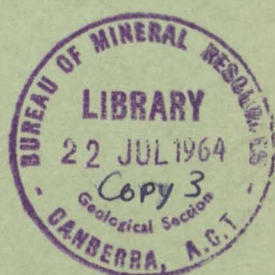


COMMONWEALTH OF AUSTRALIA
DEPARTMENT OF NATIONAL DEVELOPMENT
BUREAU OF MINERAL RESOURCES, GEOLOGY AND GEOPHYSICS

Report No. 69



CATALOGUE OF FOSSIL TYPE AND
FIGURED SPECIMENS IN TASMANIA

BY

IRENE CRESPIN

Complimentary

Issued under the Authority of Senator the Hon. Sir William Spooner,
Minister for National Development
1964

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COMMONWEALTH OF AUSTRALIA

DEPARTMENT OF NATIONAL DEVELOPMENT

Minister: SENATOR THE HON. SIR WILLIAM SPOONER, K.C.M.G., M.M.

Secretary: SIR HAROLD RAGGATT, C.B.E.

BUREAU OF MINERAL RESOURCES, GEOLOGY AND GEOPHYSICS

Director: J. M. RAYNER.

This Report was prepared in the Geological Branch

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ABSTRACT

Only 173 primary or supplementary type specimens were discovered in the fossil collections in Tasmania. These were deposited in the Geology Department of the University of Tasmania, the Tasmanian Museum and the Geological Survey of Tasmania in Hobart, and in the Queen Victoria Museum in Launceston. The species are listed and arranged in alphabetical order in their appropriate larger biological groups. The publications in which the specimens are described, the appropriate prefixes to the registered numbers, the character of the type, the locality, the geological age, and the repository of the specimens are given. The Catalogue is completed, as far as possible, to early 1962.

Catalogue of fossil type and figured specimens in Tasmania

INTRODUCTION

Collections of Tasmanian fossils are housed in four institutions in that State—

1. Geology Department, University of Tasmania, Hobart.
2. Tasmanian Museum and Art Gallery, Hobart.
3. Geological Survey of Tasmania, Hobart.
4. Queen Victoria Museum and Art Gallery, Launceston.

Few of the early types and figured specimens are in Tasmania itself. Many fossils were sent to palaeontologists on the mainland and to overseas specialists for examination and subsequent description, and were not returned.

Amongst the early described species from Tasmania housed in the British Museum (Natural History) are Palaeozoic brachiopods (Koenig, 1825), Tertiary corals from Table Cape (Duncan, 1875) and freshwater Mollusca (Etheridge, 1881). Also in that institution are fossil types collected by Darwin's party during the voyage of the *Beagle* to Van Diemen's Land (the old name for Tasmania) (Darwin, 1844) and by Strzelecki (1845). These included Palaeozoic Bryozoa (Lonsdale, 1844, 1845), Neogene Mollusca (Sowerby, 1845), and Palaeozoic marine fossils (Morris, 1845, 1845a).

The majority of Tertiary fossils from Table Cape (Fossil Bluff, Wynyard) were described by Tate (1885–1893) and the type and figured specimens are in the Tate Museum, Geology Department, University of Adelaide. Others were described by Tenison Woods (1876, 1877); a few of these were found in the Tasmanian Museum, Hobart. The majority of species described by R. Etheridge Jnr (1883, 1888, 1897) are in the Australian Museum, Sydney. The repository of the plant fossils described by Feistmantel (1881, 1890) is not known; Mr H. O. Fletcher of the Australian Museum suggests they may be in a Museum in Europe.

It seems that all specimens described by R. M. Johnston between 1873 and 1919 were housed in the Tasmanian Collections; but few of the fossil plants (1886a, 1886b, 1886c, 1894, 1897, 1919) and Mollusca (1881, 1885a, 1885d, 1885e, 1886) described by him were found, and only thirty of the 300 specimens figured by him in the "Geology of Tasmania" (Johnston, 1888).

Types of other described species and figured specimens are in the Australian Museum, Sydney (Hull, 1910; Brown, 1953), in the Geology Department, University of Sydney (Crockford, 1943), in the National Museum, Melbourne (Pritchard, 1896; Chapman, 1926; Gill, 1948; Marwick, 1960), and in the Commonwealth Palaeontological Collection, Canberra (Crespin, 1958). The whereabouts of the Palaeozoic plants described by Cookson (1937) is uncertain.

The remains of the cetacean *Prosqualodon davidi* Flynn (1932), from the Tertiary of Table Cape, are in the Zoology Department, University of Tasmania. As far as is known, these represent the specimens upon which Flynn based his type description. Up to the present no registered number has been assigned to them. Numerous fragments are also present in the Queen Victoria Museum, Launceston, but it is not known whether any of them are referred to in the type description.

The type specimen of the interesting marsupial *Wynyardia bassiana* Spencer (1900), from the Table Cape Beds, is safely housed in the Tasmanian Museum, Hobart.

Type names appear to have been attached to many of the early specimens by museum authorities rather than by authors; they are reproduced, in the catalogue that follows, as they appear on the specimen labels, but the author takes no responsibility for their authenticity.

METHODS OF REGISTRATION OF SPECIMENS

No distinctive method for the registration of type and figured specimens exists in any of the institutions in which these specimens are housed. All specimens carry numbers which include them in the general fossil or geological collections.

1. Registered numbers given to fossils in the collection in the Geology Department, University of Tasmania, are all prefixed with the letters 'UT'. Unfortunately no distinctive numbers are given to type and figured specimens. With the completion of the new Department of Geology building, all type and figured specimens, including those housed in the Tasmanian Museum, are being placed in the strong room at the new building.

2. In the Tasmanian Museum, where the majority of type and figured specimens are housed, the individual specimen number, until recently, has been prefixed by two series of letters: 'TM' has been used for general fossil specimens; 'B' has been used for general geology including fossils. Mr M. R. Banks commenced an individual card index of all fossils, adding the letter 'Z' as a prefix to all numbers referring to fossils which may have been described and figured. This method of registration will be continued by Mr R. Both, who now has care of the geological section at the Museum. All type and figured specimens discovered in the Tasmanian Museum are housed in a strong room in the basement.

3. The collection of the Geological Survey of Tasmania contains several type and figured specimens. By arrangement with Mr Banks, the Chief Government Geologist (Mr T. Hughes) has agreed that these should be given University Geology Department numbers with the proviso that they are on permanent loan from the Geological Survey to the University. For the present they will be placed in the strong room at the Tasmanian Museum; later they will be transferred to the new strong room at the University.

4. Few type and figured specimens of fossils have been housed in the Queen Victoria Museum, Launceston. The Director of the Museum, Mr F. Ellis, and his scientific assistant, Mr F. L. Sutherland, agreed to institute a new method of registration of all type and figured specimens, which will have the letters 'QVM' as a prefix to registered numbers. All specimens will be suitably housed.

The ages of all type and figured specimens given in the following section have, as far as possible, been revised to accord with the latest information; this has been done with the valuable assistance of Mr Banks. The age of the Tertiary Table Cape Beds is being investigated to determine their exact stratigraphical position within the Tertiary sequence, and for the present an 'Oligocene or Lower Miocene' age is assigned to them. Reference to Formations is based, as far as possible, on the Lexicon of Tasmanian Stratigraphy (Smith, 1957).

The method of recording the fossils in the following section is based on that described by the writer in the Catalogue of type and figured specimens in the Commonwealth Palaeontological Collection at Canberra (Crespin, 1960). An asterisk against a figure number denotes the first illustration of the actual specimen recorded.

ACKNOWLEDGEMENTS

The writer expresses sincere thanks to all those who gave her such valuable co-operation in her attempt to sort out and compile the following list of type and figured specimens of Tasmanian fossils. Special appreciation is extended to Professor S. W. Carey and Mr M. R. Banks of the Geology Department, University of Tasmania; to the Director, Dr W. Bryden, and Mr R. A. Both, of the Tasmanian Museum; to the Chief Government Geologist, Mr T. Hughes, and Miss Edith Smith of the Geological Survey of Tasmania; to the Director, Mr F. Ellis, and Mr F. L. Sutherland, of the Queen Victoria Museum and Art Gallery, Launceston; to Miss Geddes, Librarian, Royal Society of Tasmania, Hobart; and to the Keeper of Palaeontology, Dr E. I. White, of the British Museum (Natural History), London.

PLANTAE

ALGAE

GIRVANELLA GRANDIS Banks & Johnson, 1957.

Girvanella grandis Banks & Johnson, 1957, p. 635, pl. 37, figs. 2,* 4.*

UT 25043a. Holotype.

Cashins Creek, Florentine Valley, near Maydena; Gordon Limestone.

Ordovician.

Univ. Tas. Geol. Dept.

GIRVANELLA PROBLEMATICA Nicholson & Etheridge, 1880; Banks & Johnson, 1957.

Girvanella problematica Nicholson & Etheridge, 1880, p. 23, pl. 9, fig. 24.

Girvanella problematica Nicholson & Etheridge, Banks & Johnson, 1957 p. 634, pl. 73, figs. 1,* 4.*

UT 25043a, 25045a. Figured sections.

Cashins Creek, Florentine Valley, near Maydena; Gordon Limestone.

Ordovician.

Univ. Tas. Geol. Dept.

GIRVANELLA TASMANIAENSIS Banks & Johnson, 1957.

Girvanella tasmaniaensis Banks & Johnson, 1957, p. 635, pl. 73, fig. 3.*

UT 25041b. Holotype.

Cashins Creek, Florentine Valley, near Maydena; Gordon Limestone.

Ordovician

Univ. Tas. Geol. Dept.

FOSSIL LEAVES

BAIERA TENUIFOLIA Johnston, 1887b, 1888; Walkom, 1925. See *Czekanowskia tenuifolia* (Johnston), Jones & de Jersey, 1947; *Pteruchus johnstoni* (Feistmantel), Townrow, 1962.

Baiera tenuifolia Johnston, 1887b, p. 176, pl. 3, figs. 2a-c*, non figs. 2d, e.

Baiera tenuifolia Johnston, Johnston, 1888, pl. 27, figs 2a-c, non figs. 2d, e.

?*Baiera tenuifolia* Johnston, Walkom, 1925, p. 85, fig. 14, non figs. 15, 16.

Czekanowskia tenuifolia (Johnston), Jones & de Jersey, 1947, p. 59, pl. 5, fig. 4; pl. 6, fig. 2; text-fig. 55.

Czekanowskia tenuifolia (Johnston), Townrow, 1962, p. 300, fig. 6H.

B.1049 (pars). Holotype.

Lord's Hill, Hobart.

Triassic.

Tas. Mus.

BEECH LEAF, Carey, 1947.

Beech, Carey, 1947, pl. 4B (non A).

QVM 5. Figured specimen.

Launceston Tertiary Basin.

Palaeogene.

Queen Vict. Mus.

Fossil leaves, **CINNAMOMUM, BEECH**, Carey, 1947.

Fossil leaves, *Cinnamomum*, Beech, Carey, 1947, p. 40, pl. 5.*

QVM 7 Figured specimens.

Launceston Tertiary Basin.

Palaeogene.

Queen Vict. Mus.

CRYPTOPHYLLITES TASMANICA Johnston, 1888.

Cryptophyllites Tasmanica Johnston, 1888, pl. 22, fig. 13.

TM 9610. Hypotype.

Springs, Mt. Wellington.

Triassic.

Tas. Mus.

(M. R. Banks has informed the writer verbally that he considers this specimen to be not a fossil but the marks made by modern roots or branches.)

CZEKANOWSKIA TENUIFOLIA (Johnston),
Jones & de Jersey, 1947; Townrow, 1962.
See ?*Baiera tenuifolia* Johnston, 1887b,
1888; Walkom, 1925.

DADOXYLON PENMANI Scott, 1934.

Dadoxylon penmani Scott, 1934 (1933),
p. 17.

QVM 2. Co-types (not figured).

Air Shaft, Aberfoyle Mine, Rossarden.

Permian.

Queen Vict. Mus.

NOTE.—Scott did not figure this species. Two
specimens labelled "Co-types" are present in
the Queen Victoria Museum. Scott (p. 19)
stated that three specimens were described.

DICROIDIUM ODONTOPTEROIDES

(Morris), Townrow, 1962, 1962a. See
Thinnfeldia odontopteroides Morris, John-
ston, 1887b, 1888; Walkom, 1925.

GLOSSOPTERIS sp., Lewis, 1940.

Glossopteris sp., Lewis, 1940 (1939), p.
95, pl. 13.*

Z 233. Figured specimen.

Heaney's Mine, 2 in. below floor of coal
seam, Cygnet; Cygnet Coal Measures.

Permian.

Tas. Mus.

PECOPTERIS LUNENSIS Johnston, 1894.

Pecopteris lunensis Johnston, 1894, p. 170,
pl. 1, figs. 5, 6, 7.*

TM 3173. Holotype.

Near Ida Bay, Southport.

Triassic.

Tas. Mus.

?PHLEBOPTERIS ALETHOPTEROIDES

Etheridge Jnr, 1888; Walkom, 1925.

Phlebopteris alethopteroides Etheridge
Jnr, 1888, p. 1306, pl. 38, figs. 1, 2.

?*Phlebopteris alethopteroides* Etheridge
Jnr, Walkom, 1925, p. 76, fig. 3.

B 1363. Hypotype.

No locality given.

Triassic.

Tas. Mus.

PLANE LEAF Carey, 1947.

Plane leaf, Carey, 1947, pl. 6A* (non B).

QVM 6. Figured specimen.

King's Meadow, Launceston Tertiary
Basin.

Palaeogene

Queen Vict. Mus.

PODOCARPUS BROWNEI Selling, 1950.

Podocarpus Brownei Selling, 1950, p. 558,
pl. 2, figs. 17-19.

QVM 3. **Holotype.**

Burnie.

Tertiary (Palaeogene).

Queen Vict. Mus.

PODOCARPUS (Sect. **DACRYCARPUS**) sp.
Selling, 1950.

Podocarpus (sect. *Dacrycarpus*) sp.,
Selling, 1950, p. 555, pl. 2, fig. 16.*

QVM 4. Figured specimen.

Burnie.

Tertiary (Palaeogene).

Queen Vict. Mus.

PTERUCHUS AFRICANUS Thomas, 1933.

See *Trichopitys johnstoni* (Feistmantel, 1890;
Pteruchus johnstoni (Feistmantel) Townrow,
1962, 1962a.

PTERUCHUS JOHNSTONI (Feistmantel),

Townrow, 1962, 1962a. See *Baiera tenui-*
folia Johnston, 1887b, 1888.

Male flower of *Baiera tenuifolia* Johnston,
1887b, p. 176, pl. 3, figs. 2d, e,* non
figs. 2a-c.

Baiera tenuifolia Johnston, Johnston,
1888, pl. 27, figs. 2d, e, non figs. 2a-c.

Trichopitys johnstoni Feistmantel, 1890,
p. 113, pl. 10, fig. 5 (Johnston's speci-
men refigured).

?*Baiera tenuifolia* Johnston, Walkom, 1925, p. 85, figs. 15, 16, non fig. 14.

Pteruchus africanus Thomas, 1933, p. 235, pl. 24, figs. 71, 72, text-figs. 34, 35.

Pteruchus africanus Thomas, Townrow, 1962, p. 293, pl. 24, fig. 4; pl. 25, figs. 1, 2; pl. 26, figs. 2, 4-11; text-figs. 1-3, 6-10.

Pteruchus johnstoni (Feistmantel) Townrow, 1962a, p. 91.

B 1049 (pars). Holotype (fig. A in Townrow).

Lord's Hill, Hobart.

Triassic.

Tas. Mus.

THINNFELDIA ODONTOPTEROIDES

Morris, Johnston, 1887b, Walkom, 1925.

Thinnfeldia (Pecopteris) odontopteroides Morris, Johnston, 1887b (1886), p. 181.

Thinnfeldia obtusifolia Johnston, 1888 (pars), pl. 25, figs. 7, 14 (non figs. 3, 9).

Thinnfeldia odontopteroides Morris, Walkom, 1925, p. 78, fig. 5.

Dicroidium odontopteroides (Morris), Townrow, 1962, p. 312, fig. 5A, Fig. 7E.

B 1045. Hypotype.

Lord's Hill, Hobart.

Triassic.

Tas. Mus.

TRICHOPITYS JOHNSTONI Feistmantel, 1890. See *Pteruchus johnstoni* (Feistmantel) Townrow, 1962, 1962a.

SPORES

BACUTRILETES GYRUS Dettmann, 1961.

Bacutriteles gyrus Dettmann, 1961, p. 75, pl. 2, fig. 2.*

UT 54592. Holotype.

Hydro-Electricity Commission bore No. 5018, N.E. tip of Great Lake, at 416 feet; New Town Coal Measures (Brady Formation).

Triassic.

Tas. Mus.

BANKSISPORITES SINOSUS Dettmann, 1961.

Banksisporites sinosus Dettmann, 1961, p. 74, pl. 1, fig. 11.*

UT 54591. Holotype.

No. 1 Bore, Cornwall Mine, near St Mary's, at 580 feet; New Town Coal Measures (Mount Nicholas Beds).

Triassic.

Tas. Mus.

HORTISPORITES MICROLUMENIS Dettmann, 1961.

Hortisporites microlumenis Dettmann, 1961, p. 75, pl. 2, fig. 8.*

UT 54593. Holotype.

Hydro-Electricity Commission bore No. 5087, N.E. tip of Great Lake, at 434 feet; New Town Coal Measures (Brady Formation).

Triassic.

Tas. Mus.

HUGHESISPORITES VARIABILIS Dettmann, 1961.

Hughesisporites variabilis Dettmann, 1961, p. 76, pl. 1, fig. 15.*

UT 54594. Holotype.

Bore No. 2, Cornwall Mine, near St Mary's, at 644-646 feet; New Town Coal Measures (Mount Nicholas Beds).

Triassic.

Tas. Mus.

NATHORSTISPORITES FLAGELLATUS Dettman, 1961.

Nathorstisporites flagellatus Dettmann, 1961, p. 80, pl. 4, fig. 1.*

UT 54595. Holotype.

Bore No. 11, Cornwall Mine, near St Mary's, at 580 feet; New Town Coal Measures (Mount Nicholas Beds).

Triassic.

Tas. Mus.

FORAMINIFERA

CALCITORNELLA STEPHENSI (Howchin), 1894; Crespin, 1945, 1947, 1958.

Nubecularia lucifuga Defrance var. *stephensi* Howchin, 1894 (1893), p. 245, pls. 9a, 10a.

Calcitornella stephensi (Howchin), Chapman, Howchin, & Parr, 1934, p. 187.

Calcitornella stephensi (Howchin), Crespin, 1945, p. 25, pl. 3, fig. 3.

Calcitornella stephensi (Howchin), Crespin, 1947, pl. 1, fig. 3.

Calcitornella stephensi (Howchin), Crespin, 1958, p. 84, pl. 17, figs. 4-8; pl. 32, figs. 1, 2,* 4, 9.

UT 50203. Figured specimen.

Hill immediately E. of main road between Karoola and Bangor, just N. of road

bridge over Piper River, 5½ miles from Karoola; Darlington Limestone.

Lower Permian.

Univ. Tas. Geol. Dept.

FRONDICULARIA HILLAE Crespin, 1958.

Frondicularia hillae Crespin, 1958, p. 110, pl. 28, figs. 5, 6,* 7, 8.

UT 28000. Paratype.

W. bank of Don River, 5 yards upstream from bridge over river from main road to Barrington and Sheffield; Golden Valley Group.

Lower Permian.

Univ. Tas. Geol. Dept.

NUBECULARIA LUCIFUGA Defrance var. **STEPHENSI** Howchin, 1894. See *Calcitornella stephensi* (Howchin), Crespin, 1945, 1947, 1958.

SPONGIDA

?CALCAREOUS SPONGE Johnston, 1888.

Calcareous sponge, Johnston, 1888, pl. 2, fig. 13.*

Z 20. Figured specimen.

Gordon River, W. Tasmania; Gordon Limestone.

Ordovician.

Tas. Mus.

?VERMES

TASMANADIA TWELVETREESI Chapman, 1928, Glaessner, 1957. (See under **Arthropoda**).

HYDROIDEA

ARCHAEOCRYPTOLARIA SKEATSI Chapman, 1919; Thomas & Henderson, 1945.

Archaeocryptolaria skeatsi Chapman, 1919, p. 393, pl. 1, fig. 3; pl. 20, fig. 7.

Archaeocryptolaria skeatsi Chapman, Thomas & Henderson, 1945, p. 6, pl. 1, fig. 1.*

UT 59252. Hypotype.

Razorback Spur, half a mile E. of deserted township of Dundas, 6 miles E. of Zeehan; Hodge Slate.

Middle Cambrian.

Tas. Mus. (on loan to Univ. Tas. Geol. Dept. from Geol. Surv. Tas.).

ARCHAEOLAFOEA SERIALIS Chapman & Thomas, 1936; Thomas & Henderson, 1945.

Archaeolafoea serialis Chapman & Thomas, 1936, p. 201, pl. 14, figs. 9-11; pl. 15, figs. 12, 12a, b.

Archaeolafoea serialis Chapman & Thomas, Thomas & Henderson, 1945, p. 6, pl. 1, fig. 3a.*

UT 59254. Hypotype.

Razorback Spur, half a mile E. of deserted township of Dundas, 6 miles E. of Zeehan; Hodge Slate.

Middle Cambrian.

Tas. Mus. (on loan to Univ. Tas. Geol. Dept. from Geol. Surv. Tas.).

PROTOTHALAECIUM HALLIANUM

Chapman & Thomas, 1936; Thomas & Henderson, 1945.

Protothalaecium hallianum Chapman & Thomas, 1936, p. 204, pl. 16, fig. 22.

Protothalaecium hallianum Chapman & Thomas, Thomas & Henderson, 1945, p. 7, pl. 1, fig. 4.*

UT 58255a, b. Hypotypes.

Razorback Spur, half a mile E. of deserted township of Dundas, 6 miles E. of Zeehan; Hodge Slate.

Middle Cambrian.

Tas. Mus. (on loan to Univ. Tas. Geol. Dept. from Geol. Surv. Tas.).

SPHENOECIUM FILICOIDES Chapman, 1917; Thomas & Henderson, 1945.

Sphenoecium filicoides Chapman, 1917, p. 92, pl. 4, fig. 1.

Sphenoecium filicoides Chapman, Thomas & Henderson, 1945, p. 7, pl. 1, fig. 5.*

UT 59253. Hypotype.

Razorback Spur, half a mile E. of deserted township of Dundas, 6 miles E. of Zeehan; Hodge Slate.

Middle Cambrian.

Tas. Mus. (on loan to Univ. Tas. Geol. Dept. from Geol. Surv. Tas.).

SPHENOECIUM sp., Thomas & Henderson 1945.

Sphenoecium sp., Thomas & Henderson, 1945, p. 7, fig. 3c.*

UT 59254. Figured specimen.

Razorback Spur, a mile E. of deserted township of Dundas, 6 miles E. of Zeehan; Hodge Slate.

Middle Cambrian.

Tas. Mus. (on loan to Univ. Tas. Geol. Dept. from Geol. Surv. Tas.).

GRAPTOLOIDEA

CACTOGRAPTUS FLEXISPINOSUS

Chapman & Thomas, 1936; Thomas & Henderson, 1945.

Cactograptus flexispinosus Chapman & Thomas, 1936, p. 207, pl. 1, figs. 29-33.

Cactograptus flexispinosus Chapman & Thomas, Thomas & Henderson 1945, p. 7, pl. 1, fig. 3.*

UT 59265. Hypotype.

Razorback Spur, half a mile E. of deserted township of Dundas, 6 miles E. of Zeehan; Hodge Slate.

Middle Cambrian.

Tas. Mus. (on loan to Univ. Tas. Geol. Dept. from Geol. Surv. Tas.).

ANTHOZOA

AULOPORA sp., Hill, 1955.

Aulopora sp., Hill, 1955, p. 251, pl. 2, fig. 34.*

UT 23538. Figured section.

King Mine, Zeehan, core 13, sample 145 (530 feet 6 inches).

Age unknown.

Tas. Mus.

BILLINGSARIA ?BANKSI Hill, 1955.

Billingsaria banksi Hill, 1955, p. 246,
pl. 3, fig. 40.

Billingsaria ?banksi Hill, 1955, p. 246,
pl. 1, fig. 2.*

UT 23532. Figured section, transverse.

Oceana Mine, Zeehan, Core 2, sample 3
(47 ft. to 48 ft.); Gordon Limestone.

Ordovician.

Tas. Mus.

EOFLETCHERIA CONTIGUA Hill, 1955.

Eofletcheria contigua Hill, 1955, p. 251,
pl. 1, figs. 6,* 7.

UT 23527. **Holotype.**

Oceana Mine, Zeehan, core 2, sample 12,
believed to be from level about 92 ft.
6 in.; Gordon Limestone.

UT 23533. Figured section, transverse.

Locality as above but from 89 ft.

Ordovician.

Tas. Mus.

FAVOSITES? BRYANI Jones, 1937; Hill,
1942.

Favosites bryani Jones, 1937, p. 96, pl.
15, figs. 3-6.

Favosites? bryani Jones, Hill, 1942
(1941), p. 8, pl. 2, fig. 6.*

UT 59327. Figured section.

Point Hibbs; Point Hibbs Limestone.

Lower to Middle Devonian.

Tas. Mus. (on loan to Univ. Tas. Geol.
Dept. from Geol. Surv. Tas.).

FAVOSITES ?GOLDFUSSI d'Orbigny, 1850;
Hill, 1942.

Favosites goldfussi d'Orbigny, 1850.

Favosites ?goldfussi d'Orb., Hill, 1942
(1941), p. 9, pl. 2, fig. 7.*

UT 59341. Figured section.

Point Hibbs; Point Hibbs Limestone.

Lower to Middle Devonian.

Tas. Mus. (on loan to Univ. Tas. Geol.
Dept. from Geol. Surv. Tas.).

HELIOPHYLLUM ?CHILLAGOENSE
(Etheridge), 1911; Hill, 1942.

Cyathophyllum chillagoensis Etheridge
Jnr, 1911, p. 4, pl. D, figs. 1, 2.

Heliophyllum ?chillagoense (Etheridge
Jnr), Hill, 1942 (1941), p. 6, pl. 2,
figs. 3a,* b.*

UT 59325 (fig. 3a), UT 59326 (fig. 3b)
Figured sections.

Point Hibbs; Point Hibbs Limestone.

Lower to Middle Devonian

Tas. Mus. (on loan to Univ. Tas. Geol.
Dept. from Geol. Surv. Tas.).

LICHENARIA RAMOSA Hill, 1955.

Lichenaria ramosa Hill, 1955, p. 241, pl.
1, figs. 14,* 15; pl. 3, fig. 37.

UT 23503. **Holotype.**

Oceana Mine, Zeehan, core 2, sample 85
(875 ft. 6 in.); Gordon Limestone.

UT 23504d. Figured section.

Locality as above, but sample 56 (578 ft.
to 579 feet).

Ordovician.

Tas. Mus.

LYOPORA cf. **FAVOSA** (McCoy), 1851; Hill,
1955.

Palaeopora favosa McCoy, 1851, p. 15,
pl. 1C, fig. C, 3a-d.

Lyopora cf. *favosa* (McCoy), Hill, 1955,
p. 248, pl. 1, figs. 5a,* b.*

UT 23537. Figured sections, *a.* trans-
verse; *b.* vertical.

Oceana Mine, Zeehan, Core 3, sample 6
(58 ft.-58 ft. 6 in.); Gordon Limestone.

Ordovician.

Tas. Mus.

NYCTOPORA ZEEHANENSIS Hill, 1955.

Nyctopora zeehanensis Hill, 1955, p. 247,
pl. 1, figs. 3a,* b.*

UT 23531. **Holotype**, *a.* transverse; *b.*
vertical.

Oceana Mine, Zeehan, core 2, sample 11
(91 ft.); Gordon Limestone.

Ordovician.

Tas. Mus.

?**NYCTOPORA** sp., Hill, 1955.

?*Nyctopora* sp., Hill, 1955, p. 247, pl. 1, figs. 4 a,* b.*

UT 23530. Figured sections, *a*, transverse; *b*, vertical.

Oceana Mine, Zeehan, Core 2, sample 14 (94 ft. 6 in.-95 ft.); Gordon Limestone.

Ordovician.

Tas. Mus.

TETRADIUM COMPACTUM, Hill, 1955.

Tetradium compactum, Hill, 1955, p. 244, pl. 1, fig. 12.*

UT 23517. **Holotype**, *a*, transverse; *b*, vertical.

Oceana Mine, Zeehan, core 2, sample 31 (251 ft.-252 ft.); Gordon Limestone.

Ordovician.

Tas. Mus.

TETRADIUM DENDROIDES Hill, 1955.

Tetradium dendroides Hill, 1955, p. 244, pl. 1, fig. 9;* pl. 2, figs. 16, 28.

UT 23519. Figured sections, transverse.

Oceana Mine, Zeehan, core 2, sample 27 (204 ft.); Gordon Limestone.

Ordovician.

Tas. Mus.

TETRADIUM PETALIFORME Hill, 1955.

Tetradium petaliforme, Hill, 1955, p. 242, pl. 1, figs. 10a,* b.*

UT 23513. **Holotype**, *a*, transverse; *b*, vertical.

Oceana Mine, Zeehan, core 2, sample 31 (251 ft.-252 ft.); Gordon Limestone.

Ordovician.

Tas. Mus.

TETRADIUM ?TASMANIENSE Chapman, 1919; Hill, 1955.

Tetradium tasmaniense Chapman, 1919, p. 8, figs. 1-3.

Tetradium ?tasmaniense Chapman, Hill, 1955, p. 243, pl. 1, fig. 11.*

UT 23516. Figured section.

Oceana Mine, Zeehan, core 2, sample 31 (251 ft.-252 ft.); Gordon Limestone.

Ordovician.

Tas. Mus.

TETRADIUM sp., Hill, 1955.

Tetradium sp., Hill, 1955, p. 245, pl. 1, figs. 13a,* b.*

UT 23522. Figured specimens, *a*, transverse; *b*, vertical.

Oceana Mine, Zeehan, core 2, sample 21, (169 ft. 6 in.-170 ft.); Gordon Limestone.

Ordovician.

Tas. Mus.

TRYPLASMA CERIOIDES Hill, 1955.

Tryplasma cerioides Hill, 1955, p. 240, pl. 1, figs. 1a,* b;* pl. 3, fig. 36.

UT 23502. Figured sections, *a* transverse; *b*, vertical.

Oceana Mine, Zeehan, core 2, sample 8, (62 ft. 6 in. to 63 ft.); Gordon Limestone.

Ordovician.

Tas. Mus.

BRYOZOA

AMPLEXOPORA QUEENSTOWNENSIS
Ross, 1961.

Amplexopora queenstownensis Ross, 1961, p. 37, pl. 4, fig. 4,* pl. 5, figs. 3, 5.

UT 24110-9 **Holotype.**

Ridge beside railway line near Oval, Queenstown; Gordon Limestone.

Middle-Upper Ordovician.

Tas. Mus.

BATOSTOMA sp. C., Ross, 1961.

Batostoma sp. C., Ross, 1961, p. 35, pl. 6,
fig. 1.*

UT 24796-2. Figured section, transverse.
Smelters Quarry, 2 miles S. of Zeehan;
Gordon Limestone.

Middle-Upper Ordovician.

Tas. Mus.

STICTOPORA ZEEHANENSIS Ross, 1961.

Stictopora zeehanensis Ross, 1961, p. 81,
pl. 24, figs. 1,* 3.*

UT 20334-1 Holotype (longitudinal section) (fig. 1).

UT 20334-6 Paratype (tangential section) (fig. 3).

Smelters Quarry, 2 miles S. of Zeehan;
Gordon Limestone.

Middle-Upper Ordovician.

Tas. Mus.

BRACHIOPODA.

SPIRIFERA AVICULA (Sowerby), 1844;
Morris, 1845b; Johnston, 1888.

Spirifer avicula Sowerby, 1844, p. 160.

Spirifer avicula Sowerby, Morris, 1845a,
p. 282, pl. 17, fig. 6.

Spirifera avicula (Sowerby), Johnston,
1888, pl. 12, fig. 3.*

Z 242 (B.1389). Hypotype.

Hobart.

Permian.

Tas. Mus.

Z 243 (B 1836) Hypotype.

Bridgewater.

Permian.

Tas. Mus.

SPIRIFERA CONVOLUTA Phillips, 1836;
Johnston, 1888.

Spirifera convoluta Phillips, 1836, p. 35,
pl. 5, figs. 9-15; p. 223, pl. 1, figs. 1, 2.

Spirifera convoluta Phillips, Johnston,
1888, pl. 12, fig. 5.*

Z 241 (B. 1387) Hypotype.

Oatlands.

Permian.

Tas. Mus.

SPIRIFERA STOKESII (König), 1825; Morris,
1845b; Johnston, 1888.

Trigonotreta Stokesii König, 1825, p. 3,
pl. 6, fig. 70.

Spirifer stokesii (König), Morris, 1845b,
p. 283, pl. 15, figs. 1, 1a.

Spirifera stokesii (König), Johnston, 1888,
pl. 13, fig. 2.*

Trigonotreta stokesii König, Brown, 1952,
p. 58, pl. 5, figs. 1-5.

SYNTROPHOPSIS KARMBERGI Brown,
1948.

Syntrophopsis karmbergi Brown, 1948,
p. 38, pl. 9, figs. 3a*-d.

UT 29319 a, b. Holotype.

June, on Tyena River; Florentine Valley
Mudstone.

Lower Ordovician.

Tas. Mus. (on permanent loan to Univ.
Tas. Geol. Dept. from Geol. Surv. Tas.).

TRIGONOTRETA STOKESII König, 1825;
Brown, 1952. See *Spirifera stokesii* (König)
Johnston, 1888.

TRITOECHIA LEWISI Brown, 1948.

Tritoechia lewisi Brown, 1948, p. 37, pl. 9,
figs. 1a-i.

UT 59321. Holotype (fig. 1d).

UT 59320. Figured specimen.

Wherret's Lookout, Currawong Gully,
June District; Florentine Valley Mud-
stone.

Lower Ordovician.

Tas. Mus. (on permanent loan to Univ.
Tas. Geol. Dept. from Geol. Surv. Tas.).

?TRITOECHIA CAREYI Brown, 1948.

?*Tritoechia careyi* Brown, 1948, p. 9, pl. 19, figs. 2a-f.

UT 59323. Holotype (fig. 2e).

UT 59322, 59324. Figured specimen.

Trilobite Bed, Junee, on Tyena River;
Florentine Valley Mudstone.

Lower Ordovician.

Tas. Mus. (on permanent loan to Univ.
Tas. Geol. Dept. from Geol. Surv. Tas.).

BRACHIOPOD, gen. et sp. indet., Kobayashi, 1940a.

Brachiopod gen. et sp. indet., Kobayashi, 1940a, p. 67 (list), pl. 12, figs. 21, 20.

Z 155. Figured specimen.

Caroline Creek, near Latrobe; Caroline Creek Sandstone.

Lower Ordovician.

Tas. Mus.

PELECYPODA

CARDITA GRACILICOSTATA T. Woods, 1877; Tate, 1886.

Cardita gracilicostata T. Woods, 1877 (1876), p. 112.

Cardita gracilicostata T. Woods, Tate, 1886, p. 152, pl. 2, figs. 6, 8.

Venericardia gracilicostata (T. Woods), Chapman & Singleton, 1927, p. 118, pl. 9, figs. 20, 21.

Z 177 (B 34). ?Holotype (not figured).

Fossil Bluff, Wynyard; Table Cape Beds.

Oligocene or Lower Miocene.

Tas. Mus.

Z 199 (B 27). Holotype.

Fossil Bluff, Wynyard; Table Cape Beds.

Oligocene or Lower Miocene.

Tas. Mus.

CRASSATELLA OBLONGA T. Woods, 1876; Johnston, 1888.

Crassatella oblonga T. Woods, 1876 (1875), p. 25, fig. 11.*

Crassatella oblonga T. Woods, Johnston, 1888, pl. 29, figs. 1, 2.

Z 174. Holotype.

Fossil Bluff, Wynyard; Table Cape Beds.

Oligocene or Lower Miocene.

Tas. Mus.

CARDIOMORPHA GRYPHOIDES de Koninck 1877; Johnston, 1888.

Cardiomorpha gryphoides de Koninck, 1877.

Cardiomorpha gryphoides de Koninck, Johnston, 1888, pl. 15, fig. 1.*

Z 238. Hypotype.

Latrobe.

Lower Permian.

Tas. Mus.

CUCULLAEA CAINOZOICA T. Woods, 1877.

Cucullaea cainozoica T. Woods, 1877 (1876), p. 11.

Pectunculus cainozoica (T. Woods), Tate, 1886, p. 136, pl. 10, figs. 8a,* b.

Pectunculus cainozoica (T. Woods), Johnston, 1888, pl. 31, figs. 13, 13a, b.

Glycymeris cainozoica (T. Woods), Chapman & Singleton, 1925, p. 20, pl. 1, figs. 1a, b; 2a, b; 3, 4.

Z 204 A. Holotype.

Z 204 B. Paratype.

Fossil Bluff, Wynyard; Table Cape Beds.

Oligocene or Lower Miocene.

Tas. Mus.

CRASSATELLA APHRODINA T. Woods, 1876; Johnston, 1888.

Crassatella aphrodina T. Woods, 1876 (1875), p. 24, fig. 12.*

Crassatella aphrodina T. Woods, Johnston, p. 29, fig. 2.

GLYCYMERIS CAINOZOICA (T. Woods), 1877; Chapman & Singleton, 1925. See *Cucullaea cainozoica* T. Woods, 1877.

INOCERAMUS ELEGANTULA Johnston, 1887; Johnston, 1888 = **INGELARELLA ELEGANTULA** (M. R. Banks).

Inoceramus elegantula Johnston, 1887.

Inoceramus elegantula Johnston, Johnston, 1888, pl. 15, fig. 13.*

B 743. ?Holotype.

Porters Hill, Hobart.

Lower Permian.

Tas. Mus.

LEDA CREBREPOSTATA T. Woods, 1877; Tate, 1885.

Leda crebrepostata T. Woods, 1877, p. 112.

Leda crebrepostata T. Woods, 1877, p. 113, pl. 5, figs. 5a, b.

Z 178 (B 32). ?Holotype.

Fossil Bluff, Wynyard; Table Cape Beds.

Oligocene or Lower Miocene.

Tas. Mus.

LYONSIA AGNEWI T. Woods, 1876. See *Panopaea agnewi* Johnston, 1888.

NOTOMYA TRIGONALIS, Johnston, 1887; Johnston, 1888.

Notomya trigonalis Johnston, 1887, p. 14.

Notomya trigonalis Johnston, Johnston, 1888, pl. 19, fig. 2.*

Z 239. Holotype.

Deloraine.

Lower Permian.

Tas. Mus.

NUCULANA RHOMBOIDEA May, 1922.

Nuculana rhomboidea May, 1922 (1921), p. 12, pl. 4, fig. 9.*

Z 182. Holotype.

Fossil Bluff, Wynyard; Table Cape Beds.

Oligocene or Lower Miocene.

Tas. Mus.

PACHYDOMUS HOBARTENSIS Johnston, 1887; Johnston, 1888.

Pachydomus Hobartensis Johnston, 1887, p. 16.

Pachydomus Hobartensis Johnston, 1888, pl. 16, fig. 2.*

B 736. ?Holotype.

Huon Road, Hobart.

Lower Permian.

Tas. Mus.

PANOPAEA AGNEWI (T. Woods) 1876; Johnston, 1888. **LYONSIA AGNEWI** T. Woods, 1876.

Lyonsia Agnewi, T. Woods, 1876 (1875), pl. 1, fig. 13.*

Panopaea Agnewi (T. Woods), Johnston, 1888, pl. 29, fig. 3.

Z 190. Holotype.

Fossil Bluff, Wynyard; Table Cape Beds.

Oligocene or Lower Miocene.

Tas. Mus.

PECTUNCULUS CAINOZOICA (T. Woods), 1877; Johnston, 1888; Tate, 1886; see *Cucullaea cainozoica* T. Woods, 1877.

SOLECURTUS LEGRANDI T. Woods, 1876; Johnston, 1888.

Solecortus Legrandi T. Woods, 1876, p. 25, fig. 14.*

Solecortus Legrandi T. Woods, Johnston, 1888, pl. 23, fig. 18.

Z 176. Holotype.

Fossil Bluff, Wynyard; Table Cape Beds.

Oligocene or Lower Miocene.

Tas. Mus.

VENERICARDIA GRACILICOSTATA (T. Woods), Chapman & Singleton, 1927. See *Cardita gracilicostata* T. Woods, 1877; Tate, 1886.

GASTROPODA

ACTAEON SCROBRICULATUS T. Woods, 1877.

Actaeon scrobiculatus T. Woods, 1877 (1876), p. 102.

Z 211 (B 47). ?Holotype (not figured).
Fossil Bluff, Wynyard; Table Cape Beds.
Oligocene or Lower Miocene.
Tas. Mus.

ASTRALIUM (CALCAR) ORNATISSIMUM T. Woods, 1877.

Astraliium (Calcar) ornatissimum T. Woods, 1887 (1876), p. 96.

Z 194 (B 43). ?Holotype (not figured).
Fossil Bluff, Wynyard; Table Cape Beds.
Oligocene or Lower Miocene.
Tas. Mus.

CASSIS SUFFLATUS T. Woods, 1877.

Cassis sufflatus T. Woods, 1877 (1876), p. 94.

Z 201. ?Holotype (not figured).
Fossil Bluff, Wynyard; Table Cape Beds.
Oligocene or Lower Miocene.
Tas. Mus.

COMINELLA CANCELLATA T. Woods, 1877.

Cominella cancellata T. Woods, 1877, p. 107.

Z 192 (B 30). ?Holotype (not figured).
Fossil Bluff, Wynyard; Table Cape Beds.
Oligocene or Lower Miocene.
Tas. Mus.

COMINELLA LYRAECOSTATA T. Woods, 1877.

Cominella lyraecostatus T. Woods, 1877, p. 108.

Phos lyraecostatus (T. Woods), Tate, 1888, p. 167, pl. 11, fig. 12.

Z 203 (B 39). ?Holotype (not figured).
Fossil Bluff, Wynyard; Table Cape Beds.
Oligocene or Lower Miocene.
Tas. Mus.

CREPIDULA HAINSWORTHII Johnston, 1885e; 1888.

Crepidula hainsworthii Johnston, 1885e, p. 33, figs. a*-c*.

Crepidula hainsworthii Johnston, Johnston, 1888, pl. 32, figs. 13, 13a, b.

Z 165. Holotype.

Fossil Bluff, Wynyard; Table Cape Beds.
Oligocene or Lower Miocene.
Tas. Mus.

CREPIDULA UMBILICATA Johnston, 1885e, 1888; Tate, 1893.

Crepidula umbilicata Johnston 1885e, p. 232.

Crepidula umbilicata Johnston, Johnston, 1888, pl. 32, figs. 10*, 10a.*

Crepidula umbilicata Johnston, Tate, 1893, p. 333.

Z 170. Holotype.

Fossil Bluff, Wynyard; Table Cape Beds.
Oligocene or Lower Miocene.
Tas. Mus.

CRYPTOLITES sp., Kobayashi, 1940.

Cryptolites sp., Kobayashi, 1940a, p. 68, pl. 12, fig. 22.*

Z 141a. Figured specimen.

Caroline Creek near Latrobe, Mersey River District; Caroline Creek Sandstone.

Lower Ordovician.

Tas. Mus.

DAPHNELLA GRACILLIMA T. Woods, 1877.

Daphnella gracillima T. Woods, 1877, p. 106.

Z 207. ?Holotype (not figured).

Fossil Bluff, Wynyard; Table Cape Beds.
Oligocene or Lower Miocene.
Tas. Mus.

FUSUS JOHNSTONI T. Woods, 1877; Tate, 1888; Johnston, 1888.

Fusus Johnstoni T. Woods, 1877; p. 94.

Fusus Johnstoni T. Woods, Tate, 1888, p. 136, pl. 12, figs. 4a, b.

Fusus Johnstoni T. Woods, Johnston, 1888, pl. 29, fig. 9.

Z 173. ?Holotype (not figured).

Fossil Bluff, Wynyard; Table Cape Beds.

Oligocene or Lower Miocene.

Tas. Mus.

FUSUS TRANSENNA T. Woods, 1877.

Fusus transenna T. Woods, 1877, p. 94.

Peristernia transenna (T. Woods), Tate, 1888, p. 157, pl. 11, fig. 10.

Z 172. ?Holotype (not figured).

Fossil Bluff, Wynyard; Table Cape Beds.

Oligocene or Lower Miocene.

Tas. Mus.

GIBBULA CRASSIGRANOSA T. Woods, 1877.

Gibbula crassigranosa T. Woods, 1887, p. 98.

Z 185 (B 24). ?Holotype (not figured).

Fossil Bluff, Wynyard; Table Cape Beds.

Oligocene or Lower Miocene.

Tas. Mus.

HAURAKIA CRASSICOSTA May, 1922.

Haurakia crassicosta May, 1922, p. 11, pl. 4, fig. 6.*

Z 158. Holotype.

Fossil Bluff, Wynyard; Table Cape Beds.

Oligocene or Lower Miocene.

Tas. Mus.

IMPERATOR HUDSONIANA Johnston MS. 1888.

Imperator Hudsoniana Johnston MS. 1888, pl. 29, figs. 12, 12a.

Z 167. Figured specimen.

Fossil Bluff, Wynyard; Table Cape Beds.

Oligocene or Lower Miocene.

Tas. Mus.

LECANOSPIRA TASMANENSIS Kobayashi, 1940.

Lecanospira tasmanensis Kobayashi, 1940, p. 63, pl. 11, fig. 11.*

Z 152. Holotype.

2 miles W. of June Railway Stn., in western of two railway cuttings; Florentine Valley Mudstone.

Lower Ordovician.

Tas. Mus.

MACLURITES FLORENTINENSIS Banks & Johnson, 1957.

Maclurites florentinensis Banks & Johnson, 1957, p. 653, pl. 74, figs. 1,* 2, 4, 5, 10.

UT 21718. Holotype.

Benjamin, Florentine Valley near Maydena; Gordon Limestone.

UT 25707, 25708, 25033. Paratypes.

Cashions Creek, Florentine Valley near Maydena; Gordon Limestone.

Ordovician.

Tas. Mus.

MACLURITES sp., Banks & Johnson, 1957.

Maclurites sp., Banks & Johnson, 1957, p. 639, pl. 74, figs. 6, 8, 9.

UT 26911, 25311, 25910. Figured specimens.

Goliath Cement Co. Quarry, Railton; Gordon Limestone.

Ordovician.

Tas. Mus.

MARGINELLA ALTISPIRA May, 1922.

Marginella altispira May, 1922, p. 9, pl. 4, fig. 1.*

Z 162. Holotype.

Fossil Bluff, Wynyard; Table Cape Beds.

Oligocene or Lower Miocene.

Tas. Mus.

MARGINELLA ATKINSONI May, 1922.

Marginella atkinsoni May, 1922, p. 9, pl. 4, fig. 2.*

Z 159. Holotype.

Fossil Bluff, Wynyard; Table Cape Beds.

Oligocene or Lower Miocene.

Tas. Mus.

MARGINELLA CORPULENTA May, 1922.

Marginella corpulenta May, 1922, p. 9, pl. 4, fig. 2.*

Z 160. Holotype.

Fossil Bluff, Wynyard; Table Cape Beds.

Oligocene or Lower Miocene.

Tas. Mus.

MARGINELLA SUBQUINQUIDENS May, 1922.

Marginella subquinquidens May, 1922, p. 10, pl. 4, fig. 3.*

Z 161. Holotype.

Fossil Bluff, Wynyard; Table Cape Beds.

Oligocene or Lower Miocene.

Tas. Mus.

NATICA POLITA T. Woods, 1876.

Natica polita T. Woods, 1876, p. 23, fig. 4.*

Z 206 (B 45). ?Holotype.

Fossil Bluff, Wynyard; Table Cape Beds.

Oligocene or Lower Miocene.

Tas. Mus.

PERISTERIA TRANSENNA (T. Woods), 1887; Tate, 1888. See **Fusus transenna** T. Woods, 1877.

PHOS LIRAECOSTATUS (T. Woods), 1877; Tate, 1888. See **Cominella lyraecostata** T. Woods, 1877.

PILEOPSIS NAVICELLOIDES Johnston, 1880.

Pileopsis navicelloides Johnston, 1880, p. 39.

Z 166. ?Holotype (not figured).

Fossil Bluff, Wynyard; Table Cape Beds.

Oligocene or Lower Miocene.

Tas. Mus.

RISSOINA JOHNSTONI T. Woods, 1877.

Rissoina johnstoni T. Woods, 1877, p. 101.

Z 180. ?Holotype (not figured).

Fossil Bluff, Wynyard; Table Cape Beds.

Oligocene or Lower Miocene.

Tas. Mus.

SCALITES SALTERI Johnston MS., 1888.

Scalites salteri Johnston MS., 1888, pl. 5, fig. 2.

B 852. Figured specimen.

Gordon River; Gordon Limestone.

Ordovician.

Tas. Mus.

TEREBRA ADDITOIDES T. Woods, 1877; Tate, 1888.

Terebra additoides T. Woods, 1877 (1876), p. 95.

Terebra additoides T. Woods, Tate, 1888, p. 163.

Z 179 (B 52). ?Holotype (not figured).

Fossil Bluff, Wynyard; Table Cape Beds.

Oligocene or Lower Miocene.

Tas. Mus.

THALOTIA ALTERNATA T. Woods, 1877.

Thalotia alternata T. Woods, 1877, p. 97.

Z 168. ?Holotype (not figured).

Fossil Bluff, Wynyard; Table Cape Beds.

Oligocene or Lower Miocene.

Tas. Mus.

TRITON ABBOTTI T. Woods, 1875; Tate, 1888; Johnston, 1888.

Triton Abbottii T. Woods, 1875, p. 24, pl. 1, fig. 8.*

Triton Abbotti T. Woods, Tate, 1888, p. 117.

Triton Abbotti T. Woods, Johnston, 1888, pl. 29, fig. 13.

Z 188 (B 22). Holotype.

Fossil Bluff, Wynyard; Table Cape Beds.

Oligocene or Lower Miocene.

Tas. Mus.

TRITON MINIMUM T. Woods, 1877.

Triton minimum T. Woods, 1877, p. 107.

Z 189 (B 41). ?Holotype (not figured).

Fossil Bluff, Wynyard; Table Cape Beds.

Oligocene or Lower Miocene.

Tas. Mus.

TURBO ETHERIDGEI T. Woods, 1877.

Turbo etheridgei T. Woods, 1877, p. 98.

Z 202. ?Holotype (not figured).

Fossil Bluff, Wynyard; Table Cape Beds.

Oligocene or Lower Miocene.

Tas. Mus.

TURBONILLA LIRAECOSTATA T. Woods, 1877.

Turbonilla liraecostata T. Woods, 1877, p. 101.

Z 210. ?Holotype (not figured).

Fossil Bluff, Wynyard; Table Cape Beds.

Oligocene or Lower Miocene.

Tas. Mus.

TURRIS CONSPICUA May, 1922.

Turris conspicua May, 1922, p. 11, pl. 4, fig. 7.*

Z 157. Holotype.

Fossil Bluff, Wynyard; Table Cape Beds.

Oligocene or Lower Miocene.

Tas. Mus.

TYPHIS McCOYI T. Woods, 1875; Tate, 1888; Johnston, 1888.

Typhis McCoyi T. Woods, 1875, p. 22, pl. 1, fig. 5.*

Typhis McCoyi T. Woods, Tate, 1888, p. 91.

Typhis McCoyi T. Woods, Johnston, 1888, pl. 29, fig. 11.

Z 196 (B 40). Holotype.

Fossil Bluff, Wynyard; Table Cape Beds.

Oligocene or Lower Miocene.

Tas. Mus.

VOLUTA PELLITA Johnston, 1880, 1888.

Voluta pellita Johnston, 1880, p. 36.

Voluta pellita Johnston, Johnston, 1888, p. 30, fig. 2.*

Z 156. Holotype.

Fossil Bluff, Wynyard; Table Cape Beds.

Oligocene or Lower Miocene.

Tas. Mus.

VOLUTA STEPHENSI Johnston, 1880, 1888; Tate, 1889.

Voluta stephensi Johnston, 1880, p. 35.

Voluta stephensi Johnston, 1888, pl. 30, fig. 1.*

Z 183. Holotype.

Fossil Bluff, Wynyard; Table Cape Beds.

Oligocene or Lower Miocene.

Tas. Mus.

VOLUTA STOLIDA Johnston, 1880; 1888.

Voluta stolidi Johnston, 1880, p. 36.

Voluta stolidi Johnston, Johnston, 1888, pl. 30, figs. 4*, 4a*.

Z 186. Holotype.

Fossil Bluff, Wynyard; Table Cape Beds.

Oligocene or Lower Miocene.

Tas. Mus.

VOLUTA TATEANA Johnston, 1880; 1888.

Voluta tateana Johnston, 1880, p. 37.

Voluta tateana Johnston, Johnston, 1888, pl. 30, figs. 3*, 3a*.

Z 187. Holotype.

Fossil Bluff, Wynyard; Table Cape Beds.

Oligocene or Lower Miocene.

Tas. Mus.

VOLUTA WELDII T. Woods, 1876; Johnston, 1888; Tate, 1889.

Voluta weldii T. Woods, 1876, p. 24, pl. 1, fig. 2.*

Voluta weldii T. Woods, Johnston, 1888, pl. 30, figs. 6, 6b.

Voluta weldii T. Woods, Tate, 1889, p. 134.

Z 191 (B 53). Holotype.

Fossil Bluff, Wynyard; Table Cape Beds.

Oligocene or Lower Miocene.

Tas. Mus.

BELLEROPHONTIDS, OTHER GASTROPODA, GIRVANELLA AND SPONGES.

Banks & Johnson, 1957.

Bellerophontids, other gastropoda, *Girvanella* and Sponges, Banks & Johnson, 1957, pl. 74, fig. 7.

UT 26912. Figured specimen.

Florentine Valley near Maydena; Gordon Limestone.

Ordovician.

Tas. Mus.

CEPHALOPODA

ALLOCOTOCERAS INSIGNE Teichert & Glenister, 1953.

Allocotoceras insigne Teichert & Glenister, 1953, p. 16, pl. 1, figs. 3*-5.*

UT 21281. Holotype.

Adamsfield; Gordon Limestone.

Lower Ordovician.

Tas. Mus.

ANASPYROCERAS sp., Teichert & Glenister, 1953.

Anaspyroceras sp., Teichert & Glenister, 1953, p. 35, pl. 3, figs. 5,* 6.*

Z 249 (B 850). Figured specimen.

Gordon River, exact locality unknown; Gordon Limestone.

Ordovician or Silurian.

Tas. Mus.

EPHIPPIORTHOCERAS DECORUM Teichert & Glenister, 1953.

Ephippiorthoceras decorum Teichert & Glenister, 1953, p. 40, pl. 3, figs. 7*-9*, pl. 4, fig. 9*.

Z 246 (B 804). Holotype.

Gordon River, exact locality unknown; Gordon Limestone.

Ordovician or Silurian.

Tas. Mus.

GASCONSOCERAS? INSPERATUM Teichert & Glenister, 1953.

Gasconsoceras? insperatum Teichert & Glenister, 1953, p. 48, pl. 6, figs. 1*-4.*

Z 245 (B 775). Holotype.

Gordon River, exact locality unknown; Gordon Limestone.

Ordovician or Silurian.

Tas. Mus.

GORDONOCERAS BONDI Teichert & Glenister, 1953.

Gordonoceras bondi Teichert & Glenister, 1953, p. 39, pl. 4, figs. 1*-3,* text fig. 2c.

Z 245 (B 805). Holotype.

Gordon River, exact locality unknown; Gordon Limestone.

Ordovician or Silurian.

Tas. Mus.

HECATOCERAS LONGINQUUM Teichert & Glenister, 1952, 1953.

Hecatoceras longinquum Teichert & Glenister, 1952, p. 740, pl. 104, fig. 10;* pl. 105, fig. 7.*

Hecatoceras longinquum Teichert & Glenister, Teichert & Glenister, 1953, p. 43, pl. 6, fig. 11, text fig. 38.

UT 20826. Holotype.

Mystery Creek Quarry, Ida Bay; Gordon Limestone

Ordovician.

Tas. Mus.

MANCHUROCERAS STEANEI Teichert, 1947; Teichert & Glenister, 1953.

Manchuroceras steanei Teichert, 1947, p. 426, pl. 57, figs. 6*-7*-8,* 12.

- Manchuroceras steanei* Teichert, Teichert & Glenister, 1953, p. 13, pl. 1, figs. 1, 2.
- UT 59335. Holotype.**
- UT 59336. Paratype.**
- UT 20514. Hypotype** (figured 1953, pl. 1, figs. 1, 2).
- Adams Creek, about 1 mile E. of Adamsfield; Gordon Limestone.
- Lower Ordovician.**
- Tas. Mus. (Holotype and Paratype on loan Univ. Tas. Geol. Dept. from Geol. Surv. Tas.).
- MANCHUROCERAS EXCAVATUM** Teichert, 1947.
- Manchuroceras excavatum* Teichert, 1947, p. 427, pl. 58, figs. 1*-3.*
- UT 59337. Holotype.**
- Adams Creek, about 1 mile W. of Adamsfield; Gordon Limestone.
- Lower Ordovician.**
- Tas. Mus. (on loan to Univ. Tas. Geol. Dept. from Geol. Surv. Tas.).
- MYSTERIOCERAS AUSTRALE** Teichert & Glenister, 1953.
- Mystrioceras australe* Teichert & Glenister, 1953, p. 34, pl. 3, figs. 10*, 11,* text fig. 2A.
- UT 20883a. Holotype** (fig. 10).
- UT 20883b. Paratype** (section) (fig. 11).
- Mystery Creek Caves, Ida Bay; Gordon Limestone.
- Ordovician.**
- Tas. Mus.
- NYBYOCERAS MULTICUBICULATUM** Teichert & Glenister, 1953.
- Nybyoceras multicubiculatum* Teichert & Glenister, 1953, p. 20, pl. 2, figs. 1*-3.*
- QVM 9. Holotype** (fig. 1).
- QVM 10. Paratype** (figs. 2, 3).
- Blenkhorn's Limestone Quarry, Railton; Gordon Limestone.
- Ordovician.**
- Queen Vict. Mus.
- NYBYOCERAS PAUCICUBICULATUM** Teichert & Glenister, 1953.
- Nybyoceras paucicubiculatum* Teichert & Glenister, 1953, p. 19, pl. 1, figs. 6,* 7, 9.*
- QVM 11. Holotype.**
- QVM 12. Paratype.**
- Blenkhorn's Limestone Quarry, Railton; Gordon Limestone.
- Ordovician.**
- Queen Vict. Mus.
- ORMOCERAS JOHNSTONI** Teichert & Glenister, 1953.
- Ormoceras johnstoni* Teichert & Glenister, 1953, p. 27, pl. 1, fig. 8;* pl. 2, fig. 5.*
- QVM 8. Holotype.**
- King Extended Hill, Zeehan.
- Upper Ordovician.**
- Queen Vict. Mus.
- ORTHONYBYOCERAS TASMANIENSE** Teichert & Glenister, 1953.
- Orthonybyoceras tasmaniense* Teichert & Glenister, 1953, p. 20, pl. 2, fig. 4.*
- UT 21146. Holotype.**
- June Caves, Maydena; Gordon Limestone.
- Ordovician.**
- Tas. Mus.
- PILOCERAS TASMANIENSE** Teichert, 1947.
- Piloceras tasmaniense* Teichert, 1947, p. 423, pl. 58, figs. 9*-11*.
- UT 59338. Holotype.**
- Adams Creek, 1 mile W. of Adamsfield; Gordon Limestone.
- Lower Ordovician.**
- Tas. Mus. (on loan Univ. Tas. Geol. Dept. from Geol. Surv. Tas.).
- STROMATOCERAS EXIMIUM** Teichert & Glenister, 1953.
- Stromatoceras eximium* Teichert & Glenister, 1953, p. 37, pl. 5, figs. 1-3,* text fig. 2B.

Z 244 (B 774). Holotype.

Gordon River, exact locality unknown;
?Gordon Limestone.

Ordovician or Silurian.

Tas. Mus.

SUECOCERAS ROBUSTUM Teichert, 1947.

Suecoceras robustum Teichert, 1947, p.
422, pl. 58, figs. 4,* 5.*

UT 59339. Holotype.

Adams Creek, about 1 mile W. of Adams-
field; Gordon Limestone.

Lower Ordovician.

Tas. Mus. (on loan Univ. Tas. Geol. Dept.
from Geol. Surv. Tas.).

TASMANOCERAS ZEEHANENSE Teichert
& Glenister, 1952, 1953.

Tasmanoceras zeehanense Teichert &
Glenister, 1952, p. 739, pl. 104, figs.
3-9.

Tasmanoceras zeehanense Teichert &
Glenister, Teichert & Glenister, 1953,
p. 16, pl. 4, figs. 4,* 5.*

Z 248 (B 845). Paratype.

Gordon River, exact locality unknown;
?Gordon Limestone.

Ordovician or Silurian.

Tas. Mus.

TROCHOLITOCERAS IDAENSE Teichert &
Glenister, 1953.

Trocholitoceras idaense, Teichert &
Glenister, 1953, p. 47, pl. 5, figs. 4*-6*.

UT 20883. Holotype.

Mystery Creek Caves, Ida Bay; Gordon
Limestone.

Ordovician.

Tas. Mus.

UTCERAS sp., Teichert, 1947.

Utoceras sp., Teichert, 1947, p. 427, pl.
58, figs. 13-15.

UT 59340. Figured specimen.

Adams Creek, about 1 mile W. of Adams-
field; Gordon Limestone.

Lower Ordovician.

Tas. Mus. (on loan Univ. Tas. Geol. Dept.
from Geol. Surv. Tas.).

TRILOBITA

ASAPHOPSIS GRACICOSTATUS Kobayashi,
1940.

Asaphopsis gracicostatus Kobayashi, 1940,
p. 65, pl. 1, fig. 10.*

Z 138. Holotype.

2 miles W. of Junee Railway Stn. in
western of two cuttings; Florentine
Valley Mudstone.

Lower Ordovician.

Tas. Mus.

ASAPHOPSIS JUNEENSIS Kobayashi, 1940.

Asaphopsis juneensis Kobayashi, 1940,
p. 64, pl. 11, figs. 6,* 7, 8, 9.

Z 137. Holotype.

Z 135, Z 136, Z 139. Paratypes.

2 miles W. of Junee Railway Stn., in
western of two cuttings; Florentine
Valley Mudstone.

Lower Ordovician.

Tas. Mus.

ASAPHELLUS LEWISI Kobayashi, 1940a.

Asaphellus lewisi Kobayashi, 1940a, p.
74, pl. 12, figs. 16,* 19.

Z 133. Holotype.

Z 134. Paratype.

Caroline Creek, near Latrobe, Mersey
River district; Caroline Creek Sand-
stone.

Lower Ordovician.

Tas. Mus.

?ASAPHELLUS LEWISI Kobayashi, 1940a.

Asaphus sp., Etheridge, 1883, p. 156, pl. 1, fig. 6.

?*Asaphellus lewisi* Kobayashi, 1940a, p. 74, pl. 12, figs. 17(?), 18.

Z 132. Figured specimen.

Caroline Creek, near Latrobe, Mersey River district; Caroline Creek Sandstone.

Lower Ordovician.

Tas. Mus.

CAROLINITES BULBOSA Kobayashi, 1940a.

Carolinites bulbosa Kobayashi, 1940a, p. 70, pl. 12, figs. 6,* 7.

Z 141. **Holotype.**

Caroline Creek, near Latrobe, Mersey River district; Caroline Creek Sandstone.

Lower Ordovician.

Tas. Mus.

CAROLINITES QUADRATA Kobayashi, 1940a.

Carolinites quadrata Kobayashi, 1940a, p. 70, pl. 12, figs. 8,* 9.*

Z 142. **Holotype.**

Caroline Creek, near Latrobe, Mersey River district; Caroline Creek Sandstone.

Lower Ordovician.

Tas. Mus.

ETHERIDGASPIS CAROLINENSIS (Etheridge Jnr), 1919; Kobayashi, 1940a.

Conocephalites sp. Etheridge Jnr, 1883, p. 156, 162, p. 1, figs. 8, 9.

Ptychoparia (?) *carolinensis* Etheridge Jnr, 1919, p. 361.

Etheridgaspis carolinensis (Etheridge Jnr), Kobayashi, 1940a, p. 71, pl. 12, figs. 10,* 11.*

Z 144, Z 145. Hypotypes.

Caroline Creek near Latrobe, Mersey River District; Caroline Creek Sandstone.

Lower Ordovician.

Tas. Mus.

ETHERIDGASPIS JOHNSTONI (Etheridge Jnr), 1883; Kobayashi, 1940a.

Loganella (?) or *Conocephalus* (?) Etheridge Jnr, 1883, p. 157, 162, pl. 1, fig. 10.

Ptychoparia (?) *johnstoni* Etheridge Jnr, Etheridge Jnr, 1919, p. 392.

Etheridgaspis johnstoni (Etheridge Jnr), Kobayashi, 1940a, p. 72, pl. 12, figs. 12*-14*.

Z 143, Z 146. Hypotypes.

Caroline Creek near Latrobe, Mersey River District; Caroline Creek Sandstone.

Lower Ordovician.

Tas. Mus.

ORUSIA? sp., Kobayashi, 1940.

Orusia? sp., Kobayashi, 1940, p. 61. pl. 9, figs. 1, 2.

Z 154. Figured specimen.

2 miles W. of June in western of two railway cuttings; Florentine Valley Mudstone.

Ordovician.

Tas. Mus.

PROSOPISCUS (?) SUBQUADRATUS Kobayashi, 1940a.

Prosopiscus (?) *subquadratus* Kobayashi, 1940a, p. 70, pl. 12, fig. 5.*

Z 147. **Holotype.**

Caroline Creek near Latrobe, Mersey River District; Caroline Creek Sandstone.

Lower Ordovician.

Tas. Mus.

TASMANASPIS LEWISI Kobayashi, 1940.
Tasmanaspis lewisi Kobayashi, 1940, p.
65, pl. 11, figs. 3,* 4.*

Z 151. Holotype.

2 miles W. of Junee Railway Stn., in
western of two railway cuttings;
Florentine Valley Mudstone.

Lower Ordovician.

Tas. Mus.

TASMANASPIS LONGUS Kobayashi, 1940.
Tasmanaspis longus Kobayashi, 1940, p.
66, pl. 11, fig. 5.*

Z 150. Holotype.

2 miles W. of Junee Railway Stn., in
western of two railway cuttings;
Florentine Valley Mudstone.

Lower Ordovician.

Tas. Mus.

TASMANOCEPHALUS STEPHENSI
(Etheridge Jnr), 1883; Kobayashi, 1940a.

Conocephalites (?) *stephensi* Etheridge,
1883, p. 153, pl. 1, figs. 1-3.

Conocephalus stephensi (Etheridge),
Johnston, 1888, pl. 1, figs. 3, 4, 14.

Tasmanocephalus stephensi (Etheridge
Jnr), Kobayashi, 1940a, p. 69, pl. 12,
figs. 1*-4*.

Z 147, Z 148, Z 149. Hypotypes.

Caroline Creek near Latrobe, Mersey
River District; Caroline Creek Sand-
stone.

Lower Ordovician.

Tas. Mus.

ARTHROPODA

"TASMANADIA TWELVETREESI Chap-
man", 1928; Glaessner, 1957.

Tasmanadia twelvetreesi Chapman, 1928,
p. 5, pl. 1.*

Tasmanadia twelvetreesi Chapman.
Glaessner, 1957, p. 103, pl. 11, fig. 4.

UT 59257. Holotype.

Kirkup's Quarry, Arthur River.

Cambrian.

Tas. Mus. (on loan to Univ. Tas. Geol.
Dept. from Geol. Surv. Tas.).

NOTE: Chapman (1928) attributed these
markings to worms. Glaessner (1957) con-
siders them to be referable to arthropod trails.

INSECTA

TRIASSOBLATTA TASMANICA Riek, 1962
Triassoblatta tasmanica Riek, 1962, p. 39,
fig. 1.*

UT 55138, 55136. Holotype (counter-
parts).

Hobart Brick Co. Quarry, Forster and
Giblin Streets, New Town; New Town
Coal Measures.

Triassic.

Univ. Tas. Geol. Dept.

SCYTINOPTERIDAE gen. et sp. indet., Riek,
1962.

Scytinopteridae gen. et sp. indet., Riek,
1962, p. 40, fig. 2.

UT 55140. Figured specimen.

Hobart Brick Co. Quarry, Forster and
Giblin Streets, New Town; New Town
Coal Measures.

Triassic.

Univ. Tas. Geol. Dept.

PISCES

ACROLEPIS? HAMILTONI Johnston & Morton, 1890.

Acrolepis? Hamiltoni Johnston & Morton, 1890, p. 102, figs. 1,* 2.*

TM 2612. Holotype.

Knocklofty, Hobart.

Triassic.

Tas. Mus.

ACROLEPIS TASMANICUS Johnston & Morton, 1891.

Acrolepis tasmanicus Johnston & Morton, 1891, p. 152.

B 930, B 931. ?Holotype (counterparts) (not figured).

Tinderbox Bay.

Triassic.

Tas. Mus.

CETACEA

PROSQUALODON DAVIDI Flynn, 1932.

Squalodon remains, Flynn, 1920, p. 406, text fig. 12.

Prosqualodon davidi Flynn, 1932, p. 328.

No number. Holotype.

Fossil Bluff, Wynyard; Table Cape Beds.

Oligocene or Lower Miocene.

Zoology Dept. Univ. Tas.

SCAPTODON LODDERI Chapman, 1918.

Scaptodon lodderi Chapman, 1918, p. 150, pl. 27, figs. 1*-3*.

QVM 1. Holotype.

"Found washed up at Ulverston, N.W. Tas., after heavy gale."

?Miocene.

Queen Vict. Mus.

Remains of ?Ziphioid Whale, Scott, 1914.

Remains of ?Ziphioid Whale, Scott, 1914, p. 167, pls. 21, 22.

QVM 63 (pl. 21), QVM 64 (pl. 22).
Figured specimens.

Fossil Bluff, Wynyard; Table Cape Beds.

Oligocene or Lower Miocene.

Queen Vict. Mus.

MARSUPALIA

WYNYARDIA BASSIANA Spencer, 1900; Jones, 1931.

Wynyardia bassiana Spencer, 1900, p. 778, pl. 49, figs. 1-4; pl. 50, figs. 5-11.

Wynyardia bassiana Spencer, Jones, 1931, p. 96, pl. 5, figs. A, B; text figs. 1, 3, 5, 6, 7A, 9A, 10A.

Wynyardia bassiana Spencer, Gill, 1954, p. 69.

Z 237. Holotype.

Fossil Bluff, Wynyard; Table Cape Beds.

Oligocene or Lower Miocene.

Tas. Mus.

The following fossil described by Johnston (1885) as a plant is regarded by M. R. Banks as the jaw of an Amphibian:

LEPIDOSTROBUS MUELLERI Johnston, 1885.

Lepidostrobos Muelleri Johnston 1885, p. 225, fig. 1.*

B 1361. Holotype.

Campania.

Triassic.

Tas. Mus.

The following specimen described by Scott (1931) as a plant is now regarded as a limonitic concretion:

CYCADITES DOWLINGI Scott, 1931.

Cycadites dowlingi Scott, 1931, p. 90, pl. 1, figs. 1, 2; pl. 2, figs. 3, 4; pl. 3, figs. 5, 6.

Queen Vict. Mus.

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