, 1977, p. 20, Pl. 13, fig. 15.

**Locality:** H129 - rounded hills 7.5 km (not 10.5 km) south of Tomahawk Yard, Northern Territory, Australia. 22.510°S, 135.808°E. HUCKITTA 1:250,000 sheet SF53-11.

**Horizon and age** as for CPC 14796.

**CPC 14805:** Figured Paratype -- POJETA *et al.*, 1977, p. 20, Pl. 13, fig. 16.

**Locality:** H128 - rounded hills 7.5 km (not 10.5 km) south of Tomahawk Yard, Northern Territory, Australia. 22.500°S, 135.812°E. HUCKITTA 1:250,000 sheet SF53-11.

**Horizon and age** as for CPC 14796.

**CPC 14806:** Figured Paratype -- POJETA *et al.*, 1977, p. 20, Pl. 13, fig. 17.

**Locality, horizon and age** as for CPC 14805.

***Technophorus nicolli* POJETA, GILBERT-TOMLINSON & SHERGOLD, 1977**

**CPC 14776:** Figured Paratype -- POJETA *et al.*, 1977, p. 21, Pl. 10, fig. 17.

**Locality:** AS260 - west slope of an unnamed gorge east of N'Dahla Gorge, west of the Ross River, east of Alice Springs, Northern Territory, Australia. 23.62°S, 134.48°E. ALICE SPRINGS 1:250,000 sheet SF53-14.

**Horizon:** Pacoota Sandstone, Amadeus Basin.  
**Age:** Arenig, Ordovician.

**CPC 14777:** Figured Paratype -- POJETA *et al.*, 1977, p. 21, Pl. 10, fig. 18.  
**Locality, horizon and age** as for CPC 14776.

**CPC 14778:** Figured Paratype -- POJETA *et al.*, 1977, p. 21, Pl. 10, fig. 19.  
**Locality, horizon and age** as for CPC 14776.

**CPC 14779:** Figured Paratype -- POJETA *et al.*, 1977, p. 21, Pl. 11, fig. 1.  
**Locality, horizon and age** as for CPC 14776.

**CPC 14780:** Figured Paratype -- POJETA *et al.*, 1977, p. 21, Pl. 11, figs 2-4.  
**Locality, horizon and age** as for CPC 14776.

**CPC 14781: HOLOTYPE** -- POJETA *et al.*, 1977, p. 21, Pl. 11, figs 5-7.  
**Locality, horizon and age** as for CPC 14776.

### ***Technophorus planei* POJETA, GILBERT-TOMLINSON & SHERGOLD, 1977**

**CPC 14789: HOLOTYPE** -- POJETA *et al.*, 1977, p. 21, Pl. 12, figs 1-5.  
**Locality:** GEO110/10 - about 5 km west-southwest of "Datchet Downs", western Queensland, Australia. 22.28°S, 140.25°E. BOULIA 1:250,000 sheet SF54-10.  
**Horizon:** Ninmaroo Formation, Georgina Basin.  
**Age:** Warendian, Early Ordovician.

**CPC 14790:** Figured Paratype -- POJETA *et al.*, 1977, p. 21, Pl. 12, figs 6-7.  
**Locality, horizon and age** as for CPC 14789.

**CPC 14791:** Figured Paratype -- POJETA *et al.*, 1977, p. 21, Pl. 12, figs 8-11.  
**Locality, horizon and age** as for CPC 14789.

**CPC 14792:** Figured Paratype -- POJETA *et al.*, 1977, p. 21, Pl. 12, figs 12-15.  
**Locality:** B771 - 722 m above the base of a measured section, near the top of Mount Ninmaroo, western Queensland, Australia. 22.63°S, 140.30°E. BOULIA 1:250,000 sheet SF54-10.  
**Horizon and age** as for CPC 14789.

### ***Technophorus walteri* POJETA, GILBERT-TOMLINSON & SHERGOLD, 1977**

**CPC 14773:** Figured Paratype -- POJETA *et al.*, 1977, p. 21, Pl. 10, fig. 4.  
**Locality:** Hy260 - on the southern flank of the Waterhouse Range, about 90 m east up a side-creek of a tributary creek to the Hugh River, 1188 m above a dog-leg bend, 5.5 km west of Victory Waterhole and the Lawrence Gorge, Northern Territory, Australia. 24.028°S, 133.347°E. HENBURY 1:250,000 sheet SG53-1.  
**Horizon:** Pacoota Sandstone, Amadeus Basin.  
**Age:** Arenig, Ordovician.

**CPC 14774:** Figured Paratype -- POJETA *et al.*, 1977, p. 21, Pl. 10, fig. 15.  
**Locality, horizon and age** as for CPC 14773.

**CPC 14775: HOLOTYPE** -- POJETA *et al.*, 1977, p. 21, Pl. 10, fig. 16.  
**Locality, horizon and age** as for CPC 14773.

**CPC 15599:** Figured specimen (steinkern) -- POJETA & GILBERT-TOMLINSON, 1977, p. 32, Pl. 29, figs 13-15.  
**Locality:** NT237C - near Pine Gap, "east of road, 12 km southwest of Alice Springs on the Owen Springs road", Northern Territory, Australia. 23.81°S, 133.74°E. ALICE SPRINGS 1:250,000 sheet SF53-14.  
**Horizon:** Pacoota Sandstone, Amadeus Basin.  
**Age:** Late Lancefieldian, Early Ordovician.

**CPC 15600:** Figured specimen (external mould of left valve) -- POJETA & GILBERT-TOMLINSON, 1977, p. 32, Pl. 29, fig. 16.

**Locality:** NT335 - sample 15 (float) in the Pine Gap section: 3.2 km east of Native Pine Gap, southwest of Alice Springs, Northern Territory, Australia. 23.808°S, 133.74°E. ALICE SPRINGS 1:250,000 sheet SF53-14.

**Horizon and age** as for CPC 15599.

### ***Tolmachovia belfordi* POJETA, GILBERT-TOMLINSON & SHERGOLD, 1977**

**CPC 14807:** Figured Paratype -- POJETA *et al.*, 1977, p. 25, Pl. 14, fig. 1.

**Locality:** GEO311/5A - measured section in the gorge at locality H186, on the northeast side of the Dulcie Range about 9 km south of Tomahawk Yard and 6 (not 8) km northwest of Picton Spring, Northern Territory, Australia. 22.510°S, 135.797°E. HUCKITTA 1:250,000 sheet SF53-11.

**Horizon:** Tomahawk beds, Georgina Basin.

**Age:** Datsonian?, Late Cambrian (published as Early Ordovician).

**CPC 14808:** Figured Paratype -- POJETA *et al.*, 1977, p. 25, Pl. 14, fig. 2.

**Locality, horizon and age** as for CPC 14807.

**CPC 14809:** Figured Paratype -- POJETA *et al.*, 1977, p. 25, Pl. 14, fig. 3.

**Locality, horizon and age** as for CPC 14807.

**CPC 14810:** Figured Paratype -- POJETA *et al.*, 1977, p. 25, Pl. 14, fig. 4.

**Locality, horizon and age** as for CPC 14807.

**CPC 14811:** Figured Paratype -- POJETA *et al.*, 1977, p. 25, Pl. 14, fig. 5.

**Locality, horizon and age** as for CPC 14807.

**CPC 14812:** Figured Paratype -- POJETA *et al.*, 1977, p. 25, Pl. 14, fig. 6.

**Locality, horizon and age** as for CPC 14807.

**CPC 14813:** Figured Paratype -- POJETA *et al.*, 1977, p. 25, Pl. 14, fig. 7.

**Locality, horizon and age** as for CPC 14807.

**CPC 14814:** Figured Paratype -- POJETA *et al.*, 1977, p. 25, Pl. 14, fig. 8.

**Locality, horizon and age** as for CPC 14807.

**CPC 14815: HOLOTYPE** -- POJETA *et al.*, 1977, p. 25, Pl. 14, figs 9-10.

**Locality, horizon and age** as for CPC 14807.

**CPC 14816:** Figured Paratype -- POJETA *et al.*, 1977, p. 25, Pl. 14, fig. 11.

**Locality, horizon and age** as for CPC 14807.

**CPC 14817:** Figured Paratype -- POJETA *et al.*, 1977, p. 25, Pl. 14, figs 12-13.

**Locality, horizon and age** as for CPC 14807.

**CPC 14818:** Figured Paratype -- POJETA *et al.*, 1977, p. 25, Pl. 14, figs 14-15.

**Locality, horizon and age** as for CPC 14807.

**CPC 14819:** Figured Paratype -- POJETA *et al.*, 1977, p. 25, Pl. 14, figs 16-18.

**Locality, horizon and age** as for CPC 14807.

**CPC 14820:** Figured Paratype -- POJETA *et al.*, 1977, p. 25, Pl. 14, figs 19-20.

**Locality, horizon and age** as for CPC 14807.

**CPC 14821:** Figured Paratype -- POJETA *et al.*, 1977, p. 25, Pl. 14, fig. 21.

**Locality, horizon and age** as for CPC 14807.

**CPC 14822:** Figured Paratype -- POJETA *et al.*, 1977, p. 25, Pl. 14, fig. 22.

**Locality, horizon and age** as for CPC 14807.

**CPC 14823:** Figured Paratype -- POJETA *et al.*, 1977, p. 25, Pl. 14, fig. 23.

**Locality, horizon and age** as for CPC 14807.

**CPC 14824:** Figured Paratype -- POJETA *et al.*, 1977, p. 25, Pl. 14, fig. 24.

**Locality, horizon and age** as for CPC 14807.

**CPC 14825:** Figured Paratype -- POJETA *et al.*, 1977, p. 25, Pl. 14, fig. 25.

**Locality, horizon and age** as for CPC 14807.

**CPC 14826:** Figured Paratype -- POJETA *et al.*, 1977, p. 25, Pl. 14, fig. 26.

**Locality, horizon and age** as for CPC 14807.

**CPC 14827:** Figured Paratype -- POJETA *et al.*, 1977, p. 25, Pl. 14, fig. 27.

**Locality:** H171 - from the published map coordinates, this locality is near the head of Arrinthrunga Creek, about 5 km northwest of Picton Spring, on the northeast flank of the Dulcie Range, Northern Territory, Australia. 22.515°S, 135.806°E. HUCKITTA 1:250,000 sheet SF53-11.

**Horizon:** Tomahawk beds, Georgina Basin.

**Age:** Datsonian?, Late Cambrian (published as Early Ordovician).

**CPC 14828:** Figured Paratype -- POJETA *et al.*, 1977, p. 25, Pl. 14, fig. 28.

**Locality, horizon and age** as for CPC 14807.

**CPC 14829:** Figured Paratype -- POJETA *et al.*, 1977, p. 25, Pl. 14, fig. 29.

**Locality, horizon and age** as for CPC 14807.

**CPC 14830:** Figured Paratype -- POJETA *et al.*, 1977, p. 25, Pl. 14, fig. 30.

**Locality, horizon and age** as for CPC 14807.

**CPC 14831:** Figured Paratype -- POJETA *et al.*, 1977, p. 25, Pl. 14, fig. 31.

**Locality:** NT84 - not plotted on map, but probably about 26 km northwest of "Utopia" homestead, Northern Territory, Australia. Alcoota air-photos, run 2, photo 5074, 4 inches north and 7.2 inches east from its southwest corner. ALCOOTA 1:250,000 sheet SF53-10.

**Horizon and age** as for CPC 14827.

### ***Wanwania drucei* POJETA, GILBERT-TOMLINSON & SHERGOLD, 1977**

**CPC 14692: HOLOTYPE** -- POJETA *et al.*, 1977, p. 19, Pl. 5, figs 1-5.

**Locality:** GEO305/7 (= 74713104) - 803 m above the base of the Black Mountain Section of Jones, Shergold & Druce, 1971, Mt Unbunmaroo (Black Mountain), western Queensland, Australia. 22.543°S, 140.280°E. BOULIA 1:250,000 sheet SF54-10.

**Horizon:** Ninmaroo Formation, Georgina Basin.

**Age:** Warendian, Early Ordovician.

**CPC 14693:** Figured Paratype -- POJETA *et al.*, 1977, p. 19, Pl. 5, fig. 6.

**Locality, horizon and age** as for CPC 14692.

**CPC 14694:** Figured Paratype -- POJETA *et al.*, 1977, p. 19, Pl. 5, fig. 7.

**Locality, horizon and age** as for CPC 14692.

**CPC 14695:** Figured Paratype -- POJETA *et al.*, 1977, p. 19, Pl. 5, fig. 8.

**Locality, horizon and age** as for CPC 14692.

**CPC 14696:** Figured Paratype -- POJETA *et al.*, 1977, p. 19, Pl. 5, figs 9-11.

**Locality, horizon and age** as for CPC 14692.

**CPC 14697:** Figured Paratype -- POJETA *et al.*, 1977, p. 19, Pl. 5, fig. 12.

**Locality, horizon and age** as for CPC 14692.

**CPC 14698:** Figured Paratype -- POJETA *et al.*, 1977, p. 19, Pl. 5, figs 13-14.  
**Locality, horizon and age** as for CPC 14692.

**CPC 14699:** Figured Paratype -- POJETA *et al.*, 1977, p. 19, Pl. 5, figs 15-16.  
**Locality, horizon and age** as for CPC 14692.

**CPC 14700:** Figured Paratype -- POJETA *et al.*, 1977, p. 19, Pl. 5, figs 17-18.  
**Locality, horizon and age** as for CPC 14692.

## Class Gastropoda

### *Bellerophon formani* DICKINS, 1963

**CPC 3966: HOLOTYPE** (steinkern) -- DICKINS, 1963, pp. 111-112, Pl. 19, figs 20-22. DICKINS & SKWARKO, 1993B, microfiche 7, Gastropods p. 6, Pl. 56, figs 19-21.

**Locality:** KPA55 - 16 miles (25.7 km) at 120° (true) from Mount Tuckfield, southern Saint George Range, Western Australia. 18.806°S, 125.314°E. NOONKANBAH 1:250,000 sheet SE51-12.

**Horizon:** Near the base of the Poole Sandstone, Canning Basin.

**Age:** Aktastinian Substage, Artinskian, Early Permian.

**CPC 3967:** Figured Paratype A (external mould) -- DICKINS, 1963, pp. 111-112, Pl. 19, fig. 19. DICKINS & SKWARKO, 1993B, microfiche 7, Gastropods p. 6, Pl. 56, fig. 18.

**Locality, horizon and age** as for CPC 3966.

**CPC 3968:** Figured Paratype B -- DICKINS, 1963, pp. 111-112, Pl. 19, fig. 16. DICKINS & SKWARKO, 1993B, microfiche 7, Gastropods p. 6.

**Locality:** KPA54 - 16 miles (25.7 km) at 120° (true) from Mount Tuckfield, southern Saint George Range, Western Australia. 18.806°S, 125.314°E. NOONKANBAH 1:250,000 sheet SE51-12.

**Horizon and age** as for CPC 3966.

**CPC 3969:** Figured Paratype C -- DICKINS, 1963, pp. 111-112, Pl. 19, figs 14-15. DICKINS & SKWARKO, 1993B, microfiche 7, Gastropods p. 6.

**Locality:** SG120A - 16 miles (25.7 km) at 120° (true) from Mount Tuckfield, southern Saint George Range, Western Australia. 18.806°S, 125.314°E. NOONKANBAH 1:250,000 sheet SE51-12.

**Horizon and age** as for CPC 3966.

**CPC 3970:** Paratype D -- DICKINS, 1963, pp. 111-112. DICKINS & SKWARKO, 1993B, microfiche 7, Gastropods p. 6.

**Locality, horizon and age** as for CPC 3968.

**CPC 3971:** Figured Paratype E (external mould) -- DICKINS, 1963, pp. 111-112, Pl. 19, figs 17-18. DICKINS & SKWARKO, 1993B, microfiche 7, Gastropods p. 6.

**Locality, horizon and age** as for CPC 3968.

### *Bellerophon* sp. c ÖPIK, 1953

**CPC 671:** Figured specimen -- ÖPIK, 1953, p. 19, Pl. 6, figs. 47-49.

**Locality:** Heathcote district, 105 km north of Melbourne, Victoria, Australia.

**Horizon:** "Illaelenus Band", Wapentake Formation, Melbourne Trough.

**Age:** Telychian, late Llandovery, Early Silurian.

### *Bembexia* sp. HILL & WOODS, 1964

See *Peruvispira scapulata*?

Hill & Woods' form was subsequently cited as an unnamed species close to *Bembexia scapulata* by Runnegar & Ferguson, 1969, then as *Peruvispira scapulata*? by Hill *et al.*, 1972.

### cf. *Centrifugus* sp. TOWNLEY & VEEVERS 1966

**CPC 20145:** Figured specimen -- TOWNLEY & VEEVERS, 1966, Pl. 2, fig. 9. HENDERSON & STRUSZ, 1982, p. 18, Fig. G.

**Locality:** Old Yarralumla brick-clay quarry, Canberra, ACT, Australia. Grid reference FA 902904, CANBERRA 1:100,000 sheet 8727.

**Horizon:** Yarralumla Formation, Lachlan Fold Belt.

**Age:** Gorstian, early Ludlow, Late Silurian.

***Discotomaria?* sp. DICKINS, 1989**

**CPC 25279:** Figured specimen (internal mould) -- DICKINS, 1989, p. 74, Pl. 2, fig. 19.

**Locality:** UDC1 - at fence, about 4 km northeast of "Lyra Park" homestead, Queensland, Australia. DUARINGA 1:250,000 sheet SF55-16.

**Horizon:** MacMillan Formation, Blenheim Subgroup, Back Creek Group, Bowen Basin.

**Age:** *Martiniopsis havilensis* Zone, Kazanian, Late Permian. Dickins' Fauna IV.

***Euphemites wynnensis* DICKINS, 1963**

**CPC 3986: HOLOTYPE** (steinkern) -- DICKINS, 1963, pp. 107-109, Pl. 21, figs 4-6. DICKINS & SKWARKO, 1993B, microfiche 7, Gastropods pp. 1-2, Pl. 56, figs 7-8.

**Locality:** KNUA1 - 1.6 miles (2.6 km) southwest of "Paradise" homestead, Nura Nura Ridge area, Western Australia. 18.0417°S, 124.5167°E. NOONKANBAH 1:250,000 sheet SE51-12.

**Horizon:** Nura Nura Member, Poole Sandstone, Canning Basin.

**Age:** Sterlitamakian Substage, Late Sakmarian, Early Permian.

**CPC 3987:** Figured Paratype A (slightly crushed steinkern) -- DICKINS, 1963, pp. 107-109, Pl. 21, fig. 2. DICKINS & SKWARKO, 1993B, microfiche 7, Gastropods pp. 1-2.

**Locality, horizon and age** as for CPC 3986.

**CPC 3988:** Figured Paratype B (steinkern) -- DICKINS, 1963, pp. 107-109, Pl. 21, figs 8-9. DICKINS & SKWARKO, 1993B, microfiche 7, Gastropods pp. 1-2.

**Locality, horizon and age** as for CPC 3986.

**CPC 3989:** Figured Paratype C (steinkern) -- DICKINS, 1963, pp. 107-109, Pl. 21, fig. 7. DICKINS & SKWARKO, 1993B, microfiche 7, Gastropods pp. 1-2.

**Locality, horizon and age** as for CPC 3986.

**CPC 3990:** Figured Paratype D (external mould) -- DICKINS, 1963, pp. 107-109, Pl. 21, fig. 3. DICKINS & SKWARKO, 1993B, microfiche 7, Gastropods pp. 1-2, Pl. 56, fig. 12.

**Locality, horizon and age** as for CPC 3986.

**CPC 3991:** Figured Paratype E (external mould) -- DICKINS, 1963, pp. 107-109, Pl. 21, fig. 1. DICKINS & SKWARKO, 1993B, microfiche 7, Gastropods pp. 1-2.

**Locality:** Probably as for CPC 3986.

**Horizon and age** as for CPC 3986.

***Holopea latens* ÖPIK, 1953**

**CPC 676: HOLOTYPE** -- ÖPIK, 1953, pp. 20-21, Text-fig. 7 (part), Pl. 7, fig. 55.

**Locality:** Heathcote district, 105 km north of Melbourne, Victoria, Australia.

**Horizon:** "Illiaenus Band", Wapentake Formation, Melbourne Trough.

**Age:** Telychian, late Llandovery, Early Silurian.

**Remarks:** The specimen is missing, presumed lost in the 1953 BMR fire.

**CPC 677:** Figured specimen -- ÖPIK, 1953, pp. 20-21, Pl. 7, fig. 56.

**Locality, horizon and age** as for CPC 676.

**CPC 678-680:** Cited specimens -- ÖPIK, 1953, pp. 20-21.

**Locality, horizon, age and remarks** as for CPC 676.

**CPC 681:** Figured specimen? -- ÖPIK, 1953, pp. 20-21, Text-fig. 7 (part)?

**Locality, horizon, age and remarks** as for CPC 676.

**CPC 682-683:** Cited specimens -- ÖPIK, 1953, pp. 20-21.

**Locality, horizon, age and remarks** as for CPC 676.

### ***Keeneia carnarvonensis* DICKINS, 1957**

**CPC 2264: HOLOTYPE** (complete shell) -- DICKINS, 1957, pp. 50-51, Pl. IX, figs 9-11. DICKINS & SKWARKO, 1993B, microfiche 7, Gastropods pp. 11-12, Pl. 56, figs 36, 39.

**Locality:** ML109 - about 3 miles (4.8 km) northeast of Round Hill Well, 1.65 km west of Kialawibri Creek road crossing, "Winning" Station, Lyndon River area, Western Australia. 23.34°S, 114.463°E. Grid reference KV 639165, WINNING 1:100,000 sheet 1851; WINNING POOL 1:250,000 sheet SF50-13.

**Horizon:** Thambrong Formation, upper Lyons Group, Carnarvon Basin.

**Age:** Tastubian Substage, Sakmarian, Early Permian.

**CPC 2265: Paratype** -- DICKINS, 1957, pp. 50-51. DICKINS & SKWARKO, 1993B, microfiche 7, Gastropods pp. 11-12.

**Locality:** MG159 - within the type section of the Mundarie Siltstone, at rabbit-proof fence 3.4 miles (5.5 km) south of Coyango Well, "Williambury" Station, Western Australia. 23.817° S, 114.963°E. WINNING 1:100,000 sheet 1851, WINNING POOL 1:250,000 sheet SF50-13.

**Horizon:** Mundarie Siltstone, Lyons Group, Carnarvon Basin.

**Age:** Asselian to Sakmarian, Early Permian.

**Remarks:** The locality is cited as ML164, but the specimen was originally registered as F 20846, and both the F collection register and the specimen label give the locality number as MG159.

### ***Kitikamispira ukalundensis* COOK, 1995?**

**CPC 33678: Cited specimen** (steinkern) -- COOK, 1995, p. 433.

**Locality:** 1.7 km south of "Douglas Creek" homestead, Clermont district, Queensland, Australia. CLERMONT 1:250,000 sheet SF55-11.

**Horizon:** Un-named mudstone units south of the Douglas Creek Limestone, New England Fold Belt.

**Age:** *Polygnathus perbonus* Zone, Emsian, Early Devonian.

### ***Kokenospira trimetra* ÖPIK, 1953**

**CPC 674: HOLOTYPE** -- ÖPIK, 1953, p. 20, Pl. 7, figs. 52-53.

**Locality:** Heathcote district, 105 km north of Melbourne, Victoria, Australia.

**Horizon:** "*Illaenus* Band", Wapentake Formation, Melbourne Trough.

**Age:** Telychian, late Llandovery, Early Silurian.

**CPC 675: Figured specimen** -- ÖPIK, 1953, p. 20, Pl. 7, fig. 54.

**Locality, horizon, and age** as for CPC 674.

**Remarks:** The specimen is missing, probably destroyed in the 1953 BMR fire.

### ***Kokenospira trisinuata* ÖPIK, 1953**

**CPC 672: HOLOTYPE** -- ÖPIK, 1953, pp. 19-20, Pl. 7, figs. 50-51.

**Locality:** Heathcote district, 105 km north of Melbourne, Victoria, Australia.

**Horizon:** "*Illaenus* Band", Wapentake Formation, Melbourne Trough.

**Age:** Telychian, late Llandovery, Early Silurian.

**CPC 673: Figured specimen** -- ÖPIK, 1953, pp. 19-20, Text-fig. 6.

**Locality, horizon, and age** as for CPC 672.

### ***Loxonema subangulatum* ÖPIK, 1953**

**CPC 684: HOLOTYPE** -- ÖPIK, 1953, p. 21, Pl. 7, figs. 57-58.

**Locality:** Heathcote district, 105 km north of Melbourne, Victoria, Australia.

**Horizon:** "*Illaenus* Band", Wapentake Formation, Melbourne Trough.

**Age:** Telychian, late Llandovery, Early Silurian.

**CPC 685:** Cited specimen -- ÖPIK, 1953, p. 21.

**Locality, horizon, and age** as for CPC 684.

**Remarks:** The specimen is missing, probably destroyed in the 1953 BMR fire.

### ***Mourlonia? obscura* DICKINS, 1963**

**CPC 3993: HOLOTYPE** (external mould) -- DICKINS, 1963, p. 124, Pl. 22, figs 13-14. DICKINS & SKWARKO, 1993B, microfiche 7, Gastropods pp. 17-18, Pl. 57, fig. 7.

**Locality:** PB7 - Carynginia Gully, about ½ mile (0.8 km) at 334° (true) from Carynginia No. 1 Well, Irwin River area east of Geraldton, Western Australia. 28.924°S, 115.072°E. YALGOO 1:250,000 sheet SH50-2.

**Horizon:** Cited as "Fossil Cliff Formation": Fossil Cliff Member?, Holmwood Shale, Perth Basin, Irwin Sub-basin -- plots within undifferentiated Holmwood Shale on the 1977 map.

**Age:** Sakmarian, Early Permian.

**CPC 3994:** Figured Paratype A (external mould) -- DICKINS, 1963, p. 124, Pl. 22, figs 15-16. DICKINS & SKWARKO, 1993B, microfiche 7, Gastropods pp. 17-18.

**Locality:** PB9 - Becketts Gully, 0.4 miles (0.6 km) above road crossing; Irwin River area, east of Geraldton, Western Australia. 29.0124°S, 115.0397°E. Grid reference 511056 (Pintharuka 1" = 1 mile sheet); PERENJORI 1:250,000 sheet SH50-6.

**Horizon:** Fossil Cliff Member, Holmwood Shale, Perth Basin, Irwin Sub-basin.

**Age:** Sakmarian, Early Permian.

**CPC 3995:** Figured Paratype B (steinkern) -- DICKINS, 1963, p. 124, Pl. 22, figs 20-21. DICKINS & SKWARKO, 1993B, microfiche 7, Gastropods pp. 17-18, Pl. 57, fig. 10.

**Locality:** KNuA1 - 1.6 miles (2.6 km) southwest of "Paradise" homestead, Nura Nura Ridge area, Western Australia. 18.0417°S, 124.5167°E. NOONKANBAH 1:250,000 sheet SE51-12.

**Horizon:** Nura Nura Member, Poole Sandstone, Canning Basin.

**Age:** Sterlitamakian Substage, Late Sakmarian, Early Permian.

**CPC 3996:** Figured Paratype C (steinkern) -- DICKINS, 1963, p. 124, Pl. 22, fig. 18. DICKINS & SKWARKO, 1993B, microfiche 7, Gastropods pp. 17-18.

**Locality, horizon and age** as for CPC 3995.

**CPC 3997:** Figured Paratype D (steinkern) -- DICKINS, 1963, p. 124, Pl. 22, fig. 17. DICKINS & SKWARKO, 1993B, microfiche 7, Gastropods pp. 17-18, Pl. 57, figs 2, 9.

**Locality, horizon and age** as for CPC 3995.

**CPC 3998:** Figured Paratype E -- DICKINS, 1963, p. 124, Pl. 22, fig. 19. DICKINS & SKWARKO, 1993B, microfiche 7, Gastropods pp. 17-18.

**Locality:** Not certain, but apparently at or close to KnuA1 - see CPC 3995.

**Horizon and age** as for CPC 3995.

### ***Mourlonia (Mourlonia) lyndonensis* DICKINS, 1957**

*Originally described as Mourlonia? lyndonensis.*

**CPC 2255: HOLOTYPE** (complete shell) -- DICKINS, 1957, pp. 46-47, Pl. VIII, figs 1-4. DICKINS & SKWARKO, 1993B, microfiche 7, Gastropods p. 14, Pl. 57, fig. 3.

**Locality:** ML109 - about 3 miles (4.8 km) northeast of Round Hill Well, 1.65 km west of Kialawibri Creek road crossing, "Winning" Station, Lyndon River area, Western Australia. 23.34°S, 114.463°E. Grid reference KV639165, WINNING 1:100,000 sheet 1851; WINNING POOL 1:250,000 sheet SF50-13.

**Horizon:** Thambrong Formation, upper Lyons Group, Carnarvon Basin.

**Age:** Tastubian Substage, Sakmarian, Early Permian.

**CPC 2256:** Paratype A (complete shell) -- DICKINS, 1957, pp. 46-47. DICKINS & SKWARKO, 1993B, microfiche 7, Gastropods p. 14.

**Locality, horizon, and age** as for CPC 2255.

**CPC 2257:** Figured Paratype B (complete shell) -- DICKINS, 1957, pp. 46-47, Pl. VIII, fig. 5. DICKINS & SKWARKO, 1993B, microfiche 7, Gastropods p. 14, Pl. 57, fig. 6.

**Locality:** ML107 - about 3 miles (4.8 km) northeast of Round Hill Well, 1.64 km west of Kialawibri Creek road crossing, "Winning" Station, Lyndon River area, Western Australia. 23.34°S, 114.463°E. Grid reference KV 640165, WINNING 1:100,000 sheet 1851; WINNING POOL 1:250,000 sheet SF50-13.

**Horizon:** Thambrong Formation, upper Lyons Group, Carnarvon Basin.

**Age:** Tastubian Substage, Sakmarian, Early Permian.

**CPC 2258:** Paratype C (complete shell) -- DICKINS, 1957, pp. 46-47. DICKINS & SKWARKO, 1993B, microfiche 7, Gastropods p. 14.

**Locality, horizon, and age** as for CPC 2257.

**CPC 4008:** Figured specimen -- DICKINS, 1963, p. 119, Pl. 24, figs 5-6. DICKINS & SKWARKO, 1993B, microfiche 7, Gastropods p. 14.

**Locality:** WB52 - about 1 mile (1.6 km) west of Callytharra Springs, "Byro" station, on the south side of the Wooramel River, Western Australia. 25.871°S, 115.494°E. Grid reference LS 490371, CALLYTHARRA 1:100,000 sheet 1946; WOORAMEL 1:250,000 sheet SG50-5.

**Horizon:** Upper 15 ft (4.6 m) of the Carrandibby Formation, Carnarvon Basin.

**Age:** Tastubian Substage, Sakmarian, Early Permian.

### ***Mourlonia (Mourlonia) sp. nov.* A DICKINS & SKWARKO IN SKWARKO, 1993**

*Originally described as Mourlonia (Mourlonia) sp. nov. by Dickins, 1963.*

**CPC 3992:** Figured specimen (external mould) -- DICKINS, 1963, p. 119, Pl. 23, figs 18-21. DICKINS & SKWARKO, 1993B, microfiche 7, Gastropods p. 15.

**Locality:** WB266 - 30 miles (48 km) west-northwest of "Curbur" homestead, Western Australia. 26.3667°S, 115.4167°E. YARINGA 1:250,000 sheet SG50-9.

**Horizon:** Callytharra Formation, Carnarvon Basin.

**Age:** Sakmarian, Early Permian.

### ***Mourlonia (Mourlonia) strzeleckiana (MORRIS, 1845)***

**CPC 25269:** Figured specimen (external mould) -- DICKINS, 1989, pp. 69-71, Pl. 2, fig. 13.

**Locality:** UDC1 - at fence about 4 km northeast of "Lyra Park" homestead, Queensland, Australia. DUARINGA 1:250,000 sheet SF55-16.

**Horizon:** MacMillan Formation, Blenheim Subgroup, Back Creek Group, Bowen Basin.

**Age:** *Martiniopsis havilensis* Zone, Kazanian, Late Permian. Dickins' Fauna IV.

**CPC 25270:** Figured specimen (external mould) -- DICKINS, 1989, pp. 69-71, Pl. 2, figs 14-15.

**Locality, horizon, and age** as for CPC 25269.

**CPC 25271:** Figured specimen (external mould) -- DICKINS, 1989, pp. 69-71, Pl. 2, fig. 16.

**Locality, horizon, and age** as for CPC 25269.

**Remarks:** This is actually a second latex pull from the same mould as the latex numbered CPC 25270.

**CPC 25272:** Figured specimens (4 external moulds of adjacent shells) -- DICKINS, 1989, pp. 69-71, Pl. 2, fig. 17.

**Locality, horizon, and age** as for CPC 25269.

**CPC 25273:** Figured specimens (external moulds of adjacent shells) -- DICKINS, 1989, pp. 69-71, Pl. 2, fig. 18.

**Locality, horizon, and age** as for CPC 25269.

### ***Mourlonia (Mourlonopsis) sp. cf. strzeleckiana (MORRIS, 1845); HILL & WOODS, 1964***

**CPC 5185:** Figured specimen (several pieces) -- HILL & WOODS, 1964, Pl. PXII, fig. 15. HILL, PLAYFORD & WOODS, 1972, Pl. PXII, fig. 15.

**Locality:** M416 - about 3 km southwest of "Homevale" homestead, northwest of Nebo, Queensland, Australia. Approximate coordinates 21.463°S, 148.508°E. MACKAY 1:250,000 sheet SF55-8.  
**Horizon:** Upper Gebbie Subgroup, Back Creek Group, Bowen Basin.  
**Age:** Artinskian to Kungurian, Early Permian.

***Mourlonia (Pseudobaylea) freneyensis* DICKINS, 1963**

**CPC 3999: HOLOTYPE** -- DICKINS, 1963, pp. 121-122, Pl. 23, figs 7-9. DICKINS & SKWARKO, 1993B, microfiche 7, Gastropods pp. 15-16, Pl. 57, fig. 1.

**Locality:** KNuA1 - 1.6 miles (2.6 km) southwest of "Paradise" homestead, Nura Nura Ridge area, Western Australia. 18.0417°S, 124.5167°E. NOONKANBAH 1:250,000 sheet SE51-12.

**Horizon:** Nura Nura Member, Poole Sandstone, Canning Basin.

**Age:** Sterlitamakian Substage, Late Sakmarian, Early Permian.

**CPC 4000: Figured Paratype A** -- DICKINS, 1963, pp. 121-122, Pl. 23, figs 2, 6. DICKINS & SKWARKO, 1993B, microfiche 7, Gastropods pp. 15-16.

**Locality, horizon and age** as for CPC 3999.

**CPC 4001: Figured Paratype B** -- DICKINS, 1963, pp. 121-122, Pl. 23, fig. 3. DICKINS & SKWARKO, 1993B, microfiche 7, Gastropods pp. 15-16.

**Locality, horizon and age** as for CPC 3999.

**CPC 4002: Figured Paratype C** -- DICKINS, 1963, pp. 121-122, Pl. 23, fig. 1. DICKINS & SKWARKO, 1993B, microfiche 7, Gastropods pp. 15-16.

**Locality, horizon and age** as for CPC 3999.

**CPC 4003: Figured Paratype D** -- DICKINS, 1963, pp. 121-122, Pl. 23, fig. 4. DICKINS & SKWARKO, 1993B, microfiche 7, Gastropods pp. 15-16.

**Locality, horizon and age** as for CPC 3999.

**CPC 4004: Figured Paratype E (external mould)** -- DICKINS, 1963, pp. 121-122, Pl. 23, fig. 5. DICKINS & SKWARKO, 1993B, microfiche 7, Gastropods pp. 15-16.

**Locality, horizon and age** as for CPC 3999.

**CPC 4005: Figured Paratype F (external mould)** -- DICKINS, 1963, pp. 121-122, Pl. 23, figs 10-11. DICKINS & SKWARKO, 1993B, microfiche 7, Gastropods pp. 15-16.

**Locality:** IR20 - Carynginia Gully, about ½ mile (0.8 km) at 334° (true) from Carynginia No. 1 Well, Irwin River area east of Geraldton, Western Australia. 28.924°S, 115.072°E. YALGOO 1:250,000 sheet SH50-2.

**Horizon:** Cited as "Fossil Cliff Formation": Fossil Cliff Member?, Holmwood Shale, Perth Basin, Irwin Sub-basin -- plots within undifferentiated Holmwood Shale on the 1977 map.

**Age:** Sakmarian, Early Permian.

**Remarks:** CPC 4005 and 4006 are on the same piece of rock as CPC 3860.

**CPC 4006: Paratype G** -- DICKINS, 1963, pp. 121-122. DICKINS & SKWARKO, 1993B, microfiche 7, pp. 15-16.

**Locality, horizon, age and remarks** as for CPC 4005.

***Mourlonia (Wallnichollsia) sp. cf. subcancellata* (MORRIS, 1845); HILL & WOODS, 1964**

**CPC 5187: Figured specimen (right valve)** -- HILL & WOODS, 1964, Pl. PXII, figs 16a-b. HILL, PLAYFORD & WOODS, 1972, Pl. PXII, figs 16a-b.

**Locality:** MC423 - about 3 miles (4.8 km) east of the junction of Sandy Creek with the Bowen River, Queensland, Australia. MOUNT COOLON 1:250,000 sheet SF55-7.

**Horizon:** Mantuan Formation, Blenheim Subgroup, Back Creek Group, Bowen Basin.

**Age:** Ufimian to Kazanian, Late Permian.

## ***Pelagiella deltoides* RUNNEGAR & JELL, 1976**

**CPC 25781:** Figured specimen -- YOUNG *et al.*, 1987, p. 239, Fig. 6A.

**Locality:** ND6 - 630 m east of the northern end of N'Dahla Gorge where it cuts the N'Dahla Member, Ross River Syncline 55 km east of Alice Springs, Northern Territory, Australia. 23.67°S, 134.38°E. ALICE SPRINGS 1:100,000 sheet 5650.

**Horizon:** N'Dahla Member, basal Pertnjara Group, Amadeus Basin; specimens reworked from the Pacoota Sandstone.

**Age:** Reworked Late Cambrian; the N'Dahla Member is no older than Emsian, and probably close to the Early/Middle Devonian boundary.

**CPC 25782:** Figured specimen -- YOUNG *et al.*, 1987, p. 239, Fig. 6B.

**Locality, horizon, and age** as for CPC 25781.

## ***Pelagiella* sp. LAURIE, 1986**

**CPC 23741:** Figured specimen (phosphatised shell) -- LAURIE, 1986, p. 447, Figs 10D, E.

**Locality:** NT600 - about 12 km southwest of Santa Teresa Mission, 4.5 km at 60° from Phillipson No.1 Bore, Northern Territory, Australia. RODINGA 1:250,000 sheet SG53-2.

**Horizon:** Todd River Dolomite, Amadeus Basin.

**Age:** Atdabanian, Early Cambrian.

## ***Peruvispira* sp. cf. *modesta* WATERHOUSE, 1963**

**CPC 25274:** Figured specimen -- DICKINS, 1989, p. 71, Pl. 2, fig. 8.

**Locality:** MC803 - 4 km north-northwest of "Blenheim" homestead, Queensland, Australia. MOUNT COOLON 1:250,000 sheet SF55-7.

**Horizon:** Upper Blenheim Subgroup, Back Creek Group, Bowen Basin.

**Age:** *Martiniopsis havilensis* Zone, Kazanian, Late Permian. Dickins' Fauna IV.

**Remarks:** This specimen cannot be identified amongst the lodged specimens.

**CPC 25275:** Figured specimen -- DICKINS, 1989, p. 71, Pl. 2, figs 9-10.

**Locality, horizon, and age** as for CPC 25274.

**CPC 25276:** Figured specimens (external moulds of several adjacent shells) -- DICKINS, 1989, p. 71, Pl. 2, fig. 7.

**Locality:** About 2 metres above the base of the type section of the Black Alley Shale, in the main west branch of Dry Creek, about 3 km southeast of Black Alley Peak, Queensland, Australia. SPRINGSURE 1:250,000 sheet SG55-3.

**Horizon:** Black Alley Shale, upper Blenheim Subgroup, Back Creek Group, Bowen Basin.

**Age:** *Martiniopsis havilensis* Zone, Kazanian, Late Permian. Dickins' Fauna IV.

**Remarks:** In the plate explanation wrongly cited as CPC 25287 (which is *Echinalosia* sp. cf. *minima*, see Pl. 3, fig. 4).

## ***Peruvispira scapulata* (RUNNEGAR & FERGUSON, 1969)?**

*See also Bembexia* sp.

Originally published as *Bembexia* sp. by Hill & Woods, 1964, then mentioned as an unnamed species close to their *B. scapulata* by Runnegar & Ferguson; cited as *Peruvispira scapulata*? by Hill *et al.* 1972.

**CPC 5186:** Figured specimen -- HILL & WOODS, 1964, Pl. PXII, fig. 19. HILL, PLAYFORD & WOODS, 1972, Pl. PXII, fig. 19.

**Locality:** B1633a - Approximately 20.800°S, 147.683°E, Bowen district, Queensland, Australia. BOWEN 1:250,000 sheet SF55-3.

**Horizon:** Glendoo Member, Collinsville Coal Measures, Bowen Basin.

**Age:** Early Permian.

## ***Peruvispira umariensis* (REED, 1928)**

*See also Ptychomphalina umariensis*

Originally described as *Pleurotomaria*, placed in *Ptychomphalina* by Dickins, 1957, but then assigned to *Peruvispira* in a postscript on p. 52.

**CPC 2259:** Figured specimen (complete shell) -- DICKINS, 1957, pp. 47-49, Pl. IX, figs 1-3. DICKINS & SKWARKO, 1993B, microfiche 7, Gastropods pp. 21-22, Pl. 57, figs 17-18.

**Locality:** ML109 - about 3 miles (4.8 km) northeast of Round Hill Well, 1.65 km west of Kialawibri Creek road crossing, "Winning" Station, Lyndon River area, Western Australia. 23.34°S, 114.463°E. Grid reference KV639165, WINNING 1:100,000 sheet 1851; WINNING POOL 1:250,000 sheet SF50-13.

**Horizon:** Thambrong Formation, upper Lyons Group, Carnarvon Basin.

**Age:** Tastubian Substage, Sakmarian, Early Permian.

**CPC 2260:** Figured specimen (complete shell) -- DICKINS, 1957, pp. 47-49, Pl. IX, fig. 5. DICKINS & SKWARKO, 1993B, microfiche 7, Gastropods pp. 21-22.

**Locality, horizon, and age** as for CPC 2259.

**CPC 2261:** Figured specimen (worn shell) -- DICKINS, 1957, pp. 47-49, Pl. IX, fig. 4. DICKINS & SKWARKO, 1993B, microfiche 7, Gastropods pp. 21-22.

**Locality, horizon, and age** as for CPC 2259.

**CPC 2262:** Cited specimen (worn shell, partly exposed) -- DICKINS, 1957, pp. 47-49. DICKINS & SKWARKO, 1993B, microfiche 7, Gastropods pp. 21-22.

**Locality, horizon, and age** as for CPC 2259.

**CPC 2263:** Cited specimen (complete shell) -- DICKINS, 1957, pp. 47-49. DICKINS & SKWARKO, 1993B, microfiche 7, Gastropods pp. 21-22.

**Locality:** ML107 - about 3 miles (4.8 km) northeast of Round Hill Well, 1.64 km west of Kialawibri Creek road crossing, "Winning" Station, Lyndon River area, Western Australia. 23.34°S, 114.463°E. Grid reference KV 640165, WINNING 1:100,000 sheet 1851; WINNING POOL 1:250,000 sheet SF50-13.

**Horizon and age** as for CPC 2259.

### ***Peruvispira* sp. cf. *umariensis* (REED, 1928)**

**CPC 4009:** Figured specimen (external mould) -- DICKINS, 1963, pp. 126-127, Pl. 24, figs 7-8. DICKINS & SKWARKO, 1993B, microfiche 7, Gastropods p. 22, Pl. 57, figs 14, 19.

**Locality:** PB7 - Carynginia Gully, about ½ mile (0.8 km) at 334° (true) from Carynginia No. 1 Well, Irwin River area east of Geraldton, Western Australia. 28.924°S, 115.072°E. YALGOO 1:250,000 sheet SH50-2.

**Horizon:** Cited as "Fossil Cliff Formation": Fossil Cliff Member?, Holmwood Shale, Perth Basin, Irwin Sub-basin -- plots within undifferentiated Holmwood Shale on the 1977 map.

**Age:** Sakmarian, Early Permian.

### ***Peruvispira* sp. DICKINS, 1981**

**CPC 20167:** Figured specimen -- DICKINS, 1981, p. 29, Pl. 2, fig. 7.

**Locality:** TH198 - 4 km east-northeast of Silverwood railway siding, south of Warwick, Queensland, Australia. 28.337°S, 152.049°E. WARWICK 1:250,000 sheet SH56-2.

**Horizon:** Eight Mile Creek beds.

**Age:** Baigendzhinian Substage, Artinskian, Early Permian.

**CPC 20168:** Figured specimen -- DICKINS, 1981, p. 29, Pl. 2, fig. 8.

**Locality:** TH406 - 3 km northeast of Silverwood railway siding, south of Warwick, Queensland, Australia. 28.331°S, 152.124°E. WARWICK 1:250 000 sheet SH56-2.

**Horizon and age** as for CPC 20167.

### ***Phragmolites phaeacus* ÖPIK, 1953**

**CPC 667: HOLOTYPE** -- ÖPIK, 1953, pp. 18-19, Pl. 6, figs. 40-43.

**Locality:** Heathcote district, about 65 miles north of Melbourne, Victoria, Australia.

**Horizon:** "Illaenus Band", Wapentake Formation, Melbourne Trough.

**Age:** Telychian, late Llandovery, Early Silurian.

**Remarks:** The specimen is missing, probably destroyed in the 1953 BMR fire.

**CPC 668, 669:** Cited specimens -- ÖPIK, 1953, pp. 18-19.

**Locality, horizon, age and remarks** as for CPC 667.

### ***Platyceras* sp. nov. DICKINS, 1963**

**CPC 4014:** Figured specimen -- DICKINS, 1963, p. 133, Pl. 25, fig. 6. DICKINS & SKWARKO, 1993B, microfiche 7, Gastropods p. 24, Pl. 57, fig. 25.

**Locality:** ML94 - about 2 miles (3.2 km) north-northeast of Round Hill Well, "Winning" Station, south of the Lyndon River, Western Australia. Approximately 23.3517°S, 114.6733°E. Grid reference approximately KV 622158, WINNING 1:100,000 sheet 1851; WINNING POOL 1:250,000 sheet SF50-13.

**Horizon:** Near the base of the Callytharra Formation, Carnarvon Basin.

**Age:** Sakmarian, Early Permian.

**CPC 4015:** Figured specimen -- DICKINS, 1963, p. 133, Pl. 25, figs 4-5. DICKINS & SKWARKO, 1993B, microfiche 7, Gastropods p. 24.

**Locality:** ML22 - about 5.5 miles (9 km) east-southeast of Donnelly's Well, "Williambury" Station, Western Australia. 24.10°S, 115.16°E. MOUNT SANDIMAN 1:100,000 sheet 1949; KENNEDY RANGE 1:250,000 sheet SG50-1.

**Horizon:** 5-28 ft (1.5-8.5 m) above the base of the Callytharra Formation, Carnarvon Basin.

**Age:** Sakmarian, Early Permian.

**CPC 4016:** Cited specimen -- DICKINS, 1963, p. 133.

**Locality, horizon, and age** as for CPC 4015.

### ***Platyschisma?* sp. nov. DICKINS, 1957**

**CPC 2266:** Figured specimen (worn shell, partly decorticated) -- DICKINS, 1957, p. 51, Pl. VIII, fig. 8. DICKINS & SKWARKO, 1993B, microfiche 7, Gastropods pp. 12-13, Pl. 56, fig. 40.

**Locality:** MG159 - within the type section of the Mundarie Siltstone, at rabbit-proof fence 3.4 miles (5.5 km) south of Coyango Well, "Williambury" Station, Western Australia. 23.817°S, 114.963°E. WINNING 1:100,000 sheet 1851, WINNING POOL 1:250,000 sheet SF50-13.

**Horizon:** Mundarie Siltstone, Lyons Group, Carnarvon Basin.

**Age:** Asselian to Sakmarian, Early Permian.

**Remarks:** Initially registered as F20846. Cited as being from locality ML169, but the F collection register and the specimen label both give the locality number as MG159.

**CPC 2267:** Cited specimen (worn shell, partly decorticated) -- DICKINS, 1957, p. 51.

**Locality, horizon, age and remarks** as for CPC 2266.

### ***Platyteichum johnstonei* DICKINS, 1961**

**CPC 108: HOLOTYPE** -- DICKINS, 1961, pp. 134-135, Pl. 17, fig. 9. DICKINS & SKWARKO, 1993B, microfiche 7, Gastropods p. 20, Pl. 57, fig. 15.

**Locality:** 4.5 miles (7.24 km) west of south of "Merlinleigh" homestead, Western Australia. 24.3739°S, 115.1667°E. KENNEDY RANGE 1:250,000 sheet SG50-1.

**Horizon:** 97 ft (29.6 m) above the base of the Norton Greywacke, Byro Group, Carnarvon Basin.

**Age:** Late Artinskian to early Kungurian, Early Permian. Upper Dickins' D1 faunal stage.

### **?*Platyteichum johnstonei* DICKINS, 1961**

**CPC 109:** Figured specimen -- DICKINS, 1961, p. 135, Pl. 17, figs 1-3. DICKINS & SKWARKO, 1993B, microfiche 7, Gastropods p. 20, Pl. 57, figs 24, 27-28.

**Locality:** 1¼ miles (2.8 km) southeast of Muderong Bore, "Middalya" Station, Western Australia.

**Horizon:** Coolkilya Greywacke, Kennedy Group, Carnarvon Basin.

**Age:** Kungurian, Early Permian. Faunal stage D2.

**Remarks:** Originally registered as F17076.

### ***Platyteichum* sp. DICKINS, 1981**

**CPC 20169:** Figured specimen -- DICKINS, 1981, p. 30, Pl. 2, fig. 10.

**Locality:** TH171 - 2.2 km north-northeast of "Oaklands" homestead, south of Warwick, southeastern Queensland, Australia. 28.3836°S, 152.1888°E. WARWICK 1:250,000 sheet SH56-2.

**Horizon:** Rhyolite Range beds.

**Age:** Baigendzhinian Substage, Artinskian, Early Permian.

### ***Platyteichum?* sp. nov. DICKINS, 1961**

**CPC 110:** Figured specimen -- DICKINS, 1961, pp. 136-137, Pl. 17, fig. 7. DICKINS & SKWARKO, 1993B, microfiche 7, Gastropods p. 21, Pl. 57, fig. 23.

**Locality:** 4.5 miles (7.24 km) west of south of "Merlinleigh" homestead, Western Australia. 24.3739°S, 115.1667°E. KENNEDY RANGE 1:250,000 sheet SG50-1.

**Horizon:** 97 ft. (29.0 m) above the base of the Norton Greywacke, Byro Group, Carnarvon Basin.

**Age:** Late Artinskian to early Kungurian, Early Permian. Upper D1 faunal stage.

**CPC 111:** Figured specimen -- DICKINS, 1961, pp. 136-137, Pl. 17, fig. 8. DICKINS & SKWARKO, 1993B, microfiche 7, Gastropods p. 21, Pl. 57, fig. 22.

**Locality:** 3¼ miles (5.23 km) from locality K38 on a bearing of 197°, and 5 miles (8 km) from Walbarune Peak (loc. K40) on a bearing of 340°, Western Australia. 24.8558°S, 115.1814°E. KENNEDY RANGE 1:250,000 sheet SG50-1.

**Horizon:** 108 ft (32.9 m) above the base of the Coolkilya Greywacke, Kennedy Group, Carnarvon Basin.

**Age:** Kungurian, Early Permian. Faunal stage D2.

**CPC 112:** Cited specimen -- DICKINS, 1961, pp. 136-137. DICKINS & SKWARKO, 1993B, microfiche 7, Gastropods p. 21.

**Locality:** 1¾ miles (2.8 km) southeast of Muderong Bore, "Middalya" Station, Western Australia.

**Horizon:** Coolkilya Greywacke, Kennedy Group, Carnarvon Basin.

**Age:** Kungurian, Early Permian. Faunal stage D2.

### ***Ptychomphalina talboti* DICKINS, 1963**

**CPC 4007: HOLOTYPE** -- DICKINS, 1963, pp. 125-126, Pl. 24, fig. 16. DICKINS & SKWARKO, 1993B, microfiche 7, Gastropods p. 19, Pl. 57, fig. 12.

**Locality:** IR20 - Carynginia Gully, about ½ mile (0.8 km) at 334° (true) from Carynginia No. 1 Well, Irwin River area east of Geraldton, Western Australia. 28.924°S, 115.072°E. YALGOO 1:250,000 sheet SH50-2.

**Horizon:** Cited as "Fossil Cliff Formation": Fossil Cliff Member?, Holmwood Shale, Perth Basin, Irwin Sub-basin -- plots within undifferentiated Holmwood Shale on the 1977 map.

**Age:** Sakmarian, Early Permian.

### ***Ptychomphalina umariensis* (REED, 1928)**

*See Peruvipsira umariensis*

Assigned to *Peruvipsira* by Dickins, 1957, in a postscript on p. 52.

### **'*Retispira*' clarkae DICKINS, 1963**

**CPC 3977: HOLOTYPE** (internal and external moulds) -- DICKINS, 1963, pp. 114-115, Pl. 20, figs 16-19. DICKINS & SKWARKO, 1993B, microfiche 7, Gastropods pp. 8-9, Pl. 56, fig. 28.

**Locality:** IR20 - Carynginia Gully, about ½ mile (0.8 km) at 334° (true) from Carynginia No. 1 Well, Irwin River area east of Geraldton, Western Australia. 28.924°S, 115.072°E. YALGOO 1:250,000 sheet SH50-2.

**Horizon:** Cited as "Fossil Cliff Formation": Fossil Cliff Member?, Holmwood Shale, Perth Basin, Irwin Sub-basin -- plots within undifferentiated Holmwood Shale on the 1977 map.

**Age:** Sakmarian, Early Permian.

**CPC 3978:** Figured Paratype (incomplete external mould) -- DICKINS, 1963, pp. 114-115, Pl. 20, figs 14-15. DICKINS & SKWARKO, 1993B, microfiche 7, Gastropods pp. 8-9, Pl. 56, fig. 25.  
**Locality, horizon and age** as for CPC 3977.

### ***Stachella crucilirata* DICKINS, 1963**

**CPC 3972: HOLOTYPE** (steinkern and external mould) -- DICKINS, 1963, pp. 116-117, Pl. 20, figs 1-4. DICKINS & SKWARKO, 1993B, microfiche 7, Gastropods pp. 4-5, Pl. 56, fig. 14.

**Locality:** PB9 - Becketts Gully, 0.4 miles (0.6 km) above road crossing; Irwin River area, east of Geraldton, Western Australia. 29.0124°S, 115.0397°E. Grid reference 511056 (Pintharuka 1" = 1 mile sheet); PERENJORI 1:250,000 sheet SH50-6.

**Horizon:** Fossil Cliff Member, Holmwood Shale, Perth Basin, Irwin Sub-basin.

**Age:** Sakmarian, Early Permian.

**CPC 3973:** Figured Paratype A (steinkern and external mould) -- DICKINS, 1963, pp. 116-117, Pl. 20, figs 8-11. DICKINS & SKWARKO, 1993B, microfiche 7, Gastropods pp. 4-5, Pl. 56, figs 9, 13, 15.

**Locality, horizon and age** as for CPC 3972.

**CPC 3974:** Figured Paratype B (steinkern) -- DICKINS, 1963, pp. 116-117, Pl. 20, figs 5-6. DICKINS & SKWARKO, 1993B, microfiche 7, Gastropods pp. 4-5.

**Locality:** KNuA1 - 1.6 miles (2.6 km) southwest of "Paradise" homestead, Nura Nura Ridge area, Western Australia. 18.0417°S, 124.5167°E. NOONKANBAH 1:250,000 sheet SE51-12.

**Horizon:** Nura Nura Member, Poole Sandstone, Canning Basin.

**Age:** Sterlitamakian Substage, Late Sakmarian, Early Permian.

**CPC 3975:** Figured Paratype C (steinkern) -- DICKINS, 1963, pp. 116-117, Pl. 20, figs 12-13. DICKINS & SKWARKO, 1993B, microfiche 7, Gastropods pp. 4-5.

**Locality, horizon and age** as for CPC 3974.

**CPC 3976:** Figured Paratype D (steinkern) -- DICKINS, 1963, pp. 116-117, Pl. 20, fig. 7. DICKINS & SKWARKO, 1993B, microfiche 7, Gastropods pp. 4-5.

**Locality, horizon and age** as for CPC 3974.

### ***Straparolus (Leptomphalus) besselensis* DICKINS, 1963**

**CPC 4010: HOLOTYPE** (external mould) -- DICKINS, 1963, pp. 129-130, Pl. 24, fig. 1. DICKINS & SKWARKO, 1993B, microfiche 7, Gastropods pp. 10-11, Pl. 56, fig. 38.

**Locality:** KNuA1 - 1.6 miles (2.6 km) southwest of "Paradise" homestead, Nura Nura Ridge area, Western Australia. 18.0417°S, 124.5167°E. NOONKANBAH 1:250,000 sheet SE51-12.

**Horizon:** Nura Nura Member, Poole Sandstone, Canning Basin.

**Age:** Sterlitamakian Substage, Late Sakmarian, Early Permian.

**CPC 4011:** Figured Paratype A (external mould) -- DICKINS, 1963, pp. 129-130, Pl. 24, fig. 3. DICKINS & SKWARKO, 1993B, microfiche 7, Gastropods pp. 10-11.

**Locality, horizon and age** as for CPC 4010.

**CPC 4012:** Figured Paratype B (external mould) -- DICKINS, 1963, pp. 129-130, Pl. 24, fig. 2. DICKINS & SKWARKO, 1993B, microfiche 7, Gastropods pp. 10-11.

**Locality, horizon and age** as for CPC 4010.

**CPC 4013:** Figured Paratype C (external mould) -- DICKINS, 1963, pp. 129-130, Pl. 24, fig. 4. DICKINS & SKWARKO, 1993B, microfiche 7, Gastropods pp. 10-11.

**Locality, horizon and age** as for CPC 4010.

***Teiichispira cornucopiae* GILBERT-TOMLINSON IN HILL, PLAYFORD & WOODS, 1969**

***Taxonomic note:***

Yu (1993, p. 447) has suggested that *T. cornucopiae* "is possibly conspecific with" *T. kobayashi* Yochelson & Jones, 1968. In view of the uncertainty expressed in the text (but not in the synonymy list, nor in Table 1), this possibility is followed no further here.

**CPC 11296: HOLOTYPE** (operculum) -- HILL, PLAYFORD & WOODS, 1969, p. o.2, Pl. OI, fig. 12. GILBERT-TOMLINSON, 1973, pp. 79-85, Text-figs 2b & 6 (in part), Pl. 29, figs 1-11, Pl. 34, fig.3.

**Locality:** G317 - prominent ridge east of the Toko Range, between Linda and Wheelamen Creeks 19.6 km east of Toko Waterhole, Queensland, Australia. 22.7925°S, 138.2083°E. GLENORMISTON 1:250,000 sheet SF54-9.

**Horizon:** Coolibah Formation, Georgina Basin.

**Age:** Arenig, Early Ordovician.

**CPC 11297: Figured Paratype** (operculum) -- GILBERT-TOMLINSON, 1973, pp. 79-85, Text-fig. 2b (partim), Pl. 30, figs 1-2, 4-8.

**Locality, horizon, and age** as for CPC 11296.

**CPC 11298: Figured Paratype** (operculum) -- GILBERT-TOMLINSON, 1973, pp. 79-85, Pl. 30, fig. 3.

**Locality, horizon, and age** as for CPC 11296.

**CPC 11299: Figured Paratype** (operculum) -- GILBERT-TOMLINSON, 1973, pp. 79-85, Pl. 30, fig. 9.

**Locality, horizon, and age** as for CPC 11296.

**CPC 11300: Figured Paratype** (operculum) -- GILBERT-TOMLINSON, 1973, pp. 79-85, Text-fig. 2b (part), Pl. 31, figs 1-9.

**Locality:** G321 - prominent ridge just east of the Toko Range and just north of Linda Creek, 12.9 km northeast of Toko Waterhole, 4.8 km west of Broken Dam, western Queensland, Australia. 138.107°E, 22.729°S. GLENORMISTON 1:250,000 sheet SF54-9.

**Horizon and age** as for CPC 11296.

**CPC 11301: Figured Paratype** (operculum) -- GILBERT-TOMLINSON, 1973, pp. 79-85, Text-fig. 2b (part), Pl. 32, figs 1-7.

**Locality:** W271 - low rise to the west of the Trooma Range on the southwestern side of the Toko Range, 4.8 km east of Cravens Peak, about 21 km east of Lignum Dam, Queensland, Australia. 23.2917°S, 138.0917°E. MOUNT WHELAN 1:250,000 sheet SF54-13.

**Horizon and age** as for CPC 11296.

**CPC 11302: Figured Paratype** (sectioned operculum) -- GILBERT-TOMLINSON, 1973, pp. 79-85, Text-figs 5 D-E, Pl. 34, fig. 4.

**Locality:** T2 - yard east of the track from No. 7 Bore to No. 8 Dam, 16.4 km south-southwest of No. 7 Bore, Toko Range, Northern Territory, Australia. 22.668°S, 137.702°E. TOBERMORY 1:250,000 sheet SF53-12.

**Horizon and age** as for CPC 11296.

**CPC 11303: Figured Paratype** (operculum) -- GILBERT-TOMLINSON, 1973, pp. 79-85, Pl. 34, figs 1, 6.

**Locality, horizon, and age** as for CPC 11302.

**CPC 11304: Figured Paratype** (sectioned operculum) -- GILBERT-TOMLINSON, 1973, pp. 79-85, Text-fig. 5C, Pl. 33, fig. 8.

**Locality, horizon, and age** as for CPC 11302.

**CPC 11305: Figured Paratype** (operculum) -- GILBERT-TOMLINSON, 1973, pp. 79-85, Pl. 32, fig. 9.

**Locality:** T101 - in creek about 500 m east of track, 7.5 km south from Kelly Creek Bore, Toko Range, Northern Territory, Australia. 22.654°S, 137.944°E. TOBERMORY 1:250,000 sheet SF53-12.

**Horizon and age** as for CPC 11296.

**CPC 11306: Figured Paratype** (operculum) -- GILBERT-TOMLINSON, 1973, pp. 79-85, Pl. 32, fig. 11.

**Locality:** T213 - 4.8 km west of Halfway Dam, Northern Territory, Australia. TOBERMORY 1:250,000 sheet SF53-12.

**Horizon:** Coolibah Formation, Georgina Basin (incorrectly plotted on maps as in the Kelly Creek Formation).

**Age:** Arenig, Early Ordovician.

**CPC 11307:** Figured Paratype (sectioned operculum) -- GILBERT-TOMLINSON, 1973, pp. 79-85, Text-fig. 5A, Pl. 32, fig. 8.

**Locality, horizon, and age** as for CPC 11306.

**CPC 11308:** Figured Paratype (sectioned operculum) -- GILBERT-TOMLINSON, 1973, pp. 79-85, Text-fig. 5B, Pl. 32, fig. 10, Pl. 34, figs 2, 5.

**Locality, horizon, and age** as for CPC 11306.

**CPC 11311:** Figured specimen (hyperstrophic shell) -- HILL, PLAYFORD & WOODS, 1969, p. o.2, Pl. OI, fig. 13. GILBERT-TOMLINSON, 1973, pp. 79-85, Text-figs 2a, 6 (part), Pl. 33, figs 1-4, 6-7, 9.

**Locality:** Frome Broken Hill locality G41654 - about (0.8 km) south of Halfway Dam, Northern Territory, Australia. TOBERMORY 1:250,000 sheet SF53-12.

**Horizon and age** as for CPC 11296.

**CPC 11312:** Paratype (operculum) -- GILBERT-TOMLINSON, 1973, pp. 79-85.

**Locality:** T436 - at head of creek just west of track junction, ½ mile (0.8 km) southwest of locality T2, about 17 km south-southwest of No. 7 Bore on the track to Coolibah Yard, Northern Territory, Australia. 22.673°S, 137.721°E. TOBERMORY 1:250,000 sheet SF53-12.

**Horizon and age** as for CPC 11296.

### ***Teiichispira* sp. indet. GILBERT-TOMLINSON, 1973**

**CPC 11309:** Figured specimen (sectioned operculum) -- GILBERT-TOMLINSON, 1973, pp. 79-85, Pl. 33, fig. 10.

**Locality:** Kog410 - Gap Creek, "Christmas Creek" Station, Western Australia. 18.5833°S, 125.9167°E. NOONKANBAH 1:250,000 sheet SE51-12.

**Horizon:** About 175 m below the top of Ordovician sequence, Emanuel Formation, Prices Creek Group, Lennard Shelf, Canning Basin.

**Age:** Arenig, Early Ordovician.

**CPC 11310:** Figured specimen (sectioned) -- GILBERT-TOMLINSON, 1973, pp. 79-85, Pl. 33, fig. 5.

**Locality, horizon, and age** as for CPC 11309.

### ***Tropidodiscus* sp. b ÖPIK, 1953**

**CPC 670:** Figured specimen -- ÖPIK, 1953, p. 19, Pl. 6, figs. 44-46.

**Locality:** Heathcote district, 105 km north of Melbourne, Victoria, Australia.

**Horizon:** "Illaenus Band", Wapentake Formation, Melbourne Trough.

**Age:** Telychian, late Llandovery, Early Silurian.

### ***Warthia intermedia* DICKINS, 1963**

**CPC 3979: HOLOTYPE** (steinkern) -- DICKINS, 1963, pp. 109-110, Pl. 21, figs 17-19. DICKINS & SKWARKO, 1993B, microfiche 7, Gastropods pp. 2-3, Pl. 56, figs 1-3.

**Locality:** KNuA1 - 1.6 miles (2.6 km) southwest of "Paradise" homestead, Nura Nura Ridge area, Western Australia. 18.0417°S, 124.5167°E. NOONKANBAH 1:250,000 sheet SE51-12.

**Horizon:** Nura Nura Member, Poole Sandstone, Canning Basin.

**Age:** Sterlitamakian Substage, Late Sakmarian, Early Permian.

**CPC 3980:** Figured Paratype A (steinkern) -- DICKINS, 1963, pp. 109-110, Pl. 21, fig. 12. DICKINS & SKWARKO, 1993B, microfiche 7, Gastropods pp. 2-3.

**Locality, horizon and age** as for CPC 3979.

**CPC 3981:** Figured Paratype B (steinkern) -- DICKINS, 1963, pp. 109-110, Pl. 21, figs 13-14. DICKINS & SKWARKO, 1993B, microfiche 7, Gastropods pp. 2-3.

**Locality, horizon and age** as for CPC 3979.

**CPC 3982:** Figured Paratype C (steinkern) -- DICKINS, 1963, pp. 109-110, Pl. 21, figs 15-16. DICKINS & SKWARKO, 1993B, microfiche 7, Gastropods pp. 2-3.  
**Locality, horizon and age** as for CPC 3979.

### ***Warthia intermedia* DICKINS, 1963?**

**CPC 3983:** Figured specimen -- DICKINS, 1963, p. 109-110, Pl. 21, figs 10-11. DICKINS & SKWARKO, 1993B, microfiche 7, Gastropods pp. 2-3.

**Locality:** SG120A - 16 miles (25.7 km) at 120° (true) from Mount Tuckfield, southern Saint George Range, Western Australia. 18.806°S, 125.314°E. NOONKANBAH 1:250,000 sheet SE51-12.

**Horizon:** Near the base of the Poole Sandstone, Canning Basin.

**Age:** Aktastinian Substage, Artinskian, Early Permian.

### ***Warthia* sp. cf. *micromphala* (MORRIS, 1845)**

**CPC 3984:** Figured specimen -- DICKINS, 1963, p.109, Pl. 22, figs 9-11. DICKINS & SKWARKO, 1993B, microfiche 7, Gastropods p. 3, Pl. 56, figs 4-5.

**Locality:** FL178 - an uncertain locality in the Dry Corner Syncline, Western Australia.

**Horizon:** Hardman Formation, Liveringa Group, Canning Basin - formerly specified as "within 300 ft [91 m] of top of" Upper Liveringa Beds.

**Age:** Dzhulfian Substage, Tartarian, Late Permian.

**CPC 3985:** Figured specimen -- DICKINS, 1963, p. 109, Pl. 22, fig. 12. DICKINS & SKWARKO, 1993B, microfiche 7, Gastropods p. 3.

**Locality:** FL81 - 3.25 miles (5.23 km) at 131° (true) from Sandfly Yard, 1.5 miles (2.4 km) at 342° (true) from Victory Bore, "Luluigui" Station, Western Australia. MOUNT ANDERSON 1:250,000 sheet SE51-11.

**Horizon:** Lightjack Formation, Liveringa Group, Canning Basin.

**Age:** Kungurian, Early Permian.

### ***Warthia perspecta* FLETCHER, 1958**

**CPC 25277:** Figured specimen (internal mould) -- DICKINS, 1989, p. 74, Pl. 2, figs 1-3.

**Locality:** MC803 - 4 km north-northwest of "Blenheim" homestead, Queensland, Australia. MOUNT COOLON 1:250,000 sheet SF55-7.

**Horizon:** Upper Blenheim Subgroup, Back Creek Group, Bowen Basin.

**Age:** *Martiniopsis havilensis* Zone, Kazanian, Late Permian. Dickins' Fauna IV.

**CPC 25278:** Figured specimen (internal mould) -- DICKINS, 1989, p. 74, Pl. 2, figs 4-6.

**Locality, horizon, and age** as for CPC 25277.

## Class Bivalvia

### *Acanthopecten?* sp. DICKINS, 1963

**CPC 3926:** Figured specimen (incomplete external mould) -- DICKINS, 1963, pp. 86-87, Pl. 13, fig. 6. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves p. 21, Pl. 47, fig. 11.

**Locality:** WB266 - 30 miles (48 km) west-northwest of "Curbur" homestead, Western Australia. 26.3667°S, 115.4167°E. YARINGA 1:250,000 sheet SG50-9.

**Horizon:** Callytharra Formation, Carnarvon Basin.

**Age:** Sakmarian, Early Permian.

**CPC 3927:** Figured specimen (incomplete internal mould of left valve) -- DICKINS, 1963, pp. 86-87, Pl. 13, fig. 5. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves p. 21, Pl. 47, fig. 10.

**Locality:** Oil search 8, Callytharra, Wooramel River, Western Australia.

**Horizon and age** as for CPC 3926; initially registered as F 6743.

### *Allorisma?* sp. nov. DICKINS, 1956

*See Vacunella? sp. nov. Dickins*

Transferred to *Vacunella?* by Dickins & Skwarko, 1993A (microfiche 6, Bivalves p. 52).

### *Alococoncha crassatellaeformis* (TATE, 1896)

**CPC 15485:** Figured specimen, type species (internal and external moulds of left valve) -- POJETA & GILBERT-TOMLINSON, 1977, p. 10, Pl. 2, figs 1-2.

**Locality:** NT639 - float from the sandstone cap of a mesa on the lower slopes at the western end of Mount Watt, 38 km west-southwest of the Horseshoe Bend on the Finke River, Northern Territory, Australia. 25.33°S, 133.888°E. FINKE 1:250,000 sheet SG53-6.

**Horizon:** Stairway Sandstone, Amadeus Basin.

**Age:** Early Darriwilian, Ordovician.

**CPC 15486:** Figured specimen, type species (incomplete internal mould) -- POJETA & GILBERT-TOMLINSON, 1977, p. 10, Pl. 2, fig. 3.

**Locality, horizon, and age** as for CPC 15485.

**CPC 15487:** Figured specimen, type species (external mould of left valve) -- POJETA & GILBERT-TOMLINSON, 1977, p. 10, Pl. 2, fig. 4.

**Locality, horizon, and age** as for CPC 15485.

**CPC 15488:** Figured specimen, type species (internal mould of right valve) -- POJETA & GILBERT-TOMLINSON, 1977, p. 10, Pl. 2, figs 5-6.

**Locality, horizon, and age** as for CPC 15485.

**CPC 15489:** Figured specimen, type species (internal mould of right valve) -- POJETA & GILBERT-TOMLINSON, 1977, p. 10, Pl. 2, fig. 8.

**Locality, horizon, and age** as for CPC 15485.

**CPC 15490:** Figured specimen, type species (external mould of right valve) -- POJETA & GILBERT-TOMLINSON, 1977, p. 10, Pl. 2, fig. 9.

**Locality, horizon, and age** as for CPC 15485.

### Ambonychiidae, genus B sp. A POJETA & GILBERT-TOMLINSON, 1977

**CPC 15561:** Figured specimen (internal mould of left valve) -- POJETA & GILBERT-TOMLINSON, 1977, p. 25, Pl. 19, fig. 4.

**Locality:** Rd231 - Measured section RdC1, Northern Territory, Australia; published as 32 km southwest of Mount

Charlotte, but the quoted coordinates (used here to determine latitude and longitude) place it 37.5 km southwest, in the Charlotte Range. 24.8538°S, 133.6853°E. RODINGA 1:250,000 sheet SG53-2.

**Horizon:** Stairway Sandstone, Amadeus Basin.

**Age:** Middle Darriwilian, Ordovician.

### ***Astartella obliqua* DICKINS, 1963**

**CPC 3959:** Figured Paratype A (left valve) -- DICKINS, 1963, pp. 104-105, Text-fig. 13A; Pl. 16, figs 7-8. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves pp. 38-9.

**Locality:** PB7 - Carynginia Gully, about ½ mile (0.8 km) at 334° (true) from Carynginia No. 1 Well, Irwin River area east of Geraldton, Western Australia. 28.924°S, 115.072°E. YALGOO 1:250,000 sheet SH50-2.

**Horizon:** Cited as "Fossil Cliff Formation": Fossil Cliff Member?, Holmwood Shale, Perth Basin, Irwin Sub-basin -- plots within undifferentiated Holmwood Shale on the 1977 map.

**Age:** Sakmarian, Early Permian.

**CPC 3960:** Figured Paratype B (left valve) -- DICKINS, 1963, pp. 104-105, Text-fig. 13A; Pl. 16, fig. 2. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves pp. 38-9.

**Locality:** KPA54 - 16 miles (25.7 km) at 120° (true) from Mount Tuckfield, southern Saint George Range, Western Australia. 18.806°S, 125.314°E. NOONKANBAH 1:250,000 sheet SE51-12.

**Horizon:** Near the base of the Poole Sandstone, Canning Basin.

**Age:** Aktastinian Substage, Artinskian, Early Permian.

**CPC 3961:** Figured Paratype C (right valve) -- DICKINS, 1963, pp. 104-105, Pl. 16, fig. 9. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves pp. 38-9.

**Locality, horizon, and age** as for CPC 3960.

### ***Astartella* sp. cf. *obliqua* DICKINS, 1963**

**CPC 20158:** Figured specimen -- DICKINS, 1981, p. 29, Pl. 2, fig. 1.

**Locality:** TH411 - 3 km northeast of Silverwood railway siding, south of Warwick, southeastern Queensland, Australia. 28.3393°S, 152.0439°E. WARWICK 1:250,000 sheet SH56-2.

**Horizon:** Eight Mile Creek beds.

**Age:** Baigendzhinian Substage, Artinskian, Early Permian.

**CPC 20159:** Figured specimen -- DICKINS, 1981, p. 29, Pl. 2, fig. 2.

**Locality:** TH199 - 3 km northeast of Silverwood railway siding, south of Warwick, southeastern Queensland, Australia. 28.3309°S, 152.0237°E. WARWICK 1:250,000 sheet SH56-2.

**Horizon:** Rhyolite Range beds.

**Age:** Baigendzhinian Substage, Artinskian, Early Permian.

**CPC 20160:** Figured specimen -- DICKINS, 1981, p. 29, Pl. 2, fig. 4.

**Locality, horizon, and age** as for CPC 20158.

**CPC 20161:** Figured specimen -- DICKINS, 1981, p. 29, Pl. 2, fig. 3.

**Locality:** TH198 - 4 km east-northeast of Silverwood railway siding, south of Warwick, southeastern Queensland, Australia. 28.3375°S, 152.0490°E. WARWICK 1:250,000 sheet SH56-2.

**Horizon and age** as for CPC 20158.

### ***Astartella* sp. HILL & WOODS, 1964**

**CPC 5182:** Figured specimen (right valve) -- HILL & WOODS, 1964, Pl. PXII, fig. 8. HILL, PLAYFORD & WOODS, 1972, Pl. PXII, fig. 8.

**Locality:** B686 - in the headwaters of the Bowen River, 1.8 km east-northeast of "Exmoor" homestead, central Queensland, Australia. 20.945°S, 148.142°E. BOWEN 1:250,000 sheet SF55-3.

**Horizon:** Tiverton Subgroup, Back Creek Group, Bowen Basin.

**Age:** Artinskian, Early Permian.

## **Astartidae, gen. et sp. nov. HILL & WOODS, 1964**

### **See *Pleurikodonta elegans***

CPC 5183, figured by Hill & Woods, 1964, was made type of the new species and subgenus *Astartila* (*Pleurikodonta*) *elegans* by Runnegar, 1965. Runnegar in 1966 treated *Pleurikodonta* as a distinct genus.

## ***Astartila condoni* DICKINS, 1957**

**CPC 2212: HOLOTYPE** (internal mould of left valve) -- DICKINS, 1957, pp. 23-24, Pl. III, figs 9-10. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves p. 46, Pl. 48, fig. 25.

**Locality:** WB2 - on the south side of the Wooramel River about 1 mile (1.6 km) west of Callytharra Spring, "Byro" Station, Western Australia. 25.871°S, 115.494°E. Grid reference LS 490371, CALLYTHARRA 1:100,000 sheet 1946; WOORAMEL 1:250,000 sheet SG50-5.

**Horizon:** Carrandibby Formation, Canarvon Basin.

**Age:** Tastubian Substage, Sakmarian, Early Permian.

**CPC 2213: Paratype A** (incomplete internal mould of left valve) -- DICKINS, 1957, pp. 23-24, Pl. III, fig. 11. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves p. 46. Initially registered as F 17203.

**Locality:** 1949/63 - 3 miles west of "Moogooree" Homestead (F register entry gives the locality as "1.4 miles east of Callytharra outcrop, old road from Donnelly's Well to Moogooree Homestead"), Western Australia. 24.065°S, 115.162°E. Grid reference approximately LU 131375, MOUNT SANDIMAN 1:100,000 sheet 1949; KENNEDY RANGE 1:250,000 sheet SG50-1.

**Horizon:** 1250 ft (381 m) below the top of the Lyons Group where it is about 1070 m thick; Canarvon Basin.

**Age:** Asselian, Early Permian.

**CPC 2214: Figured Paratype B** (internal mould and fragmentary external mould, worn right valve) -- DICKINS, 1957, pp. 23-24, Pl. III, figs 7-8. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves p. 46. Initially registered as F 17203.

**Locality, horizon, and age** as for CPC 2213.

## ***Astartila fletcheri* DICKINS, 1956**

**CPC 750: HOLOTYPE** (partly decorticated shell) -- DICKINS, 1956, pp. 17-19, Text-fig. 1, Pl. II, figs 3-5. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves pp. 46-7, Pl. 48, fig. 26. Initially registered as F 17083.

**Locality:** ¾ mile (1.2 km) southeast of Southern Cross Bore, "Middalya" Station, Western Australia. KENNEDY RANGE 1:250,000 sheet SG50-1.

**Horizon:** Coolkilya Greywacke, Kennedy Group, Canarvon Basin.

**Age:** Kungurian, Early Permian.

**CPC 751: Figured Paratype** (complete shell) -- DICKINS, 1956, pp. 17-19, Pl. II, figs 6-7. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves pp. 46-7. Initially registered as F 17083.

**Locality, horizon, and age** as for CPC 750.

**CPC 752: Figured Paratype** (internal mould of left valve) -- DICKINS, 1956, pp. 17-19, Pl. II, fig. 8. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves pp. 46-7. Initially registered as F 17083.

**Locality, horizon, and age** as for CPC 750.

**CPC 753: Figured Paratype** (external mould of right valve) -- DICKINS, 1956, pp. 17-19, Pl. II, fig. 9. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves pp. 17, 46-7, Pl. 48, fig. 24. Initially registered as F 17083.

**Locality, horizon, and age** as for CPC 750.

## ***Astartila?* sp. cf. *gryphoides* (DE KONINCK)**

### **See *Megadesmus* (*Megadesmus*) *gryphoides***

The specimen tentatively referred to this species, as an *Astartila*, by Hill & Woods, 1964, was definitely included in the species, now referred to *Megadesmus*, by Hill, Playford & Woods, 1972.

## ***Astartila? obscura* DICKINS, 1957**

*Runnegar (1967, p. 26) suggested that this species is a Megadesmus, but did not make a formal reclassification.*

**CPC 2215: HOLOTYPE** (worn steinkern) -- DICKINS, 1957, pp. 25-26, Pl. III, figs 2-5. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves p. 47, Pl. 48, fig. 27.

**Locality:** WB2 - on the south side of the Wooramel River about 1 mile (1.6 km) west of Callytharra Spring, "Byro" Station, Western Australia. 25.871°S, 115.494°E. Grid reference LS 490371, CALLYTHARRA 1:100,000 sheet 1946; WOORAMEL 1:250,000 sheet SG50-5.

**Horizon:** Carrandibby Formation, Canarvon Basin.

**Age:** Tastubian Substage, Sakmarian, Early Permian.

**CPC 2216:** Figured Paratype A (internal mould of worn left valve) -- DICKINS, 1957, pp. 25-26, Pl. III, fig. 1. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves p. 47.

**Locality, horizon, and age** as for CPC 2215.

**CPC 2217:** Figured Paratype B (internal mould of incomplete left valve) -- DICKINS, 1957, pp. 25-26, Pl. III, fig. 6. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves p. 47.

**Locality, horizon, and age** as for CPC 2215.

## ***Astartila (Astartila) intrepida* DANA, 1847**

**CPC 6148:** Figured specimen -- RUNNEGAR, 1965, pp. 245-247, Pl. 15, fig. 14.

**Locality:** CL12/1 - on the east side of Cherwell Creek 4.25 km south of "Mount Lebanon" homestead, north-northwest of Clermont, Queensland, Australia. 22.257°S, 147.974°E. CLERMONT 1:250,000 sheet SF55-11.

**Horizon:** Bivalve bed about 20 ft (6 m) above the *Strophalosia clarkei* Bed, Blenheim Subgroup, Bowen Basin.

**Age:** Ufimian, early Late Permian.

**CPC 6803:** Figured specimen (internal mould) -- RUNNEGAR, 1965, pp. 245-247, Pl. 15, figs 8-10.

**Locality:** Locality "Collinsville 1a" - Corduroy Creek, 1.2 miles (1.9 km) southeast of the railway viaduct, Collinsville district, Queensland, Australia.

**Horizon:** Blenheim Subgroup, Back Creek Group, Bowen Basin.

**Age:** Ufimian to Kazanian, early Late Permian.

**CPC 6804:** Figured specimen (external mould of left valve) -- RUNNEGAR, 1965, pp. 245-247, Pl. 15, fig. 11.

**Locality:** CL122 - immediately above the basal unconformity of Unit C, 8 miles (12.9 km) southwest of "Mount Lebanon" homestead, Queensland, Australia. CLERMONT 1:250,000 sheet SF55-11.

**Horizon and age** as for CPC 6803.

**CPC 6805:** Figured specimen (external mould of crushed right valve) -- RUNNEGAR, 1965, pp. 245-247, Pl. 15, fig. 12.

**Locality, horizon, and age** as for CPC 6148.

**CPC 6806:** Figured specimen (internal mould) -- RUNNEGAR, 1965, pp. 245-247, Pl. 15, fig. 13.

**Locality:** B270a - near "Exmoor" homestead, 33 miles (53 km) southeast of Collinsville, Queensland, Australia. 20.950°S, 148.133°E. BOWEN 1:250,000 sheet SF55-3.

**Horizon:** Near the *Strophalosia pelicanensis* Bed in the Blenheim Subgroup, Back Creek Group, Bowen Basin.

**Age:** Ufimian to Kazanian, early Late Permian.

## ***Astartila (Pleurikodonta) elegans* RUNNEGAR, 1965**

*See Pleurikodonta elegans*

Runnegar erected his new subgenus in 1965, and considered it a distinct genus in 1966.

## ***Atomodesma exaratum* BEYRICH, 1864**

*Runnegar, 1969A, correctly spells the specific name exaratum, not 'exarata' as used by Dickins, 1956.*

**CPC 755:** Figured specimen (external mould of right valve) -- DICKINS, 1956, pp. 23-25, Pl. IV, fig. 5. Initially registered as F 17080.

**Locality:** ¾ mile (1.2 km) southeast of Southern Cross Bore, "Middalya" Station, Western Australia. KENNEDY RANGE 1:250,000 sheet SG50-1.

**Horizon:** Coolkilya Greywacke, Kennedy Group, Carnarvon Basin.

**Age:** Kungurian, Early Permian.

**CPC 1310:** Figured specimen (steinkern) -- DICKINS, 1956, pp. 23-25, Pl. IV, figs 2-4. Initially registered as F 17078.

**Locality:** 5/8 mile (1 km) northwest of Muderong Bore, "Middalya" Station, Western Australia.

**Horizon and age** as for CPC 755.

**Remarks:** Destroyed in the 1953 BMR fire.

**CPC 9932:** Figured specimen -- RUNNEGAR, 1969A, Pl. 1, fig. 14.

**Locality:** Sp383/3 - 7.1 km at 344° from "Croydon Hills" homestead, southeast of Orion Creek 3.6 km southwest of the Dawson Highway, Queensland, Australia. 24.297°S, 148.272°E. SPRINGSURE 1:250,000 sheet SG55-3.

**Horizon:** Catherine Sandstone, Bowen Basin.

**Age:** Kungurian to Ufimian, Permian.

### ***Atomodesma* sp. DICKINS, 1989**

**CPC 25267:** Figured specimen (incomplete right valve) -- DICKINS, 1989, pp. 68-69, Pl. 1, fig. 19.

**Locality:** UDC1 - at fence about 4 km northeast of "Lyra Park" homestead, Queensland, Australia. DUARINGA 1:250,000 sheet SF55-16.

**Horizon:** MacMillan Formation, Blenheim Subgroup, Back Creek Group, Bowen Basin.

**Age:** *Martiniopsis havilensis* Zone, Kazanian, Late Permian. Dickins' Fauna IV.

### ***Atomodesma (Atomodesma) mytiloides* BEYRICH, 1864**

**CPC 3905:** Figured specimen (internal mould of right valve) -- DICKINS, 1963, pp. 67-68, Pl. 9, figs 1-4. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves pp. 17-18, Pl. 46, fig. 21.

**Locality:** G202 - on a crest at the base of a ridge (probably hill 224) 5.9 miles (9.45 km) at 335° (true) from "Lyons River" homestead, Western Australia. 24.5553°S, 115.2975°E. Grid reference LT 276831, LYONS RIVER 1:100,000 sheet 1948; KENNEDY RANGE 1:250,000 sheet SG50-1.

**Horizon:** Local exposed top of the Callytharra Formation, Carnarvon Basin.

**Age:** Sakmarian, Early Permian.

**CPC 3906:** Figured specimen (internal mould of left valve) -- DICKINS, 1963, pp. 67-68, Pl. 9, fig. 9. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves pp. 17-18, Pl. 46, fig. 22.

**Locality:** WB266 - 30 miles (48 km) west-northwest of "Curbur" homestead, Western Australia. 26.3667°S, 115.4167°E. YARINGA 1:250,000 sheet SG50-9.

**Horizon:** Callytharra Formation, Carnarvon Basin.

**Age:** Sakmarian, Early Permian.

**CPC 3907:** Figured specimen (internal mould of left valve) -- DICKINS, 1963, pp. 67-68, Pl. 9, fig. 7. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves pp. 17-18.

**Locality:** SG120A - 16 miles (25.7 km) at 120° (true) from Mount Tuckfield, southern Saint George Range, Western Australia. 18.806°S, 125.314°E. NOONKANBAH 1:250,000 sheet SE51-12.

**Horizon:** Near the base of the Poole Sandstone, Canning Basin.

**Age:** Aktastinian Substage, Artinskian, Early Permian.

**CPC 3908:** Figured specimen (steinkern) -- DICKINS, 1963, pp. 67-68, Pl. 9, figs 5-6. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves pp. 17-18.

**Locality:** G269 - type section of the Coyne Formation, at the foot of the scarp 7.8 km southwest of "Moogooree" homestead, 8.9 km east-southeast of Donnelly's Well, Western Australia. Grid reference LU 121324, MOUNT SANDIMAN 1:100,000 sheet 1949; KENNEDY RANGE 1:250,000 sheet SG50-1.

**Horizon:** 355 ft (108 m) above base of the Coyrie Formation, Byro Group, Carnarvon Basin.

**Age:** Baigendzhinian Substage, Artinskian, Early Permian.

***Atomodesma (Atomodesma) mytiloides* var. nov. DICKINS, 1963**

**CPC 3912:** Figured specimen (incomplete shell) -- DICKINS, 1963, p. 68, Pl. 10, figs 2-5. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves pp. 18-19.

**Locality:** ML82 - cited variously as - 1: measured section on the north bank of the Minilya River, in the Minilya Syncline about 1½ miles (2.4 km) southwest of Coolkilya Pool (23.7333°S, 114.4167°E), and 2: 1½ miles at 52° from Curdamurda Well, 2.6 miles (4.2 km) at 278° from Cundlego Well, "Wandagee" Station (23.7350°S, 114.4136°E), Western Australia. MINILYA 1:250,000 sheet SG49-16.

**Horizon:** 190 feet (58 m) above the base of the Wandagee Formation, Byro Group, Carnarvon Basin.

**Age:** Baigendzhinian Substage, Artinskian, Early Permian.

**CPC 3913:** Figured specimen (partly exposed worn shell) -- DICKINS, 1963, p. 68, Pl. 10, figs 8-9. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves pp. 18-19.

**Locality, horizon and age** as for CPC 3912.

**CPC 3914:** Figured specimen (incomplete gaping steinkern, fire-damaged) -- DICKINS, 1963, p. 68, Pl. 10, figs 6-7. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves pp. 18-19.

**Locality:** Locality unknown but probably in the "Wandagee" area, Western Australia.

**Horizon:** Wandagee Formation, Byro Group, Carnarvon Basin.

**Age:** Baigendzhinian Substage, Artinskian, Early Permian.

***Atomodesma (Atomodesma) sp. cf. timorensis* (WANNER, 1922)**

**CPC 3909:** Figured specimen (decorticated left valve) -- DICKINS, 1963, p. 69, Pl. 9, figs 10-12. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves p. 19, Pl. 46, fig. 29. Initially registered as F 1712.

**Locality:** Cited as 8 miles (12.9 km) east of "Lyons River" homestead, Gascoyne area, Western Australia. This plots at grid reference LT 444747, but if the locality lies on the road east from the homestead, the grid reference is LT 443761, LYONS RIVER 1:100,000 sheet 1948; KENNEDY RANGE 1:250,000 sheet SG50-1.

**Horizon:** Callytharra Formation, Carnarvon Basin.

**Age:** Sakmarian, Early Permian.

**CPC 3910:** Figured specimen (internal mould of left valve) -- DICKINS, 1963, p. 69, Pl. 9, fig.8. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves p. 19.

**Locality:** Apparently near Mount Wynne, Western Australia.

**Horizon:** Nura Nura Member, Poole Sandstone, Canning Basin.

**Age:** Sterlitamakian Substage, Late Sakmarian, Early Permian.

**CPC 3911:** Cited specimen (incomplete and mostly decorticated right valve) -- DICKINS, 1963, p. 69. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves p. 19. Initially registered as F 1712.

**Locality, horizon, and age** as for CPC 3909.

***Australomya sulcata* (RUNNEGAR, 1967)**

*See also Myonia? sulcata*

Originally described as *Myonia? sulcata*, and reassigned to his new genus *Australomya* by Runnegar, 1969B, p. 285.

**CPC 7509: HOLOTYPE** (steinkern) -- RUNNEGAR, 1967, pp. 59-61, Text-fig. 3A; Pl. 7, figs 1, 14. RUNNEGAR, 1969B, p. 285, Text-fig. 53Ac.

**Locality:** MC479 - about 1 km northwest of the "Turrawalla" - Eungella road crossing of Hazlewood Creek, about 5.8 km east-southeast of "Turrawalla", and about 500 m northeast of the creek, Queensland, Australia. 21.183°S, 148.295°E. MOUNT COOLON 1:250,000 sheet SF55-7.

**Horizon:** Upper Lizzie Creek Volcanics, Bowen Basin.

**Age:** Sterlitamakian Substage, Sakmarian, Early Permian.

**CPC 7510:** Figured Paratype (steinkern) -- RUNNEGAR, 1967, pp. 59-61, Pl. 7, figs 3-4. RUNNEGAR, 1969B, p. 285. RUNNEGAR, 1974, Pl. 1, fig. 13.

**Locality:** MC426 - Hazelwood Creek near the "Turrawalla" - Eungella road crossing, Mount Coolon district, Queensland, Australia. MOUNT COOLON 1:250,000 sheet SF55-7.

**Horizon:** Lizzie Creek Volcanics, Bowen Basin.

**Age:** Asselian to Sakmarian, Early Permian.

**CPC 7511:** Figured Paratype (steinkern) -- RUNNEGAR, 1967, pp. 59-61, Pl. 7, fig. 5. RUNNEGAR, 1969B, p. 285.

**Locality, horizon, and age** as for CPC 7510.

**CPC 7512:** Figured Paratype (steinkern) -- RUNNEGAR, 1967, p. 59-61, Pl. 7, figs 12-13. RUNNEGAR, 1969B, p. 285.

**Locality, horizon, and age** as for CPC 7510.

### ***Australomya* sp. nov. RUNNEGAR, 1969**

See also *Chaenomya* sp.

Runnegar, 1969B, considered *Chaenomya* sp. Dickins, 1963, to be a new, but still un-named, species of *Australomya*.

**CPC 3881:** Figured specimen (incomplete left valve) -- DICKINS, 1963, pp. 51-52, Pl. 8, fig. 14. RUNNEGAR, 1969B, pp. 285, 288, Text-fig. 53Ad. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves pp. 51-2, Pl. 49, fig. 2.

**Locality:** G202 - on a crest at the base of a ridge (probably hill 224) 5.9 miles (9.45 km) at 335° (true) from "Lyons River" homestead, Western Australia. 24.5553°S, 115.2975°E. Grid reference LT 276831, LYONS RIVER 1:100,000 sheet 1948; KENNEDY RANGE 1:250,000 sheet SG50-1.

**Horizon:** Local exposed top of the Callytharra Formation, Carnarvon Basin.

**Age:** Sterlitamakian Substage, Sakmarian, Early Permian.

**CPC 3882:** Figured specimen (incomplete external mould of disarticulated valves) -- DICKINS, 1963, pp. 51-52, Pl. 8, figs 15-16. RUNNEGAR, 1969B, pp. 285, 288. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves pp. 51-2.

**Locality:** W33C(1) - precise location uncertain, but close to KNUA1 - i.e. about 2.6 km southwest of "Paradise" homestead, Western Australia. 18.0417°S, 124.5167°E. NOONKANBAH 1:250,000 sheet SE51-12.

**Horizon:** Nura Nura Member, Poole Sandstone, Canning Basin.

**Age:** Sterlitamakian Substage, Sakmarian, Early Permian.

### ***Aviculopecten dawsonensis* RUNNEGAR & FERGUSON, 1969**

**CPC 8110:** Figured Paratype -- RUNNEGAR & FERGUSON, 1969, Pl. V, fig. 15.

**Locality:** Ba312 - 1.2 km east of the Kalewa - Duaringa road, 4.6 km north of Kalewa, 8.5 km northeast of Baralaba, Queensland, Australia. 24.124°S, 149.863°E. BARALABA 1:250,000 sheet SG55-4.

**Horizon:** Flat Top Formation, Bowen Basin.

**Age:** Ufimian to Kazanian, Late Permian.

**CPC 8111:** Figured Paratype (external mould, left valve) -- RUNNEGAR & FERGUSON, 1969, Pl. V, fig. 14.

**Locality:** D52 - on the north side of the Banana - Biloela road, about 6.5 km northeast of Banana, Queensland, Australia. Grid reference 310956, MONTO 1:250,000 sheet.

**Horizon and age** as for CPC 8110.

### ***Aviculopecten* sp. cf. *subquiquelineatus* (MCCOY, 1847)**

See *Aviculopecten* sp. nov. and *Etheripecten tenuicollis*?

Of the two specimens compared with *Aviculopecten subquiquelineatus* by Hill & Woods in 1964, in 1972 Hill, Playford & Woods tentatively referred one to *A. tenuicollis* (now *Etheripecten*), the other they considered to be an as yet un-named new species of *Aviculopecten*.

***Aviculopecten tenuicollis* (DANA, 1847)**

***See Etheripecten tenuicollis***

When described by Dickins, 1957, the author was wrongly given as McCoy. The species was transferred to *Etheripecten* by Dickins & Skwarko, 1993B.

***Aviculopecten tenuicollis* (DANA, 1847)?**

***See Etheripecten tenuicollis?*, and also *A. sp. cf. subquiquelineatus***

One of the specimens originally compared by Hill & Woods, 1964, with *Aviculopecten subquiquelineatus* was tentatively ascribed to *A. tenuicollis* by Hill, Playford & Woods, 1972; that species is now placed in *Etheripecten*.

***Aviculopecten* sp. nov. HILL, PLAYFORD & WOODS, 1972**

***See also A. sp. cf. subquiquelineatus***

**CPC 5176:** Figured specimen -- HILL & WOODS, 1964, Pl. PXI, fig. 14. HILL, PLAYFORD & WOODS, 1972, Pl. PXI, fig. 14.

**Locality:** Homevale E - ¼ mile (400 m) east of "Homevale" homestead, northwest of Nebo, Queensland, Australia. Approximately 21.45°S, 148.51°E. MACKAY 1:250,000 sheet SF55-8.

**Horizon:** Homevale beds, Bowen Basin.

**Age:** Artinskian, Early Permian.

***Aviculopecten?* sp. DICKINS, 1963**

***See Etheripecten?* sp. Dickins**

The specimen described by Dickins, 1963, was referred to *Etheripecten?* by Dickins & Skwarko, 1993A, microfiche 6, p. 22.

***Carbonicola minutissima* CHAPMAN & PARR, 1937**

*The holotype, CPC 2310, was re-examined by Tasch & Jones, 1979, who concluded that it was not a minute Permian bivalve, but a Triassic conchostracan.*

***Chaenomya?* nuraensis DICKINS, 1963**

***See also Chaenomya* sp. nov.**

**CPC 2223:** Figured specimen (shell and external mould) -- DICKINS, 1957, pp. 29-30, Pl. IV, figs 10-12. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves p. 51, Pl. 49, fig. 1.

**Locality:** WB62 - about 1 mile (1.6 km) west of Callytharra Spring, on the south side of the Wooramel River, "Byro" Station, Western Australia. 25.871°S, 115.494°E. Grid reference LS 490371, CALLYTHARRA 1:100,000 sheet 1946; WOORAMEL 1:250,000 sheet SG50-5.

**Horizon:** Carrandibby Formation, Carnarvon Basin.

**Age:** Tastubian Substage, Sakmian, Early Permian.

**Remarks:** *Chaenomya* sp. nov. of Dickins, 1957.

**CPC 3883: HOLOTYPE** (internal mould of left valve) -- DICKINS, 1963, pp. 52-53, Pl. 6, figs 10-12. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves p. 51.

**Locality:** W33C(1) - precise location uncertain, but close to KNUA1 - i.e. about 2.6 km southwest of "Paradise" homestead, Western Australia. 18.0417°S, 124.5167°E. NOONKANBAH 1:250,000 sheet SE51-12.

**Horizon:** Nura Nura Member, Poole Sandstone, Canning Basin.

**Age:** Sterlitamakian Substage, Late Sakmian, Early Permian.

**CPC 3884:** Figured Paratype (external mould of left valve) -- DICKINS, 1963, pp. 52-53, Pl. 6, figs 13-14. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves p. 51.

**Locality:** Locality uncertain - shown as "Nura Nura Ridge" on the label with the specimen. It is thus an approximate equivalent of KNUA1 - i.e. 2.6 km southwest of "Paradise" homestead, Kimberley district, Western Australia. 18.0417°S, 124.5167°E. NOONKANBAH 1:250,000 sheet SE51-12.

**Horizon and age** as for CPC 3883.

### ***Chaenomya* sp. nov. DICKINS, 1957**

See *Chaenomya? nuraensis*.

Dickins' 1957 specimen from the Carnarvon Basin was included by him in 1963 in his new Canning Basin species *Chaenomya? nuraensis*.

### ***Chaenomya* sp. DICKINS, 1963**

See *Australomya* sp. nov.

Dickins' specimen was referred to an unnamed new species of *Australomya* by Runnegar, 1969B.

### ***Colpantyx woolleyi* POJETA & GILBERT-TOMLINSON, 1977**

**CPC 15568:** Figured Paratype, type species (external mould of right valve) -- POJETA & GILBERT-TOMLINSON, 1977, p. 28, Pl. 24, fig. 1.

**Locality:** NT237A - near Pine Gap, "east of road, 12 km southwest of Alice Springs on the Owen Springs road", Northern Territory, Australia. 23.81°S, 133.74°E. ALICE SPRINGS 1:250,000 sheet SF53-14.

**Horizon:** Pacoota Sandstone, Amadeus Basin.

**Age:** Late Lancefieldian, Early Ordovician.

**CPC 15569:** Figured Paratype, type species (external mould of right valve) -- POJETA & GILBERT-TOMLINSON, 1977, p. 28, Pl. 24, fig. 2.

**Locality:** NT335 - sample 15 (float) in the Pine Gap section: 3.2 km east of Native Pine Gap, southwest of Alice Springs, Northern Territory, Australia. 23.808°S, 133.74°E. ALICE SPRINGS 1:250,000 sheet SF53-14.

**Horizon and age** as for CPC 15568.

**CPC 15570:** Figured Paratype, type species (external mould of left valve) -- POJETA & GILBERT-TOMLINSON, 1977, p. 28, Pl. 24, fig. 3.

**Locality:** NT237B - as CPC 15568.

**Horizon and age** as for CPC 15568.

**CPC 15571:** Figured Paratype, type species (external mould of left valve) -- POJETA & GILBERT-TOMLINSON, 1977, p. 28, Pl. 24, fig. 4.

**Locality:** Hy80 - strike valley 4 km south of Areyonga Native Settlement on the track to "Tempe Downs" homestead, Northern Territory, Australia. 24.106°S, 132.25°E. HENBURY 1:250,000 sheet SG53-1.

**Horizon and age** as for CPC 15568.

**CPC 15572:** Figured Paratype, type species (external mould of left valve) -- POJETA & GILBERT-TOMLINSON, 1977, p. 28, Pl. 24, fig. 5.

**Locality:** NT255 - Parkes Pass, south of Running Water Yard on the Finke River, Northern Territory, Australia. 24.342°S, 132.897°E. HENBURY 1:250,000 sheet SG53-1.

**Horizon and age** as for CPC 15568.

**CPC 15573:** Figured Paratype, type species (external mould of left valve) -- POJETA & GILBERT-TOMLINSON, 1977, p. 28, Pl. 24, fig. 6.

**Locality, horizon, and age** as for CPC 15568.

**CPC 15574:** Figured Paratype, type species (external mould of left valve) -- POJETA & GILBERT-TOMLINSON, 1977, p. 28, Pl. 24, fig. 7.

**Locality, horizon, and age** as for CPC 15571.

- CPC 15575:** Figured Paratype, type species (external mould of right valve) -- POJETA & GILBERT-TOMLINSON, 1977, p. 28, Pl. 24, fig. 8.  
**Locality, horizon, and age** as for CPC 15570.
- CPC 15576:** Figured Paratype, type species (internal mould of left valve) -- POJETA & GILBERT-TOMLINSON, 1977, p. 28, Pl. 24, fig. 9.  
**Locality:** NT237C - as for CPC 15568.  
**Horizon and age** as for CPC 15568.
- CPC 15577:** Figured Paratype, type species (external mould of right valve) -- POJETA & GILBERT-TOMLINSON, 1977, p. 28, Pl. 24, fig. 10.  
**Locality, horizon, and age** as for CPC 15572.
- CPC 15578:** Figured Paratype, type species (internal mould of right valve) -- POJETA & GILBERT-TOMLINSON, 1977, p. 28, Pl. 24, fig. 11.  
**Locality, horizon, and age** as for CPC 15570.
- CPC 15579:** Figured Paratype, type species (internal mould of right valve) -- POJETA & GILBERT-TOMLINSON, 1977, p. 28, Pl. 24, fig. 12.  
**Locality, horizon, and age** as for CPC 15572.
- CPC 15580: HOLOTYPE**, type species (internal mould of right valve) -- POJETA & GILBERT-TOMLINSON, 1977, p. 28, Pl. 24, figs 13-15.  
**Locality, horizon, and age** as for CPC 15572.
- CPC 15581:** Figured Paratype, type species (internal mould of left valve) -- POJETA & GILBERT-TOMLINSON, 1977, p. 28, Pl. 24, figs 16-17.  
**Locality, horizon, and age** as for CPC 15569.

### ***Copidens browni* POJETA & GILBERT-TOMLINSON, 1977**

- CPC 15593:** Figured Paratype, type species (internal mould of right valve) -- POJETA & GILBERT-TOMLINSON, 1977, p. 29, Pl. 28, fig. 2.  
**Locality:** H114 - about 1.6 km east of Mount Ultim, in the foothills of the Dulcie Plateau, Northern Territory, Australia. 22.4925°S, 135.9108°E. HUCKITTA 1:250,000 sheet SF53-11.  
**Horizon:** Nora Formation?, Georgina Basin.  
**Age:** Early Darriwilian, Ordovician.
- CPC 15594:** Figured Paratype, type species (incomplete internal mould of left valve) -- POJETA & GILBERT-TOMLINSON, 1977, p. 29, Pl. 28, figs 4-5.  
**Locality:** GEO 306/1-74 - Neeyamba Hill, Toko Range, Northern Territory, Australia. 22.9498°S, 138.3058°E. GLENORMISTON 1:250,000 sheet SF54-9.  
**Horizon:** Nora Formation, Georgina Basin.  
**Age:** Darriwilian, Ordovician.
- CPC 15595: HOLOTYPE**, type species (internal mould of right valve) -- POJETA & GILBERT-TOMLINSON, 1977, p. 29, Pl. 28, fig. 6.  
**Locality:** NT242 - Toko Range, 2.4 km southeast of No. 8 Dam, 8.3 km north of Coolibah Yard, Northern Territory, Australia. 22.7557°S, 137.7311°E. TOBERMORY 1:250,000 sheet SF53-12.  
**Horizon and age** as for CPC 15594.
- CPC 15596:** Figured Paratype, type species (internal mould of left valve) -- POJETA & GILBERT-TOMLINSON, 1977, p. 29, Pl. 28, fig. 8.  
**Locality, horizon, and age** as for CPC 15594.

### ***Cornellites catellus* JOHNSTON, 1993**

See also *Ptychopteria* (*Cornellites*) *sp. nov.*

*Cornellites* was treated as a subgenus of *Ptychopteria* by Johnston, 1991, and as a full genus by Johnston, 1993.

**CPC 29042:** Figured specimen (silicified left valve) -- JOHNSTON, 1991, p. 305, Fig. 8D. JOHNSTON, 1993, pp. 36-41, Fig. 26D.

**Locality:** Macquarie University Geology Department locality PB2: north-northwest-facing exposures on Patmore's property, about 2 km south-southeast of Good Hope, west of Yass, New South Wales, Australia. Grid reference FB 654321, YASS 1:100,000 sheet 8628.

**Horizon:** Warroo Limestone Member, Taemas Formation, Murrumbidgee Group, Lachlan Fold Belt.

**Age:** Emsian, Early Devonian.

**Remarks:** Published as CPC F24998 (originally registered as F 24998).

**CPC 30730:** Figured specimen (silicified articulated juvenile shell) -- JOHNSTON, 1993, pp. 36-41, Fig. 23E.

**Locality:** Macquarie University locality PB1: as for CPC 29042.

**Horizon and age** for CPC 29042.

**CPC 30731:** Cited specimen -- JOHNSTON, 1993, pp. 36-41.

**Locality, horizon, and age** as for CPC 29042.

**CPC 30732:** Figured specimen (silicified left valve) -- JOHNSTON, 1993, pp. 36-41, Fig. 25A.

**Locality, horizon, and age** as for CPC 29042.

### ***Cornellites talenti* JOHNSTON, 1993**

**CPC 30725:** Cited specimen -- JOHNSTON, 1993, p. 43.

**Locality:** Macquarie University locality 7 in "The Basin": about 11.5 km northeast of Buchan, and a few metres along strike from the locality "Slocombes", northern Victoria, Australia. BAIRNSDALE 1:250,000 sheet SJ55-7.

**Horizon:** Buchan Caves Limestone, Buchan Group, Lachlan Fold Belt.

**Age:** Emsian, Early Devonian.

**CPC 30726:** Figured specimen (silicified right valve) -- JOHNSTON, 1993, p. 43, Fig. 29E.

**Locality:** Macquarie University locality "Slocombes" in "The Basin", about 11.5 km northeast of Buchan, northern Victoria, Australia. BAIRNSDALE 1:250,000 sheet SJ55-7.

**Horizon and age** as for CPC 30725.

**CPC 30727:** Figured specimen (silicified right valve) -- JOHNSTON, 1993, p. 43, Fig. 29G.

**Locality, horizon, and age** as for CPC 30725.

**CPC 30728:** Cited specimen -- JOHNSTON, 1993, p. 43.

**Locality, horizon, and age** as for CPC 30726.

**CPC 30729:** Figured specimen (silicified articulated shell) -- JOHNSTON, 1993, p. 43, Fig. 29C.

**Locality:** Macquarie University locality "Receptaculites Box 2": 0.75 km south-southwest of Australian National University locality R6, on Patmore's property, about 4 km south-southeast of Good Hope, west of Yass, New South Wales, Australia. Grid reference FB 655307, YASS 1:100,000 sheet 8628.

**Horizon:** Receptaculites Limestone Member, Taemas Formation, Murrumbidgee Group, Lachlan Fold Belt.

**Age:** Emsian, Early Devonian.

### ***Cosmomya* (*Palaeocosmomya*) *sp. cf. teicherti* FLETCHER, 1946**

**CPC 6971:** Figured specimen (right valve) -- DICKINS & SHAH, 1965, Pl. 17, figs 5-7. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves p. 54.

**Locality:** ML55 - north bank of the Minilya River, on the eastern limb of the Minilya Syncline, east of Carnarvon, Western Australia. MINILYA 1:250,000 sheet SG49-16.

**Horizon:** 160 ft (49 m) above the base of the Quinlanie Shale, Carnarvon Basin.

**Age:** Baigendzhinian Substage, Artinskian, Early Permian.

## ***Cosmomya (Palaeocosmomya) sp. nov. DICKINS, 1963***

*See also Palaeocosmomya sp. nov.*

*Palaeocosmomya* was treated as a distinct genus by Dickins, 1963, but as a subgenus of *Cosmomya* by Dickins & Shah, 1965, and Dickins & Skwarko, 1993A.

**CPC 3893:** Figured specimen (internal mould, incomplete left valve) -- DICKINS, 1963, p. 56, Pl. 6, fig 22. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves p. 55.

**Locality:** KNuA1 - 1.6 miles (2.6 km) southwest of "Paradise" homestead, Nura Nura Ridge area, Western Australia. 18.0417°S, 124.5167°E. NOONKANBAH 1:250,000 sheet SE51-12.

**Horizon:** Nura Nura Member, Poole Sandstone, Canning Basin.

**Age:** Sterlitamakian Substage, Late Sakmarian, Early Permian.

## ***Crassatellopsis lenticularis* JOHNSTON, 1993**

**CPC 30788:** Cited specimen -- JOHNSTON, 1993, pp. 126-128.

**Locality:** Macquarie University locality PB: rubble at north-northwest facing exposures on Patmore's property, about 2 km south-southeast of Good Hope, New South Wales, Australia. Grid reference FB 654321, YASS 1:100,000 sheet 8628.

**Horizon:** Warroo Limestone Member, Taemas Formation, Murrumbidgee Group, Lachlan Fold Belt.

**Age:** Emsian, Early Devonian.

**CPC 30789:** Figured specimen (silicified left valve) -- JOHNSTON, 1993, pp. 126-128, Fig. 91D.

**Locality:** Macquarie University locality PB1: north-northwest facing exposures on Patmore's property, about 2 km south-southeast of Good Hope, New South Wales, Australia. Grid reference FB 654321, YASS 1:100,000 sheet 8628.

**Horizon and age** as for CPC 30788.

**CPC 30790-30792:** Cited specimens -- JOHNSTON, 1993, pp. 126-128.

**Locality, horizon, and age** as for CPC 30789.

**CPC 30793:** Figured specimen (silicified right valve) -- JOHNSTON, 1993, pp. 126-128, Fig. 91J.

**Locality:** Macquarie University locality "old Warroo" (= Australian National University locality R6): on Patmore's property, about 2 km south-southeast of Good Hope, west of Yass, New South Wales, Australia. Grid reference FB 655307, YASS 1:100,000 sheet 8628.

**Horizon and age** as for CPC 30788.

**CPC 30794:** Figured specimen (silicified left valve) -- JOHNSTON, 1993, pp. 126-128, Fig. 91H.

**Locality, horizon, and age** as for CPC 30793.

## ***Crassatellopsis lenticularis* JOHNSTON, 1993?**

**CPC 30771:** Cited specimen -- JOHNSTON, 1993, p. 126.

**Locality:** Macquarie University locality PB: rubble at north-northwest facing exposures on Patmore's property, about 2 km south-southeast of Good Hope, west of Yass, New South Wales, Australia. Grid reference FB 654321, YASS 1:100,000 sheet 8628.

**Horizon:** Warroo Limestone Member, Taemas Formation, Murrumbidgee Group, Lachlan Fold Belt.

**Age:** Emsian, Early Devonian.

## ***Crassatellopsis yongei* JOHNSTON, 1993**

**CPC 30768: HOLOTYPE** (silicified left valve) -- JOHNSTON, 1993, pp. 125-126, Figs 87A-B.

**Locality:** Macquarie University locality PB1: north-northwest facing exposures on Patmore's property, about 2 km south-southeast of Good Hope, New South Wales, Australia. Grid reference FB 654321, YASS 1:100,000 sheet 8628.

**Horizon:** Warroo Limestone Member, Taemas Formation, Murrumbidgee Group, Lachlan Fold Belt.

**Age:** Emsian, Early Devonian.

- CPC 30769:** Figured Paratype (silicified articulated shell) -- JOHNSTON, 1993, pp. 125-126, Figs 87D-E.  
**Locality:** Macquarie University locality PB: rubble at north-northwest facing exposures on Patmore's property, about 2 km south-southeast of Good Hope, New South Wales, Australia. Grid reference FB 654321, YASS 1:100,000 sheet 8628.  
**Horizon and age** as for CPC 30768.
- CPC 30770:** Paratype -- JOHNSTON, 1993, pp. 125-126.  
**Locality:** Macquarie University locality PB2: as PB1, see CPC 30768.  
**Horizon and age** as for CPC 30768.
- CPC 30772:** Figured Paratype (silicified umbonal fragment, left valve) -- JOHNSTON, 1993, pp. 125-126, Fig. 86B.  
**Locality, horizon, and age** as for CPC 30768.
- CPC 30773:** Figured Paratype (silicified fragmentary left valve) -- JOHNSTON, 1993, pp. 125-126, Fig. 89A.  
**Locality, horizon, and age** as for CPC 30769.
- CPC 30774, 30775:** Paratypes -- JOHNSTON, 1993, pp. 125-126.  
**Locality, horizon, and age** as for CPC 30770.
- CPC 30776:** Paratype -- JOHNSTON, 1993, pp. 125-126.  
**Locality, horizon, and age** as for CPC 30768.
- CPC 30777:** Figured Paratype (silicified fragmentary right valve) -- JOHNSTON, 1993, pp. 125-126, Fig. 86A.  
**Locality, horizon, and age** as for CPC 30769.
- CPC 30778:** Figured Paratype (silicified fragmentary right valve umbo) -- JOHNSTON, 1993, pp. 125-126, Fig. 89D.  
**Locality, horizon, and age** as for CPC 30769.
- CPC 30779:** Paratype -- JOHNSTON, 1993, pp. 125-126.  
**Locality, horizon, and age** as for CPC 30768.
- CPC 30780:** Cited specimen -- JOHNSTON, 1993, pp. 125-126.  
**Locality, horizon, and age** as for CPC 30768.
- CPC 30781:** Figured specimen -- JOHNSTON, 1993, pp. 125-126, Fig. 89C.  
**Locality, horizon, and age** as for CPC 30769.
- CPC 30782:** Figured specimen (silicified left valve) -- JOHNSTON, 1993, pp. 125-126, Fig. 89B.  
**Locality, horizon, and age** as for CPC 30769.
- CPC 30783:** Figured specimen (silicified right valve) -- JOHNSTON, 1993, pp. 125-126, Fig. 87F.  
**Locality, horizon, and age** as for CPC 30768.
- CPC 30784:** Cited specimen -- JOHNSTON, 1993, pp. 125-126.  
**Locality, horizon, and age** as for CPC 30768.
- CPC 30785:** Figured specimen (silicified right valve) -- JOHNSTON, 1993, pp. 125-126, Figs 87G-H.  
**Locality, horizon, and age** as for CPC 30769.
- CPC 30786:** Cited specimen -- JOHNSTON, 1993, pp. 125-126.  
**Locality, horizon, and age** as for CPC 30769.
- CPC 30787:** Figured specimen (silicified fragmentary left valve) -- JOHNSTON, 1993, pp. 125-126, Fig. 87C.  
**Locality, horizon, and age** as for CPC 30768.

### ***Ctenodonta chapmani* ÖPIK, 1953**

- CPC 664: HOLOTYPE** -- ÖPIK, 1953, p. 17, Pl. 6, fig. 37.  
**Locality:** Heathcote district, about 65 miles north of Melbourne, Victoria, Australia.

**Horizon:** "Illaenus Band", Wapentake Formation, Melbourne Trough.  
**Age:** Telychian, late Llandovery, Early Silurian.  
**Remarks:** The specimen is missing, presumably destroyed in the 1953 BMR fire.

### ***Ctenodonta youngi* POJETA & GILBERT-TOMLINSON, 1977**

**CPC 15491:** Figured Paratype (internal mould of left valve) -- POJETA & GILBERT-TOMLINSON, 1977, p. 9, Pl. 3, fig. 1.

**Locality:** Rd251 - 5 km northwest of Bloodwood Bore, in faulted syncline, Northern Territory, Australia. 24.4501°S, 133.8971°E. RODINGA 1:250,000 sheet SG53-2.

**Horizon:** Stairway Sandstone, Amadeus Basin.

**Age:** Early Darriwilian, Ordovician.

**CPC 15492:** Figured Paratype (internal mould of left valve) -- POJETA & GILBERT-TOMLINSON, 1977, p. 9, Pl. 3, fig. 2.

**Locality, horizon, and age** as for CPC 15491.

**CPC 15493:** Figured Paratype (internal mould of right valve) -- POJETA & GILBERT-TOMLINSON, 1977, p. 9, Pl. 3, fig. 3.

**Locality, horizon, and age** as for CPC 15491.

**CPC 15494: HOLOTYPE** (internal mould of right valve) -- POJETA & GILBERT-TOMLINSON, 1977, p. 9, Pl. 3, figs 4-5.

**Locality, horizon, and age** as for CPC 15491.

### ***Cypricardinia?* sp. cf. *gregaria* (ETHERIDGE, 1900)**

**CPC 5180:** Figured specimen (incomplete right valve) -- HILL & WOODS, 1964, Pl. PXII, fig. 4. HILL, PLAYFORD & WOODS, 1972, Pl. PXII, fig. 4.

**Locality:** B634 - east of Parrot Creek, 43.25 km south-southwest of Collinsville, Queensland, Australia. 20.9417°S, 147.6875°E. BOWEN 1:250,000 sheet SF55-3.

**Horizon:** Glendoo Member, Colinsville Coal Measures, Bowen Basin.

**Age:** Early Permian.

### ***Cypricardinia minima* JOHNSTON, 1993**

**CPC 30739:** Cited specimen -- JOHNSTON, 1993, pp. 90-92.

**Locality:** Macquarie University locality PB: rubble at north-northwest facing exposures on Patmore's property, about 2 km south-southeast of Good Hope, New South Wales, Australia. Grid reference FB 654321, YASS 1:100,000 sheet 8628.

**Horizon:** Warroo Limestone Member, Taemas Formation, Murrumbidgee Group, Lachlan Fold Belt.

**Age:** Emsian, Early Devonian.

**CPC 30740:** Cited specimen -- JOHNSTON, 1993, pp. 90-92.

**Locality:** Macquarie University locality "old Warroo" (= Australian National University locality R6): on Patmore's property, about 2 km south-southeast of Good Hope, west of Yass, New South Wales, Australia. Grid reference FB 655307, YASS 1:100,000 sheet 8628.

**Horizon and age** as for CPC 30739.

### ***Cypricardinia sinuosa* JOHNSTON, 1993**

**CPC 30737:** Figured specimen (silicified right valve) -- JOHNSTON, 1993, pp. 86-90, Fig. 61G.

**Locality:** Macquarie University locality PB: rubble at north-northwest facing exposures on Patmore's property, about 2 km south-southeast of Good Hope, New South Wales, Australia. Grid reference FB 654321, YASS 1:100,000 sheet 8628.

**Horizon:** Warroo Limestone Member, Taemas Formation, Murrumbidgee Group, Lachlan Fold Belt.

**Age:** Emsian, Early Devonian.

**CPC 30738:** Cited specimen -- JOHNSTON, 1993, pp. 86-90.

**Locality:** Macquarie University locality "Taemas Base Box" (= Australian National University locality R7): about 2 km northwest of Taemas Bridge, New South Wales, Australia. Grid reference FB 673265, YASS 1:100,000 sheet 8628.

**Horizon:** Receptaculites Limestone Member, Taemas Formation, Murrumbidgee Group, Lachlan Fold Belt.

**Age:** Emsian, Early Devonian.

### ***Cyrtodonta carberryi* POJETA & GILBERT-TOMLINSON, 1977**

**CPC 15547:** Figured Paratype (incomplete internal mould of left valve) -- POJETA & GILBERT-TOMLINSON, 1977, p. 20, Pl. 16, fig. 3.

**Locality:** ML47A - measured section W9, on the south flank of the anticline, Gardiner Range, Northern Territory, Australia. 23.8675°S, 131.7617°E. Grid reference 7813.3577, MOUNT LIEBIG 1:250,000 sheet SF52-16.

**Horizon:** 9 m below the top of the Stairway Sandstone, Amadeus Basin.

**Age:** Early Darriwilian, Ordovician.

**CPC 15548:** Figured Paratype (composite mould of right valve) -- POJETA & GILBERT-TOMLINSON, 1977, p. 20, Pl. 16, fig. 4.

**Locality, horizon, and age** as for CPC 15547.

**CPC 15549: HOLOTYPE** (composite mould of left valve) -- POJETA & GILBERT-TOMLINSON, 1977, p. 20, Pl. 16, fig. 5.

**Locality, horizon, and age** as for CPC 15547.

### ***Cyrtodonta hazeli* POJETA & GILBERT-TOMLINSON, 1977**

**CPC 15546: HOLOTYPE** (internal mould of right valve) -- POJETA & GILBERT-TOMLINSON, 1977, p. 20, Pl. 16, figs 1-2.

**Locality:** ML133(iii) - measured section R5, Idirriki Range, 10 km northeast of Haast Bluff, Northern Territory, Australia. 23.5969°S, 131.9247°E. Grid reference 7985.3873, MOUNT LIEBIG 1:250,000 sheet SF52-16.

**Horizon:** 304 m above the base of the Stairway Sandstone, Amadeus Basin.

**Age:** Early Darriwilian, Ordovician.

**CPC 15550:** Figured Paratype (composite mould of shell) -- POJETA & GILBERT-TOMLINSON, 1977, p. 20, Pl. 16, figs 6-7.

**Locality:** ML154/5 - measured section R7, on a low ridge in a valley, south limb of anticline, Gardiner Range, Northern Territory, Australia. 23.947°S, 131.969°E. MOUNT LIEBIG 1:250,000 sheet SF52-16.

**Horizon:** 127.6 m above the base of the Stairway Sandstone, Amadeus Basin.

**Age:** Early Darriwilian, Ordovician.

**Remarks:** The published map coordinates are incorrect.

### ***Cyrtodonta staffordae* POJETA & GILBERT-TOMLINSON, 1977**

**CPC 15540:** Figured specimen, type species (internal mould of right valve) -- POJETA & GILBERT-TOMLINSON, 1977, pp. 20-21, Pl. 14, fig. 3.

**Locality:** ML47B - measured section W9, on the south flank of the anticline, Gardiner Range, Northern Territory, Australia. 23.8675°S, 131.7617°E. Grid reference 7813.3577, MOUNT LIEBIG 1:250,000 sheet SF52-16.

**Horizon:** 50 to 68.6 m below the top of the Stairway Sandstone, Amadeus Basin.

**Age:** Early Darriwilian, Ordovician.

**CPC 15541: HOLOTYPE** (right valve) -- POJETA & GILBERT-TOMLINSON, 1977, pp. 20-21, Pl. 14, figs 1-2.

**Locality:** ML16 - hill south of Deering Creek, Northern Territory, Australia. 23.7239°S, 131.6869°E. Grid reference 7739.3738, MOUNT LIEBIG 1:250,000 sheet SF52-16.

**Horizon:** Stairway Sandstone, Amadeus Basin.

**Age:** Early Darriwilian, Ordovician.

### ***Cyrtodonta wattii* (TATE, 1896)**

**CPC 15542:** Figured specimen (internal mould of left valve) -- POJETA & GILBERT-TOMLINSON, 1977, p. 21, Pl. 15, fig. 2.

**Locality:** Hy710 - south-southwest of Angas Hill, 20.9 km northeast of "Angas Downs" homestead on the Mount Quinn road, Northern Territory, Australia. 24.9234°S, 132.3936°E. HENBURY 1:250,000 sheet SG53-1.

**Horizon:** Stairway Sandstone, Amadeus Basin.

**Age:** Early Darriwilian, Ordovician.

**CPC 15543:** Figured specimen (internal mould of left valve) -- POJETA & GILBERT-TOMLINSON, 1977, p. 21, Pl. 15, fig. 3.

**Locality, horizon, and age** as for CPC 15542.

**CPC 15544:** Figured specimen (internal and external moulds of left valve) -- POJETA & GILBERT-TOMLINSON, 1977, p. 21, Pl. 15, figs 4-5.

**Locality:** ML47D - measured section W9, on the south flank of the anticline, Gardiner Range, Northern Territory, Australia. 23.8675°S, 131.7617°E. Grid reference 7813.3577, MOUNT LIEBIG 1:250,000 sheet SF52-16.

**Horizon:** 110 m above the base of the Stairway Sandstone, Amadeus Basin.

**Age:** Early Darriwilian, Ordovician.

**CPC 15545:** Figured specimen (steinkern) -- POJETA & GILBERT-TOMLINSON, 1977, p. 21, Pl. 15, figs 6-7.

**Locality, horizon, and age** as for CPC 15544.

### ***Cyrtodontula hadzeli* POJETA & GILBERT-TOMLINSON, 1977**

**CPC 15557: HOLOTYPE** (internal mould of right valve) -- POJETA & GILBERT-TOMLINSON, 1977, pp. 21-22, Pl. 17, fig. 8.

**Locality:** PW-11-74 - on the west bank of Ellery Creek about 3.5 km south of Ellery Creek Big Hole and 2 km due south of Glen Helen road, western MacDonnell Ranges, Northern Territory, Australia. 23.8196°S, 133.049°E. HERMANNSTADT 1:250,000 sheet SF53-13.

**Horizon:** Pacoota Sandstone, Amadeus Basin.

**Age:** Late Lancefieldian, Early Ordovician.

**CPC 15558:** Figured specimen (internal and external moulds of right valve) -- POJETA & GILBERT-TOMLINSON, 1977, pp. 21-22, Pl. 17, figs 9-10.

**Locality, horizon, and age** as for CPC 15557.

**CPC 15559:** Figured Paratype (composite mould of right valve) -- POJETA & GILBERT-TOMLINSON, 1977, pp. 21-22, Pl. 17, fig 11.

**Locality, horizon, and age** as for CPC 15557.

### ***Cyrtorostra* sp. ARCHBOLD, 1988**

**CPC 19854:** Figured specimen (incomplete right valve) -- ARCHBOLD, 1988, p. 37, Fig. 2V.

**Locality:** Sahul Shoals #1 Well, in 28 m water depth 375 km northwest of Cape Londonderry, 137 km south of Timor, Timor Sea. 11.42667°S, 124.54722°E.

**Horizon:** Ashmore Block, offshore Bonaparte Basin.

**Age:** Chidruan Substage, early Tatarian, Late Permian.

### ***Deceptrix?* sp. A POJETA & GILBERT-TOMLINSON, 1977**

**CPC 15495:** Figured specimen (internal mould of right valve) -- POJETA & GILBERT-TOMLINSON, 1977, p. 12, Pl. 3, fig. 8.

**Locality:** AS263 - *ex situ* on the western slope of an un-named gorge east of N'Dahla gorge, west of the Ross River, on the southern flank of the Ross River syncline, Northern Territory, Australia. Coordinates from index card: 23.6394°S, 134.4661°E. ALICE SPRINGS 1:250,000 sheet SF53-14.

**Horizon:** Pacoota Sandstone, Amadeus Basin.

**Age:** Lancefieldian, Early Ordovician.

**Remarks:** The published coordinates do not agree with the position shown on the original locality card, the coordinates for the latter are those given above.

### ***Deltopecten limaeformis* (MORRIS, 1845)**

**CPC 20171:** Figured specimen -- DICKINS, 1981, p. 28, Pl. 2, fig. 6.

**Locality:** TH411 - 3 km northeast of Silverwood railway siding, south of Warwick, southeastern Queensland, Australia. 28.3393°S, 152.0439°E. WARWICK 1:250,000 sheet SH56-2.

**Horizon:** Eight Mile Creek beds.

**Age:** Baigendzhinian Substage, Artinskian, Early Permian.

**CPC 20172:** Figured specimen -- DICKINS, 1981, p. 28, Pl. 2, fig. 5.

**Locality, horizon, and age** as for CPC 20171.

### ***Deltopecten lyonsensis* DICKINS, 1957**

**CPC 2244: HOLOTYPE** (worn right valve) -- DICKINS, 1957, pp. 41-44, Pl. VII, figs 1-3. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves p. 29, Pl. 47, fig. 14.

**Locality:** ML108 - given by Dickins as about 3 miles (4.8 km) northeast of Round Hill Well, 1.65 km west of Kialawibri Creek road crossing, "Winning" Station, Western Australia. Condon, 1967, pp. 47-48, gives it as on the north bank of Kialawibri Creek 1.5 to 2.25 miles (2.4 - 3.6 km) above its junction with the Lyndon River. Approximately 23.34°S, 114.463°E. Grid reference KV 640165, WINNING 1:100,000 sheet 1851; WINNING POOL 1:250,000 sheet SF50-13.

**Horizon:** Carrandibby Formation, Carnarvon Basin. Condon puts the locality in the Thambrong Formation, Skwarko, 1993, in the upper Lyons Group.

**Age:** Tastubian Substage, Sakmarian, Early Permian.

**CPC 2245:** Figured Paratype A (left valve) -- DICKINS, 1957, pp. 41-44, Pl. VIII, figs 12-13. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves p. 29.

**Locality, horizon, and age** as for CPC 2244.

**CPC 2246:** Figured Paratype B (worn left valve) -- DICKINS, 1957, pp. 41-44, Pl. VIII, fig. 11. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves p. 29.

**Locality:** ML106 - given by Dickins as about 3 miles (4.8 km) northeast of Round Hill Well, 1.61 km west of Kialawibri Creek road crossing, "Winning" Station, Western Australia. Condon, 1967, pp. 47-48, gives it as on the north bank of Kialawibri Creek 1.5 to 2.25 miles (2.4 - 3.6 km) above its junction with the Lyndon River. Approximately 23.34°S, 114.463°E. Grid reference KV 640164, WINNING 1:100,000 sheet 1851; WINNING POOL 1:250,000 sheet SF50-13.

**Horizon and age** as for CPC 2244.

**CPC 2247:** Figured Paratype C (incomplete right valve) -- DICKINS, 1957, pp. 41-44, Pl. VII, fig. 4. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves p. 29.

**Locality, horizon, and age** as for CPC 2244.

**CPC 2248:** Figured Paratype D (right valve, incompletely exposed) -- DICKINS, 1957, pp. 41-44, Pl. VII, fig. 9. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves p. 29. Initially registered as F 17694.

**Locality:** T27 - given by Dickins as about 3 miles (4.8 km) northeast of Round Hill Well, 1.65 km west of Kialawibri Creek road crossing, "Winning" Station, Western Australia. Condon, 1967, gives it as being on the north bank of Kialawibri Creek 1.5 to 2.25 miles (2.4 - 3.6 km) above its junction with the Lyndon River. Approximately 23.34°S, 114.463°E. Grid reference KV 640165, WINNING 1:100,000 sheet 1851; WINNING POOL 1:250,000 sheet SF50-13.

**Horizon and age** as for CPC 2244.

**CPC 2249:** Figured Paratype E (worn shell) -- DICKINS, 1957, pp. 41-44, Pl. VII, fig. 5. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves p. 29.

**Locality:** ML107 - about 3 miles (4.8 km) northeast of Round Hill Well, 1.64 km west of Kialawibri Creek road crossing, "Winning" Station. Lyndon River area, Western Australia. Condon, 1967, gives it as being on the north bank of Kialawibri Creek 1.5 to 2.25 miles (2.4 - 3.6 km) above its junction with the Lyndon River. Approximately 23.34°S, 114.463°E. Grid reference KV 640165, WINNING 1:100,000 sheet 1851; WINNING POOL 1:250,000 sheet SF50-13.

**Horizon and age** as for CPC 2244.

**CPC 2250:** Figured Paratype F (thin section of shell) -- DICKINS, 1957, pp. 41-44, Pl. X, fig. 4. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves p. 29.

**Locality, horizon, and age** as for CPC 2246.

**CPC 2251:** Figured Paratype G (thin section of right valve) -- DICKINS, 1957, pp. 41-44, Pl. X, fig. 3. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves p. 29. Initially registered as F 17694.

**Locality, horizon, and age** as for CPC 2248.

**CPC 2252:** Figured Paratype H (thin section of shell) -- DICKINS, 1957, pp. 41-44, Text-fig. 9, Pl. IX, fig. 12. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves p. 29.

**Locality:** GW34 - 4.3 miles (6.9 km) east-southeast of Baracooda Pool, Arthur River, "Bidgemia" Station east of Gascoyne Junction, Western Australia. 24.95°S, 15.61°E. MOUNT PHILLIPS 1:250,000 sheet SG50-2.

**Horizon:** Upper Lyons Group or possibly Carrandibby Formation, Carnarvon Basin.

**Age:** Asselian to Sakmarian, Early Permian.

### ***Deltopecten multicostatus* (FLETCHER, 1929)**

**CPC 20173:** Figured specimen -- DICKINS, 1981, p. 28, Pl. 2, fig. 11.

**Locality:** TH411 - 3 km northeast of Silverwood railway siding, south of Warwick, southeastern Queensland, Australia. 28.3393°S, 152.0439°E. WARWICK 1:250,000 sheet SH56-2.

**Horizon:** Eight Mile Creek beds.

**Age:** Baigendzhinian Substage, Artinskian, Early Permian.

### ***Deltopecten waterfordi* DICKINS, 1963**

**CPC 3918: HOLOTYPE** (right valve) -- DICKINS, 1963, pp. 79-81, Pl. 12, figs 8-11. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves pp. 30-31, Pl. 47, fig. 21. Initially registered as F 2353.

**Locality:** 12 miles (19.3 km) south of "Lyons River" homestead, Gascoyne River area, Western Australia. This plots at LT 315553 on LYONS RIVER 1:100,000 sheet 1948; KENNEDY RANGE 1:250,000 sheet SG50-1. If the locality is on the road south from the homestead, a point at the specified straight-line distance is at LT 288553.

**Horizon:** Callytharra Formation, Carnarvon Basin.

**Age:** Sakmarian, Early Permian.

**CPC 3919:** Figured Paratype A (incomplete left valve) -- DICKINS, 1963, pp. 79-81, Pl. 12, fig. 7. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves pp. 30-31.

**Locality:** G261 - 3.85 miles (6.20 km) southwest of "Moogooree" homestead, about 400 m south-southeast of Toby Bore, Western Australia. 24.1044°S, 115.1678°E. Grid reference LU 1404.3303, MOUNT SANDIMAN 1:100,000 sheet 1949; KENNEDY RANGE 1:250,000 sheet SG50-1.

**Horizon:** 350 ft (107 m) above the base of the Callytharra Formation, Carnarvon Basin.

**Age:** Sakmarian, Early Permian.

**CPC 3920:** Figured Paratype B (incomplete left valve, fire-damaged) -- DICKINS, 1963, pp. 79-81, Pl. 12, fig. 6. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves pp. 30-31.

**Locality, horizon, and age** as for CPC 3919.

**CPC 3921:** Figured Paratype C (right valve) -- DICKINS, 1963, pp. 79-81, Pl. 12, fig. 5. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves pp. 30-31.

**Locality:** GW152 - position uncertain, approximately half way between "Winderie" homestead and Round Hill trigonometric station, Western Australia. 25.32°S, 115.20°E. Grid reference very approximately LS 190990, GASCOYNE 1:100,000 sheet 1947; WOORAMEL 1:250,000 sheet SG50-5.

**Horizon:** Callytharra Formation?, Carnarvon Basin.

**Age:** Sakmarian, Early Permian.

### ***Denticolex tortuosa* (TATE, 1896)**

**CPC 15565:** Figured specimen, type species (complete shell) -- POJETA & GILBERT-TOMLINSON, 1977, pp. 25-26, Pl.

21, fig. 8, Pl. 22, figs 5-6.

**Locality:** E25 - a mesa near the Tarlton Range, Northern Territory, Australia. RODINGA 1:250,000 sheet SG53-2. The localtion is uncertain.

**Horizon:** Carlo Sandstone?, Georgina Basin.

**Age:** Darriwilian, Ordovician.

**CPC 15566:** Figured specimen, type species (internal mould) -- POJETA & GILBERT-TOMLINSON, 1977, pp. 25-26, Pl. 22, fig. 4.

**Locality:** PW-16-74 - prominent ridges about 11.5 km east of Mount Kearthland, on the north flank of James Range 'A' anticline, Northern Territory, Australia. 24.2002°S, 133.2941°E. HENBURY 1:250,000 sheet SG53-1.

**Horizon:** Stairway Sandstone, Amadeus Basin.

**Age:** Early Darriwilian, Ordovician.

### ***Edmondia prichardi* DICKINS, 1963**

**CPC 3879:** Figured Paratype F (internal mould of right valve) -- DICKINS, 1963, pp. 43-44, Pl. 3, figs 18, 23. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves pp. 42-43.

**Locality:** GW137 - section on the south side of the Wooramel River about 1 mile (1.6 km) west of Callytharra Spring, "Byro" Station, Western Australia. 25.871°S, 115.494°E. Grid reference LS 490371, CALLYTHARRA 1:100,000 sheet 1946; WOORAMEL 1:250,000 sheet SG50-5.

**Horizon:** 130 to 180 ft (40-55 m) above the base of the Callytharra Formation, Carnarvon Basin.

**Age:** Sakmarian, Early Permian.

### ***Elimata guppyi* DICKINS, 1963**

**CPC 3939:** HOLOTYPE, type species (left valve, internal mould) -- DICKINS, 1963, p. 94, Pl. 15, figs 10-12. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves p. 32, Pl. 47, fig. 17.

**Locality:** SG120A - 16 miles (25.7 km) at 120° (true) from Mount Tuckfield, southern Saint George Range, Western Australia. 18.806°S, 125.314°E. NOONKANBAH 1:250,000 sheet SE51-12.

**Horizon:** Near the base of the Poole Sandstone, Canning Basin.

**Age:** Aktastinian Substage, Artinskian, Early Permian.

**CPC 3940:** Figured Paratype A (left valve) -- DICKINS, 1963, p. 94, Pl. 15, fig. 6. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves p. 32.

**Locality, horizon, and age** as for CPC 3939.

**CPC 3941:** Figured Paratype B (right valve) -- DICKINS, 1963, p. 94, Pl. 15, fig. 7. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves p. 32.

**Locality, horizon, and age** as for CPC 3939.

**Remarks:** CPC 3941-3 are on the same slab.

**CPC 3942:** Figured Paratype C (right valve) -- DICKINS, 1963, p. 94, Pl. 15, figs 8, 13. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves p. 32.

**Locality, horizon, and age** as for CPC 3939.

**Remarks:** CPC 3941-3 are on the same slab.

**CPC 3943:** Figured Paratype D (right valve) -- DICKINS, 1963, p. 94, Pl. 15, fig. 9. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves p. 32.

**Locality, horizon, and age** as for CPC 3939.

**Remarks:** CPC 3941-3 are on the same slab.

### ***Eoschizodus taemasensis* JOHNSTON, 1993**

**CPC 30733:** Cited specimen -- JOHNSTON, 1993, pp. 102-111.

**Locality:** Macquarie University locality "Warroo 3" (= Australian National University locality R6): on Patmore's property, about 2 km south-southeast of Good Hope, west of Yass, New South Wales, Australia. Grid reference FB655307, YASS 1:100,000 sheet 8628.

**Horizon:** Warroo Limestone Member, Taemas Formation, Murrumbidgee Group, Lachlan Fold Belt.  
**Age:** Emsian, Early Devonian.

**CPC 30734:** Figured specimen (silicified umbonal region of right valve) -- JOHNSTON, 1993, pp. 102-111, Fig. 71E.  
**Locality:** Macquarie University locality "Barbers 20": 7.5 km north-northeast of Wee Jasper village, New South Wales, Australia. Grid reference FB 507211, BRINDABELLA 1:100,000 sheet .  
**Horizon:** Taemas Formation, Murrumbidgee Group, Lachlan Fold Belt.  
**Age:** Emsian, Early Devonian.

**CPC 30735:** Cited specimen -- JOHNSTON, 1993, pp. 102-111.  
**Locality, horizon, and age** as for CPC 30734.

**CPC 30736:** Figured specimen (silicified right valve) -- JOHNSTON, 1993, pp. 102-111, Fig. 71A.  
**Locality, horizon, and age** as for CPC 30734.

### ***Eritropis opiformis* (TATE, 1896)**

**CPC 15479:** Figured specimen, type species (external mould of right valve) -- POJETA & GILBERT-TOMLINSON, 1977, pp. 12-13, Pl. 1, fig. 1.  
**Locality:** CSIRO 303 - low flat-topped hill 400 m north of the "Idracowra" road on the northwestern side of the Charlotte Range, 40 km southwest of "Maryvale" homestead, Northern Territory, Australia. 24.8335°S, 133.6952°E. RODINGA 1:250,000 sheet SG53-2.  
**Horizon:** Stairway Sandstone, Amadeus Basin.  
**Age:** Early Darriwilian, Ordovician.

**CPC 15480:** Figured specimen, type species (external mould of right valve) -- POJETA & GILBERT-TOMLINSON, 1977, pp. 12-13, Pl. 1, fig. 2.  
**Locality:** Rd224 - *ex situ* in measured section RdC3, 1.1 km (not 8 as published) northeast of Mount Charlotte, Northern Territory, Australia. 24.7065°S, 134.0321°E. RODINGA 1:250,000 sheet SG53-2.  
**Horizon:** About 60 m above the local base of the Stairway Sandstone (about 12 m above the 'red-bed' sequence), Amadeus Basin.  
**Age:** Early Darriwilian, Ordovician.

**CPC 15481:** Figured specimen, type species (internal mould of left valve) -- POJETA & GILBERT-TOMLINSON, 1977, pp. 12-13, Pl. 1, figs 3-4.  
**Locality, horizon, and age** as for CPC 15479.

**CPC 15482:** Figured specimen, type species (steinkern) -- POJETA & GILBERT-TOMLINSON, 1977, pp. 12-13, Pl. 1, figs 5-7.  
**Locality:** PW-16-74 - prominent ridges about 11.5 km east of Mount Kearthland, on the north flank of James Range 'A' anticline, Northern Territory, Australia. 24.2002°S, 133.2941°E. HENBURY 1:250,000 sheet SG53-1.  
**Horizon and age** as for CPC 15479.

**CPC 15483:** Figured specimen, type species (incomplete external mould) -- POJETA & GILBERT-TOMLINSON, 1977, pp. 12-13, Pl. 1, figs 8-9.  
**Locality, horizon, and age** as for CPC 15479.

### ***Eritropis* sp. A POJETA & GILBERT-TOMLINSON, 1977**

**CPC 15484:** Figured specimen (internal mould of left valve) -- POJETA & GILBERT-TOMLINSON, 1977, p. 13, Pl. 1, fig. 10.  
**Locality:** NT639 - float from the sandstone cap of a mesa on the lower slopes at the western end of Mount Watt, 38 km west-southwest of Horseshoe Bend on the Finke River, Northern Territory, Australia. 25.33°S, 133.888°E. FINKE 1:250,000 sheet SG53-6.  
**Horizon:** Stairway Sandstone, Amadeus Basin.  
**Age:** Early Darriwilian, Ordovician.

### ***Etheripecten fittoni* (MORRIS, 1845)**

**CPC 20170:** Figured specimen -- DICKINS, 1981, p. 28, Pl. 2, fig. 17.

**Locality:** TH411 - 3 km northeast of Silverwood railway siding, south of Warwick, southeastern Queensland, Australia. 28.3393°S, 152.0439°E. WARWICK 1:250,000 sheet SH56-2.

**Horizon:** Eight Mile Creek beds.

**Age:** Baigendzhinian Substage, Artinskian, Early Permian.

### ***Etheripecten tenuicollis* (DANA, 1847)**

*See also Aviculopecten tenuicollis*

Transferred from *Aviculopecten* by Dickins & SKWARKO, 1993A, microfiche 6, Bivalves p. 24.

**CPC 2253:** Figured specimen (external mould of left valve) -- DICKINS, 1957, pp. 45-46, Pl. VI, figs 7-8. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves p. 24, Pl. 47, fig. 9. Initially registered as F 17203.

**Locality:** 1949/63 - 3 miles (4.8 km) west of "Moogooree" Homestead, 1.4 miles (2.3 km) east of Callytharra Formation outcrop on the old road from Donnelly's Well to the homestead, Western Australia. Approximately 24.065°S, 115.162°E. Grid reference LU 131375, MOUNT SANDIMAN 1:100,000 sheet 1949; KENNEDY RANGE 1:250,000 sheet SG50-1.

**Horizon:** 1250 ft (381 m) below the top of the Lyons Group, Carnarvon Basin, where the Group is about 1070 m thick. Skwarko, 1993, gives the horizon as about 415 m below top, Lyons Formation.

**Age:** Asselian to Tastubian, Early Permian.

**CPC 2254:** Figured specimen (incomplete left valve) -- DICKINS, 1957, pp. 45-46, Pl. VI, fig. 9. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves p. 24.

**Locality:** WB2 - on the south side of the Wooramel River about 1 mile (1.6 km) west of Callytharra Spring, "Byro" Station, Western Australia. 25.871°S, 115.494°E. Grid reference LS 490371, CALLYTHARRA 1:100,000 sheet 1946; WOORAMEL 1:250,000 sheet SG50-5.

**Horizon:** Carrandibby Formation, Canarvon Basin.

**Age:** Tastubian Substage, Sakmarian, Early Permian.

**CPC 3922:** Figured specimen (external mould of left valve) -- DICKINS, 1963, pp. 82-84, Pl. 13, figs 13-14. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves p. 24.

**Locality:** G202 - on a crest at the base of a ridge (probably hill 224) 5.9 miles (9.45 km) at 335° (true) from "Lyons River" homestead, Western Australia. 24.5553°S, 115.2975°E. Grid reference LT 276831, LYONS RIVER 1:100,000 sheet 1948; KENNEDY RANGE 1:250,000 sheet SG50-1.

**Horizon:** Local exposed top of the Callytharra Formation, Carnarvon Basin.

**Age:** Sterlitamakian Substage, Sakmarian, Early Permian.

**CPC 3923:** Cited specimen -- DICKINS, 1963, pp. 82-84. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves p. 24.

**Locality:** PB8 - Fossil Cliff, on the west bank of the Irwin River east of Geraldton, Western Australia. 28.9409°S, 115.0410°E. YALGOO 1:250,000 sheet SH50-2.

**Horizon:** Fossil Cliff Member, Holmwood Shale, Irwin Sub-Basin, Perth Basin.

**Age:** Sakmarian, Early Permian.

**CPC 20156:** Figured specimen -- DICKINS, 1981, p. 28, Pl. 2, fig. 12.

**Locality:** TH198 - 4 km east-northeast of Silverwood railway siding, south of Warwick, southeastern Queensland, Australia. 28.3375°S, 152.0490°E. WARWICK 1:250,000 sheet SH56-2.

**Horizon:** Eight Mile Creek beds.

**Age:** Baigendzhinian Substage, Artinskian, Early Permian.

**CPC 20157:** Figured specimen -- DICKINS, 1981, p. 28, Pl. 2, fig. 13.

**Locality, horizon, and age** as for CPC 20156.

### ***Etheripecten tenuicollis* (DANA, 1847)?**

*See also Aviculopecten sp. cf. subquiquelineatus, Aviculopecten tenuicollis?*

This specimen was originally compared with *Aviculopecten subquiquelineatus* in Hill & Woods, 1964 (where the species

author was incorrectly given as McCoy), then tentatively placed in *A. tenuicollis* in Hill, Playford & Woods, 1972, and finally transferred to *Etheripecten* (although the species still identified only tentatively) in Dickins & Skwarko, 1993A.

**CPC 5175:** Figured specimen (internal mould of left valve) -- HILL & WOODS, 1964, Pl. PXI, fig. 15. HILL, PLAYFORD & WOODS, 1972, Pl. PXI, fig. 15. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves p. 24.

**Locality:** B686 - in the headwaters of the Bowen River, 1.8 km east-northeast of "Exmoor" homestead, central Queensland, Australia. 20.945°S, 148.142°E. BOWEN 1:250,000 sheet SF55-3.

**Horizon:** Tiverton Subgroup, Back Creek Group, Bowen Basin.

**Age:** Artinskian, Early Permian.

### ***Etheripecten?* sp. (DICKINS, 1963)**

*See also Aviculopecten?* sp.

Transferred from *Aviculopecten?* by Dickins & Skwarko 1993A.

**CPC 3924:** Figured specimen (incomplete internal and external moulds of left valve) -- DICKINS, 1963, p. 84, Pl. 13, figs 10-11. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves p. 22, Pl. 47, fig. 1.

**Locality:** KPA55 - 16 miles (25.7 km) at 120° (true) from Mount Tuckfield, southern Saint George Range, Western Australia. 18.806°S, 125.314°E. NOONKANBAH 1:250,000 sheet SE51-12.

**Horizon:** Near the base of the Poole Sandstone, Canning Basin.

**Age:** Aktastinian Substage, Artinskian, Early Permian.

### ***Etheripecten?* sp. ARCHBOLD, 1988**

**CPC 19862:** Figured specimen (shell fragment) -- ARCHBOLD, 1988, p. 37, Fig. 2W.

**Locality:** Sahul Shoals #1 well, in 28 m water depth 375 km northwest of Cape Londonderry, 137 km south of Timor, Timor Sea. 11.426667°S, 124.547222°E.

**Horizon:** Ashmore Block, offshore Bonaparte Basin.

**Age:** Chhidruan Substage, early Tatarian, Late Permian.

### ***Euchondria callytharraensis* DICKINS, 1963**

**CPC 3928: HOLOTYPE** (external mould of left valve) -- DICKINS, 1963, pp. 89-91, Pl. 14, figs 3-5. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves pp. 28-9, Pl. 47, fig. 5.

**Locality:** G202 - on a crest at the base of a ridge (probably hill 224) 5.9 miles (9.45 km) at 335° (true) from "Lyons River" homestead, Western Australia. 24.5553°S, 115.2975°E. Grid reference LT 276831, LYONS RIVER 1:100,000 sheet 1948; KENNEDY RANGE 1:250,000 sheet SG50-1.

**Horizon:** Local exposed top of the Callytharra Formation, Carnarvon Basin.

**Age:** Sterlitamakian Substage, Sakmarian, Early Permian.

**CPC 3929:** Figured Paratype A (internal mould of right valve) -- DICKINS, 1963, pp. 89-91, Pl. 14, figs 7-8. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves pp. 28-9, Pl. 47, fig. 16.

**Locality, horizon, and age** as for CPC 3928.

**Remarks:** The number CPC 3939 was also cited by Cox, 1961, p. 30 (but not in the corresponding plate caption), but this is a misprint for CPC 3829 (*Tectus?* sp.).

**CPC 3930:** Figured Paratype B (left valve) -- DICKINS, 1963, pp. 89-91, Pl. 14, fig. 6. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves pp. 28-9.

**Locality, horizon and age** as for CPC 3928.

**CPC 3931:** Figured Paratype C (internal mould of right valve) -- DICKINS, 1963, pp. 89-91, Pl. 14, fig. 2. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves pp. 28-9.

**Locality, horizon and age** as for CPC 3928.

***Eurydesma hobartense konincki* (JOHNSTON, 1887)**

**CPC 8116:** Figured specimen (steinkern) -- RUNNEGAR, 1970, pp. 97-98, Pl. 13, fig. 11.

**Locality:** Cited as east of "Homevale" homestead, northwest of Nebo, Queensland, Australia; probably the un-numbered locality on the geological map, north of the road to the Connors Range, about 1 km northeast of the homestead. 21.434°S, 148.536°E. MACKAY 1:250,000 sheet SF55-8.

**Horizon:** Homevale beds, Tiverton Subgroup, Back Creek Group, Bowen Basin.

**Age:** Artinskian, Early Permian.

**CPC 8117:** Figured specimen (gerontic left valve) -- RUNNEGAR, 1970, pp. 97-98, Pl. 17, fig. 9.

**Locality:** Sp720 - 480 m at 320° from AOE No. 2 well, Reids Dome, southwest of Rolleston, Queensland, Australia. 24.85°S, 148.317°E. SPRINGSURE 1:250,000 sheet SG55-3.

**Horizon:** Sirius Shale Member, Cattle Creek Formation, Bowen Basin.

**Age:** Baigendzhinian Substage, Artinskian, Early Permian.

**CPC 8118:** Figured specimen -- RUNNEGAR, 1970, pp. 97-98, Pl. 17, figs 10-11.

**Locality:** MC479 - about 1 km northwest of the "Turrawalla" - Eungella road crossing of Hazlewood Creek, about 5.8 km east-southeast of "Turrawalla" homestead, and about 500 m northeast of the creek, Queensland, Australia. 21.183°S, 148.295°E. MOUNT COOLON 1:250,000 sheet SF55-7.

**Horizon:** Upper Lizzie Creek Volcanics, Bowen Basin.

**Age:** Sterlitamakian Substage, Sakmarian, Early Permian.

**CPC 8119:** Figured specimen (left valve) -- RUNNEGAR, 1970, pp. 97-98, Pl. 17, fig. 13.

**Locality, horizon, and age** as for CPC 8117.

***Eurydesma playfordi* DICKINS, 1957**

**CPC 2228: HOLOTYPE** (damaged right valve) -- DICKINS, 1957, pp. 33-36, Pl. V, figs 8-10. RUNNEGAR, 1970, pp. 98-99. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves pp. 19-20.

**Locality:** GW81 - about 1 mile (1.6 km) west of Callytharra Spring, on the south side of the Wooramel River, "Byro" Station, Western Australia. 25.871°S, 115.494°E. Grid reference LS 490371, CALLYTHARRA 1:100,000 sheet 1946; WOORAMEL 1:250,000 sheet SG50-5.

**Horizon:** Carrandibby Formation, Carnarvon Basin.

**Age:** Tastubian Substage, Sakmarian, Early Permian.

**CPC 2229:** Figured Paratype A (incomplete left valve) -- DICKINS, 1957, pp. 33-36, Pl. V, fig. 1. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves pp. 19-20, Pl. 46, fig. 33.

**Locality, horizon, and age** as for CPC 2228.

**CPC 2230:** Figured Paratype B (incomplete shell) -- DICKINS, 1957, pp. 33-36, Pl. V, fig. 11. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves pp. 19-20.

**Locality, horizon, and age** as for CPC 2228.

**CPC 2231:** Figured Paratype C (incomplete left valve) -- DICKINS, 1957, pp. 33-36, Pl. V, fig. 2. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves pp. 19-20, Pl. 46, fig. 27.

**Locality, horizon, and age** as for CPC 2228.

**CPC 2232:** Figured Paratype D (right valve) -- DICKINS, 1957, pp. 33-36, Pl. V, figs 6-7. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves pp. 19-20.

**Locality:** WB52, - about 1 mile (1.6 km) west of Callytharra Spring, on the south side of the Wooramel River, "Byro" Station, Western Australia. 25.871°S, 115.494°E. Grid reference LS 490371, CALLYTHARRA 1:100,000 sheet 1946; WOORAMEL 1:250,000 sheet SG50-5.

**Horizon and age** as for CPC 2228.

**CPC 2233:** Figured Paratype E (slightly crushed shell) -- DICKINS, 1957, pp. 33-36, Pl. V, fig. 3. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves pp. 19-20.

**Locality, horizon, and age** as for CPC 2232.

**CPC 2234:** Figured Paratype F (incomplete left valve) -- DICKINS, 1957, pp. 33-36, Text-fig. 5, Pl. V, fig. 4. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves pp. 19-20.

**Locality, horizon, and age** as for CPC 2232.

**CPC 2235:** Figured Paratype G (thin section and remnant of left valve) -- DICKINS, 1957, pp. 33-36, Pl. X, fig. 5. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves pp. 19-20.

**Locality:** GW142 - about 1 mile (1.6 km) west of Callytharra Spring, on the south side of the Wooramel River, "Byro" Station, Western Australia. 25.871°S, 115.494°E. Grid reference LS 490371, CALLYTHARRA 1:100,000 sheet 1946; WOORAMEL 1:250,000 sheet SG50-5.

**Horizon and age** as for CPC 2228.

**CPC 2236:** Figured Paratype H (3 thin sections and remnants of right valve) -- DICKINS, 1957, pp. 33-36, Text-fig. 6, Pl. V, figs 1-2. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves pp. 19-20.

**Locality, horizon, and age** as for CPC 2228.

**CPC 2237:** Paratype I -- DICKINS, 1957, pp. 33-36. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves pp. 19-20.

**Locality:** GW105 - about 10.5 miles (17 km) west of "Jimba Jimba" homestead, on the south side of the Gascoyne River, Western Australia. 25.027°S, 114.979°E. WOORAMEL 1:250,000 sheet SG50-5.

**Horizon and age** as for CPC 2228.

### **Eurydesmatidae, gen. et sp. nov. RUNNEGAR, 1969**

*See Glendella dickinsi*

The specimen published under open nomenclature by Runnegar, 1969A, was that chosen by him as holotype of *Glendella dickinsi* in 1970.

### **Girtypecten ovalis DICKINS, 1963**

**CPC 3925:** Figured Paratype A (incomplete external mould of left valve) -- DICKINS, 1963, pp. 85-86, Pl. 13, fig. 4. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves p. 25, Pl. 47, fig. 7.

**Locality:** WB266 - 30 miles (48 km) west-northwest of "Curbur" homestead, Western Australia. 26.3667°S, 115.4167°E. YARINGA 1:250,000 sheet SG50-9.

**Horizon:** Callytharra Formation, Carnarvon Basin.

**Age:** Sakmarian, Early Permian.

### **Glendella dickinsi RUNNEGAR, 1970**

*See also Eurydesmatidae, gen. et sp. nov.*

The holotype was originally published under open nomenclature by Runnegar, 1969A.

**CPC 5174:** Figured Paratype, type species (incomplete internal mould) -- RUNNEGAR, 1970, pp. 100-102, Pl. 18, figs 13-14.

**Locality:** B261d - Gebbie Creek, 1.6 km east-northeast of "Gattin Vale" homestead, about 23 km south-southeast of Collinsville, Queensland, Australia. 20.7402°S, 147.9531°E. BOWEN 1:250,000 sheet SF55-3.

**Horizon:** Glendoo Sandstone Member, Collinsville Coal Measures, Gebbie Subgroup, Back Creek Group, Bowen Basin.

**Age:** Baigendzhinian Substage, Artinskian, Early Permian.

**Remarks:** Set aside for, but not used in, Hill & Woods, 1964, then figured by Runnegar, 1970, who misquoted the locality as B1633a.

**CPC 8120: HOLOTYPE**, type species (internal & external moulds plus both valves) -- RUNNEGAR, 1969A, Pl. 1, figs 1-5. RUNNEGAR, 1970, pp. 100-102, Text-fig. 1D, Pl. 18, figs 1-6.

**Locality:** B1633a - 14.75 km west-southwest of "Havilah" homestead, 33 km southwest of Collinsville, Queensland, Australia. 20.816°S, 147.687°E. BOWEN 1:250,000 sheet SF55-3.

**Horizon:** Glendoo Sandstone Member, Collinsville Coal Measures, Bowen Basin.

**Age:** Baigendzhinian Substage, Artinskian, Early Permian.

- CPC 8121:** Figured Paratype, type species (worn shell) -- RUNNEGAR, 1970, pp. 100-102, Pl. 18, figs 7-9.  
**Locality:** B1569 - 14.4 km west of "Havilah" homestead, 32 km southwest of Collinsville, Queensland, Australia. 20.807°S, 147.688°E. BOWEN 1:250,000 sheet SF55-3.  
**Horizon and age** as for CPC 8120.
- CPC 8122:** Figured Paratype, type species -- RUNNEGAR, 1970, pp. 100-102, Pl. 18, fig. 10.  
**Locality:** B1633b - as for CPC 8120.  
**Horizon and age** as for CPC 8120.
- CPC 8123:** Figured Paratype, type species -- RUNNEGAR, 1970, pp. 100-102, Pl. 18, fig. 11.  
**Locality:** B711 - 2 km east of "Exmoor" homestead, 53.5 km southeast of Collinsville, Queensland, Australia. 20.945°S, 148.145°E. BOWEN 1:250,000 sheet SF55-3.  
**Horizon and age** as for CPC 8120.
- CPC 8124:** Figured Paratype, type species (internal mould of right valve) -- RUNNEGAR, 1970, pp. 100-102, Pl. 18, fig. 15.  
**Locality:** B261d - about 200-300 m northeast of the confluence of Gebbie Creek with the Bowen River, 1.6 km northeast of "Gatton Vale" homestead, 23 km south-southeast of Collinsville, Queensland, Australia. 20.74°S, 147.953°E. BOWEN 1:250,000 sheet SF55-3.  
**Horizon and age** as for CPC 8120.

### ***Glyptodesma buechanensis* (TALENT, 1956)**

- CPC 30761:** Figured specimen (silicified umbonal region of articulated shell) -- JOHNSTON, 1993, pp. 57-62, Fig. 39B.  
**Locality:** Macquarie University locality "Slocombes", in "The Basin", about 11.5 km northeast of Buchan, Victoria, Australia. BAIRNSDALE 1:250,000 sheet SJ55-07.  
**Horizon:** Buchan Caves Limestone, Buchan Group, Lachlan Fold Belt.  
**Age:** Emsian, Early Devonian.
- CPC 30762:** Figured specimen -- JOHNSTON, 1993, pp. 57-62, Fig. 40C.  
**Locality, horizon, and age** as for CPC 30761.
- CPC 30763:** Figured specimen (silicified umbonal region of right valve) -- JOHNSTON, 1993, pp. 57-62, Fig. 39I.  
**Locality, horizon, and age** as for CPC 30761.
- CPC 30764:** Figured specimen (silicified posterior fragment of hinge, right valve) -- JOHNSTON, 1993, pp. 57-62, Fig. 40I.  
**Locality, horizon, and age** as for CPC 30761.

### ***Glyptoleda flexuosa* WATERHOUSE, 1965**

- CPC 25260:** Figured specimen (external mould of right valve) -- DICKINS, 1989, p. 68, Text-fig. 2, Pl. 1, fig. 11.  
**Locality:** MC803 - 4 km north-northwest of "Blenheim" homestead, Queensland, Australia. MOUNT COOLON 1:250,000 sheet SF55-7.  
**Horizon:** Upper Blenheim Subgroup, Back Creek Group, Bowen Basin.  
**Age:** *Martiniopsis havilensis* Zone, Kazanian, Late Permian.
- CPC 25261:** Figured specimen (internal mould of right valve) -- DICKINS, 1989, p. 68, Pl. 1, fig. 10.  
**Locality, horizon, and age** as for CPC 25260.
- CPC 25262:** Figured specimen (internal mould of left valve) -- DICKINS, 1989, p. 68, Pl. 1, figs 12-13.  
**Locality, horizon, and age** as for CPC 25260.
- CPC 25263:** Figured specimen (external mould of right valve) -- DICKINS, 1989, p. 68, Pl. 1, fig. 9.  
**Locality:** UDC1 - at fence about 4 km northeast of "Lyra Park" homestead, Queensland, Australia. DUARINGA 1:250,000 sheet SF55-16.  
**Horizon:** MacMillan Formation, Blenheim Subgroup, Back Creek Group, Bowen Basin.  
**Age:** *Martiniopsis havilensis* Zone, Kazanian, Late Permian.

**CPC 25264:** Figured specimen (external mould of articulated shell) -- DICKINS, 1989, p. 68, Pl. 1, fig. 8.

**Locality, horizon, and age** as for CPC 25263.

**CPC 25265:** Figured specimen (internal mould of left valve) -- DICKINS, 1989, p. 68, Pl. 1, fig. 14.

**Locality, horizon, and age** as for CPC 25263.

**CPC 25266:** Cited specimen -- DICKINS, 1989, p. 68.

**Locality, horizon, and age** as for CPC 25263.

### ***Glyptoleda* sp. DICKINS, 1956**

**CPC 740:** Figured specimen (external mould of left valve) -- DICKINS, 1956, pp. 11-12, Pl. I, fig. 3. DICKINS & SKWARKO, 1993A, microfiche 5, Bivalves p. 5, Pl. 46, fig. 7. Initially registered as F 17104.

**Locality:** 1.5 miles (2.4 km) south of "Merlinleigh" homestead, Western Australia. KENNEDY RANGE 1:250,000 sheet SG50-1.

**Horizon:** Wandagee Formation, Byro Group, Carnarvon Basin.

**Age:** Artinskian, Early Permian.

**CPC 741:** Figured specimen (internal mould of right valve) -- DICKINS, 1956, pp. 11-12, Pl. I, fig. 4. DICKINS & SKWARKO, 1993A, microfiche 5, Bivalves p. 5. Initially registered as F 17104.

**Locality, horizon, and age** as for CPC 740.

### ***Goniophora duplisulca* JOHNSTON, 1993**

**CPC 30749:** Cited specimen -- JOHNSTON, 1993, pp. 81-83.

**Locality:** Macquarie University locality "Lower Receptaculites": 0.75 km south-southwest of Australian National University locality R6, on Patmore's property, about 3 km south-southeast of Good Hope, west of Yass, New South Wales, Australia. Grid reference FB 655307, YASS 1:100,000 sheet 8628.

**Horizon:** Receptaculites Limestone Member, Taemas Formation, Murrumbidgee Group, Lachlan Fold Belt.

**Age:** Emsian, Early Devonian.

**CPC 30750:** Cited specimen -- JOHNSTON, 1993, pp. 81-83.

**Locality:** Macquarie University locality "Bloomfield" (= Australian National University locality R7): "Bloomfield" station, about 2 km northwest of Taemas bridge, southwest of New South Wales, Australia. Grid reference FB 673265, YASS 1:100,000 sheet 8628.

**Horizon and age** as for CPC 30749.

**CPC 30751:** Cited specimen -- JOHNSTON, 1993, pp. 81-83.

**Locality:** Macquarie University locality PB: rubble at north-northwest facing exposures on Patmore's property, about 2 km south-southeast of Good Hope, west of Yass, New South Wales, Australia. Grid reference FB 654321, YASS 1:100,000 sheet 8628.

**Horizon:** Warroo Limestone Member, Taemas Formation, Murrumbidgee Group, Lachlan Fold Belt.

**Age:** Emsian, Early Devonian.

**CPC 30752:** Figured specimen (silicified broken articulated shell) -- JOHNSTON, 1993, pp. 81-83, Fig. 57.

**Locality:** Macquarie University locality "Warroo 1974" (= Australian National University locality R6): on Patmore's property, about 3 km south-southeast of Good Hope, west of Yass, New South Wales, Australia. Grid reference FB 655307, YASS 1:100,000 sheet 8628.

**Horizon and age** as for CPC 30751.

**CPC 30753:** Figured specimen (silicified articulated shell) -- JOHNSTON, 1993, pp. 81-83, Figs 56C-E.

**Locality, horizon, and age** as for CPC 30750.

## ***Goniophora* sp. JOHNSTON, 1993**

**CPC 30747:** Figured specimen (silicified left valve) -- JOHNSTON, 1993, p. 81, Figs 55A-B.

**Locality:** Macquarie University locality 7, 'The Basin': a few metres along strike from the locality "Slocombes", about 11.5 km northeast of Buchan, Victoria, Australia. BAIRNSDALE 1:250,000 sheet SJ55-07.

**Horizon:** Buchan Caves Limestone, Buchan Group, Lachlan Fold Belt.

**Age:** Emsian, Early Devonian.

**CPC 30748:** Figured specimen (silicified right valve) -- JOHNSTON, 1993, p. 81, Figs 55C-D.

**Locality, horizon, and age** as for CPC 30747.

## ***Inaequidens campbelli* POJETA & GILBERT-TOMLINSON, 1977**

**CPC 15504: HOLOTYPE** (internal mould of left valve) -- POJETA & GILBERT-TOMLINSON, 1977, p. 14, Pl. 4, fig. 8.

**Locality:** ML157 - near the northeastern nose of the anticline, Gardiner Range, Northern Territory, Australia. 23.7911°S, 131.6925°E. Grid reference 744366, MOUNT LIEBIG 1:250,000 sheet SF52-16.

**Horizon:** Stairway Sandstone, Amadeus Basin.

**Age:** Early Darriwilian, Ordovician.

**CPC 15505:** Figured Paratype (incomplete internal mould of right valve) -- POJETA & GILBERT-TOMLINSON, 1977, p. 14, Pl. 4, fig. 9.

**Locality, horizon, and age** as for CPC 15504.

## ***Johnmartinia cordata* POJETA & GILBERT-TOMLINSON, 1977**

**CPC 15513:** Figured Paratype, type species (steinkern) -- POJETA & GILBERT-TOMLINSON, 1977, pp. 14-15, Pl. 8, figs 1-3.

**Locality:** PW-16-74 - prominent ridges about 11.5 km east of Mount Keartland, on the north flank of James Range 'A' anticline, Northern Territory, Australia. 24.2002°S, 133.2941°E. HENBURY 1:250,000 sheet SG53-1.

**Horizon:** Stairway Sandstone, Amadeus Basin.

**Age:** Early Darriwilian, Ordovician.

**CPC 15514: HOLOTYPE**, type species (steinkern) -- POJETA & GILBERT-TOMLINSON, 1977, pp. 14-15, Pl. 8, figs 4-7.

**Locality, horizon, and age** as for CPC 15513.

**CPC 15515:** Figured Paratype (steinkern) -- POJETA & GILBERT-TOMLINSON, 1977, pp. 14-15, Pl. 8, fig. 8.

**Locality:** A1/38 - Frome-Broken Hill section A1, in the Chandler Range northeast of "Henbury" homestead, Northern Territory, Australia. HENBURY 1:250,000 sheet SG53-1.

**Horizon and age** as for CPC 15513.

**CPC 15516:** Figured Paratype, type species (steinkern) -- POJETA & GILBERT-TOMLINSON, 1977, pp. 14-15, Pl. 8, fig. 9.

**Locality, horizon, and age** as for CPC 15513.

**CPC 15517:** Figured Paratype, type species (internal mould of left valve) -- POJETA & GILBERT-TOMLINSON, 1977, pp. 14-15, Pl. 8, fig. 10.

**Locality, horizon, and age** as for CPC 15513.

**CPC 15518:** Figured Paratype, type species (internal mould of right valve) -- POJETA & GILBERT-TOMLINSON, 1977, pp. 14-15, Pl. 8, fig. 11.

**Locality, horizon, and age** as for CPC 15513.

**CPC 15519:** Figured Paratype, type species (internal mould of left valve) -- POJETA & GILBERT-TOMLINSON, 1977, pp. 14-15, Pl. 8, fig. 12.

**Locality, horizon, and age** as for CPC 15513.

**CPC 15520:** Figured Paratype, type species (internal mould of left valve) -- POJETA & GILBERT-TOMLINSON, 1977, pp. 14-15, Pl. 8, fig. 13.

**Locality, horizon, and age** as for CPC 15513.

**CPC 15521:** Figured paratype, type species (internal mould of left valve) -- POJETA & GILBERT-TOMLINSON, 1977, pp. 14-15, Pl. 8, fig. 14.

**Locality, horizon, and age** as for CPC 15513.

### ***Johnmartinia orbicularis* (TATE, 1896)**

**CPC 15522:** Figured specimen (internal mould of left valve) -- POJETA & GILBERT-TOMLINSON, 1977, p. 15, Pl. 9, figs 1-4.

**Locality:** NT639 - float from the sandstone cap of a mesa on the lower slopes at the western end of Mount Watt, 38 km west-southwest of the Horseshoe Bend on the Finke River, Northern Territory, Australia. 25.33°S, 133.888°E. FINKE 1:250,000 sheet SG53-6.

**Horizon:** Stairway Sandstone, Amadeus Basin.

**Age:** Early Darriwilian, Ordovician.

**CPC 15523:** Figured specimen (internal mould of right valve) -- POJETA & GILBERT-TOMLINSON, 1977, p. 15, Pl. 9, figs 5-7.

**Locality, horizon, and age** as for CPC 15522.

**CPC 15524:** Figured specimen (incomplete steinkern) -- POJETA & GILBERT-TOMLINSON, 1977, p. 15, Pl. 9, fig. 8.

**Locality, horizon, and age** as for CPC 15522.

**CPC 15525:** Figured specimen (internal mould of right valve) -- POJETA & GILBERT-TOMLINSON, 1977, p. 15, Pl. 10, fig. 1.

**Locality, horizon, and age** as for CPC 15522.

**CPC 15526:** Figured specimen (internal mould of right valve) -- POJETA & GILBERT-TOMLINSON, 1977, p. 15, Pl. 10, figs 2-4.

**Locality, horizon, and age** as for CPC 15522.

**CPC 15527:** Figured specimen (composite mould) -- POJETA & GILBERT-TOMLINSON, 1977, p. 15, Pl. 10, figs 5-6.

**Locality, horizon, and age** as for CPC 15522.

**CPC 15528:** Figured specimen (external mould) -- POJETA & GILBERT-TOMLINSON, 1977, p. 15, Pl. 10, fig. 7.

**Locality, horizon, and age** as for CPC 15522.

### ***Leconychia doylei* POJETA & GILBERT-TOMLINSON, 1977**

**CPC 15560: HOLOTYPE**, type species (internal mould of left valve) -- POJETA & GILBERT-TOMLINSON, 1977, p. 23, Pl. 18, figs 1-3.

**Locality:** H114 - about 1.6 km east of Mount Ultim, in the foothills of the Dulcie Plateau, Northern Territory, Australia. 22.4925°S, 135.9108°E. HUCKITTA 1:250,000 sheet SF53-11.

**Horizon:** Nora Formation?, Georgina Basin.

**Age:** Early Darriwilian, Ordovician.

### ***Leiopteria? carrandibbiensis* DICKINS, 1957**

*See Leptodesma (Leiopteria?) carrandibbiensis*

### ***Leptodesma (Leiopteria?) carrandibbiensis* DICKINS, 1957**

*Considered a distinct genus by Dickins, 1957, Leiopteria is treated as a subgenus of Leptodesma in Dickins & Skwarko, 1993A.*

- CPC 2224: HOLOTYPE** (partly obscured and decorticated left valve) -- DICKINS, 1957, pp. 30-32, Pl. IV, fig. 14. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves p. 16, Pl. 46, fig. 31.  
**Locality:** WB52 - about 1 mile (1.6 km) west of Callytharra Spring, on the south side of the Wooramel River, "Byro" Station, Western Australia. 25.871°S, 115.494°E. Grid reference LS 490371, CALLYTHARRA 1:100,000 sheet 1946; WOORAMEL 1:250,000 sheet SG50-5.  
**Horizon:** Carrandibby Formation, Carnarvon Basin.  
**Age:** Tastubian Substage, Sakmarian, Early Permian.  
**Remarks:** CPC 2224 and 2226 are on the same specimen.
- CPC 2225:** Figured Paratype A (shell) -- DICKINS, 1957, pp. 30-32, Text-fig. 4, Pl. IV, figs 16-17. DICKINS & SKWARKO, 1993A, microfiche 6, p. 16, Pl. 46, fig. 32.  
**Locality:** GW81 - about 1 mile (1.6 km) west of Callytharra Spring, on the south side of the Wooramel River, "Byro" Station, Western Australia. 25.871°S, 115.494°E. Grid reference LS 490371, CALLYTHARRA 1:100,000 sheet 1946; WOORAMEL 1:250,000 sheet SG50-5.  
**Horizon and age** as for CPC 2224.
- CPC 2226:** Figured Paratype B (incomplete valve) -- DICKINS, 1957, pp. 30-32, Text-fig. 4, Pl. IV, fig. 15. DICKINS & SKWARKO, 1993A, microfiche 6, p. 16.  
**Locality, horizon, age and remarks** as for CPC 2224.
- CPC 2227:** Figured Paratype C (partly exposed right valve) -- DICKINS, 1957, pp. 30-32, Pl. IV, fig. 13. DICKINS & SKWARKO, 1993A, microfiche 6, p. 16.  
**Locality, horizon, and age** as for CPC 2224.

### ***Lithophaga?* sp. DICKINS, 1963**

- CPC 3902:** Figured specimen A (internal mould of right valve) -- DICKINS, 1963, p. 63, Pl. 8, figs 3-4. DICKINS & SKWARKO, 1993A, microfiche 6, p. 12.  
**Locality:** SG120A - 16 miles (25.7 km) at 120° (true) from Mount Tuckfield, southern Saint George Range, Western Australia. 18.806°S, 125.314°E. NOONKANBAH 1:250,000 sheet SE51-12.  
**Horizon:** Marine horizon at the base of the Poole Sandstone, Canning Basin.  
**Age:** Aktastinian Substage, Artinskian, Early Permian.
- CPC 3903:** Figured specimen B (internal mould of left valve) -- DICKINS, 1963, p. 63, Pl. 8, figs 1-2. DICKINS & SKWARKO, 1993A, microfiche 6, p. 12.  
**Locality, horizon and age** as for CPC 3902; see also remarks to CPC 3904.
- CPC 3904:** Cited specimen (internal mould of right valve) -- DICKINS, 1963, p. 63. DICKINS & SKWARKO, 1993A, microfiche 6, p. 12.  
**Locality, horizon, and age** as for CPC 3902.  
**Remarks:** CPC 3904 cannot be found, but a label so numbered designates it as "Figured Specimen B" - which is correctly cited by Dickins on p. 63 as CPC 3903. The confusion cannot be resolved.

### **Lucinoidea, gen. et sp. nov. JOHNSTON, 1993**

- CPC 30755:** Figured specimen -- JOHNSTON, 1993, pp. 121-122, Figs 85B-C.  
**Locality:** Macquarie University locality "Barbers 20": 7.5 km north-northeast of Wee Jasper village, New South Wales, Australia. Grid reference FB 507211, BRINDABELLA 1:100,000 sheet.  
**Horizon:** Taemas Formation, Murrumbidgee Group, Lachlan Fold Belt.  
**Age:** Emsian, Early Devonian.
- CPC 30756:** Cited specimen -- JOHNSTON, 1993, pp. 121-122.  
**Locality, horizon, and age** as for CPC 30755.
- CPC 30757:** Figured specimen (fragmentary silicified left valve) -- JOHNSTON, 1993, pp. 121-122, Fig. 85A.  
**Locality:** Macquarie University locality "Barbers 17": 7.5 km north-northeast of Wee Jasper village, New South Wales, Australia. Grid reference FB 507211, BRINDABELLA 1:100,000 sheet.  
**Horizon and age** as for CPC 30755.

***Megadesmus (Cleobis) grandis* DANA, 1847**

**CPC 6801:** Figured specimen (internal mould) -- RUNNEGAR, 1965, pp. 242-244, Pl. 15, fig. 5.

**Locality:** M418 - about 2 km southwest of "Homevale" homestead, northwest of Nebo, Queensland, Australia. 21.4517°S, 148.5093°E. MACKAY 1:250,000 sheet SF55-8.

**Horizon:** Lower Blenheim Subgroup (below the Big *Strophalosia* Zone), Back Creek Group, Bowen Basin.

**Age:** Ufimian, early Late Permian.

**CPC 6802:** Figured specimen (internal mould) -- RUNNEGAR, 1965, pp. 242-244, Pl. 15, fig. 6.

**Locality:** M416 - about 3 km southwest of "Homevale" homestead, northwest of Nebo, Queensland, Australia. Approximately 21.463°S, 148.508°E. MACKAY 1:250,000 sheet SF55-8.

**Horizon:** Upper Gebbie Subgroup, Back Creek Group, Bowen Basin.

**Age:** Artinskian to Kungurian, Early Permian.

***Megadesmus (Megadesmus) gryphoides* (DE KONINCK, 1876)**

*See also Astartila? sp. cf. gryphoides*

The specimen tentatively referred to this species, as an *Astartila*, by Hill & Woods, 1964, was definitely included in the species, now referred to *Megadesmus*, by Hill, Playford & Woods, 1972.

**CPC 5172:** Figured specimen (steinkern) -- HILL & WOODS, 1964, pl. PX, figs 6a-b. HILL, PLAYFORD & WOODS, 1972, pl. PX, figs 6a-b.

**Locality:** M415 - about 3.3 km south of "Homevale" homestead, 500 m southwest of Moonlight Creek, northwest of Nebo, Queensland, Australia. 21.4699°S, 148.5202°E. MACKAY 1:250,000 sheet SF55-8.

**Horizon:** Lower Gebbie Subgroup, Back Creek Group, Bowen Basin.

**Age:** Baigendzhinian Substage, Artinskian, Early Permian.

**CPC 6796:** Figured specimen (internal mould of right valve) -- RUNNEGAR, 1965, pp. 239-242, Pl. 13, figs 2-4. RUNNEGAR, 1966, Text-fig. 1H.

**Locality:** Homevale C, "Homevale" homestead area, Mount Britton district northwest of Nebo, Queensland, Australia.

**Horizon:** Homevale beds, Tiverton Subgroup, Back Creek Group, Bowen Basin.

**Age:** Artinskian, Early Permian.

**CPC 6797:** Figured specimen (internal and external moulds of left valve) -- RUNNEGAR, 1965, pp. 239-242, Pl. 13, fig. 5.

**Locality:** B686 - in the headwaters of the Bowen River, 1.8 km east-northeast of "Exmoor" homestead, central Queensland, Australia. 20.945°S, 148.142°E. BOWEN 1:250,000 sheet SF55-3.

**Horizon:** Tiverton Subgroup, Back Creek Group, Bowen Basin.

**Age:** Artinskian, Early Permian.

**CPC 6798:** Figured specimen (external mould) -- RUNNEGAR, 1965, pp. 239-242, Pl. 13, fig. 6.

**Locality:** SL199 - 4 km (2.5 miles) west of "Collaroy" homestead, ¼ mile (400 m) west of the Connors River, Saint Lawrence area, Queensland, Australia (on the published geological map, shown as on the east bank of the river 4.7 km west-northwest of the homestead!). 22.021°S, 149.143°E. Grid reference 190251, SAINT LAWRENCE 1:250,000 sheet SF55-12.

**Horizon:** Lizzie Creek Volcanics, Bowen Basin.

**Age:** Sterlitamakian Substage, Sakmarian, Early Permian.

**CPC 6799:** Figured specimen (internal mould) -- RUNNEGAR, 1965, pp. 239-242, Pl. 13, fig. 12.

**Locality:** MC485 - about 800 m southwest of Hazlewood Creek 2.4 km (1.5 miles) southeast of the Lizzie Creek road crossing, 8.5 km southeast of "Turrawalla" homestead, Queensland, Australia. 21.196°S, 148.255°E. MOUNT COOLON 1:250,000 sheet SF55-7.

**Horizon and age** as for CPC 6796.

**CPC 6800:** Figured specimen (steinkern) -- RUNNEGAR, 1965, pp. 239-242, Pl. 13, fig. 13.

**Locality:** Probably MC426 - ¾ mile (1.2 km) northwest of the Lizzie Creek road crossing of Hazelwood Creek, Queensland, Australia. MOUNT COOLON 1:250,000 sheet SF55-7.

**Horizon:** Upper Lizzie Creek Volcanics, Bowen Basin.

**Age:** Sterlitamakian Substage, Sakmarian, Early Permian.

## ***Megadesmus* sp. DICKINS, 1963**

**CPC 3880:** Figured specimen (worn internal mould of left valve) -- DICKINS, 1963, p. 45, Pl. 4, figs 1-3. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves p. 44, Pl. 48, fig. 22.

**Locality:** WB180 - cited as being about 6 miles south-southeast of Plant Well, "Coordewandy" Station (25.643°S, 115.913°E), Western Australia, where the map shows no Callytharra Formation outcrops. The nearest such outcrops are southeast of the well, about 400 m north of the track leading southeast from it, at 25.6128°S, 115.9389°E. GLENBURGH 1:250,000 sheet SG50-6.

**Horizon:** Callytharra Formation, Carnarvon Basin.

**Age:** Sakmarian, Early Permian.

## ***Megadesmus?* sp. B DICKINS & SKWARKO IN SKWARKO, 1993**

*See also Pachydomus? sp.*

Waterhouse (1969, p. 41) showed that *Pachydomus* is an objective synonym of *Megadesmus*; this was followed, in referring to *Pachydomus? sp.* Dickins, 1957, by Dickins & Skwarko, 1993A. Those authors, to avoid confusion with *Megadesmus sp.* Dickins, 1963, referred to the 1957 form as *species B*.

**CPC 2218:** Figured specimen (damaged internal mould of left valve) -- DICKINS, 1957, pp. 26-27, Text-fig. 3, Pl. IV, figs 1-4. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves pp. 44-5. Initially registered as F 17203.

**Locality:** 1949/68 - cited as 3 miles (4.8 km) west of "Moogooree" homestead; the register entry for F17203 gives the locality as "1.4 miles east of Callytharra outcrop, old road from Donnelly's Well to Moogooree Homestead", Western Australia. Approximately 24.065°S, 115.162°E. Grid reference approximately LU 131375, MOUNT SANDIMAN 1:100,000 sheet 1949; KENNEDY RANGE 1:250,000 sheet SG50-1.

**Horizon:** 1250ft (381m) below the top of the Lyons Group, Canarvon Basin, where that is about 1070 m thick.

**Age:** Asselian, Early Permian.

**CPC 2219:** Cited specimen (internal mould of left valve) -- DICKINS, 1957, pp. 26-27.

**Locality:** ML108 - given by Dickins as about 3 miles (4.8 km) northeast of Round Hill Well, 1.65km west of Kialawibri Creek road crossing, "Winning" Station, Western Australia. Condon, 1967, pp. 47-48, gives it as being on the north bank of Kialawibri Creek 1.5 to 2.25 miles (2.4 - 3.6 km) above its junction with the Lyndon River. Approximately 23.34°S, 114.463°E. Grid reference KV 640165, WINNING 1:100,000 sheet 1851; WINNING POOL 1:250,000 sheet SF50-13.

**Horizon:** Carrandibby Formation, Carnarvon Basin. Condon puts the locality in the Thambrong Formation, Skwarko, 1993, in the upper Lyons Group.

**Age:** Tastubian Substage, Sakmarian, Early Permian.

**Remarks:** A label with specimen, in Dickins' handwriting, gives the locality number as ML105 (see CPC 2220).

**CPC 2220:** Cited specimen (incomplete internal mould of left valve) -- DICKINS, 1957, pp. 26-27.

**Locality:** ML 105 - about 3.75 miles (6 km) northeast of Round Hill Well, 700 ft (213 m) west of Kialawibri Creek road crossing, "Winning" Station, Western Australia; given by Condon, 1967, pp. 47-48, as 1.5 to 2.25 miles (2.4 to 3.6 km) above the mouth of the creek, on the north bank. Approximately 23.34°S, 114.463°E. Grid reference KV 653161, WINNING 1:100,000 sheet 1851; WINNING POOL 1:250,000 sheet SF50-13.

**Horizon:** Thambrong Formation, Lyons Group, Canarvon Basin.

**Age:** Asselian, Early Permian.

## ***Merismopteria* sp. cf. *imbricata* (DANA, 1847)**

**CPC 20154:** Figured specimen -- DICKINS, 1981, p. 28, Pl. 2, fig. 14.

**Locality:** TH198 - 4 km east-northeast of Silverwood railway siding., south of Warwick, southeastern Queensland, Australia. 28.3375°S, 152.0490°E. WARWICK 1:250,000 sheet SH56-2.

**Horizon:** Eight Mile Creek beds.

**Age:** Baigendzhinian Substage, Artinskian, Early Permian.

**CPC 20155:** Figured specimen -- DICKINS, 1981, p. 28, Pl. 2, fig. 15.

**Locality, horizon, and age** as for CPC 20154.

### ***Merismopteria* sp. DICKINS, 1960**

**CPC 107:** Figured specimen (internal mould of right valve) -- DICKINS, 1960, p. 389, Pl. 63, fig. 12.

**Locality:** JB35 - east end of Steamer's Beach, south of Jervis Bay, Australian Capital Territory, Australia. 35.174°S, 150.731°E. ULLADULLA 1:250,000 sheet SI56-13.

**Horizon:** Sydney Basin -- "from beds probably equivalent to the Conjola Beds...".

**Age:** Permian.

### ***Middalya johnstonei* DICKINS, 1956**

*See Neoschizodus johnstonei*

Dickins' species was transferred without comment to *Neoschizodus* Giebel, 1855, by Dickins & Skwarko, 1993A.

### ***Modiolopsis?* sp. A POJETA & GILBERT-TOMLINSON, 1977**

**CPC 15567:** Figured specimen (right valve) -- POJETA & GILBERT-TOMLINSON, 1977, p. 26, Pl. 23, fig. 10.

**Locality:** Rd251 - in a faulted syncline 5 km northwest of Bloodwood Bore, Northern Territory, Australia. 24.4501°S, 133.8971°E. RODINGA 1:250,000 sheet SG53-2.

**Horizon:** Stairway Sandstone, Amadeus Basin.

**Age:** Early Darriwilian, Ordovician.

### ***Modiolus koneckii* DICKINS, 1963**

**CPC 3899:** Figured Paratype C (internal mould of right valve) -- DICKINS, 1963, pp. 61-62, Pl. 8, fig 9. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves pp. 12-13.

**Locality:** WB266 - 30 miles (48 km) west-northwest of "Curbur" homestead, Western Australia. 26.3667°S, 115.4167°E. YARINGA 1:250,000 sheet SG50-9.

**Horizon:** Callytharra Formation, Carnarvon Basin.

**Age:** Sakmarian, Early Permian.

**CPC 3900:** Figured Paratype D (internal mould of right valve) -- DICKINS, 1963, pp. 61-62, Pl. 8, fig 6. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves pp. 12-13.

**Locality:** KPA54 - 16 miles (25.7 km) at 120° (true) from Mount Tuckfield, southern Saint George Range, Western Australia. 18.806°S, 125.314°E. NOONKANBAH 1:250,000 sheet SE51-12.

**Horizon:** Near the base of the Poole Sandstone, Canning Basin.

**Age:** Aktastinian Substage, Artinskian, Early Permian.

### ***Modiolus koneckii* DICKINS, 1963?**

**CPC 3901:** Figured specimen (internal mould of right valve) -- DICKINS, 1963, p. 62, Pl. 8, fig. 5. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves pp. 12-13.

**Locality:** SG120A - 16 miles (25.7 km) at 120° (true) from Mount Tuckfield, southern Saint George Range, Western Australia. 18.806°S, 125.314°E. NOONKANBAH 1:250,000 sheet SE51-12.

**Horizon:** Marine horizon at the base of the Poole Sandstone, Canning Basin.

**Age:** Aktastinian Substage, Artinskian, Early Permian.

### ***Myofossa subarbitrata* (DICKINS, 1963)**

*See also Myonia subarbitrata*

Originally ascribed to *Myonia*, and transferred without comment to *Myofossa* by Dickins & Skwarko, 1993A.

**CPC 3885: HOLOTYPE** (internal mould of left valve) -- DICKINS, 1963, pp. 48-49, Pl. 5, figs 6-7. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves pp.52-53, Pl. 48, fig. 29.

**Locality:** KNuA1 - 1.6 miles (2.6 km) southwest of "Paradise" homestead, Nura Nura Ridge area, Western Australia.

18.0417°S, 124.5167°E. NOONKANBAH 1:250,000 sheet SE51-12.

**Horizon:** Nura Nura Member, Poole Sandstone, Canning Basin.

**Age:** Sterlitamakian Substage, Late Sakmarian, Early Permian.

**Remarks:** Misquoted as CPC 3385 in the plate explanation in Skwarko, 1993.

**CPC 3886:** Figured Paratype A (internal mould of crushed left valve) -- DICKINS, 1963, pp. 48-49, Pl. 5, figs 8-10. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves pp. 52-53.

**Locality, horizon, and age** as for CPC 3885.

**CPC 3887:** Figured Paratype B (internal mould of right valve) -- DICKINS, 1963, pp. 48-49, Pl. 5, figs 11-12. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves pp. 52-53.

**Locality, horizon, and age** as for CPC 3885.

**CPC 3888:** Figured Paratype C -- DICKINS, 1963, pp. 48-49, Pl. 5, figs 2-3. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves pp. 52-53.

**Locality, horizon, and age** as for CPC 3885.

**CPC 3889:** Paratype D (internal mould of right valve) -- DICKINS, 1963, pp. 48-49. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves pp. 52-53.

**Locality, horizon, and age** as for CPC 3885.

**CPC 3890:** Figured Paratype E (internal mould of right valve) -- DICKINS, 1963, pp. 48-49, Pl. 5, fig 4. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves pp. 52-53.

**Locality:** PB7 - Carynginia Gully, about 1/2 mile (0.8 km) at 334° (true) from Carynginia No. 1 Well, Irwin River area east of Geraldton, Western Australia. 28.924°S, 115.072°E. YALGOO 1:250,000 sheet SH50-2.

**Horizon:** Cited as "Fossil Cliff Formation": Fossil Cliff Member?, Holmwood Shale, Perth Basin, Irwin Sub-basin -- plots within undifferentiated Holmwood Shale on the 1977 map.

**Age:** Sakmarian, Early Permian.

**CPC 4017:** Figured Paratype F -- DICKINS, 1963, pp. 48-49, Pl. 5, figs 5, 22. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves pp. 52-53.

**Locality:** W33C(1) - precise location uncertain, but close to KNuA1 - i.e. about 2.6 km southwest of "Paradise" homestead, Western Australia. 18.0417°S, 124.5167°E. NOONKANBAH 1:250,000 sheet SE51-12.

**Horizon and age** as for CPC 3885.

### ***Myonia carinata* (MORRIS, 1845)?**

**CPC 7502:** Figured specimen -- RUNNEGAR, 1967, pp. 50-53, Pl. 4, fig. 11.

**Locality:** MC485 - about 800 m southwest of Hazlewood Creek 2.4 km (1.5 miles) southeast of the Lizzie Creek road crossing, 8.5 km southeast of "Turrawalla" homestead, Queensland, Australia. 21.196°S, 148.255°E. MOUNT COOLON 1:250,000 sheet SF55-7.

**Horizon:** Homevale beds, Tiverton Subgroup, Back Creek Group, Bowen Basin.

**Age:** Artinskian, Early Permian.

**CPC 7503:** Figured specimen (internal mould) -- RUNNEGAR, 1967, pp. 50-53, Pl. 4, figs 12-13.

**Locality:** MC479 - about 1 km northwest of the "Turrawalla" - Eungella road crossing of Hazlewood Creek, about 5.8 km east-southeast of "Turrawalla", and about 500 m northeast of the creek, Queensland, Australia. 21.183°S, 148.295°E. MOUNT COOLON 1:250,000 sheet SF55-7.

**Horizon:** Upper Lizzie Creek Volcanics, Bowen Basin.

**Age:** Sterlitamakian Substage, Sakmarian, Early Permian.

### ***Myonia carinella* RUNNEGAR, 1967**

**CPC 7501:** Figured Paratype (steinkern and external mould) -- RUNNEGAR, 1967, pp. 58-59, Pl. 4, fig. 10. RUNNEGAR, 1974, Pl. 1, fig. 9.

**Locality:** M416 - south of the Lake Elphinstone road, about 250 m east of Cooper Creek, about 3 km (Runnegar: 2.8 km) southwest of "Homevale" homestead, northwest of Nebo, Queensland, Australia. 21.463°S, 148.508°E. MACKAY 1:250,000 sheet SF55-8.

**Horizon:** Upper Gebbie Subgroup (Runnegar: Blenheim Subgroup), Back Creek Group, Bowen Basin.

**Age:** From Archbold & Dickins, 1991, the upper Gebbie Subgroup is of Kungurian to early Ufimian age, the Blenheim Subgroup late Ufimian to Kazanian, a range of late Early to early Late Permian.

### ***Myonia corrugata* FLETCHER, 1932**

**CPC 7505:** Figured specimen (external mould) -- RUNNEGAR, 1967, pp. 56-57, Pl. 6, fig. 1.

**Locality:** CL42/6 - at the head of Tomahawk Creek, 7.2 km west of "Mount Roper" homestead, Queensland, Australia. 22.824°S, 148.345°E. CLERMONT 1:250,000 sheet SF55-11.

**Horizon:** *Strophalosia clarkei* beds, Blenheim Subgroup, Back Creek Group, Bowen Basin.

**Age:** Ufimian to Kazanian, Late Permian.

**CPC 7506:** Figured specimen (shell) -- RUNNEGAR, 1967, pp. 56-57, Pl. 6, figs 3-4.

**Locality:** CL255/1 - Isabella Creek about 600 m west of the track to "Malvern Downs", 2 km south of "Woolamba" homestead, Queensland, Australia. 22.964°S, 148.277°E. CLERMONT 1:250,000 sheet SF55-11.

**Horizon and age** as for CPC 7505.

**CPC 7507:** Figured specimen (incomplete internal mould of right valve) -- RUNNEGAR, 1967, pp. 56-57, Pl. 6, fig. 5.

**Locality:** CL12/1 - on the east side of Cherwell Creek 4.25 km south of "Mount Lebanon" homestead, north-northwest of Clermont, Queensland, Australia. 22.257°S, 147.974°E. CLERMONT 1:250,000 sheet SF55-11.

**Horizon:** Bivalve bed about 20 ft (6 m) above the *Strophalosia clarkei* bed, Blenheim Subgroup, Back Creek Group, Bowen Basin.

**Age:** Ufimian, early Late Permian.

**CPC 7508:** Figured specimen (shell fragment) -- RUNNEGAR, 1967, pp. 56-57, Pl. 6, fig. 9.

**Locality:** CL132/B - on a tributary of Cherwell Creek, 1.1 km west of the highway, 3.5 km south-southwest of the turnoff to "Mount Lebanon" homestead, north-northwest of Clermont, Queensland, Australia. 22.312°S, 147.956°E. CLERMONT 1:250,000 sheet SF55-11.

**Horizon and age** as for CPC 7505.

### ***Myonia* sp. cf. *corrugata* FLETCHER, 1932**

**CPC 20147:** Figured specimen -- DICKINS, 1981, pp. 26-27, Pl. 1, fig. 3.

**Locality:** TH198 - 4 km east-northeast of Silverwood railway siding, south of Warwick, southeastern Queensland, Australia. 28.3375°S, 152.0490°E. WARWICK 1:250,000 sheet SH56-2.

**Horizon:** Eight Mile Creek beds.

**Age:** Baigendzhinian Substage, Artinskian, Early Permian.

**CPC 20148:** Figured specimen -- DICKINS, 1981, pp. 26-27, Pl. 1, fig. 2.

**Locality, horizon, and age** as for CPC 20147.

### ***Myonia* sp. cf. *davidis* DUN**

*See Myonia morrisi*

The specimen compared with *M. davidis* by Hill & Woods, 1964, was referred to *M. morrisi* by Hill, Playford & Woods, 1972.

### ***Myonia elata* (POPOV, 1957)**

*See also Pachymyonia elata*

Transferred from *Pachymyonia* to *Myonia* by Runnegar, 1967.

**CPC 10273:** Cited specimen (as F 21979) -- RUNNEGAR, 1967, p. 61.

**Locality:** Kharualakh Mountains, Russia.

**Age:** Late Permian.

## ***Myonia morrisi* (ETHERIDGE, 1919)**

*See also Myonia sp. cf. davidis*

The specimen compared with *M. davidis* by Hill & Woods, 1964, was referred to *M. morrisi* by Hill, Playford & Woods, 1972.

**CPC 5173:** Figured specimen (internal mould of left valve) -- HILL & WOODS, 1964, pl. PX, fig. 8. HILL, PLAYFORD & WOODS, 1972, pl. PX, fig. 8.

**Locality:** ¼ mile (400 m) east of "Homevale" homestead, northwest of Nebo, Queensland, Australia. MACKAY 1:250,000 sheet SF55-8.

**Horizon:** Homevale beds, Tiverton Subgroup, Back Creek Group, Bowen Basin.

**Age:** Early Artinskian, Early Permian.

**CPC 7498:** Figured specimen (internal mould) -- RUNNEGAR, 1967, pp. 53-55, Pl. 4, fig. 3.

**Locality:** MC479 - about 1 km northwest of the "Turrawalla" - Eungella road crossing of Hazlewood Creek, about 5.8 km east-southeast of "Turrawalla", and about 500 m northeast of the creek, Queensland, Australia. 21.183°S, 148.295°E. MOUNT COOLON 1:250,000 sheet SF55-7.

**Horizon:** Upper Lizzie Creek Volcanics, Bowen Basin.

**Age:** Sterlitamakian Substage, Sakmarian, Early Permian.

**CPC 7499:** Figured specimen (internal mould) -- RUNNEGAR, 1967, pp. 53-55, Pl. 4, figs 4-5.

**Locality:** Homevale Bed D, "Homevale" homestead area (precise location unknown), northwest of Nebo, Queensland, Australia. 21.45°S, 148.033°E. MACKAY 1:250,000 sheet SF55-8.

**Horizon and age** as for CPC 5173.

**CPC 7504:** Figured specimen (internal mould of left valve) -- RUNNEGAR, 1967, pp. 53-55, Pl. 5, figs 1-2. RUNNEGAR, 1974, Pl. 1, fig. 1.

**Locality:** SL199 - 4 km (2.5 miles) west of "Collaroy" homestead, ¼ mile (400 m) west of the Connors River, Saint Lawrence area, Queensland, Australia (on the published geological map, shown as on the east bank of the river 4.7 km west-northwest of the homestead!). 22.021°S, 149.143°E. Grid reference 190251, SAINT LAWRENCE 1:250,000 sheet SF55-12.

**Horizon:** Lizzie Creek Volcanics, Bowen Basin.

**Age:** Sterlitamakian Substage, Sakmarian, Early Permian.

## ***Myonia olgersi* DICKINS, 1981**

**CPC 20149: HOLOTYPE** -- DICKINS, 1981, p. 27, Pl. 1, fig. 7.

**Locality:** TH198 - 4 km east-northeast of Silverwood railway siding, south of Warwick, southeastern Queensland, Australia. 28.3375°S, 152.0490°E. WARWICK 1:250,000 sheet SH56-2.

**Horizon:** Eight Mile Creek beds.

**Age:** Baigendzhinian Substage, Artinskian, Early Permian.

**CPC 20150:** Figured Paratype -- DICKINS, 1981, p. 27, Pl. 1, figs 4-6.

**Locality, horizon, and age** as for CPC 20149.

**CPC 20151:** Figured Paratype -- DICKINS, 1981, p. 27, Pl. 1, fig. 10.

**Locality, horizon, and age** as for CPC 20149.

**CPC 20152:** Figured Paratype -- DICKINS, 1981, p. 27, Pl. 1, figs 8-9.

**Locality, horizon, and age** as for CPC 20149.

**CPC 20153:** Figured Paratype -- DICKINS, 1981, p. 27, Pl. 1, fig. 11.

**Locality, horizon, and age** as for CPC 20149.

## ***Myonia subarbitrata* DICKINS, 1963**

*See Myofossa subarbitrata*

Dickins' species was transferred to *Myofossa* without comment by Dickins & Skwarko, 1993A.

***Myonia? sulcata* RUNNEGAR, 1967**

*See Australomya sulcata*

Runnegar, 1969B, transferred this species from *Myonia?* to *Australomya*.

***Myonia* sp. nov. DICKINS, 1963**

**CPC 3891:** Figured specimen (left valve) -- DICKINS, 1963, p. 50, Pl. 5, fig 18. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves pp. 49-50, Pl. 48, fig. 30.

**Locality:** G202 - on a crest at the base of a ridge (probably hill 224) 5.9 miles (9.45 km) at 335° (true) from "Lyons River" homestead, Western Australia. 24.5553°S, 115.2975°E. Grid reference LT 276831, LYONS RIVER 1:100,000 sheet 1948; KENNEDY RANGE 1:250,000 sheet SG50-1.

**Horizon:** Local exposed top of the Callytharra Formation, Carnarvon Basin.

**Age:** Sterlitamakian Substage, Sakmarian, Early Permian.

***Myonia* sp. nov.? RUNNEGAR, 1967**

**CPC 7500:** Figured specimen (internal mould) -- RUNNEGAR, 1967, p. 55, Pl. 4, figs 6-7.

**Locality:** M415 - about 3.1 km south-southwest of "Homevale" homestead, 500 m southwest of Moonlight Creek, northwest of Nebo, Queensland, Australia. 21.4699°S, 148.5202°E. MACKAY 1:250,000 sheet SF55-8.

**Horizon:** Lower Gebbie Subgroup, Back Creek Group, Bowen Basin.

**Age:** Baigendzhinian Substage, Artinskian, Early Permian.

***Mytilarca bloomfieldensis* JOHNSTON, 1993**

**CPC 30765, 30766:** Cited specimens -- JOHNSTON, 1993, pp. 21-22.

**Locality:** Macquarie University locality "Barbers 17": 7.5 km north-northeast of Wee Jasper village, New South Wales, Australia. Grid reference FB507211, BRINDABELLA 1:100,000 sheet.

**Horizon:** Receptaculites Limestone Member, Taemas Formation, Murrumbidgee Group, Lachlan Fold Belt.

**Age:** Emsian, Early Devonian.

**CPC 30767:** Figured specimen (silicified left valve) -- JOHNSTON, 1993, pp. 21-22, Figs 130-P.

**Locality:** Macquarie University locality "Bloomfield" (= Australian National University locality R7): "Bloomfield" station, about 2 km northwest of Taemas bridge, west of Yass, New South Wales, Australia. Grid reference FB 673265, YASS 1:100,000 sheet 8628.

**Horizon and age** as for CPC 30765.

**Remarks:** Misprinted in the caption to Fig. 13 as CPC 40767.

***Neoschizodus johnstonei* (DICKINS, 1956)**

*See also Middalya johnstonei*

*Middalya johnstonei*, the type species, was transferred without comment to *Neoschizodus* by Dickins & Skwarko, 1993A.

**CPC 1301: HOLOTYPE**, type species of *Middalya* (internal mould of left valve) -- DICKINS, 1956, pp. 36-38, Text-fig. 3, Pl. VI, figs 1-3. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves pp. 37-38. Initially registered as F 17116.

**Locality:** 2.5 miles (4 km) west-northwest of Baker's Bore, "Middalya" Station, Western Australia.

**Horizon:** Coolkilya Greywacke, Kennedy Group, Carnarvon Basin.

**Age:** Kungurian, Early Permian.

**CPC 1302:** Figured Paratype, (internal mould of left valve) -- DICKINS, 1956, pp. 36-38, Pl. VI, fig. 4. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves pp. 37-38. Initially registered as F 17116.

**Locality, horizon, and age** as for CPC 1301.

**CPC 1303:** Figured Paratype, (internal mould of left valve) -- DICKINS, 1956, pp. 36-38, Pl. VI, fig. 5. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves pp. 37-38. Initially registered as F 17116.

**Locality, horizon, and age** as for CPC 1301.

**CPC 1304:** Figured Paratype -- DICKINS, 1956, pp. 36-38, Pl. VI, fig. 7. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves pp. 37-38, Pl. 48, fig. 3. Initially registered as F 17113.

**Locality:** About 3.7 miles (6 km) slightly north of east of Southern Cross Bore, "Middalya" Station, Western Australia.

**Horizon and age** as for CPC 1301.

**CPC 1305:** Figured Paratype (left valve) -- DICKINS, 1956, pp. 36-38, Pl. VI, fig. 6. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves pp. 37-38. Initially registered as F 17003.

**Locality:** Immediately south of Baker's Bore, "Middalya" Station, Western Australia.

**Horizon and age** as for CPC 1301.

### ***Noradonta shergoldi* POJETA & GILBERT-TOMLINSON, 1977**

**CPC 15590:** Figured Paratype, type species (internal mould of left valve) -- POJETA & GILBERT-TOMLINSON, 1977, pp. 30-31, Pl. 27, fig. 1.

**Locality:** GEO 308/2-74 - *ex situ* on the northeast side of the road to Coolibah Yard (The Gap), between two hills, 5.6 km north-northwest of Burnt Well, Northern Territory, Australia. 22.916°S, 137.847°E. TOBERMORY 1:250,000 sheet SF53-12.

**Horizon:** Nora Formation, Georgina Basin.

**Age:** Early Darriwilian, Ordovician.

**CPC 15591:** Figured Paratype, type species (internal mould of left valve) -- POJETA & GILBERT-TOMLINSON, 1977, pp. 30-31, Pl. 27, fig. 5.

**Locality, horizon, and age** as for CPC 15590.

**CPC 15592:** Figured Paratype, type species (internal mould of right valve) -- POJETA & GILBERT-TOMLINSON, 1977, pp. 30-31, Pl. 27, fig. 6.

**Locality, horizon, and age** as for CPC 15590.

### ***Nuculana darwini* (DE KONINCK, 1877)**

#### ***Nuculana lyonsensis* DICKINS, 1956**

#### ***Nuculana thomasi* DICKINS, 1956**

*See Phestia darwini, P. lyonsensis, P. thomasi*

Dickins (1963, pp. 37-38) transferred the material described in 1957 under *Nuculana darwini* and *N. lyonsensis* to *Phestia Chernyshev*, and redescribed the species. Although not redescribed, by implication *N. thomasi* was also transferred at this time; certainly the species was referred to *Phestia* by Dickins & Shah, 1979.

### ***Nuculites* sp. JOHNSTON, 1993**

**CPC 30741:** Figured specimen (silicified right valve) -- JOHNSTON, 1993, Figs 12I-J.

**Locality:** Macquarie University locality PB3: north-northwest facing exposures on Patmore's property, about 2 km south-southeast of Good Hope, west of Yass, New South Wales, Australia. Grid reference FB 654321, YASS 1:100,000 sheet 8628.

**Horizon:** Warroo Limestone Member, Taemas Formation, Murrumbidgee Group, Lachlan Fold Belt.

**Age:** Emsian, Early Devonian.

### ***Nuculopsis* sp. JOHNSTON, 1993**

**CPC 30742:** Figured specimen (silicified left valve) -- JOHNSTON, 1993, Figs 12G-H.

**Locality:** Locality uncertain, other than in the Wee Jasper area west of Yass, New South Wales, Australia. BRINDABELLA 1:100,000 sheet.

**Horizon:** Taemas Formation, Murrumbidgee Group, Lachlan Fold Belt.  
**Age:** Emsian, Early Devonian.

***Nuculopsis (Nuculanella) bangarraensis* DICKINS, 1963**

**CPC 3862:** Figured Paratype B (internal mould of right valve) -- DICKINS, 1963, pp. 31-32, Pl. 1, fig. 7. DICKINS & SKWARKO, 1993A, microfiche 5, Bivalves p. 2.

**Locality:** PB7 - Carynginia Gully, about 1/2 mile (0.8 km) at 334° (true) from Carynginia No. 1 Well, Irwin River area east of Geraldton, Western Australia. 28.924°S, 115.072°E. YALGOO 1:250,000 sheet SH50-2.

**Horizon:** Cited as "Fossil Cliff Formation": Fossil Cliff Member?, Holmwood Shale, Perth Basin, Irwin Sub-basin -- plots within undifferentiated Holmwood Shale on the 1977 map.

**Age:** Sakmarian, Early Permian.

***Nuculopsis (Nuculopsis) darlingensis* DICKINS, 1963**

*Nuculopsis* sp. B of Dickins & Thomas, 1956, p. 52 (see Dickins & Skwarko, 1993A, microfiche 5, Bivalves p. 2).

**CPC 3859: HOLOTYPE** (internal mould of right valve) -- DICKINS, 1963, pp. 29-30, Pl. 1, figs 2-5. DICKINS & SKWARKO, 1993A, microfiche 5, Bivalves p. 2, Pl. 46, fig. 4.

**Locality:** IR20 - Carynginia Gully, about 1/2 mile (0.8 km) at 334° (true) from Carynginia No. 1 Well, Irwin River area east of Geraldton, Western Australia. 28.924°S, 115.072°E. YALGOO 1:250,000 sheet SH50-2.

**Horizon:** Cited as "Fossil Cliff Formation": Fossil Cliff Member?, Holmwood Shale, Perth Basin, Irwin Sub-basin -- plots within undifferentiated Holmwood Shale on the 1977 map.

**Age:** Sakmarian, Early Permian.

**CPC 3860:** Figured Paratype A (internal mould of right valve) -- DICKINS, 1963, pp. 29-30, Pl. 1, fig. 6. DICKINS & SKWARKO, 1993A, microfiche 5, Bivalves p. 2.

**Locality, horizon, and age** as for CPC 3859.

**Remarks:** CPC 4005, 4006 are on the same piece.

**CPC 3861:** Figured Paratype B (left valve) -- DICKINS, 1963, pp. 29-30, Pl. 1, fig. 1. DICKINS & SKWARKO, 1993A, microfiche 5, Bivalves p. 2, Pl. 46, fig. 3.

**Locality:** W33C(1) - precise location uncertain, but close to KNUA1 - i.e. about 2.6 km southwest of "Paradise" homestead, Western Australia. 18.0417°S, 124.5167°E. NOONKANBAH 1:250,000 sheet SE51-12.

**Horizon:** Nura Nura Member, Poole Sanstone, Canning Basin.

**Age:** Sterlitamakian Substage, Late Sakmarian, Early Permian.

***Oriocrassatella stokesi* ETHERIDGE JUNR, 1907**

**CPC 781:** Figured specimen (shell) -- DICKINS, 1956, pp. 33-35, Pl. VI, fig. 10. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves p. 40. Initially registered as F 17091.

**Locality:** 1½ miles (2.1 km) east of Middle Well, "Middalya" Station, Carnarvon district, Western Australia.

**Horizon:** Norton Greywacke, Byro Group, Carnarvon Basin.

**Age:** Artinskian, Early Permian.

**CPC 782, 783:** Cited specimens (steinkerns) -- DICKINS, 1956, pp. 33-35. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves p. 40. Initially registered as F 17091.

**Locality, horizon, and age** as for CPC 781.

**CPC 784:** Cited specimen (shell) -- DICKINS, 1956, pp. 33-35. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves p. 40. Initially registered as F 17004.

**Locality:** ¼ mile (0.4 km) northwest of Baker's Bore, "Middalya" Station, Carnarvon district, Western Australia.

**Horizon:** Coolkilya Greywacke, Kennedy Group, Carnarvon Basin.

**Age:** Kungurian, Early Permian.

**CPC 3962:** Figured topotype (incomplete right valve) -- DICKINS, 1963, p. 103, Pl. 18, fig. 9.

**Locality:** Treachery Bay, Port Keats area, Northern Territory, Australia.

**Age:** Aktastinian Substage, Artinskian, Early Permian.

**CPC 3963:** Figured topotype (right valve) -- DICKINS, 1963, p. 103, Pl. 18, figs 10-12.

**Locality, age and remarks** as for CPC 3962.

**CPC 3964:** Figured topotype (right valve) -- DICKINS, 1963, p. 103, Pl. 18, figs 13-14.

**Locality, age and remarks** as for CPC 3962.

**CPC 3965:** Figured topotype (right valve) -- DICKINS, 1963, p. 103, Pl. 18, fig. 15.

**Locality, age and remarks** as for CPC 3962.

### ***Oriocrassatella* sp. DICKINS, 1963**

**CPC 3955:** Figured specimen (internal and external moulds of right valve) -- DICKINS, 1963, p. 103, Pl. 18, figs 3-4. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves pp. 39-40.

**Locality:** KPA54 - 16 miles (25.7 km) at 120° (true) from Mount Tuckfield, southern Saint George Range, Western Australia. 18.806°S, 125.314°E. NOONKANBAH 1:250,000 sheet SE51-12.

**Horizon:** Near the base of the Poole Sandstone, Canning Basin.

**Age:** Aktastinian Substage, Artinskian, Early Permian.

**CPC 3956:** Figured specimen (external mould of left valve) -- DICKINS, 1963, p. 103, Pl. 18, fig. 2. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves pp. 39-40, Pl. 48, fig. 10.

**Locality, horizon, and age** as for CPC 3955.

**CPC 3957:** Figured specimen (internal mould of right valve) -- DICKINS, 1963, p. 103, Pl. 18, fig. 1. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves pp. 39-40.

**Locality, horizon, and age** as for CPC 3955.

**CPC 3958:** Figured specimen (left valve) -- DICKINS, 1963, p. 103, Pl. 18, fig. 5. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves pp. 39-40, Pl. 48, fig. 13.

**Locality:** WB213 - cited by Dickins as Daurie Creek, 1 mile (1.6 km) southeast of Monument Bore, Western Australia (but the nearest Callytharra Formation outcrop is shown on the geological map as 1.9 km southeast of the bore). 25.5763°S, 115.9404°E. GLENBURGH 1:250,000 sheet SG50-6.

**Horizon:** Callytharra Formation, Carnarvon Basin.

**Age:** Sakmarian, Early Permian.

### ***Pachydomus*? sp. DICKINS, 1957**

*See Megadesmus? sp. B*

Waterhouse, 1969, p. 41, showed that *Pachydomus* is a junior objective synonym of *Megadesmus*.

### ***Pachymyonia elata* POPOV, 1957**

*See Myonia elata*

Runnegar, 1967, transferred Popov's species to *Myonia*.

### ***Pachymyonia occidentalis* DICKINS, 1957**

**CPC 2221: HOLOTYPE** (incomplete steinkern) -- DICKINS, 1957, pp. 28-29, Pl. IV, figs 5-8. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves p. 50, Pl. 48, fig. 32.

**Locality:** WB2 - on the south side of the Wooramel River about 1 mile (1.6 km) west of Callytharra Spring, "Byro" Station, Western Australia. 25.871°S, 115.494°E. Grid reference LS490371, CALLYTHARRA 1:100,000 sheet 1946; WOORAMEL 1:250,000 sheet SG50-5.

**Horizon:** Carrandibby Formation, Canarvon Basin.  
**Age:** Tastubian Substage, Sakmarian, Early Permian.

**CPC 2222:** Figured Paratype (worn internal mould of right valve) -- DICKINS, 1957, pp. 28-29, Pl. IV, fig. 9. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves p. 50.  
**Locality, horizon, and age** as for CPC 2221.

### ***Palaeocosmomya* sp. nov. DICKINS, 1963**

See *Cosmomya* (*Palaeocosmomya*) sp. nov.

*Palaeocosmomya* was considered a subgenus of *Cosmomya* by Dickins & Shah, 1965, pp. 256-258.

### ***Palaeolima* sp. nov. DICKINS, 1963**

**CPC 3934:** Figured specimen (incomplete right valve and external mould) -- DICKINS, 1963, p. 92, Pl. 14, fig. 16. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves pp. 32-33.  
**Locality:** PB14 - Fossil Ridge, Irwin River area east of Geraldton, Western Australia.  
**Horizon:** Fossil Cliff Member, Holmwood Shale, Perth Basin, Irwin Sub-basin.  
**Age:** Sakmarian, Early Permian.

### ***Palaeoneilo smithi* POJETA & GILBERT-TOMLINSON, 1977**

**CPC 15497: HOLOTYPE** (left valve) -- POJETA & GILBERT-TOMLINSON, 1977, pp. 16-17, Pl. 4, fig. 1.  
**Locality:** PW-12-74 - published as being about 3 km east of Stokes Pass, Mereenie Range (MacDonnell Ranges, Northern Territory, Australia), but the published coordinates put the location as about 20 km east of the Pass. 23.6104°S, 132.3009°E. HERMANNSBURG 1:250,000 sheet SF53-13.  
**Horizon:** Stokes Siltstone, Amadeus Basin.  
**Age:** Darriwilian, Ordovician.  
**Remarks:** Misprinted in text and plate caption as CPC 15495.

**CPC 15498:** Figured Paratype (internal mould of right valve) -- POJETA & GILBERT-TOMLINSON, 1977, pp. 16-17, Pl. 4, fig. 2.  
**Locality:** GEO 306/1-74 - Neeyamba Hill, Toko Range, Northern Territory, Australia. 22.9498°S, 138.3058°E. GLENORMISTON 1:250,000 sheet SF54-9.  
**Horizon:** Nora Formation, Georgina Basin.  
**Age:** Darriwilian, Ordovician.

**CPC 15499:** Figured Paratype (right valve) -- POJETA & GILBERT-TOMLINSON, 1977, pp. 16-17, Pl. 4, fig. 3.  
**Locality, horizon, and age** as for CPC 15497.

**CPC 15500:** Figured Paratype (right valve) -- POJETA & GILBERT-TOMLINSON, 1977, pp. 16-17, Pl. 4, fig. 4.  
**Locality, horizon, and age** as for CPC 15497.

**CPC 15501:** Figured Paratype (right valve) -- POJETA & GILBERT-TOMLINSON, 1977, pp. 16-17, Pl. 4, fig. 5.  
**Locality, horizon, and age** as for CPC 15497.

**CPC 15502:** Figured Paratype (left valve) -- POJETA & GILBERT-TOMLINSON, 1977, pp. 16-17, Pl. 4, fig. 6.  
**Locality, horizon, and age** as for CPC 15497.

**CPC 15503:** Figured Paratype (right valve) -- POJETA & GILBERT-TOMLINSON, 1977, pp. 16-17, Pl. 4, fig. 7.  
**Locality, horizon, and age** as for CPC 15497.

### ***Palaeosolen* sp. RUNNEGAR, 1974**

**CPC 8102:** Figured specimen (internal mould of left valve) -- RUNNEGAR, 1974, p. 926, Text-fig. 10B.

**Locality:** Specific locality unknown, but in the Exmoor area, Queensland, Australia. 20.95°S, 148.15°E. BOWEN 1:250,000 sheet SF55-3.

**Horizon:** Tiverton Subgroup, Back Creek Group, Bowen Basin.

**Age:** Early Artinskian, Early Permian.

**Remarks:** Misspelt *Paleosolen* in the figure caption.

### ***Palaeosolen? badgeraensis* DICKINS, 1963**

**CPC 3894: HOLOTYPE** (internal and external moulds of left valve) -- DICKINS, 1963, pp. 57-58, Pl. 6, figs 1-5. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves p. 43, Pl. 48, fig. 21.

**Locality:** PB7 - Carynginia Gully, about ½ mile (0.8 km) at 334° (true) from Carynginia No. 1 Well, Irwin River area east of Geraldton, Western Australia. 28.924°S, 115.072°E. YALGOO 1:250,000 sheet SH50-2.

**Horizon:** Cited as "Fossil Cliff Formation": Fossil Cliff Member?, Holmwood Shale, Perth Basin, Irwin Sub-basin -- plots within undifferentiated Holmwood Shale on the 1977 map.

**Age:** Sakmarian, Early Permian.

**CPC 3895: Figured Paratype A** (internal mould of right valve) -- DICKINS, 1963, pp. 57-58, Pl. 6, fig 6. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves p. 43

**Locality:** PB9 - Becketts Gully, 0.4 miles (0.6 km) above road crossing; Irwin River area, east of Geraldton, Western Australia. 29.0124°S, 115.0397°E. Grid reference 511056 (Pintharuka 1" = 1 mile sheet); PERENJORI 1:250,000 sheet SH50-6.

**Horizon:** Fossil Cliff Member, Holmwood Shale, Perth Basin, Irwin Sub-basin.

**Age:** Sakmarian, Early Permian.

**CPC 3896: Figured Paratype B** (internal mould of right valve) -- DICKINS, 1963, pp. 57-58, Pl. 6, fig 7. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves p. 43.

**Locality, horizon, and age** as for CPC 3895.

**CPC 3897: Figured Paratype C** (internal mould of left valve) -- DICKINS, 1963, pp. 57-58, Pl. 6, fig 8. DICKINS & SKWARKO, 1993A, microfiche 6, bivalves p. 43.

**Locality:** PB14 - Fossil Ridge, Irwin River area east of Geraldton, Western Australia.

**Horizon and age** as for CPC 3895.

**CPC 3898: Figured Paratype D** (fire-damaged internal mould of left valve) -- DICKINS, 1963, pp. 57-58, Pl. 6, fig 9. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves p. 43.

**Locality:** W33C(1) - precise location uncertain, but close to KNUA1 - i.e. about 2.6 km southwest of "Paradise" homestead, Western Australia. 18.0417°S, 124.5167°E. NOONKANBAH 1:250,000 sheet SE51-12.

**Horizon:** Nura Nura Member, Poole Sanstone, Canning Basin.

**Age:** Sterlitamakian Substage, Late Sakmarian, Early Permian.

### ***Paleyoldia* sp. DICKINS, 1989**

**CPC 25259: Figured Paratype** -- DICKINS, 1989, p. 66, Pl. 1, figs 16-18.

**Locality:** UDC1 - at fence about 4 km northeast of "Lyra Park" homestead, Queensland, Australia. DUARINGA 1:250,000 sheet SF55-16.

**Horizon:** MacMillan Formation, Blenheim Subgroup, Back Creek Group, Bowen Basin.

**Age:** *Martiniopsis havilensis* Zone, Kazanian, Late Permian. Dickins' Fauna IV.

### ***Paracyclas allenii* JOHNSTON, 1993**

**CPC 30754: Figured Paratype** (fragmentary silicified left valve) -- JOHNSTON, 1993, pp. 120-121, Fig. 84A.

**Locality:** About 700 m east of "Bloomfield" homestead, east side of Burrinjuck Reservoir south-southwest of Yass, New South Wales, Australia. Grid reference FB 673265, YASS 1:100,000 sheet 8628.

**Horizon:** Receptaculites Limestone Member, Taemas Formation, Murrumbidgee Group, Lachlan Fold Belt.

**Age:** Emsian, Early Devonian.

### ***Parallelodon bimodoliratus* DICKINS, 1963**

- CPC 3878:** Figured Paratype F (internal mould of slightly crushed left valve) -- DICKINS, 1963, pp. 40-41, Pl. 3, fig. 10. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves p. 10, Pl. 46, fig. 17.  
**Locality:** WB266 - 30 miles (48 km) west-northwest of "Curbur" homestead, Western Australia. 26.3667°S, 115.4167°E. YARINGA 1:250,000 sheet SG50-9.  
**Horizon:** Callytharra Formation, Carnarvon Basin.  
**Age:** Sakmarian, Early Permian.

### ***Parallelodon subtilistriatus* WANNER, 1922**

- CPC 742:** Figured specimen (external mould of right valve) -- DICKINS, 1956, pp. 12-13, Pl. I, figs 5, 11. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves p. 11, Pl. 46, fig. 18. Initially registered as F 17049.  
**Locality:** ½ mile (0.8 km) northwest of Muderong Bore, "Middalya" Station, Western Australia. KENNEDY RANGE 1:250,000 sheet SG50-1.  
**Horizon:** Coolkilya Greywacke, Kennedy Group, Carnarvon Basin.  
**Age:** Kungurian, Early Permian.
- CPC 743:** Figured specimen (external mould of right valve) -- DICKINS, 1956, pp. 12-13, Pl. I, fig. 6. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves p. 11. Initially registered as F 17049.  
**Locality, horizon, and age** as for CPC 742.
- CPC 744-746:** Cited specimens -- DICKINS, 1956, pp. 12-13. Initially registered as F 17049.  
**Locality, horizon, and age** as for CPC 742.

### ***Parallelodon* sp. HILL & WOODS, 1964**

- CPC 5170:** Figured specimen (right valve) -- HILL & WOODS, 1964, pl. PX, fig. 3. HILL, PLAYFORD & WOODS, 1972, Pl. PX, fig. 3.  
**Locality:** MC423 - about 3 miles (4.8 km) east of the junction of Sandy Creek with the Bowen River, Queensland, Australia. MOUNT COOLON 1:250,000 sheet SF55-7.  
**Horizon:** Mantuan Formation, Blenheim Subgroup, Back Creek Group, Bowen Basin.  
**Age:** Ufimian to Kazanian, Late Permian.
- CPC 5171:** Figured specimen (left valve interior) -- HILL & WOODS, 1964, pl. PX, fig. 4. HILL, PLAYFORD & WOODS, 1972, Pl. PX, fig. 4.  
**Locality, horizon, and age** as for CPC 5170.

### ***Pharcidoconcha raupi* POJETA & GILBERT-TOMLINSON, 1977**

- CPC 15551:** Figured Paratype, type species (internal mould of left valve) -- POJETA & GILBERT-TOMLINSON, 1977, p. 22, Pl. 17, fig. 1.  
**Locality:** NT615 - left bank of Ellery Creek, western MacDonnell Range, Northern Territory, Australia. 23.8174°S, 133.0613°E. HERMANSBURG 1:250,000 sheet SF53-13.  
**Horizon:** 586 m above the base of the Pacoota Sandstone, Amadeus Basin.  
**Age:** Late Lancefieldian, Early Ordovician.
- CPC 15552:** Figured Paratype, type species (internal mould of left valve) -- POJETA & GILBERT-TOMLINSON, 1977, p. 22, Pl. 17, fig. 2.  
**Locality, horizon, and age** as for CPC 15551.
- CPC 15553:** HOLOTYPE, type species (internal and external moulds of left valve) -- POJETA & GILBERT-TOMLINSON, 1977, p. 22, Pl. 17, figs 3-4.  
**Locality:** NT147 - published as Stokes Pass, western MacDonnell Ranges, Northern Territory, Australia, but the quoted coordinates put the locality 19 km east of Stokes Pass, at 23.5968°S, 132.2892°E. HERMANSBURG 1:250,000 sheet SF53-13.

**Horizon:** Pacoota Sandstone, Amadeus Basin.  
**Age:** Late Lancefieldian, Early Ordovician.

**CPC 15554:** Figured Paratype, type species (internal mould of right valve) -- POJETA & GILBERT-TOMLINSON, 1977, p. 22, Pl. 17, fig. 5.

**Locality, horizon, and age** as for CPC 15551.

**CPC 15555:** Figured Paratype, type species (internal mould of right valve) -- POJETA & GILBERT-TOMLINSON, 1977, p. 22, Pl. 17, fig. 6.

**Locality, horizon, and age** as for CPC 15551.

**CPC 15556:** Figured Paratype, type species (internal mould of left valve) -- POJETA & GILBERT-TOMLINSON, 1977, p. 22, Pl. 17, fig. 7.

**Locality, horizon, and age** as for CPC 15553.

### ***Phestia darwini* (DE KONINCK, 1877)**

*See also Nuculana darwini*

Dickins (1963, pp. 37-38) transferred the material described in 1957 under *Nuculana darwini* to *Phestia* Chernyshev, and redescribed the species.

**CPC 2201:** Figured specimen A (right valve) -- DICKINS, 1957, pp. 18-21, Pl. II, figs 3-4. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves p. 7.

**Locality:** WB62 - about 1 mile (1.6 km) west of Callytharra Spring, on the south side of the Wooramel River, "Byro" Station, Western Australia. 25.871°S, 115.494°E. Grid reference LS 490371, CALLYTHARRA 1:100,000 sheet 1946; WOORAMEL 1:250,000 sheet SG50-5.

**Horizon:** Carrandibby Formation, Carnarvon Basin.

**Age:** Tastubian Substage, Sakmarian, Early Permian.

**Remarks:** CPC 2201-3 are on the same specimen.

**CPC 2202:** Figured specimen B (internal mould of left valve) -- DICKINS, 1957, pp. 18-21, Pl. II, fig. 5. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves p. 7.

**Locality, horizon, age and remarks** as for CPC 2201.

**CPC 2203:** Figured specimen C (right valve) -- DICKINS, 1957, pp. 18-21, Pl. II, fig. 6. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves p. 7, Pl. 46, fig. 10.

**Locality, horizon, age and remarks** as for CPC 2201.

**CPC 2204:** Figured specimen D (steinkern) -- DICKINS, 1957, pp. 18-21, Pl. II, figs 1-2. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves p. 7, Pl. 46, fig. 15.

**Locality, horizon, and age** as for CPC 2201.

**CPC 3873:** Figured specimen (steinkern) -- DICKINS, 1963, pp. 38-39, Pl. 2, figs 5-8. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves p. 7.

**Locality:** KNuA1 - 1.6 miles (2.6 km) southwest of "Paradise" homestead, Nura Nura Ridge area, Western Australia. 18.0417°S, 124.5167°E. NOONKANBAH 1:250,000 sheet SE51-12.

**Horizon:** Nura Nura Member, Poole Sandstone, Canning Basin.

**Age:** Sterlitamakian Substage, Late Sakmarian, Early Permian.

**CPC 3874:** Figured specimen (incomplete steinkern) -- DICKINS, 1963, pp. 38-39, Pl. 2, fig 11. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves p. 7.

**Locality, horizon and age** as for CPC 3873.

**CPC 3875:** Figured specimen (steinkern) -- DICKINS, 1963, pp. 38-39, Pl. 2, fig 9. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves p. 7.

**Locality, horizon and age** as for CPC 3873.

**CPC 3876:** Cited specimen (steinkern) -- DICKINS, 1963, pp. 38-39.

**Locality, horizon and age** as for CPC 3873.

**CPC 3877:** Figured specimen (internal mould of left valve) -- DICKINS, 1963, pp. 38-39, Pl. 2, fig 10. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves p. 7.

**Locality:** W33C(1) - precise location uncertain, but close to KNUA1 - i.e. about 2.6 km southwest of "Paradise" homestead, Western Australia. 18.0417°S, 124.5167°E. NOONKANBAH 1:250,000 sheet SE51-12.

**Horizon and age** as for CPC 3873.

### ***Phestia lyonsensis* (DICKINS, 1956)**

#### ***See also Nuculana lyonsensis***

Dickins (1963, pp. 37-38) transferred the material described in 1957 under *Nuculana lyonsensis* to *Phestia* Chernyshev, and redescribed the species.

**CPC 734: HOLOTYPE** (internal mould of right valve) -- DICKINS, 1956, pp. 8-10, Pl. I, fig. 7. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves pp. 7-8, Pl. 46, fig. 8. Initially registered as F 17203.

**Locality:** 3 miles (4.8 km) west of "Moogooree" homestead, Western Australia. KENNEDY RANGE 1:250,000 sheet SG50-1.

**Horizon:** 1250 ft (381 m) below the top of the Lyons Group, Carnarvon Basin.

**Age:** Sakmarian, Early Permian.

**CPC 735:** Figured Paratype (internal mould of left valve) -- DICKINS, 1956, pp. 8-10, Pl. I, fig. 8. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves pp. 7-8, Pl. 46, fig. 8. Initially registered as F 17203.

**Locality, horizon, and age** as for CPC 734.

**CPC 736:** Figured Paratype (external mould of right valve) -- DICKINS, 1956, pp. 8-10, Pl. I, fig. 9. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves pp. 7-8, Pl. 46, fig. 8. Initially registered as F 17203.

**Locality, horizon, and age** as for CPC 734.

**CPC 3868:** Figured specimen (steinkern) -- DICKINS, 1963, pp. 37-38, Pl. 2, figs 13-15. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves pp. 7-8.

**Locality:** KNUA1 - 1.6 miles (2.6 km) southwest of "Paradise" homestead, Nura Nura Ridge area, Western Australia. 18.0417°S, 124.5167°E. NOONKANBAH 1:250,000 sheet SE51-12.

**Horizon:** Nura Nura Member, Poole Sandstone, Canning Basin.

**Age:** Sterlitamakian Substage, Late Sakmarian, Early Permian.

**CPC 3869:** Figured specimen (steinkern) -- DICKINS, 1963, pp. 37-38, Pl. 2, figs 17-18. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves pp. 7-8.

**Locality, horizon and age** as for CPC 3868.

**CPC 3870:** Figured specimen (steinkern) -- DICKINS, 1963, pp. 37-38, Pl. 2, fig 16. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves pp. 7-8.

**Locality, horizon and age** as for CPC 3868.

**CPC 3871:** Cited specimen (incomplete steinkern) -- DICKINS, 1963, pp. 37-38.

**Locality, horizon and age** as for CPC 3868.

**CPC 3872:** Figured specimen -- DICKINS, 1963, pp. 37-38, Pl. 2, fig 12. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves pp. 7-8.

**Locality:** W33C(1) - precise location uncertain, but close to KNUA1 - i.e. about 2.6 km southwest of "Paradise" homestead, Western Australia. 18.0417°S, 124.5167°E. NOONKANBAH 1:250,000 sheet SE51-12.

**Horizon and age** as for CPC 3868.

### ***Phestia thomasi* (DICKINS, 1956)**

#### ***See also Nuculana thomasi***

Dickins (1963, pp. 37-38) implicitly transferred *Nuculana thomasi* to *Phestia* Chernyshev, and the species was specifically referred to *Phestia* by Dickins & Shah, 1979.

**CPC 737: HOLOTYPE** (right valve) -- DICKINS, 1956, p. 10, Pl. I, figs 1, 10. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves pp. 8-9, Pl. 46, fig. 6. Initially registered as F 17077.  
**Locality:** 1¼ miles (2.8 km) southeast of Muderong Bore, "Middalya" Station, Western Australia. KENNEDY RANGE 1:250,000 sheet SG50-1.  
**Horizon:** Coolkilya Greywacke, Kennedy Group, Carnarvon Basin.  
**Age:** Kungurian, Early Permian.

**CPC 738:** Paratype -- DICKINS, 1956, p. 10. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves pp. 8-9, Pl. 46, fig. 6. Initially registered as F 17003.  
**Locality:** Just south of Baker's Bore, "Middalya" Station, Western Australia. KENNEDY RANGE 1:250,000 sheet SG50-1.  
**Horizon and age** as for CPC 737.

**CPC 739:** Figured Paratype -- DICKINS, 1956, p. 10, Pl. I, fig. 2. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves pp. 8-9, Pl. 46, fig. 6. Initially registered as F 17009.  
**Locality:** ¼ mile (0.4 km) north of Paddys Outcamp, "Middalya" Station, Western Australia. KENNEDY RANGE 1:250,000 sheet SG50-1.  
**Horizon:** Norton Greywacke, Byro Group, Carnarvon Basin.  
**Age:** Artinskian, Early Permian.

### ***Phorinoplax striata* JOHNSTON, 1993**

**CPC 30758:** Figured specimen, type species (silicified juvenile left valve) -- JOHNSTON, 1993, pp. 66-69, Figs 46C-D.  
**Locality:** Macquarie University locality "Barbers 20": 7.5 km north-northeast of Wee Jasper village, west of Yass, New South Wales, Australia. Grid reference FB 507211, BRINDABELLA 1:100,000 sheet .  
**Horizon:** *Receptaculites* Limestone Member, Taemas Formation, Murrumbidgee Group, Lachlan Fold Belt.  
**Age:** Emsian, Early Devonian.

### ***Plagiostoma?* sp. nov. DICKINS, 1963**

**CPC 3935:** Figured specimen (left valve of internal mould) -- DICKINS, 1963, p. 93, Pl. 15, fig. 1. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves p. 33.  
**Locality:** G202 - on a crest at the base of a ridge (probably hill 224) 5.9 miles (9.45 km) at 335° (true) from "Lyons River" homestead, Western Australia. 24.5553°S, 115.2975°E. Grid reference LT 276831, LYONS RIVER 1:100,000 sheet 1948; KENNEDY RANGE 1:250,000 sheet SG50-1.  
**Horizon:** Local exposed top of the Callytharra Formation, Carnarvon Basin.  
**Age:** Sterlitamakian Substage, Sakmarian, Early Permian.

**CPC 3936:** Figured specimen (internal and external moulds of left valve) -- DICKINS, 1963, p. 93, Pl. 15, fig. 5. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves p. 33.  
**Locality:** PB9 - Becketts Gully, 0.4 miles (0.6 km) above road crossing; Irwin River area, east of Geraldton, Western Australia. 29.0124°S, 115.0397°E. Grid reference 511056 (Pintharuka 1" = 1 mile sheet); PERENJORI 1:250,000 sheet SH50-6.  
**Horizon:** Fossil Cliff Member, Holmwood Shale, Perth Basin, Irwin Sub-basin.  
**Age:** Sakmarian, Early Permian.

**CPC 3937:** Figured specimen (left valve and external mould) -- DICKINS, 1963, p. 93, Pl. 15, figs 2-3. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves p. 33.  
**Locality:** PB14 - Fossil Ridge, Irwin River area east of Geraldton, Western Australia.  
**Horizon and age** as for CPC 3936.

**CPC 3938:** Figured specimen (left valve) -- DICKINS, 1963, p. 93, Pl. 15, fig. 4. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves p. 33, Pl. 47, fig. 12.  
**Locality:** GW86 - in a measured section on the south bank of the Wooramel River, about ½ mile (0.8 km) west of Callytharra Spring, "Byro" station, Western Australia. 25.8773°S, 115.501°E. Grid reference LS 498370, CARRAN-BIBBY 1:100,000 sheet 2046; GLENBURGH 1:250,000 sheet SG50-6.  
**Horizon:** 41 ft (12.5 m) above the base of the Callytharra Formation, Carnarvon Basin.  
**Age:** Sakmarian, Early Permian.

## ***Pleurikodonta elegans* RUNNEGAR, 1965**

*See also Astartila (Pleurikodonta) elegans and Astartidae gen. et sp. nov.*

Runnegar, 1965, based his new subgenus *Pleurikodonta* on *Astartidae* gen. et sp. nov. Hill & Woods, 1964; in 1966 he considered it to be a distinct genus.

**CPC 5183: HOLOTYPE**, type species (internal and external moulds) -- HILL & WOODS, 1964, pl. PXII, figs 9a-b. RUNNEGAR, 1965, pp. 247-249, pl. 15, figs 17-19. RUNNEGAR, 1966, text-fig. 1J. HILL, PLAYFORD & WOODS, 1972, Pl. PXII, figs 9a-b.

**Locality:** B270a - near "Exmoor" homestead, 33 miles (53 km) southeast of Collinsville, Queensland, Australia. 20.95°S, 148.133°E. BOWEN 1:250,000 sheet SF55-3.

**Horizon:** Blenheim Subgroup, Back Creek Group, Bowen Basin; unit C of Dickins et al. 1964, close to *Streptorhynchus pelicanensis* Bed.

**Age:** Ufimian to Kazanian, Late Permian.

**Remarks:** The caption for this specimen was inadvertently omitted from Hill & Woods, 1964. CPC 6809 is on the same piece.

**CPC 6807:** Figured specimen (steinkern, and latex of missing external mould) -- RUNNEGAR, 1965, pp. 247-249, Pl. 15, fig. 23.

**Locality:** 4 km (2.5 miles) north-northwest of "Blenheim" homestead, Queensland, Australia. MOUNT COOLON 1:250,000 sheet SF55-7.

**Horizon:** Blenheim Subgroup, Back Creek Group, Bowen Basin; Unit C of Dickins et al., 1964.

**Age:** Ufimian to Kazanian, Late Permian.

**CPC 6808:** Figured specimen (internal and external moulds) -- RUNNEGAR, 1965, pp. 247-249, Pl. 15, fig. 24.

**Locality, horizon, and age** as for CPC 5183.

**CPC 6809:** Figured specimen (external mould) -- RUNNEGAR, 1965, pp. 247-249, Pl. 15, figs 25-26.

**Locality, horizon, and age** as for CPC 5183.

**Remarks:** On the same specimen as CPC 5183.

## ***Praeundulomya concentrica* DICKINS, 1957**

**CPC 2192:** Cited specimen (as F 20836), type species -- DICKINS, 1957, pp. 11-13. DICKINS & SHAH, 1965, Pl. 17, fig. 8.

**Locality:** MG236 - 2 miles (3.2 km) southeast of Donnelly's Well, and 7.5 miles (12 km) south of west of "Moogooree" homestead, in the northern scarp of the Kennedy Range, Western Australia; KENNEDY Run 2 air-photo 5069, point 668. 24.088°S, 115.103°E. Grid reference LU 64339, MOUNT SANDIMAN 1:100,000 sheet 1949; KENNEDY RANGE 1:250,000 sheet SG50-1.

**Horizon:** About 100ft (30 m) above the base of the Bulgadoo Shale, Newman Subgroup, Byro Group, Carnarvon Basin.

**Age:** Baigendzhinian Substage, Artinskian, Early Permian.

**CPC 2193: HOLOTYPE**, type species (steinkern) -- DICKINS, 1957, pp. 11-13, Text-fig. 2, Pl. I, figs 1-4. DICKINS & SHAH, 1965, Pl. 17, fig. 8. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves pp. 55-56, Pl. 49, fig. 8.

**Locality:** G269 - in the type section of the Coyne Formation, at the foot of the scarp 7.8 km southwest of "Moogooree" homestead, 8.9 km east-southeast of Donnelly's Well, at the northeastern end of the Kennedy Range, Western Australia. Grid reference LU 121324, MOUNT SANDIMAN 1:100,000 sheet 1949; KENNEDY RANGE 1:250,000 sheet SG50-1.

**Horizon:** 355 ft (108 m) above the base of the Coyrie Formation (where it is 613 ft - 169 m - thick), Byro Group, Carnarvon Basin.

**Age:** Baigendzhinian Substage, Artinskian, Early Permian.

**CPC 2194:** Paratype A, type species (worn steinkern) -- DICKINS, 1957, pp. 11-13. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves pp. 55-56.

**Locality, horizon, and age** as for CPC 2193.

**CPC 2195:** Figured Paratype B, type species (internal mould of juvenile right valve) -- DICKINS, 1957, pp. 11-13, Pl. I, fig. 6. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves pp. 55-56.

**Locality:** C264-267 - in the type section of the Coyrie Formation, 5 miles (8 km) southwest of "Moogooree" homestead,

5.5 miles (8.9 km) east-southeast of Donnelly's Well, at the northeastern end of the Kennedy Range, Western Australia. Grid reference LU 120324, MOUNT SANDIMAN 1:100,000 sheet 1949; KENNEDY RANGE 1:250,000 sheet SG50-1.  
**Horizon and age** as for CPC 2193, except 402-455 ft (123-139 m) above the base of the formation.

**CPC 2196:** Figured Paratype C, type species (internal mould of left valve) -- DICKINS, 1957, pp. 11-13, Pl. I, fig. 5. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves pp. 55-56, Pl. 49, fig. 3.  
**Locality, horizon, and age** as for CPC 2195.

**CPC 2197:** Figured Paratype D, type species (incomplete external mould of left valve) -- DICKINS, 1957, pp. 11-13, Pl. I, figs 9-10. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves pp. 55-56.  
**Locality:** HL12 - in the type section of the Coyrie Formation, 5 miles (8 km) southwest of "Moogooree" homestead, 5.5 miles (8.9 km) east-southeast of Donnelly's Well, at the northeastern end of the Kennedy Range, Western Australia. Grid reference LU 121324, MOUNT SANDIMAN 1:100,000 sheet 1949; KENNEDY RANGE 1:250,000 sheet SG50-1.  
**Horizon and age** as for CPC 2193, except 375 ft (114 m) above the base of the formation.

**CPC 2198:** Figured Paratype E, type species (incomplete steinkern, and external mould of left valve) -- DICKINS, 1957, pp. 11-13, Pl. I, fig. 8. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves pp. 55-56.  
**Locality, horizon and age** as for CPC 2197.

**CPC 2199:** Paratype F, type species (incomplete steinkern) -- DICKINS, 1957, pp. 11-13, Pl. I, fig. 7. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves pp. 55-56.  
**Locality:** HL 11 - as for CPC 2197.  
**Horizon and age** as for CPC 2193, except 355 ft (108 m) above the base of the formation.

**CPC 2200:** Figured Paratype G, type species (incomplete steinkern) -- DICKINS, 1957, pp. 11-13, Pl. I, fig. 11. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves pp. 55-56.  
**Locality:** HL 11A - as for CPC 2197.  
**Horizon and age** as for CPC 2197, except 355 ft (108 m) above the base of the formation.

### ***Praeundulomya elongata* DICKINS, 1957**

**CPC 2238: HOLOTYPE** (worn steinkern) -- DICKINS, 1957, pp. 36-37, Text-fig. 7, Pl. VI, figs 10-13. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves p. 56, Pl. 49, fig. 7.  
**Locality:** WB4 - on the south side of the Wooramel River about 1 mile (1.6 km) west of Callytharra Springs, "Byro" Station, Western Australia. 25.871°S, 115.494°E. Grid reference LS 490371, CALLYTHARRA 1:100,000 sheet 1946; WOORAMEL 1:250,000 sheet SG50-5.  
**Horizon:** Carrandibby Formation, Carnarvon Basin.  
**Age:** Tastubian Substage, Sakmarian, Early Permian.

**CPC 2239:** Paratype A (incomplete steinkern, and parts of external mould) -- DICKINS, 1957, pp. 36-37. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves p. 56.  
**Locality:** WB2 - on the south side of the Wooramel River about 1 mile (1.6 km) west of Callytharra Spring, "Byro" Station, Western Australia. 25.871°S, 115.494°E. Grid reference LS 490371, CALLYTHARRA 1:100,000 sheet 1946; WOORAMEL 1:250,000 sheet SG50-5.  
**Horizon and age** as for CPC 2238.

**CPC 2240:** Figured Paratype B (incomplete worn shell) -- DICKINS, 1957, pp. 36-37, Pl. VI, fig. 14. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves p. 56.  
**Locality, horizon, and age** as for CPC 2239.

### ***Praeundulomya subelongata* DICKINS, 1963**

**CPC 3892:** Figured Paratype B (worn mostly decorticated left valve) -- DICKINS, 1963, pp. 54-55, Text-fig. 8, Pl. 6, fig. 20. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves p. 57.  
**Locality:** PB8 - Fossil Cliff, on the west bank of the Irwin River east of Geraldton, Western Australia. 28.9409°S, 115.0410°E. YALGOO 1:250,000 sheet SH50-2.  
**Horizon:** Fossil Cliff Member, Holmwood Shale, Irwin Sub-Basin, Perth Basin.  
**Age:** Sakmarian, Early Permian.

### ***Pseudomyalina obliqua* DICKINS, 1956**

**CPC 756: HOLOTYPE**, type species (partly decorticated shell) -- DICKINS, 1956, pp. 26-28, Pl. III, figs 1-3. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves pp. 14-15, Pl. 46, fig. 25. Initially registered as F 17067.

**Locality:** ½ mile (1 km) east of south of Muderong Bore, "Middalya" Station, Western Australia. KENNEDY RANGE 1:250,000 sheet SG50-1.

**Horizon:** Coolkilya Greywacke, Kennedy Group, Carnarvon Basin.

**Age:** Kungurian, Early Permian.

**CPC 757:** Figured Paratype, type species (fire-damaged left valve) -- DICKINS, 1956, pp. 26-28, Pl. III, fig. 5. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves pp. 14-15, Pl. 46, fig. 34. Initially registered as F 17067.

**Locality, horizon, and age** as for CPC 756.

**CPC 758:** Figured Paratype, type species (steinkern) -- DICKINS, 1956, pp. 26-28, Text-fig. 2, Pl. III, figs 6-7. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves pp. 14-15. Initially registered as F 17053.

**Locality:** ¾ mile (1.2 km) south of Southern Cross Bore, "Middalya" Station, Western Australia. KENNEDY RANGE 1:250,000 sheet SG50-1.

**Horizon and age** as for CPC 756.

**CPC 759:** Figured Paratype, type species (incomplete right? valve) -- DICKINS, 1956, pp. 26-28, Pl. III, fig. 4. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves pp. 14-15. Initially registered as F 17075.

**Locality:** ¾ mile (1.2 km) southeast of Muderong Bore, "Middalya" Station, Western Australia. KENNEDY RANGE 1:250,000 sheet SG50-1.

**Horizon and age** as for CPC 756.

**CPC 760-762:** Paratypes, type species -- DICKINS, 1956, pp. 26-28. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves pp. 14-15. Initially registered as F 17053.

**Locality, horizon, and age** as for CPC 758.

### ***Pseudomyalina* sp. A DICKINS & SKWARKO, 1993**

Initially described as *Pseudomyalina* sp. by Dickins, 1963; referred to by Dickins & Skwarko, 1993A, as *Pseudomyalina* species A to avoid ambiguity.

**CPC 3915:** Figured specimen (incomplete external mould of left valve) -- DICKINS, 1963, pp. 69-70, Pl. 10, figs 11-13. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves p. 15, Pl. 46, fig. 28.

**Locality:** G202A - on a crest at the base of a ridge (probably hill 224) 5.9 miles (9.45 km) at 335° (true) from "Lyons River" homestead, Western Australia. 24.5553°S, 115.2975°E. Grid reference LT 276831, LYONS RIVER 1:100,000 sheet 1948; KENNEDY RANGE 1:250,000 sheet SG50-1.

**Horizon:** Local exposed top of the Callytharra Formation, Carnarvon Basin.

**Age:** Sterlitamakian Substage, Sakmarian, Early Permian.

**CPC 3916:** Figured specimen (incomplete internal mould of left valve) -- DICKINS, 1963, pp. 69-70, Pl. 10, fig. 10. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves p. 15.

**Locality:** G202 - as for CPC 3915.

**Horizon and age** as for CPC 3915.

### ***Pseudonucula bradshawensis* DICKINS, 1989**

**CPC 25255: HOLOTYPE**, type species (internal mould of right valve) -- DICKINS, 1989, p. 66, Text-fig. 1, Pl. 1, figs 6-7.

**Locality:** MC803 - 4 km north-northwest of "Blenheim" homestead, Queensland, Australia. MOUNT COOLON 1:250,000 sheet SF55-7.

**Horizon:** Upper Blenheim Subgroup, Bowen Basin.

**Age:** *Martiniopsis havilensis* Zone, Kazanian, Late Permian. Dickins' Fauna IV.

**CPC 25256:** Figured Paratype (steinkern) -- DICKINS, 1989, p. 66, Pl. 1, figs 1-2.

**Locality, horizon and age** as for CPC 25255.

**CPC 25257:** Figured Paratype (steinkern) -- DICKINS, 1989, p. 66, Pl. 1, fig. 3.

**Locality, horizon and age** as for CPC 25255.

**CPC 25258:** Figured Paratype (steinkern) -- DICKINS, 1989, p. 66, Pl. 1, figs 4-5.

**Locality:** UDC1 - at fence about 4 km northeast of "Lyra Park" homestead, Queensland, Australia. DUARINGA 1:250,000 sheet SF55-16.

**Horizon:** MacMillan Formation, Blenheim Subgroup, Back Creek Group, Bowen Basin.

**Age:** *Martiniopsis havilensis* Zone, Kazanian, Late Permian. Dickins' Fauna IV.

### ***Pteronychia haupti* POJETA & GILBERT-TOMLINSON, 1977**

**CPC 15562:** Figured Paratype, type species (steinkern) -- POJETA & GILBERT-TOMLINSON, 1977, p. 24, Pl. 21, figs 1-2.

**Locality:** E25 - about 2 km east of Mount Charlotte, Northern Territory, Australia. 24.709°S, 135.042°E. RODINGA 1:250,000 sheet SG53-2.

**Horizon:** Stairway Sandstone, Amadeus Basin.

**Age:** Early Darriwilian, Ordovician.

**CPC 15564: HOLOTYPE**, type species (incomplete shell) -- POJETA & GILBERT-TOMLINSON, 1977, p. 24, Pl. 21, figs 4-6.

**Locality, horizon, and age** as for CPC 15562.

### ***Pteronychia* sp. aff. *haupti* POJETA & GILBERT-TOMLINSON, 1977**

**CPC 15563:** Figured specimen (composite mould of right valve) -- POJETA & GILBERT-TOMLINSON, 1977, p. 24, Pl. 21, fig. 3.

**Locality:** T412 - 8.5 km south-southeast of the old "Tarlton Downs" homestead, 7.2 km east-southeast of the 1981 site of the homestead, Tarlton Range, Northern Territory, Australia. 22.6912°S, 136.857°E. TOBERMORY 1:250,000 sheet SF53-12.

**Horizon:** Carlo Sandstone, Toko Group, Georgina Basin.

**Age:** Darriwilian, Ordovician.

### ***Ptychopteria* (*Cornellites*) sp. nov. JOHNSTON, 1991**

*See Cornellites catellus*

The specimen figured by Johnston, 1991, as a new but un-named species of *Ptychopteria* (*Cornellites*), was included by him in 1993 in his new species *Cornellites catellus*.

### ***Pyramus concentricus* ETHERIDGE SNR, 1872?**

**CPC 7495:** Figured specimen (steinkern) -- RUNNEGAR, 1967, pp. 42-44, Pl. 3, figs 8-9.

**Locality:** SL199 - 4 km (2.5 miles) west of "Collaroy" homestead, ¼ mile (400 m) west of the Connors River, Saint Lawrence area, Queensland, Australia (on the map, shown as on the east bank of the river 4.7 km west-northwest of the homestead!). 22.021°S, 149.143°E. Grid reference 190251, SAINT LAWRENCE 1:250,000 sheet SF55-12.

**Horizon:** Upper Lizzie Creek Volcanics, Bowen Basin.

**Age:** Sterlitamakian Substage, Sakmarian, Early Permian.

**CPC 7497:** Figured specimen (steinkern) -- RUNNEGAR, 1967, pp. 42-44, Pl. 4, fig. 1.

**Locality:** Sp408/2 - about 300 m west of the track to "Stanleigh" homestead, 2 km west-northwest of the homestead, Queensland, Australia. 22.333°S, 148.203°E. SPRINGSURE 1:250,000 sheet SG55-3.

**Horizon:** Stanleigh Formation, Tiverton Subgroup, Back Creek Group, Bowen Basin.

**Age:** Sterlitamakian or Aktastinian Substage, late Sakmarian to early Artinskian, Early Permian.

### ***Pyramus myiformis* DANA, 1847**

**CPC 7494:** Figured specimen (internal mould of juvenile) -- RUNNEGAR, 1967, pp. 37-40, Pl. 2, fig. 13. RUNNEGAR, 1969B, Text-fig. 53F (in part).

**Locality:** Sp649 - described as being 2.0 miles at 188° from "Tanderra" homestead, and shown on the published map as being 4.2 km south of the homestead, on a tributary of Buckland Creek, Queensland, Australia. 24.631°S, 147.624°E. SPRINGSURE 1:250,000 sheet SG55-3.

**Horizon:** Mantuan *Productus* Bed, Peawaddy Formation, Blenheim Subgroup, Back Creek Group, Bowen Basin.

**Age:** Ufimian, Late Permian.

**Remarks:** Forms part of the basis for Text-fig. 53F in Runnegar, 1969B.

### ***Pyramus* sp. RUNNEGAR, 1967**

**CPC 7496:** Figured specimen (internal mould of right valve) -- RUNNEGAR, 1967, Pl. 3, fig. 12.

**Locality:** Du424 - on the north side of the track just east of May Downs Creek crossing, 12 km north of "Warwick" homestead, Queensland, Australia. 22.611°S, 148.674°E. SAINT LAWRENCE 1:250,000 sheet SF55-12.

**Horizon:** Upper Blenheim Subgroup, Back Creek Group, Bowen Basin.

**Age:** Kazanian, Late Permian.

### ***Quadratonucula australiensis* DICKINS, 1963**

**CPC 3863: HOLOTYPE**, type species (internal mould of right valve) -- DICKINS, 1963, pp. 33-34, Pl. 1, figs 21-22. DICKINS & SKWARKO, 1993A, microfiche 5, Bivalves p. 3, Pl. 46, fig. 14.

**Locality:** IR20 - Carynginia Gully, about ½ mile (0.8 km) at 334° (true) from Carynginia No. 1 Well, Irwin River area east of Geraldton, Western Australia. 28.924°S, 115.072°E. YALGOO 1:250,000 sheet SH50-2.

**Horizon:** Cited as "Fossil Cliff Formation": Fossil Cliff Member?, Holmwood Shale, Perth Basin, Irwin Sub-basin -- plots within undifferentiated Holmwood Shale on the 1977 map.

**Age:** Sakmarian, Early Permian.

**CPC 3864:** Figured Paratype A (internal mould of right valve) -- DICKINS, 1963, pp. 33-34, Pl. 1, figs 18-20. DICKINS & SKWARKO, 1993A, microfiche 5, Bivalves p. 3.

**Locality:** PB9 - Becketts Gully, 0.4 miles (0.6 km) above road crossing; Irwin River area, east of Geraldton, Western Australia. 29.0124°S, 115.0397°E. Grid reference 511056 (Pintharuka 1" = 1 mile sheet); PERENJORI 1:250,000 sheet SH50-6.

**Horizon and age** as for CPC 3863.

**CPC 3865:** Figured Paratype B (internal mould of right valve) -- DICKINS, 1963, pp. 33-34, Pl. 1, figs 16-17. DICKINS & SKWARKO, 1993A, microfiche 5, Bivalves p. 3.

**Locality, horizon, and age** as for CPC 3864.

**CPC 3866:** Figured Paratype C (internal mould of left valve) -- DICKINS, 1963, pp. 33-34, Pl. 1, fig 24. DICKINS & SKWARKO, 1993A, microfiche 5, Bivalves p. 3.

**Locality, horizon, and age** as for CPC 3864.

**CPC 3867:** Figured Paratype D (internal mould of left valve) -- DICKINS, 1963, pp. 33-34, Pl. 1, fig 23. DICKINS & SKWARKO, 1993A, microfiche 5, Bivalves p. 3.

**Locality, horizon, and age** as for CPC 3864.

### **Rhombopteriidae, gen. et sp. nov. JOHNSTON, 1991**

**CPC 29043:** Figured specimen (silicified left valve) -- JOHNSTON, 1991, Fig. 7C.

**Locality:** Within section B of Johnson, 1975, 350 m east of "Mountain View" farmhouse, south of Wellington Golf Course, central New South Wales, Australia. DUBBO 1:250,000 sheet SI55-4.

**Horizon:** Within Unit 11, 50-70 m above the base of section B, Garra Formation, Lachlan Fold Belt.

**Age:** Pragian, Early Devonian.

**Remarks:** Published as CPC F24981 (initially registered as F 24981).

**CPC 29044:** Figured specimen (silicified juvenile left valve) -- JOHNSTON, 1991, Fig. 7D.

**Locality, horizon, and age** as for CPC 29043.

**Remarks:** Published as CPC F24989 (as for CPC 29043).

### ***Sanguinolites? phlyctaenatus* JOHNSTON, 1993**

**CPC 30759:** Figured specimen (silicified fragment of shell posterior) -- JOHNSTON, 1993, pp. 95-96, Fig. 66E.

**Locality:** Macquarie University locality "Bloomfield" (= Australian National University locality R7): "Bloomfield" station, about 2 km northwest of Taemas bridge, southwest of Yass, New South Wales, Australia. Grid reference FB 673265, YASS 1:100,000 sheet 8628.

**Horizon:** Receptaculites Limestone Member, Taemas Formation, Murrumbidgee Group, Lachlan Fold Belt.

**Age:** Emsian, Early Devonian.

**CPC 30760:** Figured specimen (silicified right valve) -- JOHNSTON, 1993, pp. 95-96, Fig. 66D.

**Locality:** Macquarie University locality "Barbers 20": 7.5 km north-northeast of Wee Jasper village, west of Yass, New South Wales, Australia. Grid reference FB 507211, BRINDABELLA 1:100,000 sheet.

**Horizon:** Taemas Formation, Murrumbidgee Group, Lachlan Fold Belt.

**Age:** Emsian, Early Devonian.

### ***Schizodus crespinae* DICKINS, 1957**

**CPC 2241: HOLOTYPE** (incomplete right valve) -- DICKINS, 1957, pp. 38-39, Pl. VI, figs 1-3. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves pp. 33-34, Pl. 48, fig. 1.

**Locality:** ML109 - about 3 miles (4.8 km) northeast of Round Hill Well, 1.65 km west of Kialawibri Creek road crossing, "Winning" Station, Lyndon River area, Western Australia. 23.34°S, 114.463°E. Grid reference KV 639165, WINNING 1:100,000 sheet 1851; WINNING POOL 1:250,000 sheet SF50-13.

**Horizon:** Thambrong Formation, upper Lyons Group, Carnarvon Basin.

**Age:** Tastubian Substage, Sakmarian, Early Permian.

**CPC 2242:** Figured Paratype A (worn left valve) -- DICKINS, 1957, pp. 38-39, Pl. VI, figs 4-6. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves pp. 33-34, Pl. 48, fig. 2.

**Locality, horizon, and age** as for CPC 2241.

**CPC 2243:** Paratype B -- DICKINS, 1957, pp. 38-39. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves pp. 33-34.

**Locality, horizon, and age** as for CPC 2241.

### ***Schizodus fitzroyensis* DICKINS, 1963**

**CPC 3945: HOLOTYPE** (internal mould of right valve) -- DICKINS, 1963, pp. 100-101, Pl. 17, figs 14-17. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves p. 34, Pl. 48, fig. 6.

**Locality:** KPA54 - 16 miles (25.7 km) at 120° (true) from Mount Tuckfield, southern Saint George Range, Western Australia. 18.806°S, 125.314°E. NOONKANBAH 1:250,000 sheet SE51-12.

**Horizon:** Near the base of the Poole Sandstone, Canning Basin.

**Age:** Aktastinian Substage, Artinskian, Early Permian.

**CPC 3946:** Figured Paratype A (internal mould of left valve) -- DICKINS, 1963, pp. 100-101, Text-fig. 12A, Pl. 17, figs 14-17. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves p. 34.

**Locality, horizon, and age** as for CPC 3945.

**CPC 3947:** Figured Paratype B (left valve) -- DICKINS, 1963, pp. 100-101, Pl. 17, fig. 12. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves p. 34.

**Locality, horizon, and age** as for CPC 3945.

**CPC 3948:** Figured Paratype C (left valve) -- DICKINS, 1963, pp. 100-101, Pl. 17, fig. 11.

**Locality, horizon, and age** as for CPC 3945.

**CPC 3949:** Figured Paratype D (left valve) -- DICKINS, 1963, pp. 100-101, Pl. 17, fig. 10. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves p. 34.

**Locality:** KPA55 - 16 miles (25.7 km) at 120° (true) from Mount Tuckfield, southern Saint George Range, Western Australia. 18.806°S, 125.314°E. NOONKANBAH 1:250,000 sheet SE51-12.

**Horizon and age** as for CPC 3945.

**CPC 3950:** Figured Paratype E (left valve) -- DICKINS, 1963, pp. 100-101, Pl. 17, fig. 13. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves p. 34.

**Locality:** Locality uncertain, but probably at or near KNUA1, which is 1.6 miles (2.6 km) southwest of "Paradise" homestead, Nura Nura Ridge area, Western Australia. 18.0417°S, 124.5167°E. NOONKANBAH 1:250,000 sheet SE51-12.

**Horizon:** Nura Nura Member, Poole Sandstone, Canning Basin.

**Age:** Sterlitamakian Substage, Late Sakmarian, Early Permian.

### ***Schizodus kennedyensis* DICKINS, 1956**

*See also Schizodus sp. Hill & Woods*

The specimen figured under open nomenclature by Hill & Woods, 1964, was referred to *S. kennedyensis* by Hill, Playford & Woods, 1972

**CPC 764: HOLOTYPE** (right valve) -- DICKINS, 1956, pp. 30-32, Pl. V, figs 1-2. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves p. 35, Pl. 48, fig. 5. Initially registered as F 17052.

**Locality:** ¾ mile (1.2 km) south of Southern Cross Bore, "Middalya" Station, Western Australia. KENNEDY RANGE 1:250,000 sheet SG50-1.

**Horizon:** Coolkilya Greywacke, Kennedy Group, Carnarvon Basin.

**Age:** Kungurian, Early Permian.

**CPC 777:** Figured Paratype (left valve) -- DICKINS, 1956, pp. 30-32, Pl. V, fig. 3. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves p. 35. Initially registered as F 17052.

**Locality, horizon, and age** as for CPC 764.

**CPC 778, 779:** Paratypes (right valves) -- DICKINS, 1956, pp. 30-32. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves p. 35. Initially registered as F 17052.

**Locality, horizon, and age** as for CPC 764.

**CPC 780:** Paratype (left valve) -- DICKINS, 1956, pp. 30-32. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves p. 35. Initially registered as F 17052.

**Locality, horizon, and age** as for CPC 764.

**CPC 5181:** Figured specimen (left valve) -- HILL & WOODS, 1964, pl. PXII, fig. 5. HILL, PLAYFORD & WOODS, 1972, pl. PXII, fig. 5.

**Locality:** M412a - 1 mile (1.6 km) southeast of "Caringinyah" homestead, Queensland, Australia. MACKAY 1:250,000 sheet SF55-8.

**Horizon:** Tiverton Subgroup, Back Creek Group, Bowen Basin.

**Age:** Artinskian, Early Permian.

### ***Schizodus oweni* JOHNSTON, 1993**

**CPC 30743:** Cited specimen -- JOHNSTON, 1993, p. 111.

**Locality:** Macquarie University locality "Slocombes", in "The Basin", about 11.5 km northeast of Buchan, northern Victoria, Australia. BAIRNSDALE 1:250,000 sheet SJ55-7.

**Horizon:** Buchan Caves Limestone, Buchan Group, Lachlan Fold Belt.

**Age:** Emsian, Early Devonian.

### ***Schizodus sandimanensis* DICKINS, 1963**

**CPC 3951:** Figured Paratype A (internal mould of left valve, and incomplete external mould) -- DICKINS, 1963, pp. 101-102, Pl. 17, fig. 6. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves p. 36.

**Locality:** PB7 - Carynginia Gully, about ½ mile (0.8 km) at 334° (true) from Carynginia No. 1 Well, Irwin River area east of Geraldton, Western Australia. 28.924°S, 115.072°E. YALGOO 1:250,000 sheet SH50-2.

**Horizon:** Cited as "Fossil Cliff Formation": Fossil Cliff Member?, Holmwood Shale, Perth Basin, Irwin Sub-basin -- plots within undifferentiated Holmwood Shale on the 1977 map.

**Age:** Sakmarian, Early Permian.

**CPC 3952:** Figured Paratype B (internal and external moulds of right valve) -- DICKINS, 1963, pp. 101-102, Text fig 12B, Pl. 17, fig. 2. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves p. 36.

**Locality, horizon, and age** as for CPC 3951.

**CPC 3953:** Figured Paratype C -- DICKINS, 1963, pp. 101-102, Pl. 17, fig. 9. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves p. 36.

**Locality, horizon, and age** as for CPC 3951.

**CPC 3954:** Figured Paratype D (left valve) -- DICKINS, 1963, pp. 101-102, Pl. 17, fig. 1. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves p. 36.

**Locality:** KNUA1 - 1.6 miles (2.6 km) southwest of "Paradise" homestead, Nura Nura Ridge area, Western Australia. 18.0417°S, 124.5167°E. NOONKANBAH 1:250,000 sheet SE51-12.

**Horizon:** Nura Nura Member, Poole Sandstone, Canning Basin.

**Age:** Sterlitamakian Substage, Late Sakmarian, Early Permian.

### ***Schizodus truemani* JOHNSTON, 1993?**

**CPC 30744:** Cited specimen -- JOHNSTON, 1993, pp. 111-112.

**Locality:** Macquarie University locality "Barbers 20": 7.5 km north-northeast of Wee Jasper village, New South Wales, Australia. Grid reference FB 507211, BRINDABELLA 1:100,000 sheet .

**Horizon:** Taemas Formation, Murrumbidgee Group, Lachlan Fold Belt.

**Age:** Emsian, Early Devonian.

**Remarks:** Cited as 'poorly preserved' and 'probably belongs in *S. truemani*'.

### ***Schizodus* sp. DICKINS, 1963**

*Referred to as Schizodus sp. A in Dickins & Skwarko, 1993A.*

**CPC 4018:** Figured specimen (left valve) -- DICKINS, 1963, p. 102, Pl. 17, fig. 20. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves p. 37.

**Locality:** SG120A - 16 miles (25.7 km) at 120° (true) from Mount Tuckfield, southern Saint George Range, Western Australia. 18.806°S, 125.314°E. NOONKANBAH 1:250,000 sheet SE51-12.

**Horizon:** Marine horizon near the base of the Poole Sandstone, Canning Basin.

**Age:** Aktastinian Substage, Artinskian, Early Permian.

### ***Schizodus* sp. HILL & WOODS, 1964**

*See Schizodus kennedyensis*

The specimen figured as *Schizodus* sp. by Hill & Woods, 1964, was referred to *S. kennedyensis* by Hill, Playford & Woods, 1972.

### ***Solenomorpha* sp. JOHNSTON, 1993**

**CPC 30745:** Figured specimen (silicified fragmentary articulated shell) -- JOHNSTON, 1993, pp. 99-101, Figs 69F-H.

**Locality:** Macquarie University locality "Barbers 17": 7.5 km north-northeast of Wee Jasper village, New South Wales,

Australia. Grid reference FB 507211, BRINDABELLA 1:100,000 sheet .  
**Horizon:** Taemas Formation, Murrumbidgee Group, Lachlan Fold Belt.  
**Age:** Emsian, Early Devonian.

**CPC 30746:** Figured specimen (silicified anterior fragment of right valve) -- JOHNSTON, 1993, pp. 99-101, Figs 69D-E.  
**Locality, horizon, and age** as for CPC 30745.

### ***Sphenosolen draperi* POJETA & GILBERT-TOMLINSON, 1977**

**CPC 15582: HOLOTYPE**, type species (left valve) -- POJETA & GILBERT-TOMLINSON, 1977, p. 31, Pl. 25, fig. 1.  
**Locality:** Rd214 - about 1 mile (1.6 km) east-northeast of "Maryvale" homestead, Northern Territory, Australia. 24.6655°S, 134.084°E. RODINGA 1:250,000 sheet SG53-2.  
**Horizon:** About 5 m above the local base of the Stairway Sandstone, Amadeus Basin.  
**Age:** Early Darriwilian, Ordovician.  
**Remarks:** The published distance from "Maryvale" is 2.4 km, but the original index card gives "about 1 mile".

**CPC 15583:** Figured Paratype, type species (right valve) -- POJETA & GILBERT-TOMLINSON, 1977, p. 31, Pl. 25, fig. 2.  
**Locality, horizon, age and remarks** as for CPC 15582.

### ***Sthenodonta eastii* (TATE, 1896)**

**CPC 15533:** Figured specimen, type species (steinkern) -- POJETA & GILBERT-TOMLINSON, 1977, p. 17, Pl. 12, figs 5-6.  
**Locality:** ML47D - measured section W9, on the south flank of the anticline, Gardiner Range, Northern Territory, Australia. 23.8675°S, 131.7617°E. Grid reference 7813.3577, MOUNT LIEBIG 1:250,000 sheet SF52-16.  
**Horizon:** 110 m above the base of the Stairway Sandstone, Amadeus Basin.  
**Age:** Early Darriwilian, Ordovician.

**CPC 15534:** Figured specimen, type species (steinkern) -- POJETA & GILBERT-TOMLINSON, 1977, p. 17, Pl. 12, figs 7-9.  
**Locality, horizon, and age** as for CPC 15533.

**CPC 15535:** Figured specimen, type species (steinkern) -- POJETA & GILBERT-TOMLINSON, 1977, p. 17, Pl. 12, fig. 10.  
**Locality:** Hy8 - southeastern nose of the Parana Hill anticline, 32 km west-southwest of "Tempe Downs" homestead, Northern Territory, Australia. 24.4311°S, 132.1119°E. Grid reference 2072.2950, HENBURY 1:250,000 sheet SG53-1.  
**Horizon:** Stairway Sandstone, Amadeus Basin.  
**Age:** Early Darriwilian, Ordovician.

**CPC 15536:** Figured specimen, type species (steinkern) -- POJETA & GILBERT-TOMLINSON, 1977, p. 17, Pl. 13, figs 1-3.  
**Locality, horizon, and age** as for CPC 15533.

**CPC 15537:** Figured specimen, type species (steinkern) -- POJETA & GILBERT-TOMLINSON, 1977, p. 17, Pl. 13, figs 4-6.  
**Locality:** LA136 - rubble below low cliffs at measured section LAC3, on a hog-back ridge on the north limb of the Johnny's Creek anticline, Northern Territory, Australia. 24.2617°S, 131.69°E. LAKE AMADEUS 1:250,000 sheet SG52-4.  
**Horizon and age** as for CPC 15535.

**CPC 15538:** Figured specimen, type species (external mould) -- POJETA & GILBERT-TOMLINSON, 1977, p. 17, Pl. 13, fig. 7.  
**Locality:** LA137 - measured section LAC3, at a low cliff on a hog-back ridge on the north limb of the Johnny's Creek anticline, Northern Territory, Australia. 24.2250°S, 131.6814°E. LAKE AMADEUS 1:250,000 sheet SG52-4.  
**Horizon and age** as for CPC 15535.

**CPC 15539:** Figured specimen, type species (steinkern) -- POJETA & GILBERT-TOMLINSON, 1977, p. 17, Pl. 13, fig. 8.  
**Locality:** ML47C - measured section W9, on the south flank of the anticline, Gardiner Range, Northern Territory, Australia. 23.8675°S, 131.7617°E. Grid reference 7813.3577, MOUNT LIEBIG 1:250,000 sheet SF52-16.  
**Horizon:** 64.4 m below the top of the Stairway Sandstone, Amadeus Basin.  
**Age:** Early Darriwilian, Ordovician.

## ***Sthenodonta jelli* POJETA & GILBERT-TOMLINSON, 1977**

- CPC 15506:** Figured Paratype (left valve) -- POJETA & GILBERT-TOMLINSON, 1977, p. 18, Pl. 6, fig. 1.  
**Locality:** Hy717 - Briscoe Tent Hill, Northern Territory, Australia. 24.8322°S, 133.2458°E. HENBURY 1:250,000 sheet SG53-1.  
**Horizon:** Stokes Siltstone, Amadeus Basin.  
**Age:** Darriwilian, Ordovician.
- CPC 15507:** Figured Paratype (right valve) -- POJETA & GILBERT-TOMLINSON, 1977, p. 18, Pl. 6, fig. 2.  
**Locality, horizon, and age** as for CPC 15506.
- CPC 15508:** Figured Paratype (right valve) -- POJETA & GILBERT-TOMLINSON, 1977, p. 18, Pl. 6, fig. 3.  
**Locality, horizon, and age** as for CPC 15506.
- CPC 15509:** Figured Paratype (left valve) -- POJETA & GILBERT-TOMLINSON, 1977, p. 18, Pl. 6, fig. 4.  
**Locality, horizon, and age** as for CPC 15506.
- CPC 15510: HOLOTYPE** (right valve) -- POJETA & GILBERT-TOMLINSON, 1977, p. 18, Pl. 6, fig. 5.  
**Locality, horizon, and age** as for CPC 15506.
- CPC 15511:** Figured Paratype (right valve) -- POJETA & GILBERT-TOMLINSON, 1977, p. 18, Pl. 7, fig. 4.  
**Locality, horizon, and age** as for CPC 15506.
- CPC 15512:** Figured Paratype (left valve) -- POJETA & GILBERT-TOMLINSON, 1977, p. 18, Pl. 7, fig. 5.  
**Locality, horizon, and age** as for CPC 15506.

## ***Sthenodonta passmoreae* POJETA & GILBERT-TOMLINSON, 1977**

- CPC 15529:** Figured specimen (internal mould of left valve) -- POJETA & GILBERT-TOMLINSON, 1977, p. 18, Pl. 11, fig. 4.  
**Locality:** GEO 306/1-74 - Neeyamba Hill, Toko Range, Northern Territory, Australia. 22.9498°S, 138.3058°E. GLENORMISTON 1:250,000 sheet SF54-9.  
**Horizon:** Nora Formation, Georgina Basin.  
**Age:** Early Darriwilian, Ordovician.
- CPC 15530:** Figured Paratype (internal mould of left valve) -- POJETA & GILBERT-TOMLINSON, 1977, p. 18, Pl. 11, figs 6-7.  
**Locality:** MISC 6 - 3.2 km north-northwest of Burnt Well, Northern Territory, Australia. 22.9321°S, 137.8526°E. TOBERMORY 1:250,000 sheet SF53-12.  
**Horizon and age** as for CPC 15529.
- CPC 15531:** Figured Paratype (external mould of left valve) -- POJETA & GILBERT-TOMLINSON, 1977, p. 18, Pl. 11, fig. 8.  
**Locality:** T15 - a northern tongue of the Tarlton Range shortly south of the old Queensland road, 3.2 km north-northwest of "Tarlton Downs" homestead (in 1981), Northern Territory, Australia. 22.6299°S, 136.7888°E. TOBERMORY 1:250,000 sheet SF53-12.  
**Horizon and age** as for CPC 15529.
- CPC 15532:** Figured Paratype (internal mould of right valve) -- POJETA & GILBERT-TOMLINSON, 1977, p. 18, Pl. 11, fig. 9.  
**Locality:** NT242 - Toko Range, 2.4 km southeast of No. 8 Dam, 8.3 km north of Coolibah Yard, Northern Territory, Australia. 22.7557°S, 137.7311°E. TOBERMORY 1:250,000 sheet SF53-12.  
**Horizon and age** as for CPC 15529.

### ***Streblopteria engelhardti* (ETHERIDGE & DUN)**

*See Streblopteria sp. cf. parkesi*

The specimen figured as *Streblopteria engelhardti* by Hill & Woods, 1964, was compared with *S. parkesi* by Hill, Playford & Woods, 1972.

### ***Streblopteria sp. cf. parkesi* (FLETCHER, 1929)**

*See also Streblopteria engelhardti*

A specimen figured as *Streblopteria engelhardti* by Hill & Woods, 1964, was compared with *S. parkesi* by Hill, Playford & Woods, 1972.

**CPC 5177:** Figured specimen (right valve) -- HILL & WOODS, 1964, pl. PXI, fig. 18. HILL, PLAYFORD & WOODS, 1972, pl. PXI, fig. 18.

**Locality:** Homevale E - ¼ mile (400 m) east of "Homevale" homestead, northwest of Nebo, Queensland, Australia.

**Horizon:** Homevale beds, Tiverton Subgroup, Back Creek Group, Bowen Basin.

**Age:** Artinskian, Early Permian.

### ***Streblopteria sp.* DICKINS, 1963**

**CPC 3932:** Figured specimen (internal mould of left valve) -- DICKINS, 1963, p. 88, Pl. 14, fig. 12. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves p. 27, Pl. 47, fig. 3.

**Locality:** KPA54 - 16 miles (25.7 km) at 120° (true) from Mount Tuckfield, southern Saint George Range, Western Australia. 18.806°S, 125.314°E. NOONKANBAH 1:250,000 sheet SE51-12.

**Horizon:** Near the base of the Poole Sandstone, Canning Basin.

**Age:** Aktastinian Substage, Artinskian, Early Permian.

**CPC 3933:** Figured specimen (internal mould of right valve) -- DICKINS, 1963, p. 88, Pl. 14, fig. 9. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves p. 27. Initially registered as F 17108.

**Locality:** - The first ridge of Callytharra Formation 0.4 miles (0.6 km) east of "Mount Sandiman" woolshed, ¼-½ mile (0.4-0.8 km) north of the "Mount Sandiman" - "Merlinleigh" road, Western Australia. MOUNT SANDIMAN 1:100,000 sheet 1949; KENNEDY RANGE 1:250,000 sheet SG50-1.

**Horizon:** Callytharra Formation, Carnarvon Basin.

**Age:** Sakmarian, Early Permian.

### ***Stutchburia costata* (MORRIS, 1845)**

*The species author was incorrectly cited as Etheridge by Hill & Woods, 1964.*

**CPC 5178:** Figured specimen (right valve) -- HILL & WOODS, 1964, pl. PXII, fig. 2. HILL, PLAYFORD & WOODS, 1972, Pl. PXII, fig. 2.

**Locality:** CL12/1 - on the east side of Cherwell Creek 4.25 km south of "Mount Lebanon" homestead, north-northwest of Clermont, Queensland, Australia. 22.257°S, 147.974°E. CLERMONT 1:250,000 sheet SF55-11.

**Horizon:** Bivalve bed about 20 ft (6 m) above the *Strophalosia clarkei* bed, Blenheim Subgroup, Back Creek Group, Bowen Basin.

**Age:** Ufimian, early Late Permian.

### ***Stutchburia hoskingae* DICKINS, 1963**

**CPC 3944:** Figured Paratype B (external mould of left valve) -- DICKINS, 1963, pp. 96-98, Pl. 15, fig. 17. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves pp. 59-60.

**Locality:** PB10 - cited as a limestone band in Becketts Gully, just below Round Hill, Irwin River area east of Geraldton, Western Australia; the position is uncertain, because on maps Round Hill is not near Becketts Gully. The location could be below a road crossing, at 29.0221°S, 115.0179°E. PERENJORI 1:250,000 sheet SH50-6.

**Horizon:** Fossil Cliff Member? or Beckett Member?, Holmwood Shale, Perth Basin, Irwin Sub-basin -- the locality does not plot within Fossil Cliff Member on the map.  
**Age:** Sakmarian, Early Permian.

### ***Stutchburia muderongensis* DICKINS, 1956**

**CPC 747: HOLOTYPE** (steinkern) -- DICKINS, 1956, pp. 14-16, Pl. I, figs 15-16. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves p. 60. Initially registered as F 17076.

**Locality:** 1¼ miles (2.8 km) southeast of Muderong Bore, "Middalya" Station, Western Australia. KENNEDY RANGE 1:250,000 sheet SG50-1.

**Horizon:** Coolkilya Greywacke, Kennedy Group, Carnarvon Basin.

**Age:** Kungurian, Early Permian.

**CPC 748:** Figured Paratype (right valve) -- DICKINS, 1956, pp. 14-16, Pl. I, fig. 12. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves p. 60. Initially registered as F 17076.

**Locality, horizon, and age** as for CPC 747.

**CPC 749:** Figured Paratype (right valve) -- DICKINS, 1956, pp. 14-16, Pl. I, fig. 13. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves p. 60. Initially registered as F 17076.

**Locality, horizon, and age** as for CPC 747.

**CPC 1306, 1307:** Cited specimens (internal moulds of left valves) -- DICKINS, 1956, pp. 14-16. Initially registered as F 17115.

**Locality:** 2½ miles (4 km) northwest of Baker's Bore, "Middalya" Station, Western Australia.

**Horizon and age** as for CPC 747.

**CPC 1308:** Figured Paratype -- DICKINS, 1956, pp. 14-16, Pl. I, fig. 14. Initially registered as F 17076.

**Locality, horizon, and age** as for CPC 747.

**Remarks:** Destroyed in 1953 fire.

**CPC 1309:** Figured Paratype DICKINS, May 1956, p. 14-16, Pl. I, fig. 17. Initially registered as F 17076.

**Locality, horizon, age and remarks** as for CPC 1308.

### ***Stutchburia randsi* (ETHERIDGE JNR, 1892)**

**CPC 20162:** Figured specimen -- DICKINS, 1981, p. 29, Pl. 3, fig. 12.

**Locality:** TH411 - 3 km northeast of Silverwood railway siding, south of Warwick, southeastern Queensland, Australia. 28.3393°S, 152.0439°E. WARWICK 1:250,000 sheet SH56-2.

**Horizon:** Eight Mile Creek beds.

**Age:** Baigendzhinian Substage, Artinskian, Early Permian.

**CPC 20163:** Figured specimen -- DICKINS, 1981, p. 29, Pl. 3, fig. 13.

**Locality, horizon, and age** as for CPC 20162.

**CPC 20164:** Figured specimen -- DICKINS, 1981, p. 29, Pl. 3, figs 14-15.

**Locality:** TH198 - 4 km east-northeast of Silverwood railway siding, south of Warwick, southeastern Queensland, Australia. 28.3375°S, 152.0490°E. WARWICK 1:250,000 sheet SH56-2.

**Horizon and age** as for CPC 20162.

**CPC 20165:** Figured specimen -- DICKINS, 1981, p. 29, Pl. 3, fig. 16.

**Locality, horizon, and age** as for CPC 20162.

### ***Stutchburia variabilis* DICKINS, 1957**

**CPC 2205: HOLOTYPE** (internal mould of left valve) -- DICKINS, 1957, pp. 21-22, Pl. II, figs 7-9. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves pp. 61-2, Pl. 48, fig. 12.

**Locality:** WB6 - on the south side of the Wooramel River, 1.8 miles (2.9 km) slightly south of west from Callytharra Spring, "Byro" Station, Western Australia. 25.874°S, 115.482°E. Grid reference LS 479369, CALLYTHARRA 1:100,000 sheet 1946; WOORAMEL 1:250,000 sheet SG50-5.  
**Horizon:** Carrandibby Formation, Canarvon Basin.  
**Age:** Tastubian Substage, Sakmarian, Early Permian.  
**Remarks:** CPC 2205 and 2206 are on the same specimen.

**CPC 2206:** Figured Paratype A (external mould of incomplete right valve) -- DICKINS, 1957, pp. 21-22, Pl. II, fig. 10. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves pp. 61-2.  
**Locality, horizon, age and remarks** as for CPC 2205.

**CPC 2207:** Figured Paratype B (internal mould of left valve) -- DICKINS, 1957, pp. 21-22, Pl. II, fig. 13. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves pp. 61-2.  
**Locality:** WB52 - on the south side of the Wooramel River, about 1 mile (1.6 km) west of Callytharra Spring, "Byro" Station, Western Australia. 25.871°S, 115.494°E. Grid reference LS 490371, CALLYTHARRA 1:100,000 sheet 1946; WOORAMEL 1:250,000 sheet SG50-5.  
**Horizon and age** as for CPC 2205.

**CPC 2208, 2209:** Paratypes C, D (internal moulds of right valves) -- DICKINS, 1957, pp. 21-22. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves pp. 61-2.  
**Locality, horizon, and age** as for CPC 2207.

**CPC 2210:** Figured Paratype E (nearly complete shell) -- DICKINS, 1957, pp. 21-22, Pl. II, figs 11-12. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves pp. 61-2.  
**Locality:** GW81 - on the south side of the Wooramel River, about 1 mile (1.6 km) west of Callytharra Spring, "Byro" Station, Western Australia. 25.871°S, 115.494°E. Grid reference LS 490371, CALLYTHARRA 1:100,000 sheet 1946; WOORAMEL 1:250,000 sheet SG50-5.  
**Horizon and age** as for CPC 2205.

**CPC 2211:** Figured Paratype F (left valve) -- DICKINS, 1957, pp. 21-22, Pl. II, fig. 14. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves pp. 61-2.  
**Locality, horizon, and age** as for CPC 2210.

### ***Undulomya pleiopleura* FLETCHER, 1946**

**CPC 763:** Figured specimen (shell) -- DICKINS, 1956, p. 29, Pl. IV, figs 6-8. DICKINS & SHAH, 1965, Pl. 16, fig. 10. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves pp. 57-8, Pl. 49, fig. 11. Initially registered as F 17041.  
**Locality:** 2 miles (3.2 km) north of Muderong Bore, "Middalya" Station, Western Australia. KENNEDY RANGE 1:250,000 sheet SG50-1.  
**Horizon:** Baker Formation, Byro Group, Carnarvon Basin (Dickins & Shah, 1965).  
**Age:** Late Artinskian to Kungurian, Early Permian.

### ***Vacunella curvata* (MORRIS, 1845)**

**CPC 6708:** Figured specimen (steinkern) -- WATERHOUSE, 1969, pp. 34-40, Pl. 5, fig. 2.  
**Locality:** CL12/1 (not C112, as published by Waterhouse) - on the east side of Cherwell Creek 4.25 km south of "Mount Lebanon" homestead, north-northwest of Clermont, Queensland, Australia. 22.257°S, 147.974°E. CLERMONT 1:250,000 sheet SF55-11.  
**Horizon:** Bivalve bed about 20 ft (6 m) above the *Strophalosia clarkei* bed, Blenheim Subgroup, Back Creek Group, Bowen Basin.  
**Age:** Ufimian, early Late Permian.

**CPC 6709:** Figured specimen (steinkern) -- WATERHOUSE, 1969, pp. 34-40, Pl. 4, fig. 3.  
**Locality, horizon, and age** as for CPC 6708.

**CPC 7357:** Figured specimen (external mould) -- RUNNEGAR, 1967, pp. 63-67, Pl. 8, fig. 5. RUNNEGAR, 1968, Pl. 20, fig. 5.

**Locality:** CL25/1 about 500 m northwest of the Warwick - Clermont road, 2 km northeast of the Charcoal Creek crossing and 6.5 km southwest of "Mount Roper" homestead, Queensland, Australia. 22.875°S, 148.374°E. CLERMONT 1:250,000 sheet SF55-11.

**Horizon:** *Strophalosia clarkei* bed, Blenheim Subgroup, Back Creek Group, Bowen Basin.

**Age:** Ufimian, early Late Permian.

**CPC 7513:** Figured specimen (steinkern) -- RUNNEGAR, 1967, pp. 63-66, Pl. 8, figs 1-2.

**Locality, horizon, and age** as for CPC 6708.

**CPC 7514:** Figured specimen (steinkern) -- RUNNEGAR, 1967, pp. 63-66, Pl. 8, figs 3-4.

**Locality, horizon, and age** as for CPC 6708.

**CPC 25268:** Figured specimen (external mould of right valve) -- DICKINS, 1989, p. 69, Pl. 1, fig. 15.

**Locality:** UDC1 - at fence about 4 km northeast of "Lyra Park" homestead, Queensland, Australia. DUARINGA 1:250,000 sheet SF55-16.

**Horizon:** MacMillan Formation, Blenheim Subgroup, Back Creek Group, Bowen Basin.

**Age:** *Martiniopsis havilensis* Zone, Kazanian, Late Permian.

### ***Vacunella? dawsone* RUNNEGAR, 1967**

*See also Vacunella? sp. nov. RUNNEGAR, 1968*

Runnegar (1968) figured one specimen under open nomenclature to avoid possible nomenclatural problems caused by differing publication times.

**CPC 7358:** Figured Paratype -- RUNNEGAR, 1967, pp. 73-74, Pl. 11, fig. 5. RUNNEGAR, 1968, Pl. 20, fig. 12.

**Locality:** Ba814 - in Jerry Creek (near Ba321 - see below), near the Baralaba - Rannes road 8 km east of Baralaba, Dawson Valley, Queensland, Australia. 24.17°S, 149.88°E. BARALABA 1:250,000 sheet SG55-4.

**Horizon:** Barfield Formation, upper Blenheim Subgroup, Back Creek Group, Bowen Basin.

**Age:** Kazanian, Late Permian.

**Remarks:** This specimen was incorrectly cited as holotype in the plate caption in Runnegar, 1967.

**CPC 7519:** Figured Paratype (internal mould of left valve) -- RUNNEGAR, 1967, pp. 73-74, Pl. 11, figs 3-4.

**Locality:** Ba321 - in Jerry Creek about 300 m northeast of a level crossing on the Baralaba - Rannes road, about 8 km east of Baralaba, Queensland, Australia. 24.164°S, 149.883°E. BARALABA 1:250,000 sheet SG55-4.

**Horizon:** Upper Barfield Formation, Blenheim Subgroup, Back Creek Group, Bowen Basin.

**Age:** Kazanian, Late Permian.

**CPC 7520:** Figured Paratype (partly decorticated left valve) -- RUNNEGAR, 1967, pp. 73-74, Pl. 11, fig. 8.

**Locality, horizon, and age** as for CPC 7519.

### ***Vacunella etheridgei* (DE KONINCK, 1876)**

**CPC 7515:** Figured specimen (partly decorticated right valve) -- RUNNEGAR, 1967, pp. 67-69, Pl. 9, fig. 1.

**Locality:** Z66 - cited as Dry Creek, 5 miles (8 km) at 263° from "Ingelara" homestead, Queensland, Australia, but that is on Triassic. The cited locality is at 25.0167°S, 148.2917°E. EDDYSTONE 1:250,000 sheet SG55-7.

**Horizon:** Ingelara Formation?, Bowen Basin.

**Age:** Kungurian?, Early Permian.

**Remarks:** The locality is very uncertain. In BMR Report 142, Permian localities in Dry Ck (3.5 km southwest of "Ingelara") are shown as Peawaddy Formation, but the Ingelara Formation is stated to outcrop there too. The one fossil locality shown on the geological map within the Ingelara Formation is to the north, on a tributary of Dry Creek, 3.8 km west-southwest of "Ingelara".

**CPC 7516:** Figured specimen (steinkern) -- RUNNEGAR, 1967, pp. 67-69, Pl. 9, figs 6-7.

**Locality:** M415 - about 3.1 km south-southwest of "Homevale" homestead, 500 m southwest of Moonlight Creek, northwest of Nebo, Queensland, Australia. 21.4699°S, 148.5202°E. MACKAY 1:250,000 sheet SF55-8.

**Horizon:** Lower Gebbie Subgroup, Back Creek Group, Bowen Basin.

**Age:** Baigendzhinian Substage, Artinskian, Early Permian.

**CPC 7517:** Figured specimen (steinkern) -- RUNNEGAR, 1967, pp. 67-69, Text-fig. 3B, Pl. 9, figs 8-11.  
**Locality, horizon, and age** as for CPC 7516.

**CPC 7518:** Figured specimen (steinkern) -- RUNNEGAR, 1967, pp. 67-69, Pl. 9, fig. 14.  
**Locality, horizon, and age** as for CPC 7516.

***Vacunella* sp. cf. *etheridgei* (DE KONINCK, 1876)**

**CPC 20146:** Figured specimen -- DICKINS, 1981, p. 26, Pl. 1, fig. 1.  
**Locality:** TH198 - 4 km east-northeast of Silverwood railway siding., south of Warwick, southeastern Queensland, Australia. 28.3375°S, 152.0490°E. WARWICK 1:250,000 sheet SH56-2.  
**Horizon:** Eight Mile Creek beds.  
**Age:** Baigendzhinian Substage, Artinskian, Early Permian.

***Vacunella?* sp. nov. A RUNNEGAR, 1967**

**CPC 7521:** Figured specimen (internal mould of right valve) -- RUNNEGAR, 1967, pp. 72-73, Text-fig. 3E, Pl. 11, fig. 9.  
**Locality:** MC479 - about 1 km northwest of the "Turrawalla" - Eungella road crossing of Hazlewood Creek, about 5.8 km east-southeast of "Turrawalla", and about 500 m northeast of the creek, Queensland, Australia. 21.183°S, 148.295°E. MOUNT COOLON 1:250,000 sheet SF55-7.  
**Horizon:** Upper Lizzie Creek Volcanics, Bowen Basin.  
**Age:** Sterlitamakian Substage, Sakmarian, Early Permian.

**CPC 7522:** Figured specimen (internal mould of left valve) -- RUNNEGAR, 1967, pp. 72-73, Pl. 11, fig. 10.  
**Locality:** B686 - in the headwaters of the Bowen River, 1.8 km east-northeast of "Exmoor" homestead, central Queensland, Australia. 20.945°S, 148.142°E. BOWEN 1:250,000 sheet SF55-3.  
**Horizon:** Tiverton Subgroup, Back Creek Group, Bowen Basin.  
**Age:** Artinskian, Early Permian.

**CPC 7523:** Figured specimen (internal mould of right valve) -- RUNNEGAR, 1967, pp. 72-73, Pl. 11, fig. 11.  
**Locality, horizon, and age** as for CPC 7522.

***Vacunella?* sp. nov. (DICKINS, 1956)**

*See also Allorisma? sp. nov.*

Tentatively assigned to *Allorisma* by Dickins, 1956, and equally tentatively transferred to *Vacunella* by Dickins & Skwarko, 1993A.

**CPC 754:** Figured specimen (left valve) -- DICKINS, 1956, pp. 21-22, Pl. II, fig. 1. DICKINS & SKWARKO, 1993A, microfiche 6, Bivalves p. 52. Initially registered as F 17128.  
**Locality:** 2 miles (3.2 km) south-southeast of Donelly's Well, "Williambury" Station, Western Australia. KENNEDY RANGE 1:250,000 sheet SG50-1.  
**Horizon:** About the boundary of the Mallens Greywacke and the overlying Bulgadoo Shale, Byro Group, Carnarvon Basin.  
**Age:** Artinskian, Early Permian.

***Vacunella?* sp. nov. RUNNEGAR, 1968**

*See Vacunella? dawsonensis*

Runnegar (1968) figured one specimen under open nomenclature to avoid possible nomenclatural problems caused by differing publication times.

***Xestoconcha kraciukae* POJETA & GILBERT-TOMLINSON, 1977**

**CPC 15584:** Figured Paratype, type species (internal mould of right valve) -- POJETA & GILBERT-TOMLINSON, 1977, p. 28, Pl. 25, figs 3-5.

**Locality:** NT255 - Parkes Pass, south of Running Water Yard on the Finke River, Northern Territory, Australia. 24.342°S, 132.897°E. HENBURY 1:250,000 sheet SG53-1.

**Horizon:** Pacoota Sandstone, Amadeus Basin.

**Age:** Late Lancefieldian, Early Ordovician.

**CPC 15585:** Figured Paratype, type species (internal mould of right valve) -- POJETA & GILBERT-TOMLINSON, 1977, p. 28, Pl. 25, fig. 6.

**Locality:** NT237C - near Pine Gap, "east of road, 12 km southwest of Alice Springs on the Owen Springs road", Northern Territory, Australia. 23.81°S, 133.74°E. ALICE SPRINGS 1:250,000 sheet SF53-14.

**Horizon and age** as for CPC 15584.

**CPC 15586:** Figured Paratype, type species (internal mould of left valve) -- POJETA & GILBERT-TOMLINSON, 1977, p. 28, Pl. 25, fig. 7.

**Locality:** NT237B - as for CPC 15585.

**Horizon and age** as for CPC 15584.

**CPC 15587:** Figured Paratype, type species (internal mould of right valve) -- POJETA & GILBERT-TOMLINSON, 1977, p. 28, Pl. 25, figs 8-9.

**Locality:** Hy269 - 1300 yds (1190 m) above a dog-leg bend in a tributary of the Hugh River, and 100 yds (90 m) up a side creek, on the southern flank of the Waterhouse Range, Northern Territory, Australia. 24.0178°S, 133.3614°E. HENBURY 1:250,000 sheet SG53-1.

**Horizon and age** as for CPC 15584.

**CPC 15588: HOLOTYPE**, type species (internal mould of right valve) -- POJETA & GILBERT-TOMLINSON, 1977, p. 28, Pl. 25, figs 10-11.

**Locality, horizon, and age** as for CPC 15586.

**CPC 15589:** Figured Paratype, type species (internal mould of right valve) -- POJETA & GILBERT-TOMLINSON, 1977, p. 28, Pl. 25, fig. 12.

**Locality:** PW-14-74 - on a ridge overlooking the west bank of the Hugh River, Lawrence Gorge, on the southern flank of the Waterhouse Range, Northern Territory, Australia. 24.0271°S, 133.3944°E. HENBURY 1:250,000 sheet SG53-1.

**Horizon and age** as for CPC 15584.

### ***Zeehanina jacksoni* POJETA & GILBERT-TOMLINSON, 1977**

**CPC 15496: HOLOTYPE**, type species (right valve) -- POJETA & GILBERT-TOMLINSON, 1977, p. 19, Pl. 3, figs 9-11.

**Locality:** Smelter's Quarry, 2.5 km south of Zeehan, Tasmania, Australia. Grid reference CP 804410, QUEENSTOWN 1:250,000 sheet SK55-5.

**Horizon:** Gordon Group.

**Age:** Eastonian, Late Ordovician.

**Remarks:** Misprinted in text and plate caption as CPC 15495.

**Class Cephalopoda**  
**Subclass Nautiloidea**

***Aethoceras caurus* TEICHERT & GLENISTER, 1954**

**CPC 364: HOLOTYPE** (internal mould of incomplete shell) -- TEICHERT & GLENISTER, 1954, pp. 82-83, Text-fig. 15, Pl. 9, figs 8-10.

**Locality:** NL20E - type section of the Emanuel Formation in Emanuel Creek, Prices Creek area 65 km south-southeast of Fitzroy Crossing, "Christmas Creek" Station, Kimberley district, Western Australia. 18.6583°S, 125.9083°E. NOON-KANBAH 1:250,000 sheet SE51-12.

**Horizon:** About 1070 ft (326 m) above the exposed base of the Emanuel Formation (in the middle member of Nicoll *et al.*, 1993), Prices Creek Group, Canning Basin.

**Age:** *Prioniodus elegans* - *Bergstroemognathus extensus* Zone, Arenig, Ordovician.

***Aphetoceras delectans* TEICHERT & GLENISTER, 1954**

**CPC 359: HOLOTYPE** (worn shell) -- TEICHERT & GLENISTER, 1954, pp. 77-80, Pl. 10, figs 1-2. Initially registered as F 17755.

**Locality:** NL20D - about the middle of the type section of the Emanuel Formation in Emanuel Creek, Prices Creek area 65 km south-southeast of Fitzroy Crossing, "Christmas Creek" Station, Kimberley district, Western Australia. 18.6583°S, 125.9083°E. NOONKANBAH 1:250,000 sheet SE51-12.

**Horizon:** Emanuel Formation (in the middle member of Nicoll *et al.*, 1993), Prices Creek Group, Canning Basin.

**Age:** *Prioniodus elegans* - *Bergstroemognathus extensus* Zone, Arenig, Ordovician.

**CPC 360: Figured Paratype** (incomplete worn shell) -- TEICHERT & GLENISTER, 1954, pp. 77-80, Pl. 10, figs 3-4. Initially registered as F 17772.

**Locality, horizon, and age** as for CPC 359.

**CPC 361: Figured Paratype** -- TEICHERT & GLENISTER, 1954, pp. 77-80, Pl. 10, fig. 7. Initially registered as F 17752.

**Locality:** NL20E - type section of the Emanuel Formation in Emanuel Creek, Prices Creek area 65 km south-southeast of Fitzroy Crossing, "Christmas Creek" Station, Kimberley district, Western Australia. 18.6583°S, 125.9083°E. NOON-KANBAH 1:250,000 sheet SE51-12.

**Horizon:** About 1070 ft (326 m) above the exposed base of the Emanuel Formation (in the middle member of Nicoll *et al.*, 1993), Prices Creek Group, Canning Basin.

**Age:** *Prioniodus elegans* - *Bergstroemognathus extensus* Zone, Arenig, Ordovician.

**CPC 362: Figured Paratype** (fragment of living chamber) -- TEICHERT & GLENISTER, 1954, pp. 77-80, Pl. 10, figs 5-6.

**Locality, horizon, and age** as for CPC 359.

***Aphetoceras desertorum* TEICHERT & GLENISTER, 1954**

**CPC 363: HOLOTYPE** (incomplete shell) -- TEICHERT & GLENISTER, 1954, pp. 80-81, Text-fig. 14, Pl. 10, fig. 8. Initially registered as F 17780.

**Locality:** NL20E - type section of the Emanuel Formation in Emanuel Creek, Prices Creek area 65 km south-southeast of Fitzroy Crossing, "Christmas Creek" Station, Kimberley district, Western Australia. 18.6583°S, 125.9083°E. NOON-KANBAH 1:250,000 sheet SE51-12.

**Horizon:** About 1070 ft (326 m) above the exposed base of the Emanuel Formation (in the middle member of Nicoll *et al.*, 1993), Prices Creek Group, Canning Basin.

**Age:** *Prioniodus elegans* - *Bergstroemognathus extensus* Zone, Arenig, Ordovician.

***Apocrinoceras talboti* TEICHERT & GLENISTER, 1954**

**CPC 354: HOLOTYPE**, type species (sectioned incomplete shell) -- TEICHERT & GLENISTER, 1954, pp. 76-77, Pl. 1, figs 7-9. Initially registered as F 17781.

**Locality:** NL20E - type section of the Emanuel Formation in Emanuel Creek, Prices Creek area 65 km south-southeast of Fitzroy Crossing, "Christmas Creek" Station, Kimberley district, Western Australia. 18.6583°S, 125.9083°E. NOON-KANBAH 1:250,000 sheet SE51-12.

**Horizon:** About 1070 ft (326 m) above the exposed base of the Emanuel Formation (in the middle member of Nicoll *et al.*, 1993), Prices Creek Group, Canning Basin.

**Age:** *Prioniodus elegans* - *Bergstroemognathus extensus* Zone, Arenig, Ordovician.

### ***Arkoceras* sp. TEICHERT & GLENISTER, 1954**

**CPC 357:** Figured specimen (fragmentary silicified phragmocone) -- TEICHERT & GLENISTER, 1954, pp. 86-87, Text-fig. 18, Pl. 10, Figs 10-11. Initially registered as F 17742.

**Locality:** NL17 - in the type section of the Emanuel Formation in Emanuel Creek, Prices Creek area 65 km south-southeast of Fitzroy Crossing, "Christmas Creek" Station, Kimberley district, Western Australia. 18.6583°S, 125.9083°E. NOON-KANBAH 1:250,000 sheet SE51-12.

**Horizon:** 355-460 ft (108-140 m) above the exposed base of the Emanuel Formation (in the middle member of Nicoll *et al.*, 1993), Prices Creek Group, Canning Basin.

**Age:** *Prioniodus elegans* - *Bergstroemognathus extensus* Zone, Arenig, Ordovician.

### ***Armenoceras* sp. indet. STAIT & LAURIE, 1985**

**CPC 24719:** Cited specimen (three incomplete large camerae) -- STAIT & LAURIE, 1985, p. 262.

**Locality:** Hy216 - Section line HYC1, on the south limb of the anticline, James Range A, Northern Territory, Australia. HENBURY 1:250,000 sheet SG53-1.

**Horizon:** Stairway Sandstone, Larapinta Group.

**Age:** Late Llanvirn to Llandeilo, Ordovician.

**CPC 24720:** Cited specimen (longitudinally sectioned straight nautiloid) -- STAIT & LAURIE, 1985, p. 262.

**Locality:** NT711 - scree sample at the eastern end of the Johnny Creek Anticline, on its western flank, Northern Territory, Australia. LAKE AMADEUS 1:250,000 sheet SG52-4.

**Horizon and age** as for CPC 24719.

### ***Bassleroceras annulatum* TEICHERT & GLENISTER, 1954**

**CPC 353: HOLOTYPE** (nearly complete shell) -- TEICHERT & GLENISTER, 1954, pp. 74-75, Pl. 1, figs 17-18. Initially registered as F 17770.

**Locality:** NL20E - type section of the Emanuel Formation in Emanuel Creek, Prices Creek area 65 km south-southeast of Fitzroy Crossing, "Christmas Creek" Station, Kimberley district, Western Australia. 18.6583°S, 125.9083°E. NOON-KANBAH 1:250,000 sheet SE51-12.

**Horizon:** About 1070 ft (326 m) above the exposed base of the Emanuel Formation (in the middle member of Nicoll *et al.*, 1993), Prices Creek Group, Canning Basin.

**Age:** *Prioniodus elegans* - *Bergstroemognathus extensus* Zone, Arenig, Ordovician.

### ***Diastoloceras perplexum* TEICHERT & GLENISTER, 1954**

**CPC 345: HOLOTYPE**, type species (incomplete shell plus external mould) -- TEICHERT & GLENISTER, 1954, pp. 45-46, Text-fig. 7, Pl. 1, figs 12-16. Initially registered as F 17761.

**Locality:** NL20E - type section of the Emanuel Formation in Emanuel Creek, Prices Creek area 65 km south-southeast of Fitzroy Crossing, "Christmas Creek" Station, Kimberley district, Western Australia. 18.6583°S, 125.9083°E. NOON-KANBAH 1:250,000 sheet SE51-12.

**Horizon:** About 1070 ft (326 m) above the exposed base of the Emanuel Formation (in the middle member of Nicoll *et al.*, 1993), Prices Creek Group, Canning Basin.

**Age:** *Prioniodus elegans* - *Bergstroemognathus extensus* Zone, Arenig, Ordovician.

## **Discosorida, n. gen. n. sp. STAIT & LAURIE, 1985**

**CPC 24724:** Cited specimen (portion of weathered gyrocone) -- STAIT & LAURIE, 1985, p. 262.

**Locality:** LA46F - low hills forming the core of a syncline on the southern side of George Gill Range southeast of Bagot Spring, Northern Territory, Australia. LAKE AMADEUS 1:250,000 sheet SG52-4.

**Horizon:** Horn Valley Siltstone, Larapinta Group.

**Age:** Late Arenig to Llanvirn, Ordovician.

**CPC 24725:** Cited specimen -- STAIT & LAURIE, 1985, p. 262.

**Locality:** ML21C - in the headwaters of Walker Creek, at the northwestern end of the Gardiner Range, Northern Territory, Australia. MOUNT LIEBIG 1:250,000 sheet SF52-16.

**Horizon and age** as for CPC 24724.

**CPC 24726:** Cited specimen (longitudinally sectioned portion of coiled shell) -- STAIT & LAURIE, 1985, p. 262.

**Locality:** LA46 - as for CPC 24724.

**Horizon and age** as for CPC 24724.

**CPC 24727:** Cited specimen (portion of coiled shell) -- STAIT & LAURIE, 1985, p. 262.

**Locality:** LA51F - in a creek bed near Morris Pass, 19km west-northwest of Carmichael Crag, Northern Territory, Australia. LAKE AMADEUS 1:250,000 sheet SG52-4.

**Horizon and age** as for CPC 24724.

## ***Ectocycloceras inflatum* TEICHERT & GLENISTER, 1954**

**CPC 370: HOLOTYPE** (thin-sectioned incomplete shell) -- TEICHERT & GLENISTER, 1954, pp. 41-42, Pl. 1, figs 5-6.

Initially registered as F 17785.

**Locality:** NL20E - type section of the Emanuel Formation in Emanuel Creek, Prices Creek area 65 km south-southeast of Fitzroy Crossing, "Christmas Creek" Station, Kimberley district, Western Australia. 18.6583°S, 125.9083°E. NOON-KANBAH 1:250,000 sheet SE51-12.

**Horizon:** About 1070 ft (326 m) above the exposed base of the Emanuel Formation (in the middle member of Nicoll *et al.*, 1993), Prices Creek Group, Canning Basin.

**Age:** *Prioniodus elegans* - *Bergstroemognathus extensus* Zone, Arenig, Ordovician.

## ***Eothinoceras maitlandi* TEICHERT & GLENISTER, 1954**

**CPC 335:** Figured Paratype (longitudinally sectioned incomplete phragmocone) -- TEICHERT & GLENISTER, 1954, pp. 49-51, Pl. 3, fig. 13. Initially registered as F 17745.

**Locality:** NL17 - in the type section of the Emanuel Formation in Emanuel Creek, Prices Creek area 65 km south-southeast of Fitzroy Crossing, "Christmas Creek" Station, Kimberley district, Western Australia. 18.6583°S, 125.9083°E. NOON-KANBAH 1:250,000 sheet SE51-12.

**Horizon:** 355-460 ft (108-140 m) above the exposed base of the Emanuel Formation (in the middle member of Nicoll *et al.*, 1993), Prices Creek Group, Canning Basin.

**Age:** *Prioniodus elegans* - *Bergstroemognathus extensus* Zone, Arenig, Ordovician.

**CPC 336:** Figured Paratype (sectioned incomplete phragmocone) -- TEICHERT & GLENISTER, 1954, pp. 49-51, Pl. 3, fig. 10.

**Locality, horizon, and age** as for CPC 335.

**CPC 337:** Figured Paratype (sectioned incomplete shell) -- TEICHERT & GLENISTER, 1954, pp. 49-51, Pl. 3, fig. 12.

Initially registered as F 17743.

**Locality, horizon, and age** as for CPC 335.

**CPC 338A:** Figured specimen (incomplete shell) -- TEICHERT & GLENISTER, 1954, pp. 49-51, Pl. 3, fig. 5. Initially registered as F 17744.

**Locality, horizon, and age** as for CPC 335?

**Remarks:** Teichert & Glenister inadvertently used the same number for two different specimens, one of *Eothinoceras maitlandi*, the other *Loxochanella warburtoni*. The specimen of *E. maitlandi* (of which one of the pieces is labelled NH143!) is referred to as CPC 338A.

### ***Galtoceras kimberleyense* TEICHERT, 1939**

**CPC 116: HOLOTYPE** -- WADE, 1924, p. 44, Pl. III. CHAPMAN, 1924, p. 24. TEICHERT, 1939, pp. 110-111, Pl. I, figs 4-5.

**Locality:** Mt Pierre, West Kimberley district, Western Australia.

**Horizon:** An unspecified formation in the Canning Basin.

**Age:** Famennian, Late Devonian.

**Remarks:** The specimen was listed by Chapman as *Geisonoceras* sp.

### ***Hardmanoceras lobatum* TEICHERT & GLENISTER, 1952**

**CPC 482: HOLOTYPE**, type species (discoid evolute conch) -- TEICHERT & GLENISTER, 1952, pp. 748-749, Pl. 107, figs 8-10. Published under its initial registration number F 17735.

**Locality:** NL20E - about  $\frac{2}{3}$  the way up the type section of the Emanuel Formation in Emanuel Creek, Prices Creek area about 65 km south-southeast of Fitzroy Crossing, "Christmas Creek" Station, Kimberley district, Western Australia. 18.6583°S, 125.9083°E. NOONKANBAH 1:250,000 sheet SE51-12.

**Horizon:** About 1070 ft (326 m) above the exposed base of the Emanuel Formation (in the middle member of Nicoll *et al.*, 1993), Prices Creek Group, Canning Basin.

**Age:** *Prioniodus elegans* - *Bergstroemognathus extensus* Zone, Arenig, Ordovician.

**Remarks:** The old catalogue index card gives the field number as NL20E, but the F collection register gives it as NL7 - see the map in Teichert & Glenister 1954.

**CPC 483: Figured Paratype** -- TEICHERT & GLENISTER, 1952, p p. 748-749, Pl. 107, figs 6-7.

**Locality:** NL20F - about  $\frac{3}{4}$  the way up the type section of the Emanuel Formation in Emanuel Creek, Prices Creek area about 65 km south-southeast of Fitzroy Crossing, "Christmas Creek" Station, Kimberley district, Western Australia. 18.6514°S, 125.9083°E. NOONKANBAH 1:250,000 sheet SE51-12.

**Horizon:** About 1200 ft (365 m) above the exposed base of the Emanuel Formation (in the middle member of Nicoll *et al.*, 1993), Prices Creek Group, Canning Basin.

**Age:** *Prioniodus elegans* - *Bergstroemognathus extensus* Zone, Arenig, Ordovician.

**Remarks:** The old catalogue index card gives the field number as NL20F, but the F collection register gives it as NL7c - see the map in Teichert & Glenister 1954.

### ***Hemichoanella canningi* TEICHERT & GLENISTER, 1954**

**CPC 344: HOLOTYPE**, type species (sectioned incomplete phragmocone) -- TEICHERT & GLENISTER, 1954, p. 47, Text-fig. 8, Pl. 2, fig. 5, Pl. 3, figs 1-4. Initially registered as F 17739.

**Locality:** NH145 - Emanuel Creek; from Text-fig. 1 in Teichert & Glenister, 1.3 km northwest of the type section of the Emanuel Formation, in the Prices Creek area about 65 km south-southeast of Fitzroy Crossing, "Christmas Creek" Station, Kimberley district, Western Australia. 18.6583°S, 125.9083°E. NOONKANBAH 1:250,000 sheet SE51-12.

**Horizon:** Emanuel Formation (in the middle member of Nicoll *et al.*, 1993), Prices Creek Group, Canning Basin.

**Age:** *Prioniodus elegans* - *Bergstroemognathus extensus* Zone, Arenig, Ordovician.

### ***Lebetoceras oepiki* TEICHERT & GLENISTER, 1954**

**CPC 340: HOLOTYPE**, type species (weathered shell, sectioned longitudinally) -- TEICHERT & GLENISTER, 1954, pp. 54-56, Pl. 5, figs 1-2. Initially registered as F 17789

**Locality:** NL20F - about  $\frac{3}{4}$  the way up the type section of the Emanuel Formation in Emanuel Creek, Prices Creek area about 65 km south-southeast of Fitzroy Crossing, "Christmas Creek" Station, Kimberley district, Western Australia. 18.6514°S, 125.9083°E. NOONKANBAH 1:250,000 sheet SE51-12.

**Horizon:** About 1200 ft (365 m) above the exposed base of the Emanuel Formation (in the middle member of Nicoll *et al.*, 1993), Prices Creek Group, Canning Basin.

**Age:** *Prioniodus elegans* - *Bergstroemognathus extensus* Zone, Arenig, Ordovician.

**CPC 341: Figured Paratype**, type species (thin-sectioned incomplete weathered phragmocone) -- TEICHERT & GLENISTER, 1954, pp. 54-56, Pl. 5, figs 3-5. Initially registered as F 17751.

**Locality:** NL17 - in the type section of the Emanuel Formation in Emanuel Creek, Prices Creek area 65 km south-southeast

of Fitzroy Crossing, "Christmas Creek" Station, Kimberley district, Western Australia. 18.6583°S, 125.9083°E. NOONKANBAH 1:250,000 sheet SE51-12.

**Horizon:** 355-460 ft (108-140 m) above the exposed base of the Emanuel Formation (in the middle member of Nicoll *et al.*, 1993), Prices Creek Group, Canning Basin.

**Age:** *Prioniodus elegans* - *Bergstroemognathus extensus* Zone, Arenig, Ordovician.

### ***Loxochoanella warburtoni* TEICHERT & GLENISTER, 1954**

**CPC 338:** Figured Paratype, type species (sectioned incomplete shell) -- TEICHERT & GLENISTER, 1954, pp. 37-40, Pl. 2, fig. 2.

**Locality:** NL20E - about ¾ the way up the type section of the Emanuel Formation in Emanuel Creek, Prices Creek area about 65 km south-southeast of Fitzroy Crossing, "Christmas Creek" Station, Kimberley district, Western Australia. 18.6583°S, 125.9083°E. NOONKANBAH 1:250,000 sheet SE51-12.

**Horizon:** About 1070 ft (326 m) above the exposed base of the Emanuel Formation (in the middle member of Nicoll *et al.*, 1993), Prices Creek Group, Canning Basin.

**Age:** *Prioniodus elegans* - *Bergstroemognathus extensus* Zone, Arenig, Ordovician.

**Remarks:** Teichert & Glenister inadvertently used the same number for two different specimens, one of *Eothinoceras maitlandi*, the other *Loxochoanella warburtoni*. The former specimen is now CPC 338A.

**CPC 339:** Figured Paratype, type species (sectioned incomplete phragmocone) -- TEICHERT & GLENISTER, 1954, pp. 37-40, Pl. 2, fig. 4.

**Locality, horizon, and age** as for CPC 338.

### ***Madiganella tatei* (ETHERIDGE, 1893)**

**CPC 24728:** Cited specimen -- STAIT & LAURIE, 1985, p. 262.

**Locality:** ML132 - near the crest in a strike valley at the eastern end of the Idirriki Range northeast of Haast Bluff, Northern Territory, Australia. MOUNT LIEBIG 1:250,000 sheet SF52-16.

**Horizon:** Horn Valley Siltstone, Larapinta Group.

**Age:** Late Arenig to Llanvirn, Ordovician.

**CPC 24729:** Cited specimen -- STAIT & LAURIE, 1985, p. 262.

**Locality:** NT146 - on the southern side of a narrow strike valley at Stokes Pass, western MacDonnell Ranges, Northern Territory, Australia. HERMANNSBURG 1:250,000 sheet SF53-13.

**Horizon and age** as for CPC 24728.

### ***Notocycloceras yurabiense* TEICHERT & GLENISTER, 1954**

**CPC 350: HOLOTYPE**, type species (thin-sectioned incomplete phragmocone) -- TEICHERT & GLENISTER, 1954, pp. 56-57, Pl. 5, figs 6-7, Pl. 6, fig. 1. Initially registered as F 17776.

**Locality:** NL20E - about ¾ the way up the type section of the Emanuel Formation in Emanuel Creek, Prices Creek area about 65 km south-southeast of Fitzroy Crossing, "Christmas Creek" Station, Kimberley district, Western Australia. 18.6583°S, 125.9083°E. NOONKANBAH 1:250,000 sheet SE51-12.

**Horizon:** About 1070 ft (326 m) above the exposed base of the Emanuel Formation (in the middle member of Nicoll *et al.*, 1993), Prices Creek Group, Canning Basin.

**Age:** *Prioniodus elegans* - *Bergstroemognathus extensus* Zone, Arenig, Ordovician.

### ***Ophidioceras giblini* CHAPMAN, 1934**

**CPC 63: HOLOTYPE** -- CHAPMAN, 1934, pp. 192-195, Pl. X, fig. 7.

**Locality:** Hatton's Corner, above the Yass River west of Yass, New South Wales, Australia. YASS 1:100,000 sheet 8628.

**Horizon:** The precise horizon is not stated, but is probably the Barrandella Shale Member, Silverdale Formation, Lachlan Fold Belt.

**Age:** Gorstian, Ludlow, Late Silurian.

***Orthoceras?* sp. indet. CHAPMAN, 1924**

**CPC 191:** Figured specimen -- CHAPMAN, 1924, p. 7, Plate II, top left.

**Locality:** Wade Collection No. 193: near Mount Pierre, West Kimberleys, Western Australia.

**Horizon:** An unknown formation in the Canning Basin.

**Age:** Devonian to Carboniferous.

***Pycnoceras liratum* TEICHERT & GLENISTER, 1954**

**CPC 358: HOLOTYPE** (sectioned incomplete evolute shell) -- TEICHERT & GLENISTER, 1954, pp. 84-85, Text-fig. 17, Pl. 10, figs 12-15. Initially registered as F 17771.

**Locality:** NL20E - about ¾ the way up the type section of the Emanuel Formation in Emanuel Creek, Prices Creek area about 65 km south-southeast of Fitzroy Crossing, "Christmas Creek" Station, Kimberley district, Western Australia. 18.6583°S, 125.9083°E. NOONKANBAH 1:250,000 sheet SE51-12.

**Horizon:** About 1070 ft (326 m) above the exposed base of the Emanuel Formation (in the middle member of Nicoll *et al.*, 1993), Prices Creek Group, Canning Basin.

**Age:** *Prioniodus elegans* - *Bergstroemognathus extensus* Zone, Arenig, Ordovician.

***Rizoceras* sp. CHAPMAN, 1924**

*See Wadeoceras australe*

The specimen referred to *Rizoceras* by Chapman, 1924 and Wade, 1924, was made the holotype of *Wadeoceras australe* by Teichert, 1939.

***Ventroloboceras furcillatum* TEICHERT & GLENISTER, 1954**

**CPC 356: HOLOTYPE**, type species (thin sectioned incomplete phragmocone) -- TEICHERT & GLENISTER, 1954, p. 58, Pl. 7, figs 1-4. Initially registered as F 17751.

**Locality:** NL20D - about the middle of the type section of the Emanuel Formation in Emanuel Creek, Prices Creek area 65 km south-southeast of Fitzroy Crossing, "Christmas Creek" Station, Kimberley district, Western Australia. 18.6583°S, 125.9083°E. NOONKANBAH 1:250,000 sheet SE51-12.

**Horizon:** Emanuel Formation (in the middle member of Nicoll *et al.*, 1993), Prices Creek Group, Canning Basin.

**Age:** *Prioniodus elegans* - *Bergstroemognathus extensus* Zone, Arenig, Ordovician.

***Wadeoceras australe* TEICHERT, 1939**

*See also Rizoceras* sp.

The specimen referred to *Rizoceras* by Chapman, 1924 and Wade, 1924, was made the holotype of *Wadeoceras australe* by Teichert, 1939.

**CPC 117: HOLOTYPE**, type species -- CHAPMAN, 1924, p. 7. WADE, 1924, p. 42, Pls II-III. TEICHERT, 1939, pp. 111-112, Text-fig. 1, Pl. I, figs 2-3.

**Locality:** Mt Pierre, West Kimberley district, Western Australia.

**Horizon:** An unknown formation in the Canning Basin.

**Age:** Famennian, Late Devonian.

**Subclass Endoceratoidea**

***Allopiloceras calamus* TEICHERT & GLENISTER, 1954**

**CPC 355: HOLOTYPE** (siphuncular fragment) -- TEICHERT & GLENISTER, 1954, pp. 64-65, Pl. 7, figs 8-9.

**Locality:** NL20E - about ¾ the way up the type section of the Emanuel Formation in Emanuel Creek, Prices Creek area about 65 km south-southeast of Fitzroy Crossing, "Christmas Creek" Station, Kimberley district, Western Australia.

18.6583°S, 125.9083°E. NOONKANBAH 1:250,000 sheet SE51-12.

**Horizon:** About 1070 ft (326 m) above the exposed base of the Emanuel Formation (in the middle member of Nicoll *et al.*, 1993), Prices Creek Group, Canning Basin.

**Age:** *Prioniodus elegans* - *Bergstroemognathus extensus* Zone, Arenig, Ordovician.

### ***Campendoceras gracile* TEICHERT & GLENISTER, 1954**

**CPC 371: HOLOTYPE**, type species (incomplete conch) -- TEICHERT & GLENISTER, 1954, p. 71, Pl. 1, figs 10-11. Initially registered as F 17768.

**Locality:** NL20E - about ¾ the way up the type section of the Emanuel Formation in Emanuel Creek, Prices Creek area about 65 km south-southeast of Fitzroy Crossing, "Christmas Creek" Station, Kimberley district, Western Australia. 18.6583°S, 125.9083°E. NOONKANBAH 1:250,000 sheet SE51-12.

**Horizon:** About 1070 ft (326 m) above the exposed base of the Emanuel Formation (in the middle member of Nicoll *et al.*, 1993), Prices Creek Group, Canning Basin.

**Age:** *Prioniodus elegans* - *Bergstroemognathus extensus* Zone, Arenig, Ordovician.

### ***Cyrtendoceras carnegiei* TEICHERT & GLENISTER, 1952**

**CPC 351: HOLOTYPE** (incomplete phragmocone) -- TEICHERT & GLENISTER, 1954, pp. 67-69, Text-fig. 12, Pl. 8, figs 7-9. Initially registered as F 17739.

**Locality:** NH145 - Emanuel Creek; from Text-fig. 1 in Teichert & Glenister, 1.3 km northwest of the type section of the Emanuel Formation, in the Prices Creek area about 65 km south-southeast of Fitzroy Crossing, "Christmas Creek" Station, Kimberley district, Western Australia. 18.6583°S, 125.9083°E. NOONKANBAH 1:250,000 sheet SE51-12.

**Horizon:** Emanuel Formation (in the middle member of Nicoll *et al.*, 1993), Prices Creek Group, Canning Basin.

**Age:** *Prioniodus elegans* - *Bergstroemognathus extensus* Zone, Arenig, Ordovician.

**CPC 352: Figured Paratype** (thin sectioned weathered fragment of conch) -- TEICHERT & GLENISTER, 1954, pp. 67-69, Pl. 8, fig. 6. Initially registered as F 17737.

**Locality, horizon, and age** as for CPC 351.

### **Endoceratidae, gen. et sp. ind. TEICHERT & GLENISTER, 1954**

**CPC 342: Figured specimen** (siphuncular fragment) -- TEICHERT & GLENISTER, 1954, pp. 71-73, Pl. 8, figs 2-3.

**Locality:** NH142 - north of fault, in a small creek between Gap Creek and the head of Emanuel Creek, in the Prices Creek area about 65 km south-southeast of Fitzroy Crossing, "Christmas Creek" Station, Kimberley district, Western Australia. 18.6333°S, 125.9167°E. NOONKANBAH 1:250,000 sheet SE51-12.

**Horizon:** Gap Creek Formation (in the lower member of Nicoll *et al.*, 1993), Prices Creek Group, Canning Basin.

**Age:** *Oepikodus communis* Zone (or early *Jumodontus gananda* Zone?), Arenig, Early Ordovician.

**CPC 343: Figured specimen** (fragments of conch) -- TEICHERT & GLENISTER, 1954, pp. 71-73, Pl. 8, figs 4-5.

**Locality:** NH141 - as for NH142 (see CPC 342).

**Horizon and age** as for CPC 342.

### ***Lobendoceras emanuelense* TEICHERT & GLENISTER, 1954.**

**CPC 346: HOLOTYPE**, type species (incomplete phragmocone) -- TEICHERT & GLENISTER, 1954, pp. 69-70, Pl. 9, figs 1-4. Initially registered as F 17774.

**Locality:** NL20E - about ¾ the way up the type section of the Emanuel Formation in Emanuel Creek, Prices Creek area about 65 km south-southeast of Fitzroy Crossing, "Christmas Creek" Station, Kimberley district, Western Australia. 18.6583°S, 125.9083°E. NOONKANBAH 1:250,000 sheet SE51-12.

**Horizon:** About 1070 ft (326 m) above the exposed base of the Emanuel Formation (in the middle member of Nicoll *et al.*, 1993), Prices Creek Group, Canning Basin.

**Age:** *Prioniodus elegans* - *Bergstroemognathus extensus* Zone, Arenig, Ordovician.

**CPC 347:** Figured Paratype (thin-sectioned incomplete phragmocone) -- TEICHERT & GLENISTER, 1954, pp. 69-70, Pl. 9, figs 5-7. Initially registered as F 17766.

**Locality, horizon, and age** as for CPC 346.

**CPC 24721:** Cited specimen -- STAIT & LAURIE, 1985, p. 262.

**Locality:** ML21C - in the headwaters of Walker Creek, at the northwestern end of the Gardiner Range, Northern Territory, Australia. MOUNT LIEBIG 1:250,000 sheet SF52-16.

**Horizon:** Horn Valley Siltstone, Larapinta Group .

**Age:** Late Arenig to Llanvirn, Ordovician.

**CPC 24722:** Cited specimen -- STAIT & LAURIE, 1985, p. 262.

**Locality:** NT185 - in the vicinity of Pattalindama Gap, south of Areyonga Native Settlement, Northern Territory, Australia. HENBURY 1:250,000 sheet SG53-1.

**Horizon and age** as for CPC 24721.

**CPC 24723:** Cited specimen -- STAIT & LAURIE, 1985, p. 262.

**Locality:** Hen3 - Househill Range, 2 miles ( 3.2 km) east of "Tempe Downs" homestead, Northern Territory, Australia. HENBURY 1:250,000 sheet SG53-1.

**Horizon and age** as for CPC 24721.

### ***Proterocameroceus contrarium* TEICHERT & GLENISTER, 1954**

**CPC 366: HOLOTYPE** (sectioned incomplete internal mould) -- TEICHERT & GLENISTER, 1954, pp. 59-62, Text-fig. 11, Pl. 4, figs 1, 3-4. Initially registered as F 17778.

**Locality:** NL20E - about ¾ the way up the type section of the Emanuel Formation in Emanuel Creek, Prices Creek area about 65 km south-southeast of Fitzroy Crossing, "Christmas Creek" Station, Kimberley district, Western Australia. 18.6583°S, 125.9083°E. NOONKANBAH 1:250,000 sheet SE51-12.

**Horizon:** About 1070 ft (326 m) above the exposed base of the Emanuel Formation (in the middle member of Nicoll *et al.*, 1993), Prices Creek Group, Canning Basin.

**Age:** *Prioniodus elegans* - *Bergstroemognathus extensus* Zone, Arenig, Ordovician.

**CPC 367:** Figured Paratype (sectioned fragment) -- TEICHERT & GLENISTER, 1954, pp. 59-62, Text-fig. 10, Pl. 4, fig. 2. Initially registered as F 17763.

**Locality, horizon, and age** as for CPC 366.

**CPC 368:** Paratype (fragments of large shell) -- TEICHERT & GLENISTER, 1954, pp. 59-62. Initially registered as F 17778.

**Locality, horizon, and age** as for CPC 366.

**CPC 369:** Paratype (slightly crushed phragmocone) -- TEICHERT & GLENISTER, 1954, pp. 59-62.

**Locality, horizon, and age** as for CPC 366.

**Remarks:** The specimen has been missing since 1967.

### ***Thylacoceras kimberleyense* TEICHERT & GLENISTER, 1952**

**CPC 348:** Figured specimen (incomplete shell) -- TEICHERT & GLENISTER, 1954, pp. 52-53, Pl. 6, figs 3-5. Initially registered as F 17753.

**Locality:** NL20D - about the middle of the type section of the Emanuel Formation in Emanuel Creek, Prices Creek area about 65 km south-southeast of Fitzroy Crossing, "Christmas Creek" Station, Kimberley district, Western Australia. 18.6583°S, 125.9083°E. NOONKANBAH 1:250,000 sheet SE51-12.

**Horizon:** Emanuel Formation (in the middle member of Nicoll *et al.*, 1993), Prices Creek Group, Canning Basin.

**Age:** *Prioniodus elegans* - *Bergstroemognathus extensus* Zone, Arenig, Ordovician.

**CPC 349:** Figured specimen (thin section of an incomplete shell) -- TEICHERT & GLENISTER, 1954, pp. 52-53, Pl. 6, fig. 2.

**Locality:** NL20E - about ¾ the way up the type section of the Emanuel Formation in Emanuel Creek, Prices Creek area about 65 km south-southeast of Fitzroy Crossing, "Christmas Creek" Station, Kimberley district, Western Australia. 18.6583°S, 125.9083°E. NOONKANBAH 1:250,000 sheet SE51-12.

**Horizon:** About 1070 ft (326 m) above the exposed base of the Emanuel Formation (in the middle member of Nicoll *et al.*, 1993), Prices Creek Group, Canning Basin.

**Age:** *Prioniodus elegans* - *Bergstroemognathus extensus* Zone, Arenig, Ordovician.

**CPC 481: HOLOTYPE**, type species (weathered phragmocone) -- TEICHERT & GLENISTER, 1952, pp. 738-739, Pl. 104, figs 1-2. Published under the initial registration number, F 17734.

**Locality, horizon, and age** as for CPC 349.

**Remarks:** An old registration index card gives the field number as NL20E, but the F collection register gives it as NL7. See the map in Teichert & Glenister, 1954.

## Subclass Ammonoidea

### *Aganides?* sp. indet. CHAPMAN, 1924

*This is probably a synonym of Dimeroceras clarkei DELEPINE, 1935 (see Glenister et al., 1993).*

**CPC 317:** Figured specimen -- CHAPMAN, 1924, Pl. III, top left corner. Initially registered as F 9834.

**Locality:** Near Mount Pierre, West Kimberleys, Western Australia.

**Horizon:** An unknown formation in the Canning Basin.

**Age:** Devonian.

**CPC 30722:** Figured specimen -- CHAPMAN, 1924, Pl. II, lower right. Initially registered as F 9811.

**CPC 30723:** Figured specimen -- CHAPMAN, 1924, Pl. III, right of centre. Initially registered as F 9815.

**Locality, horizon, and age** as for CPC 317.

**CPC 30724:** Figured specimen (incomplete internal mould) -- CHAPMAN, 1924, Pl. III, right of top centre.

**Locality, horizon, and age** as for CPC 317.

**Remarks:** Could be part of collection F 9828, from the same general locality as F 9817.

### *Baymaniceras australe* (TEICHERT, 1942)

#### *See also Propinacoceras australe*

Originally described as *Propinacoceras*, and transferred without significant comment to *Baymaniceras* by Glenister in Cockbain, 1980, p. 102.

**CPC 1763:** Figured specimen -- GLENISTER & FURNISH, 1961, pp. 691-694, Text-fig. 3A. GLENISTER *et al.*, 1993, microfiche 7, Ammonoids pp. 22-3, Text-fig. 12B.

**Locality:** CC86 - 1.5 miles (2.4 km) at 52° from Curdamuda Well, 2.6 miles (4.2 km) at 278° from Cundlego Well, "Wandagee" Station, Western Australia. 23.735°S, 114.4136°E. WINNING POOL 1:250,000 sheet SF50-13.

**Horizon:** Wandagee Formation, Byro Group, Carnarvon Basin.

**Age:** Baigendzhinian Substage, Artinskian, Early Permian.

**CPC 1764:** Figured specimen (incomplete internal and external moulds) -- GLENISTER & FURNISH, 1961, pp. 691-694, Pl. 78, figs 11-13. GLENISTER *et al.*, 1993, microfiche 7, Ammonoids pp. 22-3, Pl. 50, figs 15-17.

**Locality:** M17 - 2 miles (3.2 km) at 151° from Donnelly's Well, Western Australia. 24.0842°S, 115.0933°E. KENNEDY RANGE 1:250,000 sheet SG50-1.

**Horizon:** 136 ft (41.5 m) below the top of the Bulgadoo Shale, Byro Group, Carnarvon Basin.

**Age:** Baigendzhinian Substage, Artinskian, Early Permian.

**CPC 1905:** Cited specimen (as F 21628) -- GLENISTER & FURNISH, 1961, pp. 691-694.

**Locality:** ML82 - cited variously as 1: measured section on the north bank of the Minilya River, in the Minilya Syncline about 1½ miles (2.4 km) southwest of Coolkilya Pool (23.7333°S, 114.4167°E), and 2: 1½ miles at 52° from Curdamurda Well, 2.6 miles (4.2 km) at 278° from Cundlego Well, "Wandagee" Station (23.7350°S, 114.4136°E), Western Australia. MINILYA 1:250,000 sheet SG49-16.

**Horizon:** 190 feet (58 m) above the base of the Wandagee Formation, Byro Group, Carnarvon Basin.

**Age:** Baigendzhinian Substage, Artinskian, Early Permian.

**Remarks:** Age revised after Archbold & Dickins, 1991

**CPC 1906-1909:** Cited specimens (as F 21629) -- GLENISTER & FURNISH, 1961, pp. 691-694.

**Locality, horizon, and age** as for CPC 1764.

### ***Baymaniceras* n. sp. (GLENISTER & FURNISH, 1961)**

*See also Propinacoceras* n. sp.

Originally referred to *Propinacoceras*, and transferred without significant comment to *Baymaniceras* by Glenister in Cockbain, 1980, p. 102.

**CPC 1765:** Figured specimen -- GLENISTER & FURNISH, 1961, pp. 694-695, Text-fig. 4, Pl. 78, figs 14-15. GLENISTER *et al.*, 1993, microfiche 7, Ammonoids p. 23, Text-fig. 12A, Pl. 50, figs 18-19.

**Locality:** ML12 - 4.95 miles (8 km) at 119° from Donnelly's Well, 4.7 miles (7.6 km) at 236° from "Moogooree" homestead, Western Australia. 24.1017°S, 115.1344°E. KENNEDY RANGE 1:250,000 sheet SG50-1.

**Horizon:** 485 ft (148 m) above the base of the Coyrie Formation, Byro Group, Carnarvon Basin.

**Age:** Baigendzhinian Substage, Artinskian, Early Permian.

**CPC 1910:** Two cited specimens -- GLENISTER & FURNISH, 1961, pp. 694-695.

**Locality, horizon, and age** as for CPC 1765.

**Remarks:** Cited under the initial registration number F 21627.

### ***Beloceras sagittarium* (G. & F. SANDBERGER, 1851)**

**CPC 1746:** Figured specimen -- GLENISTER, 1958, pp. 85-89, Text-fig. 15D, Pl. 14, figs 6-8.

**Locality:** RS190 - at the southern end of Bugle Gap, 3.25 miles (5.2 km) at 61° from Pinnacle Spring, Kimberley district, Western Australia. 18.7417°S, 126.0833°E. MOUNT RAMSAY 1:250,000 sheet SE52-9.

**Horizon:** Virgin Hills Formation, Canning Basin.

**Age:** *Manticoceras* Zone, Frasnian, Late Devonian.

**CPC 1747:** Figured specimen -- GLENISTER, 1958, pp. 85-89, Pl. 13, figs 1, 3.

**Locality, horizon, and age** as for CPC 1746.

**CPC 1748:** Figured specimen -- GLENISTER, 1958, pp. 85-89, Text-fig. 15A, Pl. 14, figs 4-5.

**Locality, horizon, and age** as for CPC 1746.

**CPC 1749:** Figured specimen -- GLENISTER, 1958, pp. 85-89, Text-fig. 13A.

**Locality, horizon, and age** as for CPC 1746.

**CPC 1750:** Figured specimen -- GLENISTER, 1958, pp. 85-89, Text-fig. 14, Pl. 13, fig. 2.

**Locality, horizon, and age** as for CPC 1746.

**CPC 1751:** Figured specimen -- GLENISTER, 1958, pp. 85-89, Text-fig. 15B, Pl. 14, figs 1-3.

**Locality, horizon, and age** as for CPC 1746.

**CPC 1752:** Figured specimen -- GLENISTER, 1958, pp. 85-89, Pl. 10, fig. 7.

**Locality:** KDu479 - near Horse Spring, Horse Spring Range, Kimberley district, Western Australia. 18.200°S, 126.033°E. MOUNT RAMSAY 1:250,000 sheet SE52-9.

**Horizon:** 4-6 ft (1.2-1.8 m) above massive limestone, 'Fossil Downs Formation', now Virgin Hills Formation, Canning Basin.

**Age:** *Manticoceras* Zone, Frasnian, Late Devonian.

**CPC 1759:** Figured specimen -- GLENISTER, 1958, pp. 85-89, Pl. 5, fig. 12.

**Locality, horizon, and age** as for CPC 1746.

**CPC 1761:** Figured specimen -- GLENISTER, 1958, pp. 85-89, Text-fig. 15C.

**Locality, horizon, and age** as for CPC 1746.

***Cheiloceras (Cheiloceras) sacculus* (SANDBERGER & SANDBERGER, 1851)**

**CPC 15724:** Figured specimen -- PETERSEN, 1975, p. 28, Pl. 2, figs 7-8.

**Locality:** K259 - basal 8.2 m of section DP4, on the southern flank of the Virgin Hills, 1.6 km at 55° from Virgin Creek Bore, Kimberley district, Western Australia. 18.526°S, 125.866°E. Grid reference approximately ZV 264920, BRUTEN 1:100,000 sheet 4060; NOONKANBAH 1:250,000 sheet SE51-12.

**Horizon:** Virgin Hills Formation, Canning Basin, Lennard Shelf.

**Age:** *Palmatopelis crepida* to lower *P. marginifera* Zone, Famennian, Late Devonian.

***Cyclolobus persulcatus* ROTHPLETZ, 1892**

**CPC 25340:** Figured specimen -- GLENISTER, BAKER, FURNISH & DICKINS, 1990, pp. 400-401, Figs 1.1, 1.3.

GLENISTER, BAKER, FURNISH & THOMAS, 1990, Figs 2.13, 2.15. GLENISTER *et al.*, 1993, microfiche 6, Ammonoids pp. 5-6, Text-fig. 9C, Pl. 51, figs 14-15.

**Locality:** N1242 - at the top of the exposure in the Kirkby Range Syncline, Kimberley district, Western Australia. 19.0933°S, 125.1625°E. CROSSLAND 1:250,000 sheet SE51-16.

**Horizon:** Upper Cherrabun Member, Hardman Formation, Liveringa Group, Canning Basin.

**Age:** Tatarian, Upper Permian.

**Remarks:** In Glenister, Baker, Furnish & Thomas, 1990, cited as BMR N1242, and the age is given as post-Guadalupian Dzhulfian (i.e. middle Tatarian)

***Cyrtoclymenia* sp. cf. *stenomphala* PETTER, 1960**

**CPC 15734:** Figured specimen -- PETERSEN, 1975, Text-fig. 27C, Pl. 4, fig. 3.

**Locality:** K319 - measured section DF3, level A1, on the southeast side of a low rise about 800 m east of the track north from the Hull Range to Saddlers Yard, about 2 km south of its crossing of Middle Creek, southwest of the Baramundi Range, Kimberley district, Western Australia. 18.0835°S, 126.0801°E. Grid reference AE 909982, ELMA 1:100,000 sheet 4161; MOUNT RAMSAY 1:250,000 sheet SE 52-9.

**Horizon:** Piker Hills Formation, Canning Basin (cited as Piker Hills Formation on pp. 48-53, Fairfield Beds in the caption to Pl. 4).

**Age:** Middle *Palmatolepis trachytera* to middle *P. perlobata postsa* Zone, Famennian, Late Devonian.

***Daubichites goochi* (TEICHERT, 1942)**

*See also Pseudogastrioceras goochi*

Originally described as *Pseudogastrioceras*, and transferred to *Daubichites* by Glenister in Cockbain, 1980, p. 103, following work by Nassichuk.

**CPC 1771:** Figured specimen -- GLENISTER & FURNISH, 1961, pp. 719-722, Text-fig. 14B, Pl. 85, figs 5-6. GLENISTER *et al.*, 1993, microfiche 7, Ammonoids pp. 17-18, Pl. 55, figs 1-2.

**Locality:** KLA7 - Dutches Ridge, about 2 miles (3.2 km) south of Mount Nichol, Kimberley district, Western Australia. 18.144°S, 124.507°E. NOONKANBAH 1:250,000 sheet SE51-12.

**Horizon:** 52 ft (16 m) above the base of the Lightjack Formation, Liveringa Group, Canning Basin.

**Age:** Kungurian, Early Permian.

**CPC 1772:** Figured specimen -- GLENISTER & FURNISH, 1961, pp. 719-722, Text-fig. 14A, Pl. 84, figs 1-2. GLENISTER *et al.*, 1993, microfiche 7, ammonoids pp. 17-18, Pl. 55, figs 8-9.

**Locality:** KLA7 - as for CPC 1771.

**Horizon and age** as for CPC 1771, except 57 ft (17.4 m) above formation base.

### ***Epitornoceras peracutum* (HALL, 1876)**

**CPC 15723:** Figured specimen -- PETERSEN, 1975, pp. 18-19, Text-fig. 12C.

**Locality:** K178 - measured section DP2, level D2: in a north-flowing tributary of Mount Pierre Creek 5 km northeast of Casey Falls (Kellys Pass), Kimberley district, Western Australia. 18.7057°S, 126.1169°E. Grid reference AE 959293, BOHEMIA 1:100,000 sheet 4160; MOUNT RAMSAY 1:250,000 sheet SE52-9.

**Horizon:** Virgin Hills Formation (122 m below the Bugle Gap Limestone), Lennard Shelf, Canning Basin.

**Age:** *Palmatolepis crepida* to lower *P. marginifera* Zone, Famennian, Late Devonian.

### ***Gonioclymenia?* sp. indet. CHAPMAN, 1924**

*This is probably a junior synonym of Pseudoclymenia australis DELEPINE, 1935 (see Glenister et al., 1993).*

**CPC 313:** Figured specimen -- CHAPMAN, 1924, Pl. III, lower centre. Initially registered as F 2344.

**Locality:** Near Mount Pierre, West Kimberleys, Western Australia.

**Horizon:** An unknown formation in the Canning Basin.

**Age:** Devonian.

**CPC 314:** Figured specimen -- CHAPMAN, 1924, Pl. III, top right corner. Initially registered as F 2344.

**Locality, horizon, and age** as for CPC 313.

**CPC 315:** Figured specimen -- CHAPMAN, 1924, Pl. III, bottom right corner.

**Locality, horizon, and age** as for CPC 313.

**CPC 316:** Figured specimen -- CHAPMAN, 1924, Pl. III, bottom left corner.

**Locality, horizon, and age** as for CPC 313.

### ***Manticoceras cinctum* GLENISTER, 1958**

**CPC 1736: HOLOTYPE** -- GLENISTER, 1958, pp. 75-76, Text-figs 7A-D, Pl. 10, figs 1-3.

**Locality:** RS190 - at the southern end of Bugle Gap, 3.25 miles (5.2 km) at 61° from Pinnacle Spring, Kimberley district, Western Australia. 18.7417°S, 126.0833°E. MOUNT RAMSAY 1:250,000 sheet SE52-9.

**Horizon:** Virgin Hills Formation, Canning Basin.

**Age:** *Manticoceras* Zone, Frasnian, Late Devonian.

### ***Manticoceras guppyi* GLENISTER, 1958**

**CPC 1729: HOLOTYPE** -- GLENISTER, 1958, pp. 74-75, Text-fig. 6C, Pl. 7, fig. 1.

**Locality:** RS178 - near locality RS190, at the southern end of Bugle Gap, 3.25 miles (5.2 km) at 61° from Pinnacle Spring, Kimberley district, Western Australia. 18.7417°S, 126.0833°E. MOUNT RAMSAY 1:250,000 sheet SE52-9.

**Horizon:** Virgin Hills Formation, Canning Basin.

**Age:** *Manticoceras* Zone, Frasnian, Late Devonian.

**CPC 1730:** Figured Paratype -- GLENISTER, 1958, pp. 74-75, Text-fig. 5A.

**Locality:** RS190C - at the southern end of Bugle Gap, 3.25 miles (5.2 km) at 61° from Pinnacle Spring, Kimberley district, Western Australia. 18.7417°S, 126.0833°E. MOUNT RAMSAY 1:250,000 sheet SE52-9.

**Horizon and age** as for CPC 1729.

**CPC 1731:** Figured Paratype -- GLENISTER, 1958, pp. 74-75, Text-fig. 6B.

**Locality:** KDup126 - measured section DP3, approximately 4 miles (6.4 km) southwest of the ruined "Old Bohemia" homestead, Kimberley district, Western Australia. 18.7°S, 126.1°E. MOUNT RAMSAY 1:250,000 sheet SE52-9.

**Horizon:** 187-213 ft (57-65 m) above the base of the Gogo Formation, Canning Basin.

**Age:** *Manticoceras* Zone, Frasnian, Late Devonian.

**Remarks:** The locality data were not published, but an old locality index card gives air-photo coordinates which from Strusz, 1992, corresponds to measured section DP3, which includes KDup126.

**CPC 1732:** Figured Paratype -- GLENISTER, 1958, pp. 74-75, Pl. 8, figs 3-4.

**Locality:** RS190 - as for CPC 1730.

**Horizon and age** as for CPC 1729.

**CPC 1733:** Figured Paratype -- GLENISTER, 1958, pp. 74-75, Pl. 10, fig. 4.

**Locality, horizon, and age** as for CPC 1732.

**CPC 1734:** Figured Paratype -- GLENISTER, 1958, pp. 74-75, Pl. 10, fig. 5.

**Locality, horizon, and age** as for CPC 1732.

**CPC 1735:** Figured Paratype -- GLENISTER, 1958, pp. 74-75, Text-fig. 6D.

**Locality:** RS190D - as for CPC 1730.

**Horizon and age** as for CPC 1729.

**CPC 1760:** Figured Paratype -- GLENISTER, 1958, Text-fig. 6A.

**Locality, horizon, and age** as for CPC 1731.

### ***Manticoceras lindneri* GLENISTER, 1958**

*See Sphaeromanticoceras lindneri*

Becker, House & Kirchgasser, p. 299 in Hailwood & Kidd, 1993, have transferred *Manticoceras lindneri* to *Sphaeromanticoceras*.

### ***Mesobeloceras thomasi* GLENISTER, 1958**

**CPC 1742:** HOLOTYPE, type species -- GLENISTER, 1958, pp. 83-84, Text-fig. 12B, Pl. 8, fig. 2.

**Locality:** KDu479 - near Horse Spring, Horse Spring Range, Kimberley district, Western Australia. 18.200°S, 126.033°E. MOUNT RAMSAY 1:250,000 sheet SE52.9.

**Horizon:** 4-6 ft (1.2-1.8 m) above massive limestone, 'Fossil Downs Formation', now Virgin Hills Formation, Canning Basin.

**Age:** *Manticoceras* Zone, Frasnian, Late Devonian.

**CPC 1743:** Figured Paratype, type species -- GLENISTER, 1958, pp. 83-84, Text-fig. 12B.

**Locality, horizon, and age** as for CPC 1742.

**CPC 1744:** Paratype, type species -- GLENISTER, 1958, pp. 83-84.

**Locality, horizon, and age** as for CPC 1742.

**CPC 1745:** Figured Paratype, type species -- GLENISTER, 1958, pp. 83-84, Text-fig. 12A, Pl. 10, fig. 6.

**Locality, horizon, and age** as for CPC 1742.

### ***Metalegoceras australe* (SMITH, 1927)**

*See also Metalegoceras clarkei*

Glenister *et al.*, 1973, p. 1039, placed *Metalegoceras clarkei* in synonymy with *M. australe*.

**CPC 1767:** Figured specimen -- GLENISTER & FURNISH, 1961, pp. 707-709, Pl. 80, fig. 4. GLENISTER *et al.*, 1993, microfiche 7, Ammonoids pp. 9-10, Pl. 53, fig. 11.

**Locality:** KNuA1 - 1.6 miles (2.6 km) southwest of "Paradise" homestead, Nura Nura Ridge area, Kimberley district, Western Australia. 18.0417°S, 124.5167°E. NOONKANBAH 1:250,000 sheet SE51-12.

**Horizon:** Nura Nura Member, Poole Sandstone, Canning Basin.

**Age:** Sterlitamakian Substage, Late Sakmarian, Early Permian.

**CPC 1768:** Figured specimen -- GLENISTER & FURNISH, 1961, pp. 707-709, Pl. 80, fig. 5. GLENISTER *et al.*, microfiche 7, Ammonoids pp. 9-10, Pl. 53, fig. 10.

**Locality, horizon, and age** as for CPC 1767.

**CPC 1911-1920:** Cited specimens (as F 21624) -- GLENISTER & FURNISH, 1961, pp. 707-709.

**Locality, horizon, and age** as for CPC 1767.

**CPC 1921-1924:** Cited specimens (as F 21625) -- GLENISTER & FURNISH, 1961, pp. 707-709.

**Locality:** Nura Nura Ridge southwest of "Paradise" homestead, Kimberley district, Western Australia. 18.0417°S, 124.5167°E. NOONKANBAH 1:250,000 sheet SE51-12.

**Horizon and age** as for CPC 1767.

### ***Metalegoceras clarkei* MILLER, 1936**

*See Metalegoceras australe*

Glenister *et al.*, 1973, p. 1039, placed *Metalegoceras clarkei* in synonymy with *M. australe*.

### ***Metalegoceras striatum* TEICHERT, 1942**

**CPC 1769:** Figured topotype (incomplete phragmocone) -- GLENISTER & FURNISH, 1961, pp. 706-707, Text-fig. 8c, Pl. 79, figs 8-9. GLENISTER *et al.*, 1993, Text-fig. 11B, Pl. 53, figs 3-4.

**Locality:** KNUA1 - 1.6 miles (2.6 km) southwest of "Paradise" homestead, Nura Nura Ridge area, Kimberley district, Western Australia. 18.0417°S, 124.5167°E. NOONKANBAH 1:250,000 sheet SE51-12.

**Horizon:** Nura Nura Member, Poole Sandstone, Canning Basin.

**Age:** Sterlitamakian Substage, Late Sakmarian, Early Permian.

### ***Metalegoceras* n. sp. GLENISTER & FURNISH, 1961**

**CPC 1770:** Figured specimen -- GLENISTER & FURNISH, 1961, pp. 709-710, Text-fig. 9, Pl. 83, fig. 9. GLENISTER *et al.*, 1993, microfiche 7, Ammonoids p. 11, Text-fig. 10C, Pl. 54, fig. 11.

**Locality:** G172 - 3.6 miles (5.8 km) at 112° from Mead's Bore on "Lyons River" Station, about 8 miles (13 km) at 344° from the homestead, Western Australia. 24.5231°S, 115.3056°E. KENNEDY RANGE 1:250,000 sheet SG50-1.

**Horizon:** Near the base of the Callytharra Formation, Carnarvon Basin.

**Age:** Sterlitamakian Substage, Late Sakmarian, Early Permian.

### ***Neocrinites fredericki* (EMEL'YANTSEV, 1929)**

**CPC 365:** Figured specimen (incomplete external mould) -- ARMSTRONG, DEAR & RUNNEGAR, 1967, pp. 94-95, Pl. 6, fig. 13.

**Locality:** 2.5 miles (4 km) east of the Nebo - Collinsville road crossing of the Bowen River, Queensland, Australia. BOWEN 1:250,000 sheet SF55-3.

**Horizon:** Gebbie Subgroup, Back Creek Group, Bowen Basin.

**Age:** Late Aktastinian to early Baigendzhinian Substage, Artinskian, Early Permian.

### ***Neocrinites* sp. GLENISTER & FURNISH, 1961**

**CPC 1776:** Figured specimen (worn phragmocone) -- GLENISTER & FURNISH, 1961, pp. 729-731, Text-fig. 16B, Pl. 86, figs 4-5. GLENISTER *et al.*, 1993, microfiche 6, Ammonoids pp. 3-4, Text-fig. 8B, Pl. 54, figs 1-2.

**Locality:** ML1 - 2,000 ft (610 m) north of "Mt Sandiman" Woolshed, Western Australia. 24.3894°S, 115.2789°E. KENNEDY RANGE 1:250,000 sheet SG-50-1.

**Horizon:** Coyrie Formation, Byro Group, Carnarvon Basin.

**Age:** Baigendzhinian Substage, Artinskian, Early Permian.

**CPC 1777:** Figured specimen (small fragment of outer whorl of phragmocone) -- GLENISTER & FURNISH, 1961, pp. 729-731, Pl. 83, figs 7-8. GLENISTER *et al.*, 1993, microfiche 6, Ammonoids pp. 3-4, Pl. 50, figs 8-9.

**Locality:** ML12 - 4.95 miles (8 km) at 119° from Donnelly's Well, 4.7 miles (7.6 km) at 236° from "Moogooree" homestead, Western Australia. 24.1017°S, 115.1344°E. KENNEDY RANGE 1:250,000 sheet SG50-1.

**Horizon:** 485 ft (148 m) above the base of the Coyrie Formation, Byro Group, Carnarvon Basin.

**Age:** Baigendzhinian Substage, Artinskian, Early Permian.

***Neomanticoceras erraticum* GLENISTER, 1958**

**CPC 1741: HOLOTYPE** -- GLENISTER, 1958, pp. 81-82, Text-figs 10A, 11, Pl. 11, figs 6-9.

**Locality:** RS178 - near locality RS190, at the southern end of Bugle Gap, 3.25 miles (5.2 km) at 61° from Pinnacle Spring, Kimberley district, Western Australia. 18.7417°S, 126.0833°E. MOUNT RAMSAY 1:250,000 sheet SE52-9.

**Horizon:** Virgin Hills Formation, Canning Basin.

**Age:** *Manticoceras* Zone, Frasnian, Late Devonian.

**Remarks:** In the illustration captions the number has been misprinted as CPC 1714.

***Paratornoceras lentiforme* (SANDBERGER, 1857)**

**CPC 15725: Figured specimen** -- PETERSEN, 1975, pp. 33-37, Pl. 3, figs 5-6.

**Locality:** K177 - 7.24 km at 237° from "Old Bohemia" homestead, in the upper reaches of a tributary to Mount Pierre Creek, southeast of the Teichert Hills, about 4.5 km north-northeast of Casey Falls, Kimberley district, Western Australia. 18.6995°S, 126.0998°E. Grid reference AE 941299, BOHEMIA 1:100,000 sheet 4160; MOUNT RAMSAY 1:250,000 sheet SE52-9.

**Horizon:** Middle Virgin Hills Formation, Lennard Shelf, Canning Basin.

**Age:** *Palmatolepis rhomboidea* to lower *P. marginifera* Zone, Famennian, Late Devonian.

**CPC 15726: Figured specimen** -- PETERSEN, 1975, pp. 33-37, Text-fig. 18C, Pl. 3, figs 1-2.

**Locality, horizon, and age** as for CPC 15725.

**CPC 15727: Figured specimen** -- PETERSEN, 1975, pp. 33-37, Text-fig. 20A, Pl. 3, figs 3-4.

**Locality, horizon, and age** as for CPC 15725.

**CPC 15728: Figured specimen** -- PETERSEN, 1975, pp. 33-37, Text-fig. 20B, Pl. 4, figs 6-8.

**Locality:** K259 - basal 8.2 m of section DP4, on the southern flank of the Virgin Hills, 1.6 km at 55° from Virgin Creek Bore, Kimberley district, Western Australia. 18.526°S, 125.866°E. Grid reference approximately ZV 26492, BRUTEN 1:100,000 sheet 4060; NOONKANBAH 1:250,000 sheet SE51-12.

**Horizon:** Virgin Hills Formation, Canning Basin, Lennard Shelf.

**Age:** *Palmatopelis crepida* to lower *P. marginifera* Zone, Famennian, Late Devonian.

**CPC 15729: Figured specimen** -- PETERSEN, 1975, pp. 33-37, Text-fig. 20C.

**Locality, horizon, and age** as for CPC 15725.

**CPC 15730: Figured specimen** -- PETERSEN, 1975, pp. 33-37, Text-fig. 19.

**Locality:** RS186 - southeastern Bugle Gap, west-southwest of Casey Falls, south of Millard Creek, about 2 km south of Cave Spring, Kimberley district, Western Australia. 18.754°S, 126.066°E. Grid reference approximately AE 906253, BOHEMIA 1:100,000 sheet 4160; MOUNT RAMSAY 1:250,000 sheet SE52-9.

**Horizon and age** as for CPC 15725.

***Ponticeras discoidale* GLENISTER, 1958**

**CPC 1720: HOLOTYPE** -- GLENISTER, 1958, pp. 65-66, Text-figs 1C, 2A, Pl. 12, figs 10-11.

**Locality:** NH9B - ½ mile (0.8 km) north of the main scarp of the Pillara Range, 1 mile (1.6 km) east of the northern entrance to Menyau's Gap, Kimberley district, Western Australia. 18.4125°S, 125.8533°E. NOONKANBAH 1:250,000 sheet SE51-12.

**Horizon:** Sadler Formation (probably within the lower 500 ft - 152 m), Canning Basin.

**Age:** *Manticoceras* Zone, Frasnian, Late Devonian.

**CPC 1721: Figured Paratype** -- GLENISTER, 1958, pp. 65-66, Pl. 5, figs 7-9.

**Locality:** KDup126 - measured section DP3, approximately 4 miles (6.4 km) southwest of the ruined "Old Bohemia" homestead, Kimberley district, Western Australia. 18.7°S, 126.1°E. MOUNT RAMSAY 1:250,000 sheet SE52-9.

**Horizon:** 187-213 ft (57-65 m) above the base of the Gogo Formation, Canning Basin.

**Age:** *Manticoceras* Zone, Frasnian, Late Devonian.

**Remarks:** The locality data were not published, but an old locality index card gives air-photo coordinates which from Strusz, 1992, corresponds to measured section DP3, which includes KDup126.

### ***Ponticeras retorquatum* GLENISTER, 1958**

**CPC 1722: HOLOTYPE** -- GLENISTER, 1958, pp. 66-67, Pl. 5, fig. 3.

**Locality:** RS190 - at the southern end of Bugle Gap, 3.25 miles (5.2 km) at 61° from Pinnacle Spring, Kimberley district, Western Australia. 18.7417°S, 126.0833°E. MOUNT RAMSAY 1:250,000 sheet SE52-9.

**Horizon:** Virgin Hills Formation, Canning Basin.

**Age:** *Manticoceras* Zone, Frasnian, Late Devonian.

**CPC 1723: Figured Paratype** -- GLENISTER, 1958, pp. 66-67, Text-fig. 2B.

**Locality, horizon, and age** as for CPC 1722.

**CPC 1724: Figured Paratype** -- GLENISTER, 1958, pp. 66-67, Pl. 5, fig. 2.

**Locality, horizon, and age** as for CPC 1722.

**CPC 1725: Figured Paratype** -- GLENISTER, 1958, pp. 66-67, Text-fig. 1A.

**Locality, horizon, and age** as for CPC 1722.

### ***Ponticeras* n. sp. GLENISTER, 1958**

**CPC 1726: Figured specimen** -- GLENISTER, 1958, pp. 67-68, Text-fig. 2C-D, Pl. 5, fig. 1.

**Locality:** KDup126 - measured section DP3, approximately 4 miles (6.4 km) southwest of the ruined "Old Bohemia" homestead, Kimberley district, Western Australia. 18.7°S, 126.1°E. MOUNT RAMSAY 1:250,000 sheet SE52-9.

**Horizon:** 187-213 ft (57-65 m) above the base of the Gogo Formation, Canning Basin.

**Age:** *Manticoceras* Zone, Frasnian, Late Devonian.

**Remarks:** The locality data were not published, but an old locality index card gives air-photo coordinates which from Strusz, 1992, corresponds to measured section DP3, which includes KDup126.

### ***Popanoceras* sp. indet. GLENISTER & FURNISH, 1961**

**CPC 1775: Figured specimen** (poorly preserved involute internal mould) -- GLENISTER & FURNISH, 1961, p. 725, Pl. 83, fig. 10. GLENISTER *et al.*, 1993, microfiche 7, Ammonoids p. 20, Pl. 51, fig. 10.

**Locality:** ML73 - 0.45 miles (700 m) at 103° from Wandagee Hill Trigonometric Station, Western Australia. 23.8333°S, 114.4514°E. WINNING POOL 1:250,000 sheet SF50-13.

**Horizon:** 230 ft (70 m) below the top of the Nura Nura Member, Coolkilya Sandstone, Kennedy Group, Carnarvon Basin.

**Age:** Sterlitamakian Substage, late Sakmarian, Early Permian.

### ***Probeloceras alveolatum* GLENISTER, 1958**

**CPC 1727: HOLOTYPE** -- GLENISTER, 1958, pp. 69-70, Text-figs 3A-B, Pl. 15, figs 2-3.

**Locality:** KDup126 - measured section DP3, approximately 4 miles (6.4 km) southwest of the ruined "Old Bohemia" homestead, Kimberley district, Western Australia. 18.7°S, 126.1°E. MOUNT RAMSAY 1:250,000 sheet SE52-9.

**Horizon:** 187-213 ft (57-65 m) above the base of the Gogo Formation, Canning Basin.

**Age:** *Manticoceras* Zone, Frasnian, Late Devonian.

**Remarks:** The locality data were not published, but an old locality index card gives air-photo coordinates which from Strusz, 1992, corresponds to measured section DP3, which includes KDup126.

### ***Propinacoceras australe* TEICHERT, 1942**

**See *Baymaniceras australe***

Originally referred to *Propinacoceras*, the species was transferred without significant comment to *Baymaniceras* by Glenister in Cockbain, 1980, p. 102.

***Propinacoceras* n. sp. GLENISTER & FURNISH, 1961**

See *Baymaniceras* n. sp.

Originally referred to *Propinacoceras*, the species was transferred without significant comment to *Baymaniceras* by Glenister in Cockbain, 1980, p. 102.

***Propopanoceras ruzhencevi* GLENISTER & FURNISH, 1961**

**CPC 1773: HOLOTYPE** (internal mould of phragmocone) -- GLENISTER & FURNISH, 1961, pp. 723-725, Text-fig. 15A (in part), Pl. 86, figs 1-2. GLENISTER *et al.*, 1993, microfiche 7, Ammonoids p. 19, Text-fig. 9A, Pl. 50, fig. 7, Pl. 51, figs 12-13.

**Locality:** KNuA1 - 1.6 miles (2.6 km) southwest of "Paradise" homestead, Nura Nura Ridge area, Western Australia. 18.0417°S, 124.5167°E. NOONKANBAH 1:250,000 sheet SE51-12.

**Horizon:** Nura Nura Member, Poole Sandstone, Canning Basin.

**Age:** Sterlitamakian Substage, Late Sakmarian, Early Permian.

**CPC 1774:** Figured Paratype -- GLENISTER & FURNISH, 1961, pp. 723-725, Text-fig. 15A (in part), Pl. 86, fig. 3. GLENISTER *et al.*, 1993, microfiche 7, Ammonoids p. 19, Pl. 51, fig. 11.

**Locality:** At or near locality KnuA1 - see CPC 1773.

**Horizon and age** as for CPC 1773.

***Pseudogastriceras goochi* TEICHERT, 1942**

See *Daubichites goochi*

Originally described as *Pseudogastriceras*, the species was referred to as *Daubichites* in Glenister *et al.*, 1993, following work by Nassichuk.

***Serramanticoceras serratum* (STEININGER, 1849)**

**CPC 30653:** Referred specimen -- BECKER, HOUSE & KIRCHGASSER, 1993, p. 306.

**Locality:** WCB 372/24-25c - trench section WCB 372, about 350 m west of McWhae Ridge, MRH level 24-25 m above the base of the section, Kimberley district, Western Australia. 18.750°S, 126.0667°E. Grid reference 916260, BOHEMIA 1:100,000 sheet 4160; MOUNT RAMSAY 1:250,000 sheet SE52-9.

**Horizon:** Virgin Hills Formation, Lennard Shelf, Canning Basin.

**Age:** *Serramanticoceras serratum* - II Zone, Frasnian, Late Devonian.

**Remarks:** Referred to only by the field number.

***Sphaeromanticoceras lindneri* (GLENISTER, 1958)**

See also *Manticoceras lindneri*

Becker, House & Kirchgasser, p. 299 in Hailwood & Kidd, 1993, transferred *Manticoceras lindneri* to *Sphaeromanticoceras*.

**CPC 1728:** Figured Paratype -- GLENISTER, 1958, pp. 72-73, Pl. 6, figs 1-2, Pl. 7, fig. 2.

**Locality:** RS194 - near locality RS190, at the southern end of Bugle Gap, 3.25 miles (5.2 km) at 61° from Pinnacle Spring, Kimberley district, Western Australia. 18.7417°S, 126.0833°E. MOUNT RAMSAY 1:250,000 sheet SE52-9.

**Horizon:** Virgin Hills Formation, Canning Basin.

**Age:** *Manticoceras* Zone, Frasnian, Late Devonian.

***Sporadoceras (Sporadoceras) inflexum* WEDEKIND, 1908**

**CPC 15733:** Figured specimen -- PETERSEN, 1975, pp. 45-46, Text-fig. 24A, Pl. 5, fig. 10.

**Locality:** K495 - on the western side of the Margaret River 4 km at 6° from Mount Pierre Trigonometric Station, Kimberley district, Western Australia. 18.2595°S, 125.8759°E. Grid reference approximately ZV 041787, FITZROY CROSSING

1:100,000 sheet 4061; NOONKANBAH 1:250,000 sheet SE 51-12.  
**Horizon:** Upper Virgin Hills Formation, Lennard Shelf, Canning Basin.  
**Age:** Middle *Palmatolepis marginifera* Zone, Famennian, Late Devonian.

### ***Sporadoceras (Sporadoceras) rotundum* WEDEKIND, 1908**

**CPC 15731:** Figured specimen -- PETERSEN, 1975, p. 46, Pl. 5, fig. 1.

**Locality:** K492 - in section DP20, in a creek 5.63 km at 343° from Mount Pierre Trigonometric Station, west of the Margaret River opposite Needle Eye Rocks, Kimberley district, Western Australia. 18.2480°S, 125.8561°E. Grid reference ZV 20800, FITZROY CROSSING 1:100,000 sheet 4061; NOONKANBAH 1:250,000 sheet SE 51-12.

**Horizon:** Upper Virgin Hills Formation, 13.1 to 20.7 m below the Piker Hills Formation, Lennard Shelf, Canning Basin.  
**Age:** *Palmatolepis marginifera* to middle *P. trachytera* Zone, Famennian, Late Devonian.

**CPC 15732:** Figured specimen -- PETERSEN, 1975, p. 46, Text-fig, 24B, Pl. 5, figs 2-3.

**Locality, horizon, and age** as for CPC 15731.

### ***Thalassoceras wadei* MILLER, 1936**

**CPC 1766:** Figured specimen -- GLENISTER & FURNISH, 1961, pp. 699-700, Pl. 78, fig. 1. GLENISTER *et al.*, 1993, microfiche 7, Ammonoids p. 21, Pl. 50, fig. 6.

**Locality:** KNuA1 - 1.6 miles (2.6 km) southwest of "Paradise" homestead, Nura Nura Ridge area, Kimberley district, Western Australia. 18.0417°S, 124.5167°E. NOONKANBAH 1:250,000 sheet SE51-12.

**Horizon:** Nura Nura Member, Poole Sandstone, Canning Basin.

**Age:** Sterlitamakian Substage, Late Sakmarian, Early Permian.

### ***Timanites angustus* GLENISTER, 1958**

**CPC 1737: HOLOTYPE** -- GLENISTER, 1958, pp. 79-80, Text-fig. 9, Pl. 11, figs 2-4.

**Locality:** RS205 - 5-12 ft (1.5-3.7 m) above the base of a small hill, central Bugle Gap, 3.5 miles (5.6 km) at 143° from Paddy's Spring, Kimberley district, Western Australia. 18.6833°S, 126.0375°E. MOUNT RAMSAY 1:250,000 sheet SE52-9.

**Horizon:** Gogo Formation, Canning Basin.

**Age:** *Manticoceras* Zone, Frasnian, Late Devonian.

**CPC 1738:** Figured Paratype -- GLENISTER, 1958, pp. 79-80, Pl. 12, fig. 9.

**Locality, horizon, and age** as for CPC 1737.

**CPC 1739:** Figured Paratype -- GLENISTER, 1958, pp. 79-80, Pl. 11, fig. 1.

**Locality, horizon, and age** as for CPC 1737.

**CPC 1740:** Figured Paratype -- GLENISTER, 1958, pp. 79-80, Pl. 11, fig. 5.

**Locality, horizon, and age** as for CPC 1737.

### ***Tornoceras contractum* GLENISTER, 1958**

**CPC 1753: HOLOTYPE** -- GLENISTER, 1958, pp. 90-92, Text-fig. 16D, Pl. 15, figs 4-6.

**Locality:** KDupA95 - as RS205: 5-12 ft (1.5-3.7 m) above the base of a small hill, central Bugle Gap, 3.5 miles (5.6 km) at 143° from Paddy's Spring, Kimberley district, Western Australia. 18.6833°S, 126.0375°E. MOUNT RAMSAY 1:250,000 sheet SE52-9.

**Horizon:** Gogo Formation, Canning Basin.

**Age:** *Manticoceras* Zone, Frasnian, Late Devonian.

**CPC 1754:** Paratype -- GLENISTER, 1958, pp. 90-92.

**Locality, horizon, and age** as for CPC 1753.

**CPC 1755:** Figured Paratype -- GLENISTER, 1958, pp. 90-92, Text-fig. 16B.

**Locality, horizon, and age** as for CPC 1753.

***Tornoceras (Polonoceras) sp.* GLENISTER, 1958**

**CPC 1758:** Figured specimen -- GLENISTER, 1958, p. 93, Text-figs 17A-B.

**Locality:** KDul478 - 3 miles (4.8 km) north of "Fossil Downs" homestead, Geikie Range, Kimberley district, Western Australia. 18.10°S, 125.783°E. NOONKANBAH 1:250,000 sheet SE51-12.

**Horizon:** 1495-1514 ft (456-461 m) above the base of the Virgin Hills Formation, Canning Basin (formerly Fossil Downs Formation).

**Age:** *Manticoceras* Zone, Frasnian, Late Devonian.

***Tornoceras (Tornoceras) clausum* GLENISTER, 1958**

**CPC 1756: HOLOTYPE** -- GLENISTER, 1958, pp. 92-93, Text-fig. 16C, Pl. 15, figs 7-9.

**Locality:** RS190 - at the southern end of Bugle Gap, 3.25 miles (5.2 km) at 61° from Pinnacle Spring, Kimberley district, Western Australia. 18.7417°S, 126.0833°E. MOUNT RAMSAY 1:250,000 sheet SE52-9.

**Horizon:** Virgin Hills Formation, Canning Basin.

**Age:** *Manticoceras* Zone, Frasnian, Late Devonian.

**CPC 1757:** Figured Paratype -- GLENISTER, 1958, pp. 92-93, Text-fig. 16A.

**Locality, horizon, and age** as for CPC 1756.

## Phylum HYOLITHA

**Taxonomic note:** *The contention of Runnegar et al., 1975, followed by Kruse, 1990, that the hyolithids form a distinct phylum, the Hyolitha, is followed here. In view of the small number of CPC specimens involved (as well as the long-held view that the group lay within the Mollusca), the group is nevertheless included in this volume on Palaeozoic Mollusca.*

### ***Hyolithes* sp. cf. *spryi* CHAPMAN, 1904**

**CPC 687-689:** Cited specimens -- ÖPIK, 1953, p. 22

**Locality:** Heathcote district, 105 km north of Melbourne, Victoria, Australia.

**Horizon:** "Illaenus Band", Wapentake Formation, Melbourne Trough.

**Age:** Telychian, late Llandovery, Early Silurian.

**Remarks:** All specimens are missing, and were probably destroyed in the 1953 BMR fire.

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| 3902-4    | <i>Lithophaga?</i> sp.                                                     | 7494      | <i>Pyramus myiformis</i>                 | 15504-5   | <i>Inaequidens campbelli</i>                                   |
| 3905-8    | <i>Atomodesma</i> ( <i>Atomodesma</i> )<br><i>mytiloides</i>               | 7495      | <i>Pyramus concentricus?</i>             | 15506-12  | <i>Sthenodonta jelli</i>                                       |
| 3909-11   | <i>Atomodesma</i> ( <i>Atomodesma</i> ) sp.<br>cf. <i>timorensis</i>       | 7496      | <i>Pyramus</i> sp.                       | 15513-21  | <i>Johnmartinia cordata</i>                                    |
| 3912-4    | <i>Atomodesma</i> ( <i>Atomodesma</i> )<br><i>mytiloides</i> var. nov.     | 7497      | <i>Pyramus concentricus?</i>             | 15522-8   | <i>Johnmartinia orbicularis</i>                                |
| 3915-6    | <i>Pseudomyalina</i> sp. A                                                 | 7498-9    | <i>Myonia morrissi</i>                   | 15529-32  | <i>Sthenodonta passmoreae</i>                                  |
| 3918-21   | <i>Deltopecten waterfordi</i>                                              | 7500      | <i>Myonia</i> sp. nov.?                  | 15533-9   | <i>Sthenodonta eastii</i>                                      |
| 3922-3    | <i>Etheripecten tenuicollis</i>                                            | 7501      | <i>Myonia carinella</i>                  | 15540-1   | <i>Cyrtodonta stoffordae</i>                                   |
| 3924      | <i>Etheripecten?</i> sp.                                                   | 7502-3    | <i>Myonia carinata?</i>                  | 15542-5   | <i>Cyrtodonta wattii</i>                                       |
| 3925      | <i>Girtypecten ovalis</i>                                                  | 7504      | <i>Myonia morrissi</i>                   | 15546     | <i>Cyrtodonta hazeli</i>                                       |
| 3926-7    | <i>Acanthopecten?</i> sp.                                                  | 7505-8    | <i>Myonia corrugata</i>                  | 15547-9   | <i>Cyrtodonta carberryi</i>                                    |
| 3928-31   | <i>Euchondria callytharraensis</i>                                         | 7509-12   | <i>Australomya sulcata</i>               | 15550     | <i>Cyrtodonta hazeli</i>                                       |
| 3932-3    | <i>Streptopecten</i> sp.                                                   | 7513-4    | <i>Vacunella curvata</i>                 | 15551-6   | <i>Pharidoconcha kraciukae</i>                                 |
| 3934      | <i>Palaeolima</i> sp. nov.                                                 | 7515-8    | <i>Vacunella etheridgei</i>              | 15557-9   | <i>Cyrtodontula hadzeli</i>                                    |
| 3935-8    | <i>Plagiostoma?</i> sp. nov.                                               | 7519-20   | <i>Vacunella? dawsonensis</i>            | 15560     | <i>Leconychia doylei</i>                                       |
| 3939-43   | <i>Elimata guppyi</i>                                                      | 7521-3    | <i>Vacunella?</i> sp. nov. A             | 15561     | Ambonychiidae, genus B sp. A                                   |
| 3944-50   | <i>Stutchburia hoskingae</i>                                               | 8102      | <i>Palaeosolen</i> sp.                   | 15562     | <i>Pteronichia haupti</i>                                      |
| 3951-4    | <i>Schizodus sandimanensis</i>                                             | 8110-1    | <i>Aviculopecten dawsonensis</i>         | 15563     | <i>Pteronichia</i> sp. aff. <i>haupti</i>                      |
| 3955-8    | <i>Oriocrassatella</i> sp.                                                 | 8116-9    | <i>Eurydesma hobartense konincki</i>     | 15564     | <i>Pteronichia haupti</i>                                      |
| 3959-61   | <i>Astartella obliqua</i>                                                  | 8120      | Eurydesmatidae, gen. et sp. nov.         | 15565-6   | <i>Denticolex tortuosa</i>                                     |
| 3962-5    | <i>Oriocrassatella stokesi</i>                                             | 8120-4    | <i>Glendella dickinsi</i>                | 15567     | <i>Modiolopsis?</i> sp. A                                      |
| 3966-71   | <i>Bellerophon formani</i>                                                 | 9932      | <i>Atomodesma exaratum</i>               | 15568-81  | <i>Colpantyx woolleyi</i>                                      |
| 3972-6    | <i>Stachella crucilirata</i>                                               | 10273     | <i>Myonia elata</i>                      | 15582-3   | <i>Sphenosolen draperi</i>                                     |
| 3977-8    | <i>Retispira? clarkae</i>                                                  | 11296-308 | <i>Teiichispira cornucopiae</i>          | 15584-9   | <i>Xestoconcha kraciukae</i>                                   |
| 3979-82   | <i>Warthia intermedia</i>                                                  | 11309-10  | <i>Teiichispira</i> sp. indet.           | 15590-2   | <i>Noradonta shergoldi</i>                                     |
| 3983      | <i>Warthia intermedia?</i>                                                 | 11311-2   | <i>Teiichispira cornucopiae</i>          | 15593-6   | <i>Copidens browni</i>                                         |
| 3984-5    | <i>Warthia</i> sp. cf. <i>micromphala</i>                                  | 13186     | <i>Scenella</i> sp. indet.               | 15597     | <i>Bransonia townleyi</i>                                      |
| 3986-91   | <i>Euphemites wynnensis</i>                                                | 13187     | <i>Scenella reticulata</i>               | 15598     | <i>Pinnocaris?</i> sp. C                                       |
| 3992      | <i>Mourlonia</i> ( <i>Mourlonia</i> ) sp.<br>nov. A                        | 13953     | <i>Oepikila cambrica</i>                 | 15599-600 | <i>Technophorus walteri</i>                                    |
| 3993-8    | <i>Mourlonia?</i> obscura                                                  | 14670-9   | <i>Ribeiria australiensis</i>            | 15601     | <i>Riberia csiro</i>                                           |
| 3999-4006 | <i>Mourlonia</i> ( <i>Pseudobaylea</i> )<br><i>frenyensis</i>              | 14680-4   | <i>Ribeiria runnegari</i>                | 15723     | <i>Epitornoceras peracutum</i>                                 |
| 4007      | <i>Ptychomphalina talboti</i>                                              | 14686-91  | <i>Ribeiria runnegari</i>                | 15724     | <i>Cheiloceras</i> ( <i>Cheiloceras</i> )<br><i>sacculus</i>   |
| 4008      | <i>Mourlonia</i> ( <i>Mourlonia</i> )<br><i>lyndonensis</i>                | 14692-700 | <i>Wanwania drucei</i>                   | 15725-30  | <i>Paratornoceras lentiforme</i>                               |
| 4009      | <i>Peruvispira</i> sp. cf. <i>umariensis</i>                               | 14701-6   | <i>Ribeiria huckitta</i>                 | 15731-2   | <i>Sporadoceras</i> ( <i>Sporadoceras</i> )<br><i>rotundum</i> |
| 4010-3    | <i>Straparolus</i> ( <i>Leptomphalus</i> )<br><i>besselensis</i>           | 14707-8   | <i>Ribeiria</i> sp. aff. <i>huckitta</i> | 15733     | <i>Sporadoceras</i> ( <i>Sporadoceras</i> )<br><i>inflexum</i> |
| 4014-16   | <i>Platyceras</i> sp. nov.                                                 | 14709     | <i>Ribeiria jonesi</i>                   | 15734     | <i>Cyrtoclymenia</i> sp. cf. <i>stenom-</i><br><i>phala</i>    |
| 4017      | <i>Myofossa subarbitrata</i>                                               | 14710     | <i>Ribeiria huckitta</i>                 | 19854     | <i>Cyrtorostra</i> sp.                                         |
| 4018      | <i>Schizodus</i> sp. A                                                     | 14711     | <i>Ribeiria jonesi</i>                   | 19862     | <i>Etheripecten?</i> sp. ARCHBOLD,<br>1988                     |
| 5170-1    | <i>Parallelodon</i> sp.                                                    | 14712-4   | <i>Ribeiria huckitta</i>                 | 20145     | cf. <i>Centrifugus</i> sp.                                     |
| 5172      | <i>Megadesmus gryphoides</i>                                               | 14715-6   | <i>Ribeiria csiro</i>                    | 20146     | <i>Vacunella</i> sp. cf. <i>etheridgei</i>                     |
| 5173      | <i>Myonia morrissi</i>                                                     | 14717-34  | <i>Cymatopogma semiplicatum</i>          | 20147-8   | <i>Myonia</i> sp. cf. <i>corrugata</i>                         |
| 5174      | <i>Glendella dickinsi</i>                                                  | 14735-41  | <i>Pinnocaris robusta</i>                | 20149-53  | <i>Myonia olgersi</i>                                          |
| 5175      | <i>Etheripecten tenuicollis?</i>                                           | 14742     | <i>Pinnocaris</i> sp. A                  | 20154-5   | <i>Merismopteria</i> sp. cf. <i>imbricata</i>                  |
| 5176      | <i>Aviculopecten</i> sp. nov.                                              | 14743     | <i>Pinnocaris?</i> sp. B                 | 20156-7   | <i>Etheripecten tenuicollis</i>                                |
| 5177      | <i>Streptopecten</i> sp. cf. <i>parkesi</i>                                | 14744-60  | <i>Pinnocaris wellsi</i>                 | 20158-61  | <i>Astartella</i> sp. cf. <i>obliqua</i>                       |
| 5178      | <i>Stutchburia costata</i>                                                 | 14761-6   | <i>Ptychopecten burgeri</i>              | 20162-5   | <i>Stutchburia randi</i>                                       |
| 5180      | <i>Cypricardina?</i> sp. cf. <i>gregaria</i>                               | 14767-71  | <i>Apoptopogma dickinsi</i>              | 20167-8   | <i>Peruvispira</i> sp.                                         |
| 5181      | <i>Schizodus kennedyensis</i>                                              | 14772     | <i>Apoptopogma</i> sp. A                 | 20169     | <i>Platysteichum</i> sp.                                       |
| 5182      | <i>Astartella</i> sp.                                                      | 14773-5   | <i>Technophorus walteri</i>              | 20170     | <i>Etheripecten fittoni</i>                                    |
| 5183      | <i>Pleurikodonta elegans</i>                                               | 14776-81  | <i>Technophorus nicolli</i>              | 20171-2   | <i>Deltopecten limaeformis</i>                                 |
| 5184      | ' <i>Conocardium</i> ' sp.                                                 | 14782-8   | <i>Ribeiria jonesi</i>                   | 20173     | <i>Deltopecten multicostatus</i>                               |
| 5185      | <i>Mourlonia</i> ( <i>Mourlonopsis</i> )<br>sp. cf. <i>strzeleckiana</i>   | 14789-92  | <i>Technophorus planei</i>               | 23741     | <i>Pelagiella</i> sp.                                          |
| 5186      | <i>Peruvispira scapulata?</i>                                              | 14793-4   | <i>Pauropogma jelli</i>                  | 24719-20  | <i>Armenoceras</i> sp. indet.                                  |
| 5187      | <i>Mourlonia</i> ( <i>Wallnichollsia</i> )<br>sp. cf. <i>subcancellata</i> | 14795     | <i>Ribeiria</i> sp. A                    | 24721-3   | <i>Lobendoceras emanuelense</i>                                |
| 6148      | <i>Astartila</i> ( <i>Astartila</i> ) <i>intrepida</i>                     | 14796-806 | <i>Technophorus kempae</i>               | 24724-7   | Discosoridae, n. gen. n. sp.                                   |
| 6708-9    | <i>Vacunella curvata</i>                                                   | 14807-31  | <i>Tolmachovia belfordi</i>              | 24728-9   | <i>Madiganella tatei</i>                                       |
| 6796-800  | <i>Megadesmus</i> ( <i>Megadesmus</i> )<br><i>gryphoides</i>               | 14832-7   | <i>Pleuropecten plicatum</i>             | 25255-8   | <i>Pseudonucula bradshawensis</i>                              |
| 6801-2    | <i>Megadesmus</i> ( <i>Cleobis</i> )<br><i>grandis</i>                     | 14838-40  | <i>Pauropogma jelli</i>                  | 25259     | <i>Paleyoldia</i> sp.                                          |
| 6803-6    | <i>Astartila</i> ( <i>Astartila</i> ) <i>intrepida</i>                     | 14841     | <i>Oepikila cambrica</i>                 | 25260-6   | <i>Glyptoleta flexuosa</i>                                     |
| 6807-9    | <i>Astartila</i> ( <i>Pleurikodonta</i> )<br><i>elegans</i>                | 14842-8   | <i>Kimopogma pinnatum</i>                | 25267     | <i>Atomodesma</i> sp.                                          |
| 6971      | <i>Cosmomya</i> ( <i>Palaeocosmomya</i> )<br>sp. cf. <i>teichertii</i>     | 14849-69  | <i>Pauropogma jelli</i>                  | 25268     | <i>Vacunella curvata</i>                                       |
| 7357      | <i>Vacunella curvata</i>                                                   | 14870     | <i>Euchasma</i> sp. A                    | 25269-73  | <i>Mourlonia</i> ( <i>Mourlonia</i> )<br><i>strzeleckiana</i>  |
| 7358      | <i>Vacunella? dawsonensis</i>                                              | 14871-8   | <i>Euchasma skwarkoi</i>                 | 25274-6   | <i>Peruvispira</i> sp. cf. <i>modesta</i>                      |
|           |                                                                            | 14879-81  | <i>Bransonia chapronierei</i>            | 25277-8   | <i>Warthia perspecta</i>                                       |
|           |                                                                            | 14882-92  | <i>Euchasma caseyi</i>                   | 25279     | <i>Discotomaria?</i> sp.                                       |
|           |                                                                            | 14893     | <i>Euchasma?</i> sp. B                   | 25781-2   | <i>Pelagiella deltoidea</i>                                    |
|           |                                                                            | 14894     | <i>Eopteria</i> sp. A                    | 25340     | <i>Cyclolobus persulcatus</i>                                  |
|           |                                                                            | 14895-912 | <i>Euchasma caseyi</i>                   | 28578-87  | <i>Latouchella</i> sp. cf. <i>accordion-</i><br><i>ata</i>     |
|           |                                                                            | 14913-47  | <i>Eopteria struszi</i>                  | 29042     | <i>Cornellites catellus</i>                                    |
|           |                                                                            | 15479-83  | <i>Eritropis opiformis</i>               |           |                                                                |
|           |                                                                            | 15484     | <i>Eritropis</i> sp. A                   |           |                                                                |
|           |                                                                            | 15485-90  | <i>Alococoncha crassatellaeformis</i>    |           |                                                                |
|           |                                                                            | 15491-4   | <i>Ctenodonta youngi</i>                 |           |                                                                |
|           |                                                                            | 15495     | <i>Deceptrix?</i> sp. A                  |           |                                                                |
|           |                                                                            | 15496     | <i>Zeehanina jacksoni</i>                |           |                                                                |
|           |                                                                            | 15497-503 | <i>Palaeoneilo smithi</i>                |           |                                                                |

**CPC**

|          |                                              |
|----------|----------------------------------------------|
| 29043-4  | <i>Rhombopteriidae</i> , gen. et sp.<br>nov. |
| 30653    | <i>Serramanticoceras serratum</i>            |
| 30722-4  | <i>Aganides?</i> sp. indet.                  |
| 30725-9  | <i>Cornellites talenti</i>                   |
| 30730-2  | <i>Cornellites catellus</i>                  |
| 30733-6  | <i>Eoschizodus taemasensis</i>               |
| 30737-8  | <i>Cypricardinia sinuosa</i>                 |
| 30739-40 | <i>Cypricardinia minima</i>                  |

**CPC**

|          |                                      |
|----------|--------------------------------------|
| 30741    | <i>Nuculites</i> sp.                 |
| 30742    | <i>Nuculopsis</i> sp.                |
| 30743    | <i>Schizodus oweni</i>               |
| 30744    | <i>Schizodus truemani</i>            |
| 30745-6  | <i>Solenomorpha</i> sp.              |
| 30747-8  | <i>Goniophora</i> sp.                |
| 30749-53 | <i>Goniophora duplisulca</i>         |
| 30754    | <i>Paracyclas alleni</i>             |
| 30755-7  | <i>Lucinoidea</i> , gen. et sp. nov. |

**CPC**

|          |                                            |
|----------|--------------------------------------------|
| 30758    | <i>Phorinoplax striata</i>                 |
| 30759-60 | <i>Sanguinolites?</i> <i>phlyctaenatus</i> |
| 30761-4  | <i>Glyptodesma buehanensis</i>             |
| 30765-7  | <i>Mytilarca bloomfieldensis</i>           |
| 30768-70 | <i>Crassatellopsis yongei</i>              |
| 30771    | <i>Crassatellopsis lenticularis?</i>       |
| 30772-87 | <i>Crassatellopsis yongei</i>              |
| 30788-94 | <i>Crassatellopsis lenticularis</i>        |
| 33678    | <i>Kitakamispira ukalundensis?</i>         |