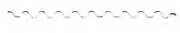




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A CATALOGUE  
OF  
LIBRARY  
AUSTRALIAN FOSSILS

(INCLUDING TASMANIA AND THE ISLAND OF TIMOR)

STRATIGRAPHICALLY AND ZOOLOGICALLY  
ARRANGED.

BY

ROBERT ETHERIDGE, JUN., F.G.S.

ACTING PALÆONTOLOGIST, H.M. GEOL. SURVEY OF SCOTLAND,  
(FORMERLY ASSISTANT-GEOLOGIST, GEOL. SURVEY OF VICTORIA),  
FELLOW OF THE R. PHYSICAL SOCIETY OF EDINBURGH;  
CORR. MEMBER OF THE R. SOCIETIES OF VICTORIA AND TASMANIA  
AND OF THE NATURAL HISTORY SOCIETY OF GLASGOW;  
HON. CORRESPONDENT, BALLARAT SCHOOL OF MINES.

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## PREFACE.

THE *Catalogue of Australian Fossils* was commenced in 1868 in conjunction with my friend and former colleague Mr Norman Taylor, merely with the view of carrying out our duties in connection with the Geological Survey of Victoria, but circumstances over which we had no control rendered the abandonment of the work necessary. It was not again resumed until 1871, then by myself, and through the interest evinced by several scientific friends I have been induced to continue the compilation, during leisure moments, until it has assumed its present proportions.

The subject of Australian Geology and Palæontology is even now only in its infancy, notwithstanding the rapid strides which have been made within the last few years. It naturally results therefore, that although the number of species to be listed may be small when compared with those of other countries, still, often from the absence of definite information, the compilation has been attended with no ordinary difficulties. This will, I hope, to some extent tend to explain the many imperfections to be found in the 'Catalogue,' and of which no one is more conscious than I am. The present is, so far as I know, the first attempt at a complete list of Australian fossil Organic Remains, and notwithstanding the daily increasing number of species to be still more largely augmented in the future, I trust that the present effort will be found a tolerably faithful record of Australian Palæontology up to the year 1878.

I have endeavoured to make the Catalogue as complete as circumstances will permit, but there are a few papers by colonial authors to which I have not been able to obtain access, and in consequence the data contained in them have been omitted, or imperfectly given.

In the great field of Australian Geology and Palæontology I can lay claim to no greater title than that of a compiler, but as such, I would offer my tribute of respect and admiration

for the never-tiring zeal and energy, the self-denial of all home-comforts, and risk of health displayed by the pioneers of our common science in the Australian colonies, and of whose work, often carried on under the most adverse circumstances, the Catalogue is an epitome.

I refer to such men as the late S. Stutchbury, the late Rev. W. B. Clarke, F.R.S., the late Capt. Sturt, the late Sir T. L. Mitchell, the late L. Leichhardt, A. R. C. Selwyn, F.R.S., C. Gould, F.G.S., Prof. F. McCoy, F.G.S., the late W. Blandowski, Baron F. von Mueller, the late C. D'Oyly, H. Aplin, Norman Taylor, G. H. F. Ulrich, F.G.S., R. B. Smyth, F.G.S., the late R. Daintree, F.G.S., C. S. Wilkinson, F.G.S., Rev. J. E. T. Woods, F.G.S., R. A. F. Murray, H. Y. L. Brown, A. W. Howitt, F.G.S., G. Krefft, and others.

The object of the *Catalogue of Australian Fossils* is first, to give as complete a list as possible of the fossil Organic Remains of the Australian Continent, arranged in Stratigraphical and Zoological order; secondly, to indicate all the descriptions, figures, and more important references to each of the species; and thirdly, to point out the principal localities.

In carrying out this scheme it has been found most convenient to divide the Catalogue into five stratigraphical subdivisions, viz., Silurian, Middle and Upper Palæozoic (including the Devonian and Carboniferous), Mesozoic, Tertiary, and Post-Tertiary, in each of which the genera and species are arranged zoologically in classes, and alphabetically in order, for convenient reference.

Each page is subdivided vertically into four columns.

The first (that on the left hand of the reader) contains the name of the species and their authors; the second column is intended for the stratigraphical subdivisions of the respective sections in which the species occurs; the third and largest column is devoted to the bibliographical references, whilst the fourth contains the localities.

At the head of each page, on the left hand, is given in dark type and within brackets the name of the class to which all the genera contained in that page belong, whilst, in the corresponding corner, on the opposite side of the page, is similarly given the geological section of the work.

After the name of each genus is given that of its author

and the date, then follow within brackets one or more references to descriptions of the genus in question, by its author or other writers as the case may be ; but it is to be universally understood that the first reference after a genus is that of its original description or enunciation, so far as my own researches have enabled me to ascertain. Here and there a few synonyms are given, and always the order or family to which the genus belongs.

The references to the species are of two kinds ; first, those to works in which a detailed description or figure is to be found, denoted by an \* placed before them ; secondly, those in which a passing reference only is made to the species, such for instance as the announcement of the first discovery of it in Australian rocks, or of a new locality. When a species is common both to the strata of Australia and those of any other country I have invariably given quotations showing its synonymy and history previous to its discovery in the former. Unless denoted by the sign ! placed after it, every reference has been personally verified and referred to ; any errors therefore which may be found are my own, and have arisen during transcription, or are typographical.

The abbreviations used are those usually adopted in works of reference, but in case they should not at once be apparent to the reader, I have given a list of all the Works, Papers, and Reports used and consulted in the compilation, arranged alphabetically under the authors' names, so that the full title of almost every quotation can at once be seen.

In the locality column the respective Colonies in which the places mentioned are situated, are indicated by an abbreviation in italics : thus, *N. S. Wales* (= New South Wales), *Vict.* (= Victoria, formerly Australia Felix), *S. A.* (= South Australia), *W. A.* (= Western Australia), *Qu.* (= Queensland), *Tas.* (= Tasmania).

It affords me great pleasure to offer my sincere thanks to those gentlemen who have rendered me assistance. To the father of Australian Geology, the late Rev. W. B. Clarke, F.R.S., I am indebted for information on many points connected with Colonial Geology, and the general interest he took in my work. Similarly, I am under obligations to Messrs R. B. Smyth and N. Taylor (Melbourne), C. S. Wilkinson (Sydney), R. M. John-

ston (Hobart Town), and the Rev. J. E. Tenison Woods (Sydney). I am indebted to Profs. Owen, F.R.S., T. Rupert Jones, F.R.S., G. Busk, F.R.S., P. M. Duncan, F.R.S., H. A. Nicholson, F.G.S., and G. S. Brady, Messrs T. Davidson, F.R.S., W. Carruthers, F.R.S., and H. B. Brady, F.R.S., Drs R. H. Traquair, F.G.S., H. Woodward, F.R.S., and I. B. Balfour, F.G.S., for information connected with their special subjects. To Messrs G. Sharman, E. T. Newton, F.G.S., and R. B. Newton (*Mus. Pract. Geology*), W. S. Dallas (*Geol. Soc. Lond.*), and C. O. Waterhouse (*Brit. Mus.*), I am indebted for assistance in unravelling obscure points in synonymy. Prof. L. G. de Koninck has placed me under many obligations by his courtesy in forwarding advanced proofs of his fine work on the Australian Palæozoic Fossils, by means of which I have been able to complete the Catalogue at a much earlier date than otherwise could have been done.

Through the kindness of Prof. Geikie, F.R.S., I have had afforded me the opportunity of consulting a large number of works in the Library of the University of Edinburgh; and I am also under obligations for literary assistance to Prof. F. W. Rudler, F.G.S., and Messrs W. Rupert Jones (*Geol. Soc. Lond.*), H. B. Wheatley (*R. Soc. Lond.*), T. W. Newton (*R. School Mines*), R. Kippist (*Linn. Soc. Lond.*), J. Gordon (*R. Soc. Edinb.*), and F. H. Waterhouse (*Zool. Soc. Lond.*). Lastly, the encouragement afforded me by my kind friends Dr J. J. Bigsby, F.R.S., and Mr R. L. Jack, F.G.S. (Brisbane), and my father, has assisted me to surmount many difficulties.

To the liberality and consideration of the Syndics of the Cambridge University Press the publication of the *Catalogue of Australian Fossils* is due, whilst to my friend the Rev. Professor T. G. Bonney, F.G.S., my warmest thanks must be tendered for bringing the manuscript under their notice.

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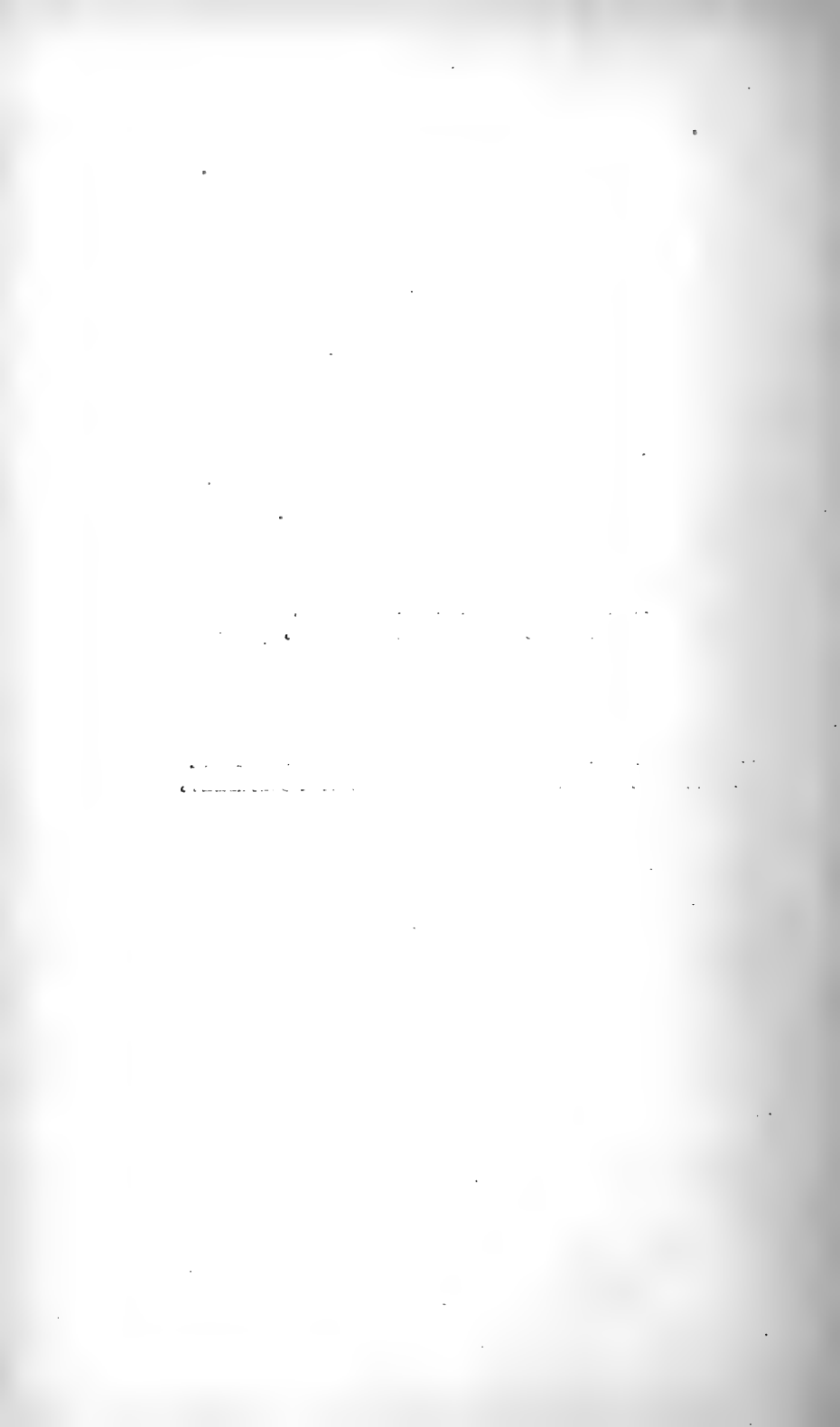
## CORRIGENDA.

- p. 5, Genus *DICHOGRAPTUS*, after pars, read 1861 (Geologist, iv. p. 74; Quart. Jour. Geol. Soc. 1863, xix. p. 139).
- p. 13, Genus *PLEURODICTYUM*, should follow after *Plasmopora*, and before *Propora*.
- p. 14, Genus *RHIZOPHYLLUM* should come before *Striatopora*.
- p. 19, 20, 21, and 23. In Locality column, for Bruce's Ck. nr. Mt. Macedon, read Bruce's Ck. nr. Mt. Disappointment.
- p. 23, Genus *TREMATOSPIRA*, for *T. lispleura*, read *T. leiopleura*.
- p. 30, *GLOSSOPTERIS BROWNIANA*, line 13, for pt. 3, p. 13, read pt. 3, t. 3.
- p. 36, *FAVOSITES OVATA*, line 16, for t. 3, f. 5, read t. 7, f. 5.
- p. 41, *BRACHYMETOPUS STRZELECKII*, line 4, for t. 3, read t. 4.
- p. 42, *POLYCOPE SIMPLEX*, line 5, for t. 17, f. 5, read t. 24, f. 7.
- p. 43, *DENDRICOPIORA HARDYI*, line 2, for f. 1, read f. 4.
- „ *FENESTELLA MULTIPORATA*, line 4, for f. 4, read f. 2.
- p. 44, *FENESTELLA PLEBEIA*, line 19, for f. 2, read f. 1.
- p. 45, *PROTORETEPORA AMPLA*, line 16, for f. 4, read f. 5.
- p. 46, *RETEPORA LAXA*, line 2, for f. 5, read f. 6.
- „ *ATHYRIS PLANOSULCATA*, lines 8 and 9, for pt. 2, p. 224, t. 11, read pt. 3, p. 222, t. 9.
- p. 48, *CHONETES LAGUESSIANA*, line 14, for pt. 2, read pt. 3.
- „ *CHONETES PAPILIONACEA*, line 9, for pt. 2, read pt. 3.
- „ *CYRTINA SEPTOSA*, line 7, for pt. 2, read pt. 3.
- „ *DISCINA AFFINIS*, line 6, for t. 3, read t. 4.
- p. 51, *PRODUCTUS BRACHYTHERUS*, line 13, for t. 3, read t. 4.
- p. 57, *SPIRIFERA LATA*, line 1, for t. 3, read t. 4.
- „ *SPIRIFERA OVIFORMIS*, line 5, for t. 3, read t. 4.
- p. 103, bottom line of page, for *P. furcata*, read *P. farcta*.



LOWER PALÆOZOIC.

LOWER AND UPPER SILURIAN.



# A STRATAGRAPHICAL CATALOGUE

OF

## AUSTRALIAN FOSSILS.

(Plantæ—Rhizopoda.)

(Silurian.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
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*Kingdom*—Plantæ. *Section*—Cryptogamiæ. *Order*—Algae.

Genus **Fucoides**, *Brongniart*, 1823. (Mém. Soc. Hist. Nat. 7, p. 308.)

<i>F. sp. ind.</i>	Up. Sil.	Blandowski, Trans. Phil. Institute Vict. 1858, II. p. 144, figs. 2980 and 2981.	Botanical Gardens, Melbourne, Vict.
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Genus **Spirophyton**, *Hall*, 1863. (16th Annual Rep. N. Y. State Cab. Nat. Hist. app. D, p. 78.)

S.? <i>Cauda-Phasiani</i> , <i>De Kon.</i>	Up. Sil. (Up. Llandov.).	*Foss. Pal. Nouv.-Galles du Sud, 1876, p. 62, t. 4, f. 1.	Duntroon, N. S. Wales.
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*Kingdom*—Animalia. *Sub-kingdom*—Protozoa. *Class*—Rhizopoda.  
*Order*—Foraminifera.

Genus **Receptaculites**, *DeFrance*, 1824. (Prodrome, p. 119; Dict. Sci. Nat. 1827, XLV. p. 5.)—*Orbitolitidæ*.

<i>R. Australis</i> , <i>Salter</i> .	Up. Sil.?	*Geol. Survey, Canada, Dec. I. p. 47, t. 10, f. 8—10.	Yarradong, near Yass Plains, N. S. Wales.
<i>R. Clarkii</i> , <i>Salter</i> (ms.).	Up. Sil.?	Clarke's S. Goldfields, 1860, p. 286; Hochstetter, Sitz. k. Akad. Wissensch. Wien, 1859, xxxv. p. 335.	

*Order*—Spongida.

Genus **Stromatopora**<sup>1</sup>, *Goldfuss*, 1826. (Petrefacta I. p. 21; Blainville, 1830, Dict. Sc. Nat. LX. p. 378.) = *Caunopora*, Phillips; *Sparsispongia*. D'Orbigny, *Amorphospongia*.

<i>S. striatella</i> , <i>D'Orb.</i>	Up. Sil.	Prodrome de Pal. 1849, I. p. 51; De Kon, *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 10.	Bell River, N. S. Wales.
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<sup>1</sup> This genus is considered by some writers to be a Sponge, by others a Foraminifer.

(Hydrozoa.)

(Silurian.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
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*Sub-kingdom*—Cœlenterata. *Class*—Hydrozoa.

Rhabdophora et Cladophora.

Genus **Climacograptus**, Hall, 1865. (Geol. Survey, Canada, Dec. II. p. 111.)  
*Graptolitidae*.

<i>C. bicornis</i> , Hall.	L. Sil.	<i>Graptolithus</i> , *Pal. New York, 1847, i. p. 268, t. 73, f. 2; <i>Diplograptus</i> , M'Coy, Ex. Essay, 1861, p. 161; <i>id. ibid.</i> Annals Nat. Hist. 1862, ix. p. 139; <i>Climacograptus</i> , Hall, *Geol. Survey, Canada, 1865, Dec. II. p. 111; <i>Diplograptus</i> , Bigsby, Thesaurus Sil. 1868, p. 83; <i>id.</i> M'Coy, Smyth's Progress Rept. 1874, p. 33; <i>D. (Climacograptus)</i> , <i>id.</i> *Geol. Survey, Vict. Dec. I. 1874, p. 12, t. I, f. 8.	
<i>C. quadrangularis</i> , M'Coy.		Vide <i>C. rectangularis</i> , M'Coy?	
<i>C. rectangularis</i> , M'Coy.	L. Sil. (Ll. Fl.).	*Brit. Pal. Foss. 1851, p. 8, t. 1, B. f. 8; Selwyn, Quart. Jour. Geol. Soc. 1858, xiv. p. 534; <i>id.</i> M'Coy, Ex. Essay, 1861, p. 161; <i>id. ibid.</i> Annals Nat. Hist. 1862, ix. p. 138; ? <i>D. quadrangularis</i> , M'Coy, <i>ibid.</i> 1867, xx. p. 199; <i>id. et D. rectangularis</i> , Bigsby, Thesaurus Sil. 1868, pp. 84 and 200; <i>D. rectangularis</i> , M'Coy, Smyth's Progress Rept. 1874, p. 33; <i>id. ibid.</i> *Geol. Survey, Vict. 1874, Dec. I. p. 11, t. 1, f. 7.	Saltwater River, W. of Bulla; Holden; Didic R. Gippsland, Vict.

Genus **Cœnograptus**, Hall, 1867. (20th Annual Report, N. Y. State Cab. Nat. Hist. pp. 217 and 226) = *Helicograptus*, Nicholson.—*Graptolitidae*.

<i>C. gracilis</i> , Hall.	L. Sil.	<i>Graptolithus</i> , *Pal. N. York, 1847, i. p. 274, t. 74, f. 9; <i>Graptolites</i> , M'Coy, Ex. Essay, 1861, p. 161; <i>id. ibid.</i> Annals Nat. Hist. 1862, ix. p. 139; <i>id. ibid.</i> <i>id.</i> 1867, xx. p. 200; <i>Dichograptus</i> , Bigsby, Thesaurus Sil. 1868, p. 82; <i>Cœnograptus</i> , Hall, 20th Report, State Cab. N. York, 1867, p. 226; <i>Graptolites</i> , M'Coy, Smyth's Progress Rept. 1874, p. 33; <i>G. (Didymo.)</i> , <i>id.</i> *Geol. Survey, Vict. Dec. II. 1875, p. 35, t. 20, f. 9.	N.W. of Bulla, near Melbourne.
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## (Hydrozoa.)

## (Silurian.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
Genus <i>Dichograptus</i> , <i>Salter</i> (pars), 1863. (Quart. Jour. Geol. Soc. xix. p. 139.) <i>Graptolitidæ</i> .			
<i>D. octobrachiatus</i> , <i>Hall</i> .	L. Sil. (Ll. Fl.).	<i>Graptolithus</i> , *Geol. Survey, Canada, Rept. (1857) 1858, p. 122; <i>id. ibid.</i> *Dec. II. p. 96, t. 7; <i>Graptolites</i> , M'Coy, Ex. Essay, 1861, p. 161; <i>id. ibid.</i> Annals Nat. Hist. 1862, ix. p. 139; <i>Didymograptus</i> , <i>ibid. id.</i> 1867, xx. p. 200; <i>Dichograpsus</i> , Nicholson, *Quart. Jour. Geol. Soc. 1868, xxiv. p. 129, t. 5, figs. 1 and 2; <i>id.</i> Bigsby, Thesaurus Sil. 1868, pp. 82 and 200; <i>Didymograpsus</i> , M'Coy, Smyth's Progress Rept. 1874, p. 33; <i>G. (Didymo.)</i> , <i>ibid.</i> *Geol. Survey, Vict. 1874, Dec. I. p. 17, t. 2, f. 4.	Castlemaine; Watch-box Ranges, Glenhope, and Piper's Ck.; E. bank of Saltwater River, near Melbourne, Vict.
Genus <i>Dicranograptus</i> , <i>Hall</i> , 1865. (Geol. Survey, Canada, Dec. II. p. 112.) <i>Graptolitidæ</i> .			
<i>D. ramosus</i> , <i>Hall</i> .	L. Sil. (Ll. Fl.).	<i>Graptolithus</i> , *Pal. New York, 1847, i. p. 270, t. 73, f. 3; <i>Graptolites</i> , M'Coy, Ex. Essay, 1861, p. 161; <i>Diplograpsus</i> , M'Coy, Annals Nat. Hist. 1862, ix. p. 138; <i>Dicranograptus</i> , Hall, *Geol. Survey, Canada, Dec. II. p. 112; <i>Diplograpsus</i> , M'Coy, Annals Nat. Hist. 1867, xx. p. 200; <i>id.</i> Bigsby, Thesaurus Sil. 1868, pp. 84 and 200; <i>id.</i> M'Coy, Smyth's Progress Rept. 1874, p. 33; <i>Cladograpsus</i> , <i>id.</i> *Geol. Survey, Vict. 1875, Dec. II. p. 33, t. 20, f. 2.	W. of Bulla, near Melbourne; Bendigo ( <i>Bigsby</i> ), Vict.
Genus <i>Didymograptus</i> , <i>M'Coy</i> , 1851. (Brit. Pal. Foss. p. 9.)— <i>Graptolitidæ</i> .			
<i>D.?</i> <i>caduceus</i> , <i>Salter</i> .	L. Sil. (Ll. Fl.).	*Quart. Jour. Geol. Soc. 1855, ix. p. 87, f. 1; <i>ibid.</i> 1863, xix. p. 137, f. 13, a and b; M'Coy, Ex. Essay, 1861, p. 161; <i>ibid.</i> Annals Nat. Hist. 1862, ix. p. 139; <i>ibid. id.</i> 1867, xx. p. 200; Bigsby, Thesaurus Sil. 1868, p. 82; M'Coy, Smyth's Progress Rept. 1874, p. 33; <i>T. bryonoides</i> (pars), Etheridge, Annals Nat. Hist. xiv. 1874, p. 2, t. 3, figs. 3 and 4; <i>G. (Didymo.) caduceus</i> , M'Coy, *Geol. Survey, Vict. Dec. II. 1875, p. 30, t. 20, figs. 3—5.	Castlemaine; Barwon Creek; Baynton's Range; Newham, &c. Vict.

(Hydrozoa.)		(Silurian.)	
Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
<i>D. bryonoides</i> , Hall.		Vide <i>Tetragraptus bryonoides</i> , Hall.	
<i>D.?</i> <i>denticulatus</i> , Hall.	L. Sil.	<i>Graptolithus</i> , *Geol. Survey, Canada, Rept. (1857) 1858, p. 132; <i>id. ibid.</i> *Dec. II. p. 88, t. 4, figs. 12—16; <i>Didymograpsus</i> , Bigsby, Thesaurus Sil. 1868, p. 82.	Melbourne ( <i>Bigsby</i> ).
<i>D. extensus</i> , Hall.	L. Sil. (Ll. Fl.).	<i>Graptolithus</i> , *Geol. Survey, Canada, Rept. (1857) 1858, p. 132; <i>id. ibid.</i> Dec. II. p. 80, t. 2, figs. 11—16; <i>G. (Didymo.)</i> , M'Coy, *Geol. Survey, Vict. Dec. II. 1875, p. 29, t. 20, f. 1.	Parman Ck., <i>Vict.</i>
<i>D.?</i> <i>fruticosus</i> , Hall.	L. Sil. (Ll. Fl.).	<i>Graptolithus</i> , *Geol. Survey, Canada, Rept. [1857] 1858, p. 128; <i>id. ibid.</i> *Dec. II. p. 90, t. 5, figs. 6—8, t. 6, figs. 1—3; <i>G. et D. Pantoni</i> (M'Coy. ms.), Salter, Quart. Jour. Geol. Soc. 1863, xix. pp. 138 and 140; <i>G. (Didymo.) fruticosus</i> , M'Coy, *Geol. Survey, Vict. 1874, Dec. I. p. 13, t. 1, figs. 9—14; <i>D.?</i> <i>fruticosus</i> , Etheridge, Annals Nat. Hist. 1874, xiv. p. 6, t. 3, f. 19; ? <i>D. Pantoni</i> (M'Coy. ms.), Etheridge, * <i>ibid.</i> p. 7, t. 3, figs. 21 and 22.	Bird Reef, Bendigo; Spring Plains; Loddon R.; E. bank of Salt-water R., near Melbourne; Castlemaine, <i>Vict.</i>
<i>D. furcatus</i> , Hall.	L. Sil. (Ll. Fl.).	<i>Graptolithus</i> , *Pal. New York, 1847, p. 273, t. 74, f. 4 a—f; <i>Didymograpsus</i> , M'Coy, Ex. Essay, 1861, p. 161; <i>id. ibid.</i> Annals Nat. Hist. 1862, ix. p. 139; <i>id.</i> Bigsby, Thesaurus Sil. 1868, p. 82; <i>id.</i> M'Coy, Smyth's Progress Rept. 1874, p. 33; <i>Cladograptus</i> , M'Coy, *Geol. Survey, Vict. Dec. II. 1875, p. 34, t. 20, f. 7.	Melbourne ( <i>Bigsby</i> ).
<i>D. Logani</i> , Hall.		Vide <i>Loganograptus Logani</i> , Hall.	
<i>D. nitidus</i> , Hall.	L. Sil. (Ll. Fl.).	<i>Graptolithus</i> , *Geol. Survey, Canada, Rept. (1857) 1858, p. 129; <i>id. ibid.</i> *Dec. II. 1865, p. 69, t. 1, figs. 1—9; <i>Didymograpsus</i> , M'Coy, Annals Nat. Hist. 1867, xx. p. 200; <i>id. ibid.</i> Smyth's Progress Rept. 1874, p. 33; <i>id.</i> Etheridge, *Annals Nat. Hist. 1874, xiv. p. 6, t. 3, f. 20.	Baynton's Range; Castlemaine, <i>Vict.</i>
<i>D. octobrachiatus</i> , Hall.		Vide <i>Dichograptus octobrachiatus</i> , Hall.	
<i>D. Pantoni</i> , M'Coy (ms.).		Vide <i>D.?</i> <i>fruticosus</i> , Hall.	
<i>D. quadribachiatus</i> , Hall.		Vide <i>Tetragraptus quadribachiatus</i> , Hall.	

## (Hydrozoa.)

## (Silurian.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
<i>D. serratulus</i> , Hall.	L. Sil.	<i>Graptolithus</i> , *Pal. New York, 1847, i. p. 274, t. 74, f. 5 a, b; <i>Didymograpsus</i> , M'Coy, Ex. Essay, 1861, p. 161; <i>id. ibid.</i> Annals Nat. Hist. 1862, ix. p. 139; <i>id. ibid. id.</i> 1867, xx. p. 200; <i>id.</i> Bigsby, Thesaurus Sil. 1868, p. 83; <i>id.</i> M'Coy, Smyth's Progress Rept. 1874, p. 33.	Melbourne ( <i>Bigsby</i> ).
Genus <i>Diplograptus</i> <sup>1</sup> , M'Coy, 1851 (Brit. Pal. Foss. pp. 3 and 7) = <i>Prionotus</i> , Hisinger; <i>Diprion</i> , Barande.— <i>Graptolitidæ</i> .			
<i>D. angustifolius</i> , Hall.	L. Sil.	*Pal. New York, 1859, III. p. 515, figs. 1 and 2; Bigsby, Thesaurus Sil. 1868, p. 200.	Bendigo ( <i>Bigsby</i> ).
<i>D. bicornis</i> , Hall.		Vide <i>Climacograptus bicornis</i> , Hall.	
<i>D. folium</i> , Hisinger <sup>2</sup> .		Vide <i>Phyllograptus typus</i> , Hall.	
<i>D. mucronatus</i> , Hall.	L. Sil. (Ll. Fl.).	* <i>Graptolithus</i> , Pal. New York, 1847, i. p. 268, t. 73, f. 1 a—d; <i>Diplograpsus</i> , M'Coy, Ex. Essay, 1861, p. 161; <i>id. ibid.</i> Annals Nat. Hist. 1862, ix. p. 138; <i>id. ibid. id.</i> 1867, xx. p. 199; <i>id.</i> Bigsby, Thesaurus Sil. 1868, pp. 83 and 200; <i>id. ibid.</i> Smyth's Progress Rept. 1874, p. 33; <i>id. ibid.</i> *Geol. Survey, Vict. Dec. i. 1874, p. 10, t. 1, f. 5; <i>id.</i> Etheridge, *Annals Nat. Hist. 1874, xiv. p. 5, t. 3, figs. 14—17.	Watch-box Ranges, near Baynton's; Newham, near Lancefield; Bulla; Bendigo, <i>Vict.</i>
<i>D. palmeus</i> , Barande.	L. Sil. (Ll. Fl.).	<i>Graptolithus</i> , *Grapt. de Bohême, 1850, p. 59, t. 3, figs. 1—4 and 7; <i>Diplograpsus</i> , M'Coy, Annals Nat. Hist. 1867, xx. p. 200; <i>id.</i> Bigsby, Thesaurus Sil. 1868, p. 200; <i>id.</i> M'Coy, Smyth's Progress Rept. 1874, p. 33; <i>id. ibid.</i> *Geol. Survey, Vict. Dec. ii. 1875, p. 32, t. 20, f. 6.	Bendigo ( <i>Bigsby</i> ).
<i>D. pristis</i> , Hisinger.	L. Sil. (Ll. Fl.).	<i>Prionotus</i> , Leth. Succ. 1837, p. 114, t. 35, f. 5; <i>Diplograpsus</i> , Selwyn, Quart. Jour. Geol. Soc. 1858, xiv. p. 538; M'Coy, Ex. Essay, 1861, p. 160; <i>id. ibid.</i> Annals Nat. Hist. 1862, ix. p. 138; <i>id. ibid. id.</i> 1867, xx. p. 199; <i>id.</i> Bigsby, Thesaurus Sil. 1868, pp. 83 and 200; <i>id.</i>	Parish of Bulla; N. of Lancefield; Parish of Darriwill; Sutherland's Creek; Holden, <i>Vict.</i>

<sup>1</sup> Written *Diplograpsus* by M'Coy. The name was first used by Prof. M'Coy in the *Annals of Natural History* for October, 1850, but the genus was described in the first fasciculus of the above work, 1851.

<sup>2</sup> As this species, *Phyllo. typus*, Hall, and *D. ovatus*, Barr., are regarded only as varieties of one form by M'Coy, I have given the references under *P. typus*.

## (Hydrozoa.)

## (Silurian.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
D. quadrangularis, <i>M'Coy.</i>		M'Coy, Smyth's Progress Rept. 1874, p. 33; <i>id. ibid.</i> *Geol. Survey, Vict. *Dec. i. p. 11, t. 1, f. 6; ? <i>Diplograptus sp.</i> Etheridge jnr., Annals Nat. Hist. 1874, xiv. p. 6, t. 3, f. 18.	
D. rectangularis, <i>M'Coy.</i>		?Vide <i>Climacograptus rectangularis</i> , M'Coy. " " "	
Genus <b>Graptolithus</b> , <i>Linnaeus</i> , 1736. (Syst. Nat. 1st ed. p. 3; 12th ed. 1768, iii. p. 173.) <i>Graptolitidae.</i>			
G. fruticosus, <i>Hall.</i>		Vide <i>Didymograptus fruticosus</i> , Hall.	
G. gracilis, <i>Hall.</i>		Vide <i>Cænograptus gracilis</i> , Hall.	
G. bryonoides, <i>Hall.</i>		Vide <i>Tetragraptus bryonoides</i> , Hall.	
G. latus, <i>M'Coy.</i>		Vide <i>Tetragraptus bryonoides</i> , Hall.	
G. Logani, <i>Hall.</i>		Vide <i>Loganograptus Logani</i> , Hall.	
G. Ludensis, <i>Murchison.</i>		?Vide <i>G. priodon</i> , Bronn.	
G. octobraehiatus, <i>Hall.</i>		Vide <i>Dichograptus octobraehiatus</i> , Hall.	
G. Pantoni, <i>M'Coy</i> [ms.].		Vide <i>Didymograptus fruticosus</i> , Hall.	
G. priodon, <i>Bronn.</i>	L. and Up. Sil.	<i>Monoprion</i> , * <i>Lethæa</i> , Geog. i. p. 207, t. 1, f. 13, t. 5, f. 7; ? <i>G. Ludensis</i> , Murchison, *Silurian Syst. 1839, p. 694, t. 26, figs. 1, 2; <i>id. M'Coy</i> , Ex. Essay, 1861, p. 161; <i>id. ibid.</i> Annals Nat. Hist. 1862, ix. p. 139; <i>id. ibid. id.</i> 1867, xx. p. 199; <i>id. Bigsby</i> , Thesaurus Sil. 1868, p. 80; <i>id. M'Coy</i> , Smyth's Progress Rept. 1874, p. 33.	Melbourne.
G. quadribrachiatus, <i>Hall.</i>		Vide <i>Tetragraptus quadribrachiatus</i> , Hall.	
G. sagittarius, <i>His.</i>	L. Sil.	<i>Prionotus</i> , Hisinger, * <i>Leth. Suec. Supp.</i> p. 114, t. 35, f. 6; <i>Graptolithus</i> , Hall, * <i>Pal. New York</i> , 1847, i. p. 272, t. 74, f. 1; <i>Graptolites</i> , M'Coy, Ex. Essay, 1861, p. 161; <i>id. ibid.</i> Annals Nat. Hist. 1862, ix. p. 139; <i>id. ibid. id.</i> 1867, xx. p. 199; <i>Graptolithus</i> , Bigsby, Thesaurus Sil. 1868, p. 81; <i>Graptolites</i> , M'Coy, Smyth's Progress Rept. 1874, p. 33.	
G. tenuis, <i>Portlock.</i>	L. Sil.	* <i>Geol. Rept. Lond.</i> 1843, p. 319, t. 19, f. 7; <i>Graptolites</i> , M'Coy, Ex. Essay, 1861, p. 161; <i>id.</i>	



## (Hydrozoa.)

## (Silurian.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
		<i>ibid.</i> Annals Nat. Hist. 1862, ix. p. 139; <i>id.</i> M'Coy, Smyth's Progress Rept. 1874, p. 33; <i>Graptolithus</i> , Bigsby, Thesaurus Sil. 1868, p. 81.	

Genus **Loganograptus**, Hall, 1867. (20th Rept. State Cab. New York, p. 226.)

*Graptolitidae.*

<b>L. Logani</b> , Hall.	L. Sil. (Ll. Fl.).	<i>Graptolithus</i> , *Pal. New York, 1859, iii. p. 502, figs. 1, 2 and 3; <i>Graptolites</i> , M'Coy, Ex. Essay, 1861, p. 161; <i>id. ibid.</i> Annals Nat. Hist. 1862, ix. p. 139; <i>Didymograpsus</i> , <i>ibid.</i> 1867, xx. p. 200; <i>Dichograpsus</i> , Bigsby, Thesaurus Sil. 1868, pp. 82 and 200; <i>Loganograptus</i> , Hall, 20th Rept. N. Y. State Cab. Nat. Hist. 1867, p. 226; <i>Didymograpsus</i> , M'Coy, Smyth's Progress Rept. 1874, p. 33; <i>Grapt. (Didymo.) Logani</i> , var. <i>Australis</i> , <i>ibid.</i> *Geol. Survey, Vict. Dec. i. p. 18, t. 2, f. 6; <i>Loganograptus</i> , Etheridge, *Annals Nat. Hist. 1874, xiv. p. 4, t. 3, figs. 11 and 12.	Castlemaine; Newham, nr. Lancefield; Spring Plains; Kangaroo Creek; Parish of Darriwill; Sutherland's Ck.; Leigh River, nr. Cargarie Creek, Vict.
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Genus **Phyllograptus**, Hall, 1858. (Geol. Survey, Canada, Rept. 1857, p. 137.)

*Graptolitidae.*

<b>P. typus</b> , Hall.	L. Sil. (Ll. Fl.).	*Geol. Surv. Canada, Rept. (1857) 1858, p. 137; <i>ibid.</i> *Dec. ii. 1865, p. 119, t. 15, figs. 1—12; M'Coy, Ex. Essay, 1861, p. 161; <i>D. folium</i> , <i>id. ibid.</i> ; <i>P. typus</i> , <i>id.</i> Annals Nat. Hist. 1862, ix. p. 139; <i>D. folium</i> , <i>id. ibid.</i> ; <i>P. typus</i> , <i>id. ibid.</i> 1867, xx. p. 200; ? <i>D. folium</i> et <i>D. ovatus</i> , Bigsby, Thesaurus Sil. 1868, p. 83; <i>P. typus</i> , <i>P. folium</i> , et <i>P. ovatus</i> , M'Coy, Smyth's Progress Rept. 1874, p. 33; <i>P. folium</i> , var. <i>typus</i> , <i>id.</i> *Geol. Survey, Vict. Dec. i. 1874, p. 7, t. 1, figs. 1—4; <i>P. typus</i> , Etheridge, *Annals Nat. Hist. 1874, xiv. p. 3, t. 3, figs. 9 and 10.	Newham, near Lancefield; Loddon River; Lerderberg River, nr. M'Leod's Station; Saltwater River, near Melbourne; Flats of Kangaroo Creek, Vict.
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Genus **Retiolites**, Barrande, 1850 (Grap. de Bohême, p. 68, note) = *Gladiolites*, Barr. 1850.—*Retioloidea*.

<b>R. Australis</b> , M'Coy.	Up. Sil. (W. Sh.).	*Geol. Survey, Vict. 1875, Dec. ii. p. 36, t. 20, f. 10.	N.W. of Keilor, Vict.
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Genus **Tetragraptus**, Salter, 1863. (Quart. Jour. Geol. Soc. xix. p. 140.)

*Graptolitidae.*

<b>T. bryonoides</b> , Hall.	L. Sil. (Ll. Fl.).	<i>Graptolithus</i> , *Geol. Survey, Canada, Rept. (1857) 1858, p. 126;	Castlemaine; Watch-box
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## (Hydrozoa.)

## (Silurian.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
T. quadribrachiatus, Hall.	L. Sil. (Ll. Fl.).	<p><i>id. ibid.</i> *Dec. II. p. 84, t. 4, figs. 1—11; ?<i>G. latus</i>, Selwyn, Quart. Jour. Geol. Soc. 1858, xiv. p. 538; ?<i>id.</i> M'Coy, Ex. Essay, 1861, p. 161; <i>Tetragrapsus</i>, Salter, Quart. Jour. Geol. Soc. xix. pp. 137, 138, f. 8 a; ?<i>G. latus</i>, M'Coy, Annals Nat. Hist. 1862, ix. p. 139; <i>Didymograpsus</i> et ?<i>G. latus</i>, <i>id. ibid.</i> 1867, xx. p. 200; <i>G. bryonoides</i> et ?<i>G. latus</i>, Bigsby, Thesaurus Sil. 1868, pp. 80 and 200; <i>D. bryonoides</i> et ?<i>G. latus</i>, M'Coy, Smyth's Progress Rept. 1874, p. 33; <i>Grapt. (Didymo.) bryonoides</i> et ?<i>G. latus</i>, M'Coy, *Geol. Survey, Vict. Dec. I. p. 16, t. 2, figs. 2, 3 and 5; <i>Tetragraptus bryonoides</i> (pars), Etheridge, Annals Nat. Hist. 1874, xiv. p. 1, t. 3, figs. 1 and 2; ?<i>G. latus</i>, <i>ibid. id.</i> p. 7, t. 3, f. 23.</p> <p><i>Graptolithus</i>, *Geol. Surv. Canada, Rept. (1857) 1853, p. 126; <i>id. ibid.</i> *Dec. II. p. 91, t. 5, figs. 1—5, t. 6, f. 6; <i>Graptolites</i>, M'Coy, Ex. Essay, 1861, p. 161; <i>id. ibid.</i> Annals Nat. Hist. 1862, ix. p. 139; <i>Didymograpsus</i>, <i>ibid. id.</i> 1867, xx. p. 200; <i>id. ibid.</i> Smyth's Progress Rept. 1874, p. 33; <i>Grapt. (Didymograpsus)</i>, <i>ibid.</i> *Geol. Survey, Vict. 1874, Dec. I. p. 15, t. 2, f. 1; <i>Tetragraptus</i>, Etheridge, *Annals Nat. Hist. 1874, xiv. p. 3, t. 3, figs. 5—8.</p>	<p>Ranges, near Baynton's; Spring Plains; Barwon Creek, near Griffith and Green's Station; Glenhope and Piper's Creek; Kangaroo Creek; Sutherland's Creek; Parish of Darriwill; Parish of Cool-Barghurk, Vict.</p> <p>Newham, near Lancefield; Bird Reef, Bendigo; Watch-box Ranges, near Baynton's; Spring Plains, Vict.</p>

## Class—Actinozoa.

## Zoantharia Sclerodermata (Tabulata, Tubulosa, Perforata, Aporosa), and Rugosa.

Genus *Alveolites*, Lamarck, 1801. (Système d. Anim. s. Vertèb. p. 375.)  
*Tabulata.*

A. oculata.	U. Sil. (Ludlow).	Vide <i>Cerriopora</i> (Polyzoa). *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 18, Atlas, t. 1, f. 2.	Burrowang, N. S. Wales.
A. repens, Fougat.	U. Sil. (Ludlow).	<i>Millepora</i> , *Dissertatio Corallia Balt. 1749, p. 19, plate, f. 25; <i>Alveolites</i> , Edwards and Haime, *Mon. Brit. Sil. Corals, 1854, p. 203, t. 62, f. 1; de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 17.	Burrowang, N. S. Wales.

## (Actinozoa.)

## (Silurian.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
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Genus **Aulopora**, Goldfuss, 1826 (Petrefacta, i. p. 82) = *Tubiporites*, Schlotheim.  
*Tubulosa?*

A. fasciculata, de Kon.	U. Sil. (Up. Llandov.).	*Foss. Pal. Nouv.-Galles du Sud, 1876, p. 14, Atlas, t. 1, f. 1.	Bell River, N. S. Wales.
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Genus **Cyathophyllum**, Goldfuss, 1826. (Petrefacta, i. p. 54.) *Rugosa*.

C. articulatum, Wahlenberg.	U. Sil. (Ludlow).	<i>Madreporites</i> , *Nov. Act. Soc. Upsala, 1821, VIII. p. 97; <i>Cyathophyllum</i> , Edwards and Haime, *Mon. Brit. Sil. Corals, 1854, p. 282, t. 67, f. 1; de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 13.	Burrowang, N. S. Wales.
C. binum, Lonsdale.	L. Pal. (Up. Sil.).	<i>Turbinolopsis</i> , *Sil. System, 1839, p. 692, t. 16 bis, f. 5; <i>Petraia</i> , M'Coy, Sil. Foss. Ireland, 1862, p. 60; <i>Turbinolopsis</i> , Clarke, Quart. Jour. Geol. Soc. iv. p. 65.	Colocolo and Bingaberri, N. S. Wales.

Genus **Cystiphyllum**, Lonsdale, 1839. (Silurian Syst. p. 691.) *Rugosa*.

C. Siluriense, Lonsd.	U. Sil. (Ludlow).	*Silurian Syst. 1839, p. 691, t. 16 bis, f. 1; Edwards and Haime, *Mon. Brit. Sil. Corals, p. 298, t. 72, f. 1; de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 12.	Burrowang, N. S. Wales.
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Genus **Favosites** (pars), Lamarek, 1816 (Hist. d. Anim. s. Vertèb. II. p. 204<sup>1</sup>)  
= *Calamopora*, Goldfuss.—*Tabulata*.

F. aspera, D'Orb.	U. Sil. (Ludlow).	Prodrome de Pal. 1849, i. p. 49; Edwards and Haime, *Mon. Brit. Sil. Corals, 1854, p. 257, t. 60, f. 3; de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 21.	Boree, N. S. Wales.
F. cristata, Blumenbach.	U. Sil. (Ludlow).	<i>Madreporites</i> , *Comment. Soc. Scient. Gött. 1804, xv. p. 154, t. 3, f. 12; <i>F. polymorpha</i> , Lonsdale, *Silurian Syst. 1839, p. 684, t. 15, f. 2; <i>F. cristata</i> , Ed. and Haime, *Mon. Brit. Sil. Corals, 1854, p. 260, t. 61, figs. 3 and 4; <i>F. polymorpha</i> , Clarke, S. Goldfields, 1860, p. 285; <i>F. cristata</i> , de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 20.	Burrowang, N. S. Wales.
F. fibrosa, Goldfuss.	U. Sil. (Ludlow).	<i>Calamopora</i> , *Petrefacta, i. p. 82, t. 28, figs. 3 and 4; <i>Favosites</i> , Edwards and Haime, *Mon. Brit. Sil. Corals, 1854, pp. 217 and 261, t. 48, f. 3, t. 61, f. 5; <i>id.</i> Clarke, S. Goldfields, 1860, p. 285; <i>id.</i> de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 22.	Limekilns, N. S. Wales.

<sup>1</sup> The name simply was first introduced in the *Cours de Zoologie*, 1812.

(Actinozoa.)		(Silurian.)	
Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
<i>F. Forbesi</i> , Edwards and Haime.	U. Sil. (Ludlow).	*Mon. Brit. Sil. Corals, 1854, p. 258, t. 60, f. 2, a—g; de Kon. *Foss. Pal. Nouv.-Galles d. Sud, 1876, p. 20.	Burrowang, N. S. Wales.
<i>F. Gothlandica</i> , Fougé.	U. Sil. (Ludlow).	<i>Corallum</i> , *Dissertatio Corallia Balt. 1749, p. 39, plate 4, fig. 27; <i>Favosites</i> , Edwards and Haime, *Mon. Brit. Sil. Corals, 1854, p. 256, t. 60, f. 1; <i>id.</i> Clarke, Quart. Jour. Geol. Soc. 1848, rv. p. 65; <i>id. ibid.</i> S. Goldfields, 1860, p. 258; <i>id.</i> de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 22.	Yass Plains; Burrowang, N. S. Wales.
<i>F. multipora</i> , Lonsdale.	U. Sil. (Ludlow).	*Silurian Syst. 1839, p. 683, t. 15 bis, f. 5; <i>F. multipora?</i> de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 21.	Limekilns, N. S. Wales.
<i>F. polymorpha</i> , Lonsdale.		Vide <i>F. cristata</i> .	

Genus *Halysites*<sup>1</sup>, Fischer, 1813 (Zoognosia, Tab. Synop. 3rd ed. i. p. 387)  
= *Catenipora*, Lamarck, 1816.—*Tabulata*.

<i>H. escharoides</i> , Lamarck.	U. Sil. (Ludlow).	<i>Catenipora</i> , Hist. d. Anim. s. Vertèb. 1816, II. p. 207; <i>Halysites</i> , Edwards and Haime, *Mon. Brit. Sil. Corals, 1854, p. 272, t. 64, f. 2; <i>id.</i> de Kon. *Foss. Pal. Nouv.-Galles d. Sud, 1876, p. 16.	Wellington, N. S. Wales.
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Genus *Heliolites*, Dana, 1846 (Zooph. U. S. Exploring Exped. p. 541)<sup>2</sup>  
= *Palaeopora*, McCoy; *Geoporites*, D'Orb.—*Tabulata*.

<i>H. interstinctus</i> , Linn.	L. Pal. (Up. Sil.).	<i>Madreporites</i> , Systema, 1767, 12th ed. p. 1276; <i>Palaeopora</i> , McCoy, *Brit. Pal. Foss. 1851, p. 15; <i>Heliolites</i> , Edwards and Haime, *Polyp. Foss. Terr. Pal. p. 214; <i>id. ibid.</i> *Mon. Brit. Sil. Corals, 1854, p. 249, t. 15, f. 9; <i>Palaeopora</i> , McCoy in Couchman's Progress Rept. 1877, iv. pp. 156 and 158.	Waratah Bay, Vict.
<i>H. megastoma</i> , McCoy.	U. Sil. (Ludlow).	<i>Porites</i> , *Sil. Foss. Ireland, 1862, p. 62, t. 4, f. 19; <i>Palaeopora</i> , *Brit. Pal. Foss. 1851, p. 16, t. 1 c. f. 4; <i>Heliolites</i> , Edwards and Haime, *Mon. Brit. Sil. Corals, 1854, p. 251, t. 58, f. 2, a—d; <i>id.</i> de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 24.	Burrowang, N. S. Wales.
<i>H. Murchisoni</i> , Ed. and H.	U. Sil. (Ludlow).	*Mon. Brit. Sil. Corals, 1854, p. 250, t. 57, f. 6, a—c; de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 25.	Burrowang, N. S. Wales.

<sup>1</sup> Written "*Alyssites*" by Fischer.

<sup>2</sup> This generic name appears to have been first used by Guettard (*Mémoires*, 1770, t. III. p. 454).

## (Actinozoa.)

## (Silurian.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
Genus <b>Monticulipora</b> , <i>D'Orbigny</i> , 1849 (Prodrome de Pal. i. p. 25) = <i>Nebulipora</i> , <i>M'Coy</i> .— <i>Tabulata</i> .			
M.? <i>Bowerbanki</i> , <i>Ed.</i> and <i>H.</i>	U. Sil. (Up. Llandov.).	*Mon. Brit. Sil. Corals, 1854, p. 268, t. 63, f. 1, <i>a-c</i> ; de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 16.	Rockflat Creek, <i>N. S. Wales</i> .
M. <i>pulchella</i> , <i>Ed.</i> and <i>H.</i>	U. Sil. (Ludlow).	*Mon. Brit. Foss. Corals, 1854, p. 267, t. 62, f. 5, <i>a, b</i> ; de Kon. *Foss. Pal. Nouv.-Galles d. Sud, 1876, p. 17.	Burrowang; Bell River, <i>N. S. Wales</i> .
Genus <b>Omphyma</b> , <i>Rafinesque</i> and <i>Clifford</i> , 1820. (Ann. d. Sc. Phys. Bruxelles, v. p. 235.) <i>Rugosa</i> .			
O. <i>Murchisoni</i> , <i>Ed.</i> and <i>H.</i>	U. Sil. (Ludlow).	*Mon. Brit. Sil. Corals, 1851, p. 289, t. 67, f. 3, <i>a, b</i> ; de Kon. *Foss. Pal. Nouv.-Galles d. Sud, 1876, p. 12.	Burrowang, <i>N. S. Wales</i> .
Genus <b>Palæopora</b> , <i>M'Coy</i> , 1849. (Annals Nat. Hist. iii. p. 129.) Vide <i>Heliolites</i> , <i>Dana</i> .			
P. <i>interstincta</i> , <i>Linn.</i>		Vide <i>Heliolites interstinctus</i> .	
Genus <b>Plasmopora</b> , <i>Edwards</i> and <i>Haime</i> , 1849. (Comptes Rendus, xxx. p. 262.) <i>Tabulata</i> .			
P. <i>petaliformis</i> , <i>Lonsdale</i> .	U. Sil. (Ludlow).	*Silurian Syst. 1839, p. 687, t. 16, f. 4; <i>Plasmopora</i> , <i>Ed.</i> and <i>H.</i> *Mon. Brit. Sil. Corals, 1854, p. 253, t. 39, f. 1, <i>a-c</i> ; <i>id.</i> de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 24.	Bell River, <i>N. S. Wales</i> .
Genus <b>Propora</b> , <i>Edwards</i> and <i>Haime</i> , 1849. ( <i>l. c.</i> p. 262.) <i>Tabulata</i> .			
P. <i>tubulata</i> , <i>Lonsdale</i> .	U. Sil. (Ludlow).	*Silurian Syst. 1839, p. 687, t. 16, f. 3; <i>Propora</i> , <i>Ed.</i> and <i>H.</i> *Mon. Brit. Sil. Corals, 1854, p. 255, t. 59, f. 3, <i>a, b</i> ; <i>id.</i> de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 23.	Bell River, <i>N. S. Wales</i> .
Genus <b>Pleurodictyum</b> , <i>Goldfuss</i> , 1829. (Petrefacta, i. p. 113.)			
P. <i>megastomum</i> , <i>M'Coy</i> .	U. Sil.	Annals Nat. Hist. 1867, xx. p. 201, note; Bigsby, Thesaurus Sil. 1868, p. 192; <i>M'Coy</i> , <i>Smyth's</i> Progress Rept. 1874, p. 34.	Upper Yarra District, <i>Vict.</i>
Genus <b>Ptychophyllum</b> , <i>M. Edwards</i> and <i>Haime</i> , 1850. (Mon. Brit. Foss. Corals, Introd. p. lxix.) <i>Rugosa</i> .			
P. <i>patellatum</i> , <i>Schlotheim</i> .	U. Sil. (Ludlow).	*Fungites, Petrefacta, 1820, p. 347; <i>Strombodes plicatus</i> , <i>Lonsdale</i> , *Silurian Syst. 1839, p. 691, t. 16 bis, f. 4; <i>id.</i> Clarke, Quart. Jour. Geol. Soc. iv. p. 65; <i>P. patellatum</i> , <i>Ed.</i> and <i>H.</i> *Brit. Sil. Corals, 1854, p. 291, t. 67, f. 4; <i>P. plicatum</i> , Clarke, S. Goldfields, 1860, p. 285; <i>P. patellatum</i> , de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 11.	Yass Plains; Dangalong, <i>N. S. Wales</i> .

(Actinozoa—Echinodermata.)

(Silurian.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
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Genus **Striatopora**, Hall, 1852. (Pal. N. York, II. p. 156.) *Tabulata?*

S. Australica, de Kon.	U. Sil. (Up. Llandov.).	*Foss. Pal. Nouv.-Galles du Sud, 1876, p. 19, t. 1, f. 3, a.	Yass, N. S. Wales.
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Genus **Strombodes** (pars), Schweigger, 1820 (Handb. d. Naturg. p. 418) = *Acerularia*, Lonsdale; *Actinocyathus*, D'Orbigny.—*Rugosa*.

S. diffluens, Ed. and H.	U. Sil. (Up. Llandov.).	*Mon. Brit. Sil. Corals, 1854, p. 294, t. 71, f. 2; de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 10.	Maneroo, N. S. Wales.
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Genus **Syringopora**, Goldfuss, 1826 (Petrefacta, I. p. 75) = *Harmodites*, Fischer, 1828.—*Tabulata*.

S. serpens, Linn.?	U. Sil. (Up. Llandov.).	<i>Tabipora</i> , Syst. Nat. 1767, ed. 12, p. 1271; <i>Syringopora</i> , Ed. and H. *Mon. Brit. Sil. Corals, 1854, p. 275, t. 65, f. 2; de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 15.	Deleget River, N. S. Wales.
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Genus **Rhizophyllum**, Lindstrom, 1865. (Kongl. Vet. Akad. Förhandl. 1865, No. 5, p. 287.) *Rugosa*.

R.? interpunctatum, de Kon.	U. Sil. (Up. Llandov.).	*Foss. Pal. Nouv.-Galles du Sud, 1876, p. 61, t. 1, f. 10.	Boree Cavern, N. S. Wales.
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*Sub-kingdom—Annuloida. Class—Echinodermata*<sup>1</sup>.

Genus **Cyathocrinus**, Miller, 1821 (Nat. Hist. Crinoidea, p. 85) = *Encrinites*, Schlotheim, 1817.—*Crinoidea*, *Cyathocrinide*.

C. pinnatus, Blaudowski <sup>2</sup> .	Up. Sil.	<i>Cyathocrinites</i> , Trans. Phil. Soc. Vict. I. p. 122.	Up. Yarra, Vict.
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Genus **Palæaster**, Hall, 1852. (Pal. New York, II. p. 247.) *Asteroida*.

P. Selwynii, M'Coy.		Vide <i>Urasterella</i> .	
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Genus **Petraster**, Billings, 1858. (Geol. Surv. Canada, Dec. III. p. 79.) *Asteroida*.

P. Smythi, M'Coy.	U. Sil.	Smyth's Progress Rept. 1874, p. 34; *Geol. Survey, Vict. Dec. I. 1874, p. 41, t. 10, f. 1, a, b.	Moonee Ponds, nr. Flemington, Vict.
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Genus **Tæniaster**, Billings<sup>3</sup>, 1858. (Geol. Surv. Canada, III. p. 80.) *Asteroida*.

T. Australis, M'Coy (ms.).	U. Sil.	Smyth's Progress Rept. 1874, p. 34.	Melbourne, and Up. Yarra, Vict.
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<sup>1</sup> We have on record indicated species of the genus *Actinocrinus*, Miller. (Selwyn, *Quart. Jour. Geol. Soc.* 1858, XIV. p. 534; Bigsby, *Thesaurus*, 1868, pp. 18 and 19; Smyth's *Progress Rept.* p. 34.)

<sup>2</sup> Non *C. pinnatus*, Goldfuss, *Pet. Germ.* I. p. 190, t. 58, f. 7.

<sup>3</sup> Prof. Hall considers that there is a very close relation between this genus and *Protaster*, Forbes, and *Eugaster*, Hall (20th *Ann. Report State Cab. Nat. Hist. N. York*, 1867, p. 300).

## (Echinodermata—Crustacea.)

(Silurian.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
Genus <i>Urasterella</i> , <i>M'Coy</i> <sup>1</sup> , 1851 (Brit. Pal. Foss. p. 59) = <i>Stenaster</i> , Billings, 1858.— <i>Asteroidea</i> .			
<i>U. Selwyni</i> , <i>M'Coy</i> .	U. Sil.	<i>Palæaster</i> , Geol. Survey, Vict. $\frac{1}{2}$ sheet 4 S.W. note; <i>id.</i> Smyth's Progress Rept. 1874, p. 34; <i>Urasterella</i> , *Geol. Survey, Vict. Dec. I. 1874, p. 42, t. 10, f. 2 and 3.	Nr. the Bald Hills, Kilmore, Vict.

## Class—Crustacea.

Genus *Bronteus*, *Goldfuss*, 1839 (Nov. Act. Phys.-Med. Acad. Cæsareæ Leop.-Carol. Nat. Curios. XIX. pt. I. p. 360) = *Brontes*, *Goldf.*—*Trilobita*.

<i>B. goniopeltis</i> , <i>de Kon.</i>	U. Sil. (Up. Llandov.).	*Foss. Pal. Nouv.-Galles du Sud, 1876, p. 58, pl. 1, f. 10.	Rock-flat Creek, N. S. Wales.
<i>B. Partschi</i> , <i>Bar.</i>	U. Sil. (Ludlow).	Notice Prélim. p. 60; *Syst. Sil. Bohm. I. p. 870, t. 46, figs. 19—31; <i>de Kon.</i> *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 57.	Boree Cavern, N. S. Wales.

Genus *Calymene*, *Brongniart*, 1822. (Hist. Nat. Crust. Foss. pp. 6 and 9.) *Trilobita*.

<i>C. Blumenbachii</i> , <i>Brong.</i>	U. Sil. (Up. Llandov.).	*Crust. Foss. 1822, p. 11, t. 1, f. 1 a—d; <i>de Kon.</i> *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 55.	Yarralumla, N. S. Wales.
<i>C. Macleayi</i> , <i>Salter</i> (ms.).		Clarke, S. Goldfields, 1860, p. 286.	
<i>C. tuberculata</i> <sup>2</sup> .	U. Sil.	<i>M'Coy</i> , in Smyth's Progress Rept. 1874, p. 34.	Upper Yarra, Vict.

Genus *Caryocaris*, *Salter*, 1863. (Quart. Jour. Geol. Soc. XIX. p. 139.) *Phyllopora*.

<i>C. Salteri</i> , <i>M'Coy</i> .		Vide <i>Hymenocaris Salteri</i> , <i>M'Coy</i> .	
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Genus *Cheirurus*, *Beyrich*, 1845 (Über Böhm. Trilob. p. 5) = *Ceraurus*, *Green*. *Trilobita*.

<i>C. Murrayi</i> , <i>Salter</i> (ms.).		Clarke, S. Goldfields, 1860, p. 286.	
<i>C. insignis</i> , <i>Beyrich</i> .	U. Sil. (Up. Llandov.).	*Über Böhm. Trilob. p. 12, f. 1; <i>de Kon.</i> *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 48.	Yarralumla, N. S. Wales.

Genus *Cromus*, *Barrande*, 1852. (Syst. Sil. d. Centre de la Bohême, I. p. 821.) *Trilobita*.

<i>C. Bohemicus</i> , <i>Bar.</i>	U. Sil. (Up. Llandov.).	*l. c. p. 828, t. 43, figs. 15—17; <i>C. Bohemicus?</i> <i>de Kon.</i> *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 53.	Yarralumla, N. S. Wales.
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<sup>1</sup> Profs. Hall and *M'Coy* concur in the distinctness of this genus from *Palæaster*, *Hall*, and in its identity with *Stenaster*, *Bill.* (*op. cit.*, p. 282, and *Geol. Survey, Vict. Dec. I. p. 42*), contrary to the opinion of Messrs *Salter* and *Billings*, both of whom referred such types to *Palæaster*.

<sup>2</sup> The author of this species is not mentioned; may it be intended for *C. tuberculosa*, *Salter* (*Mems. Geol. Surv. II. pt. I. p. 342*)?

## (Crustacea.)

## (Silurian.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
<i>C. Murchisoni</i> , de Kon.	U. Sil. (Up. Llandov.).	*Foss. Pal. Nouv.-Galles du Sud, 1876, p. 54, t. 1, f. 9.	Yarralumla and Quadong, N. S. Wales.
Genus <i>Dalmannia</i> , <i>Emmrich</i> , 1845. (Neues Jahrb. f. Miner. p. 40.) <i>Trilobita</i> .			
<i>D. caudata</i> , Brün.		Vide <i>Phacops caudatus</i> .	
Genus <i>Encrinurus</i> , <i>Emmrich</i> , 1845. (l. c. p. 42.) <i>Trilobita</i> .			
<i>E. Australis</i> , Salter (ms.).	Up. Sil.?	Clarke, S. Goldfields, 1860, p. 286.	
<i>E. Barrandei</i> , de Kon.	U. Sil. (Up. Llandov.).	*Foss. Pal. Nouv.-Galles du Sud, 1876, p. 51, pl. 1, f. 8.	Yarralumla, N. S. Wales.
<i>E. punctatus</i> , Brünich.	U. Sil. (Ludlow).	*Neues Jahrb. f. Miner. 1845, p. 42; de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 49.	Yass, N. S. Wales.
Genus <i>Entomis</i> , <i>Jones</i> , 1861. (Mems. Geol. Survey, Scotland, No. 32, p. 137.) <i>Ostracoda</i> .			
<i>E. pelagica</i> , Barrande.	U. Sil. (L. Llandov.).	*Syst. Sil. Bohm. i. Supp. 1872, p. 515, t. 24, figs. 1-6; de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 45.	Yarralumla, N. S. Wales.
<i>E. tuberosa</i> , Jones.	U. Sil. (L. Llandov.).	Salter, *Mem. Geol. Survey, Scotland, 32, p. 137, t. 2, f. 5; Jones, *Annals Nat. Hist. 1873, xi. p. 415; Woodward, Cat. Brit. Foss. Crust. 1877, p. 120.	Yarralumla, N. S. Wales.
Genus <i>Forbesia</i> , <i>M'Coy</i> , 1862. (Sil. Fossils, Ireland, p. 49.) <i>Trilobita</i> .			
<i>F. Euryceps</i> , M'Coy.	U. Sil. (Wenlock).	*Geol. Survey, Vict. Dec. iii. p. 17, t. 23, f. 10.	Broadhurst Creek, Vict.
Genus <i>Harpes</i> , <i>Goldfuss</i> , 1839. (Nov. Act. Phys.-Med. Acad. Cæsarea Leop. Carol. Cur. Nat. xix. pt. 1, p. 358.) <i>Trilobita</i> .			
<i>H. ungula</i> , Sternberg.	U. Sil. (Ludlow).	<i>Trilobites</i> , *Verhandl. Böhm. Mus. p. 52, t. 2, f. 1; <i>Harpes</i> , Barrande, *Syst. Sil. Boh. 1852, i. p. 347, t. 8, f. 9; <i>id.</i> de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 59.	Boree Cavern, N. S. Wales.
Genus <i>Homalonotus</i> , <i>König</i> , 1820? (Icones Sectil. p. 4) = <i>Dipleura</i> , Green, <i>Trimerus</i> , Green.— <i>Trilobita</i> .			
<i>H. Harrisoni</i> , M'Coy.	U. Sil. (Up. Llandov.).	Annals Nat. Hist. 1867, xx. p. 198, Bigsby, Thesaurus Sil. 1868, p. 199; M'Coy, Smyth's Progress Rept. 1874, p. 34; <i>id.</i> *Geol. Survey, Vict. Dec. iii. 1876, p. 19, t. 23, f. 11 (? = <i>H. delphinocephalus</i> , Harrison (non Green), Trans. Roy. Soc. Vict. vii. p. 17).	Moonee Ponds Creek, near Melbourne, Vict.



(Crustacea.)

(Silurian.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
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Genus **Hymenocaris**, *Salter*, 1853. (Brit. Ass. Rept. for 1852, pt. 2, p. 58.)  
*Phyllopoda.*

H. <i>Salteri</i> , <i>M'Coy</i> .	L. Sil.	Ex. Essay, 1861, p. 161; Annals Nat. Hist. 1862, ix. p. 140; <i>id.</i> 1867, xx. p. 201; <i>Salter</i> , Quart. Jour. Geol. Soc. 1863, xix. p. 139; <i>Hymenocaris et Caryocaris</i> , Bigsby, Thesaurus Sil. 1868, pp. 73 and 200; <i>M'Coy</i> , Smyth's Progress Rept. 1874, p. 33; ? <i>Hymenocaris vermicauda</i> , Hochstetter, Verhandl. K. K. Geol. Reichsanstalt (Jahrbuch, 1861, xii.) p. 23.	Redesdale, <i>Vict.</i>
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Genus **Ilænus**, *Dalman*, 1826. (Kongl. Vet. Acad. Handl. för år 1826, p. 248.)  
*Trilobita.*

I. <i>Wahlenbergianus</i> , <i>Barr.</i>	U. Sil. (Ludlow).	*Sil. Syst. Bohême, i. p. 684, t. 34, f. 19—25; <i>I. Wahlenbergi?</i> de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 46.	Boree Caverns, <i>N. S. Wales.</i>
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Genus **Lichas**, *Dalman*, 1826. (Kongl. Vet. Acad. Handl. för år 1826, p. 278.)  
= *Acanthopyge*, *Hawle and Corda*, 1847.—*Trilobita.*

L. <i>Australis</i> , <i>M'Coy</i> .	U. Sil.	*Geol. Survey, <i>Vict.</i> Dec. iii. p. 18, t. 22, f. 11.	Woori-Yallock, <i>Vict.</i>
L. sp. ind.	U. Sil.	de Kon. Foss. Pal. Nouv.-Galles du Sud, 1876, p. 57.	Rockflat Creek, <i>N. S. Wales.</i>

Genus **Phacops**, *Emmrich*, 1839. (De Trilob. Dissert. p. 18; Neues Jahrb. 1845, p. 38.)—*Trilobita.*

P. <i>caudatus</i> , <i>Brünich.</i>	U. Sil.	Burmeister, *Organ. Trilobites, 1846, p. 94, t. 4, f. 9; <i>Dalmanina</i> , <i>M'Coy</i> , Geol. Survey, <i>Vict.</i> $\frac{1}{4}$ sheet 4, S.W. note; <i>P. (Odonochile)</i> , <i>id. ibid.</i> *Dec. iii. 1876, p. 13, t. 22, figs. 1—7, t. 23, figs. 7—10; <i>Couchman's</i> Progress Rept. 1877, iv. p. 156.	Broadhurst and Kilmore Creeks, <i>Vict.</i>
P. <i>fecundus</i> , <i>Barr.</i>	U. Sil.	*Syst. Sil. de la Bohême, 1852, i. p. 514, t. 21, figs. 1—27; <i>P. (Portlockia)</i> <i>M'Coy</i> , *Geol. Survey, <i>Vict.</i> Dec. iii. 1876, p. 15, t. 22, figs. 8 and 9, t. 23, figs. 1—6.	Yering, Up. Yarra, <i>Vict.</i>
P. <i>longicaudatus</i> , <i>Murchison.</i>	U. Sil.	*Silurian Syst. 1839, p. 656, t. 14, figs. 11—14; <i>M'Coy</i> , Ex. Essay, 1861, p. 162; Annals Nat. Hist. 1862, ix. p. 140; <i>id. ibid.</i> 1867, xx. p. 193; Bigsby, Thesaurus Sil. 1868, p. 63; <i>M'Coy</i> , Smyth's Progress Rept. 1874, p. 34.	Broadhurst Creek, <i>Vict.</i>

(Crustacea.)		(Silurian.)	
Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
Genus <b>Proetus</b> , <i>Steininger</i> , 1831. (Méms. Soc. Géol. France, t. p. 355 <sup>1</sup> ).— <i>Trilobita</i> .			
<i>P. Stokesii</i> , <i>Murchison</i> .	U. Sil. (Up. Llandov.).	<i>Asaphus</i> , *Silurian System, 1839, p. 656, t. 14, f. 6; <i>Proetus</i> , Siluria, 1867, 4th ed. p. 520; <i>P. Stokesii?</i> de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 56.	Yarralumla, N. S. Wales.
Genus <b>Staurocephalus</b> , <i>Barrande</i> , 1846. (Notice Prél. p. 52).— <i>Trilobita</i> .			
<i>S. Clarkei</i> , <i>de Kon.</i>	U. Sil. (Up. Llandov.).	*Foss. Pal. Nouv.-Galles du Sud, 1876, p. 47, t. 1, f. 8.	Rockflat Creek, N. S. Wales.
Genus <b>Trinucleus</b> , <i>Luid</i> , 1699. (Lith. Brit. Ichnographia, p. 97 <sup>2</sup> ).— <i>Trilobita</i> .			
<i>T. Clarkei</i> , <i>M'Leay</i> (ms.).		Quart. Jour. Geol. Soc. iv. p. 64.	Burrageood, N. S. Wales.
Sub-kingdom—Mollusca. Section—Molluscoidea. Class—Polyzoa <sup>3</sup> .			
Genus <b>Cerriopora</b> (pars), <i>Goldfuss</i> , 1826 (Petrefacta, t. p. 32 <sup>4</sup> ).			
<i>C. oculata</i> , <i>Clarke</i> .		S. Goldfields, 1860, p. 284 (? = <i>C. oculata</i> , Goldfuss, *Petrefacta, t. p. 217, t. 65, f. 14).	
Genus <b>Ptilodictya</b> , <i>Lonsdale</i> , 1839, non <i>Goldf.</i> (Sil. Syst. p. 676.) <i>Cheilostomata-Inarticulata</i> .			
<i>P. fucoides</i> , <i>M'Coy</i> .	U. Sil.	*Brit. Pal. Foss. p. 47, t. 1 c, f. 14; <i>Smyth's Progress Rept.</i> 1874, p. 34.	Goulburn, Vict.
Class—Brachiopoda.			
Genus <b>Atrypa</b> , <i>Dalman</i> , 1828 (Kongl. Vet. Acad. Handl. för år 1827, p. 102 <sup>5</sup> ; Davidson, Introduction, p. 90) = <i>Spirigerina</i> , d'Orb.— <i>Clistenterata-Rhynchonellidae</i> .			
<i>A. reticularis</i> , <i>Linnaeus</i> .	U. Sil. (Up. Ludlow).	<i>Anomia</i> , Syst. Nat. 1767, XII. ed. t. pt. 2, p. 1152; <i>Atrypa</i> , <i>Dalman</i> . Kongl. Vet. Acad. Handl. för år 1827 (1828), p. 127, t. 4, f. 2; <i>id.</i> Hall, Pal. N. York, 1851, II. pp. 72 and 270, t. 23, f. 8, a—e; <i>id.</i> Davidson, Mon. Brit. Sil. Brach. 1867, p. 129,	Duntroon, N. S. Wales.

<sup>1</sup> This volume bears date 1833, but the memoir containing the description of the genus *Proetus*, is headed, "publié à Trèves en 1831."

<sup>2</sup> As *Trinucleum*. It was figured, but not described, in the *Philosophical Transactions* (Vol. 20, 1698, p. 279, plate).

*Note.* The following genera are also known to occur in Victoria, *Beyrichia*, *Cheirurus*, and *Sphaerexochus* (*Selwyn*, *Quart. Jour. Geol. Soc.* 1858, XIV. pp. 533—34; *Bigsby*, *Thesaurus*, pp. 43—45, 65, and 73, &c.; *M'Coy*, *Smyth's Progress Rept.* 1874, p. 34). From New South Wales we have *Beyrichia* (*Clarke*, *S. Goldfields*, p. 286).

A species of *Trinucleus*, closely allied to, if not identical with, *T. Caractaci*, *Murchison* (= *C. concentricus*, *Eaton*), was discovered by the Rev. W. B. Clarke at Yarralumla, N. S. Wales (*Quart. Jour.* IV. p. 66).

<sup>3</sup> Prof. M'Coy has recorded the occurrence of two new species of *Fenestella* in Victorian rocks.

<sup>4</sup> As originally described *Cerriopora* contained a heterogeneous assemblage of generic types, and even as now used for Palaeozoic forms can only be regarded as a provisional or conventional term. It is probable that the majority of the latter will fall into the genus *Rhombopora*, *Meeke*.

<sup>5</sup> The genus *Atrypa*, with *Leptæna* and *Orthis*, were described by *Dalman*, as above, in the volume for 1827, which bears 1828 as its date of publication.

## (Brachiopoda.)

## (Silurian.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
A. ? <i>hemispherica</i> , <i>J. de C. Sow.</i>	U. Sil. (Up. Llandov.).	t. 14, figs. 1—22; <i>Spirigera</i> , M'Coy, <i>Annals Nat. Hist.</i> 1867, xx. p. 196; <i>Atrypa</i> , Clarke, <i>S. Goldfields</i> , 1860, p. 284; <i>id.</i> Bigsby, <i>Thesaurus Sil.</i> 1868, p. 91; <i>Spirigera</i> , M'Coy, <i>Smyth's Progress Report</i> , 1874, p. 34; <i>Atrypa</i> , Clarke, <i>Remarks Sed. Form. N. S. Wales</i> , 1875, 3rd ed. p. 12; <i>id.</i> de Koninek, <i>Foss. Pal. Nouv.-Galles du Sud</i> , 1876, p. 33. * <i>Silurian Syst.</i> 1839, p. 637, t. 20, f. 7; Davidson, * <i>Mon. Brit. Sil. Brachiopoda</i> , p. 136, t. 13, figs. 23—30; de Kon. * <i>Foss. Pal. Nouv.-Galles du Sud</i> , 1876, p. 33.	Duntroon, N. S. Wales.

Genus *Chonetes*, Fischer, 1837. (*Oryctographie Gouv. Moscou*, p. 134.)  
*Clistenterata-Productida.*

<i>C. minima</i> , <i>J. de C. Sow.</i>		<i>Leptæna</i> , * <i>Silurian Syst.</i> 1839, p. 629, t. 13, f. 4; <i>Chonetes</i> , Davidson, * <i>Mon. Brit. Sil. Brachiopoda</i> , p. 334, t. 49, figs. 15—19; M'Coy, <i>Geol. Survey, Vict.</i> $\frac{1}{2}$ sheet 3, N.E. note; <i>id. ibid.</i> $\frac{1}{2}$ sheet 4, S.W.; <i>id.</i> Smyth's <i>Progress Rept.</i> 1874, p. 34.	Bruce's Creek, nr. Mount Macedon? and Kilmore Ck. Vict.
<i>C. striatella</i> , <i>Dalman.</i>	U. Sil. (Ludlow).	<i>Orthis</i> , * <i>Kongl. Vet. Acad. Handl.</i> 1827, p. 111, t. 1, f. 5, a—d; <i>Chonetes</i> , Davidson, * <i>Mon. Brit. Sil. Brachiopoda</i> , p. 331, t. 49, figs. 23—26; de Kon. * <i>Foss. Pal. Nouv.-Galles du Sud</i> , 1876, p. 26.	Quadong, N. S. Wales.

Genus *Leptæna*, Dalman, 1828. (*Kongl. Vet. Acad. Handl. för år 1827*, p. 94.)  
*Clistenterata-Strophomenida.*

<i>L. minima</i> , <i>Sow.</i>		Vide <i>Chonetes minima</i> , <i>Sow.</i>	
<i>L. sericea</i> , <i>J. de C. Sow.</i>	U. Sil.	* <i>Silurian Syst.</i> 1839, p. 636, t. 19, figs. 1 and 2; Clarke, <i>Quart. Jour. Geol. Soc.</i> iv. p. 65; Davidson, * <i>Mon. Brit. Sil. Brachiopoda</i> , p. 323, t. 48, figs. 10—19.	Yarralumla, Murray District, N. S. Wales.
<i>L. quinquecostata</i> , <i>M'Coy.</i>	U. Sil. (Up. Llandov.).	<i>Orthis</i> , * <i>Sil. Foss. Ireland</i> , 1862, p. 33, t. 3, f. 8; Davidson, * <i>Mon. Brit. Sil. Brachiopoda</i> , p. 322, t. 48, figs. 23—27; de Kon. * <i>Foss. Pal. Nouv.-Galles du Sud</i> , 1876, p. 26.	Yarralumla, N. S. Wales.

Genus *Leptagonia*, M'Coy, 1852. (*Brit. Pal. Foss.* p. 247<sup>1</sup>.) Vide *Strophomena.*

<i>L. depressa</i> , <i>Dalman.</i>		Vide <i>Strophomena rhomboidalis</i> , Wilckens.	
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<sup>1</sup> The name seems to have first appeared in the *Annals Nat. Hist.* 1851, VIII. p. 404.

## (Brachiopoda.)

## (Silurian.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
Genus <b>Meristella</b> , Hall, 1860 <sup>1</sup> . (Thirteenth Annual Report N. Y. State Cabinet, Nat. Hist. p. 74.)— <i>Clistenterata-Spiriferidae</i> .			
<i>M. tumida</i> , Dalman.	U. Sil. (Up. Llandov.).	<i>Atrypa</i> , *Kongl. Vet. Acad. Handl. för år 1827 (1828), p. 134, t. 5, f. 3; <i>Meristella</i> , Davidson, *Mon. Brit. Sil. Brach. 1867, p. 109, t. 11, figs. 1—13; <i>M. tumida?</i> de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 36.	Quadong, N. S. Wales.
Genus <b>Nucleospira</b> , Hall, 1859. (Pal. New York, III. p. 218 <sup>2</sup> .) <i>Clistenterata-Spiriferidae</i> .			
<i>N. Australis</i> , M'Coy (ms.).	U. Sil. (May Hill Sandstone).	Geol. Survey, Vict. $\frac{1}{2}$ sheet 3, N.E. note.	Bruce's Creek, nr. Mount Macedon, Vict.
Genus <b>Orthis</b> , Dalman, 1828. (Kongl. Vet. Acad. Handl. för år 1827, p. 96.) <i>Clistenterata-Strophomenidae</i> .			
<i>O. elegantula</i> , Dalman.		M'Coy, Annals Nat. Hist. 1867, xx. p. 201; Davidson, *Mon. Brit. Sil. Brach. p. 211, t. 27, figs. 1—9; M'Coy, Smyth's Progress Rept. 1874, p. 34.	
<i>O. canaliculata</i> , Lindström.		Davidson, *Mon. Brit. Sil. Brach. p. 218, t. 27, figs. 12 and 13; de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 32.	Bell River, N. S. Wales.
Genus <b>Pentamerus</b> , J. Sowerby, 1813 (Min. Con. I. p. 73*) = <i>Gypidia</i> , Dalman. <i>Clistenterata-Pentameridae</i> .			
<i>P. Australis</i> , M'Coy (ms.).		Annals Nat. Hist. 1867, xx. p. 199; Bigsby, Thesaurus Sil., 1868, p. 110; M'Coy, Smyth's Progress Rept. 1874, p. 34.	
<i>P. Knightii</i> , J. Sow.	U. Sil. (Ludlow).	*Min. Con. 1813, I. p. 73, t. 28; Davidson, *Mon. Brit. Sil. Brachiopoda, p. 142, t. 16, figs. 1—3, t. 17, figs. 1—10, t. 19, f. 3; de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 30.	Mount Canoboles, N. S. Wales.
<i>P. oblongus</i> , J. de C. Sow.	U. Sil. (Up. Llandov.).	*Silurian Syst. 1839, p. 641, t. 19, f. 10, Davidson, *Mon. Brit. Sil. Brach. p. 151, t. 18, figs. 1—12, t. 19, figs. 1 and 2; Wood's Geol. Obs. S. Austr. 1862, p. 20; Clarke, Remarks Sed. Form. N. S. Wales, 3rd ed. 1875, p. 10; de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 31.	Duntroon, N. S. Wales; 30 m. S. of Adelaide, S. Australia.

<sup>1</sup> In truth proposed in 1859 (12th Report, State Cabinet, p. 78), but only described in 1860, as above.<sup>2</sup> See also 12th Ann. Report N. Y. State Cab. Nat. Hist. 1859, p. 24.

## (Brachiopoda.)

## (Silurian.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
Genus <b>Porambonites</b> , Pander, 1830. (Beiträge Geog. Russ. Reiches, p. 95; Davidson, Introduction, p. 99.)— <i>Clistenterata-Rhynchonellida</i> .			
<i>P. deformatus</i> , Eichwald.	U. Sil.	<i>Terebratula</i> , *Zool. Spec. 1829, i. p. 275, t. 4, f. 8; <i>Porambonites</i> , * <i>Lethæa Rossica</i> , 1860, i. p. 796; <i>id.</i> M'Coy, in Couchman's Progress Report, 1877, iv. p. 155.	Chiltern, Vict.
Genus <b>Retzia</b> , King, 1850 (Permian Foss. p. 137) = <i>Spirigera</i> , D'Orbigny, 1849. <i>Clistenterata-Spiriferida</i> .			
<i>R. mima</i> , Salter (ms.).	L. Sil.	Bigsby, Thesaurus Sil. 1868, p. 112.	Tasmania West.
<i>R. Salteri</i> , Davidson.	U. Sil. (Up. Llandov.).	<i>Terebratula</i> , *Bull. Soc. Géol. de France, 2nd ser. v. 1848, p. 331, t. 3, f. 31; de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 34.	Yarralumla, N. S. Wales.
Genus <b>Rhynchonella</b> , Fischer, 1809 (Notice Foss. Gouv. Moscou, p. 35; Davidson, Introduction, p. 98) = <i>Hypothyris</i> , Phillips; <i>Hemithyris</i> , D'Orbigny. <i>Clistenterata-Rhynchonellida</i> .			
<i>R. borealis</i> , Schlotheim.	U. Sil.	<i>Terebratula</i> , System. Verzeich. Pet. Samm. 1832, No. 88, p. 65; <i>R. diodonta</i> , Dalman, *Kongl. Vet. Acad. Handl. 1828, p. 142, t. 6, f. 4; <i>R. borealis</i> , Davidson, *Mon. Brit. Sil. Brach. p. 174, t. 22, figs. 9—12; <i>R. diodonta</i> , M'Coy, Geol. Survey, Vict. $\frac{1}{4}$ sheet 3, N.E. note; <i>id. ibid.</i> Annals Nat. Hist. 1867, xx. p. 199; <i>Rhynchonella</i> , Bigsby, Thesaurus Sil. 1868, p. 114; <i>Hemithyris diodonta</i> , M'Coy, Smyth's Progress Rept. 1874, p. 34.	Bruce's Creek, nr. Mount Macedon, Vict.
<i>R. subsphæroidalis</i> , M'Coy (ms.).	U. Sil.	Geol. Survey, Vict. $\frac{1}{4}$ sheet 4, S.W. note.	Near the Bald Hill, Kilmore, Vict.
<i>Rhynch. Wilsoni</i> , J. Sowerby.	U. Sil.	<i>Terebratula</i> , *Min. Con. 1816, ii. p. 38, t. 118, f. 3; <i>Rhynchonella</i> , Davidson, Annals Nat. Hist. 1852, ix. pp. 250—53, t. 13; <i>id. ibid.</i> *Mon. Sil. Brach. 1867, pt. VII. No. 2, p. 167, t. 23, figs. 1—9; <i>id.</i> M'Coy, in Couchman's Progress Report, 1877, iv. p. 155.	Chiltern, Vict.
Genus <b>Siphonotreta</b> , De Verneuil, 1845. (Murchison's Geol. Russia, ii. p. 286.) <i>Tretenterata-Discinida</i> .			
<i>S. micula</i> , M'Coy.	L. Sil.	*Brit. Pal. Foss. Fascic. 2, 1852, p. 188, t. 1 H, f. 3; Ex. Essay, 1861, p. 162; Annals Nat. Hist. 1862, ix. p. 139; <i>ibid.</i> 1867, xx. p. 201; Bigsby, Thesaurus Sil. 1868, p. 117; M'Coy, Smyth's Progress Rept. 1874, p. 33.	Deep Creek, Vict.

(Brachiopoda.)		(Silurian.)	
Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
Genus <i>Spirifera</i> , <i>J. Sowerby</i> , 1816 <sup>1</sup> (Min. Con. II, p. 41) = <i>Delthyris</i> , Dalman; <i>Brachythyris</i> , M'Coy; <i>Choristites</i> , Fischer; <i>Trigonotreta</i> , König. <i>Clistenterata-Spiriferidae</i> .			
<i>S. crispa</i> , <i>Hisinger</i> .	U. Sil. (Up. Llandov.).	<i>Terebratula</i> , *Kongl. Vet. Acad. Handl. för år 1826, t. 7, f. 4: <i>Spirifera</i> , Davidson, *Mon. Brit. Sil. Brach. p. 97, t. 10, figs. 13—15; de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 35.	Rock-flat Creek, N. S. Wales.
<i>S. cyrtæna</i> , <i>Dalman</i> .		Vide <i>S. plicatella</i> , Linn.	
<i>S. plicatella</i> , <i>Linn.</i>	U. Sil.?	<i>Anomia</i> , Systema, 1758, 10th ed. p. 700; 1767, 12th ed. i. pt. 2, p. 1152; <i>Delthyris cyrtæna</i> , Dalman, *Kongl. Vet. Acad. Handl. 1828, p. 121, t. 3, f. 4; <i>Spirifera cyrtæna</i> , M'Coy, Geol. Survey, Vict. † sheet 4, S.W. note; <i>S. plicatella</i> , Davidson, *Mon. Brit. Sil. Brach. p. 84, t. 9, f. 12.	Kilmore Creek, Vict.
Genus <i>Strophomena</i> ( <i>Rafinesque</i> , 1820?), <i>Blainville</i> , 1824. (Dict. Sc. Nat. xxxii. p. 302.) <i>Clistenterata-Strophomenidae</i> .			
<i>S. compressa</i> , <i>J. de C. Sow.</i>	U. Sil. (Up. Llandov.).	<i>Orthis</i> , *Silurian Syst. 1839, p. 638, t. 22, f. 12; <i>Strophomena</i> , Davidson, *Brit. Sil. Brach. p. 315, t. 46, figs. 7—10; <i>Leptæna</i> , de Kon. *Foss. Pal. Nouv.-Galles du Sud, p. 27.	Duntroon, N. S. Wales.
<i>S. depressa</i> , <i>M'Coy</i> .		Vide <i>S. rhomboidalis</i> , Wilckens.	
<i>S. filosa</i> , <i>J. de C. Sow.</i>	U. Sil. (Up. Llandov.).	<i>Orthis</i> , *Silurian Syst. 1839, p. 630, t. 13, f. 12; <i>Strophomena</i> , Davidson, *Mon. Brit. Sil. Brach. p. 307, t. 44, figs. 14—20; <i>S. filosa</i> ? de Kon. *Foss. Pal. Nouv.-Galles du Sud, p. 29.	Yass, N. S. Wales.
<i>S. pecten</i> , <i>Linn.</i>	U. Sil. (Up. Llandov.).	<i>Anomia</i> , Systema, 1767, 12th ed. i. pt. 2, p. 1152; <i>Strophomena</i> , Davidson, *Mon. Brit. Sil. Brach. p. 304, t. 43, figs. 1—11; de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 28.	Yarralumla, N. S. Wales.
<i>S. rhomboidalis</i> , <i>Wilckens</i> .	U. Sil.	<i>Conchita</i> , Nach. v. Seltener Verst. 1769, p. 79, t. 8, figs. 43 A, 44 A; Davidson, *Mon. Brit. Sil. Brach. p. 281, t. 39, figs. 1—21; <i>Leptæna (Leptagonia) depressa</i> , M'Coy, *Brit. Pal. Foss. Fascic. 2, 1852, p. 248; <i>Leptagonia depressa</i> , <i>ibid.</i> Annals Nat. Hist. 1867, xx. p. 201; <i>id. ibid.</i> Smyth's Progress Rept. 1874, p. 34; de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 28.	Rock-flat Creek, N. S. Wales.

<sup>1</sup> Agassiz says 1816 (*Nomenclator Zoologicus*, p. 84); Bronn says 1818 (*Index Pal.* p. 1172); Davidson says 1815 (*Introd. Brachiopoda*, p. 79).

## (Brachiopoda—Pelecypoda.)

(Silurian.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
Genus <b>Trematospira</b> , Hall, 1859. (12th Ann. Report, State Cabinet New York, p. 27; Pal. New York, III. p. 207; <i>ibid.</i> 1867, Vol. IV. p. 271.)— <i>Clistenterata-Spiriferidæ</i> .			
<i>T. formosa</i> , Hall.	U. Sil. (May Hill Sandstone).	<i>l. c.</i> p. 215, t. 36, figs. 2 a—t; M'Coy, Geol. Survey, Vict. $\frac{1}{4}$ sheet 3, N.E. note.	Bruce's Creek, nr. Mount Macedon, Vict.
<i>T. lispheura</i> , M'Coy (? ms.).	" "	Geol. Survey, Vict. $\frac{1}{4}$ sheet 3, N.E. note.	" "

## Section—Mollusca proper.

## Class—Pelecypoda (= Lamellibranchiata or Conchifera).

Genus **Ctenodonta**, Salter, 1852. (Brit. Ass. Rept. for 1851, pt. 2, p. 64.)  
Vide *Tellinomya*, Hall.

<i>C. amygdala</i> , Salter (ms.).	} Vide <i>Tellinomya</i> , Hall.
<i>C. antipoda</i> , Salter (ms.).	

Genus **Cyrtodonta**, Billings, 1858 (Geol. Survey, Canada, Report for 1857, p. 179)  
= *Cypricardites* (pars), Conrad, 1841; *Palæarca*, Hall, 1859; *Megalomus*, Hall, 1853.  
*Arcacea-Arcidæ*.

<i>C. auriculata</i> , Salter (ms.).	} L. Sil.	<i>Palæarca</i> , in Bigsby's Thesaurus Sil. 1868, p. 140.	Tasmania West.
<i>C. compressa</i> , "			
<i>C. distorta</i> , "			
<i>C. gibbosula</i> , "			
<i>C. inflata</i> , "			
<i>C. obliquata</i> , "			
<i>C. pinguis</i> , "			
<i>C. reversa</i> , "			

Genus **Orthonota**, Conrad, 1841. (5th Annual Rept. Pal. N. York, p. 50.)  
*Lucinacea-Solemyidæ*.

<i>O. amygdalina</i> , J. de C. Sow.	U. Sil.	<i>Cypricardia?</i> Murchison's *Sil. Syst. 1839, p. 609, t. 5, f. 2; <i>Leptodomus</i> , M'Coy, *Brit. Pal. Foss. p. 278; <i>Sanguinolites</i> , Morris, Cat. Brit. Foss. 2nd ed. 1854, p. 223; <i>Leptodomus</i> , M'Coy, Geol. Survey, Vict. $\frac{1}{4}$ sheet 4, S.W. note.	*Sil. Kilmore and Broadhurst Creeks, Vict.
<i>O. subrigida</i> , M'Coy (ms.).	U. Sil.	Geol. Survey, Vict. $\frac{1}{4}$ sheet 4, S.W. note.	" "

Genus **Palæarca**, Hall, 1859. (12th Ann. Report, State Cab. Nat. Hist. N. York, p. 9; Pal. N. York, 1859, III. pp. 271 and 523.) Vide *Cyrtodonta*, Billings.

<i>Palæarca auriculata</i> , Salter (ms.).	} Vide <i>Cyrtodonta</i> , Billings.
<i>P. compressa</i> , <i>P. distorta</i> , <i>P. gibbosula</i> , <i>P. inflata</i> , <i>P. obliquata</i> , <i>P. pinguis</i> , <i>P. reversa</i> , Salter (ms.).	

## (Pelecypoda—Gasteropoda.)

(Silurian.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
Genus <b>Pterinea</b> , <i>Goldfuss</i> , 1832. (Naturg. Atlases, Th. iv. p. 73; Petrefacta Germ. II. p. 133.)— <i>Mytilacea-Aviculidæ</i> .			
<i>P. amplicata</i> , <i>Philips</i> .	U. Sil. (Up. Llandov.).	<i>Avicula</i> , *Mems. Geol. Survey, 1858, i. pt. 1, p. 367, t. 23, f. 1; <i>id.</i> Morris, Cat. Brit. Foss. 2nd ed. 1854, p. 161; <i>Pterinea</i> , de Koninek, *Foss. Pal. Nouv.-Galles du Sud, 1876, pt. 1, p. 37.	Dangalong, N. S. Wales.
<i>P. pumila</i> , <i>de Koninck</i> .	" "	*Foss. Pal. Nouv.-Galles du Sud, 1876, pt. 1, p. 38; Atlas, t. 1, f. 7.	Yarralumla, N. S. Wales.
Genus <b>Tellinomya</b> , <i>Hall</i> , 1847 (Pal. N. York, i. p. 151) = <i>Ctenodonta</i> , <i>Salter</i> , 1852; non <i>Tellinomya</i> , <i>L. Agassiz</i> (= <i>Tellinmya</i> , <i>Brown</i> ).— <i>Arcacea-Nuculidæ</i> ?			
<i>T. amygdala</i> , <i>Salter</i> (ms.).	L. Sil.	<i>Ctenodonta</i> , in <i>Biggsby's Thesaurus Sil.</i> 1868, p. 133.	Tasmania West.
<i>T. antipoda</i> , " "	" "	" " "	" "

## Class—Gasteropoda.

Genus **Bellerophon**<sup>1</sup>, *de Montfort*, 1808. (Conch. Systématique, i. p. 51.)  
*Nucleobr.-Atlantidæ*.

<i>B. pugnus</i> , <i>Salter</i> (ms.).	L. Sil.	<i>Biggsby</i> , Thesaurus Sil. 1868, p. 144.	Tasmania West.
<i>B. Jukesii</i> , <i>de Koninck</i> .	U. Sil. (Up. Llandov.).	*Foss. Pal. Nouv.-Galles du Sud, 1876, p. 42; Atlas, t. 4, f. 2.	Rock-flat Creek, N. S. Wales.

Genus **Euomphalus**<sup>2</sup>, *J. Sowerby*, 1814. (Min. Con. i. p. 97.)—*Prosobr.-Turbinidæ*.

<i>E. ?alatus</i> , <i>Clarke</i> .		S. Goldfields, 1860, p. 288 (? = <i>E. ?alatus</i> , <i>Hisinger</i> , Leth. Suec. t. 11, f. 2).	
<i>E. pleurophorus</i> , <i>de Kon.</i>	U. Sil. (Ludlow).	*Foss. Pal. Nouv.-Galles du Sud, 1876, p. 40; Atlas, t. 1, f. 6.	Yass, N. S. Wales.
<i>E. sculptus</i> , <i>J. de C. Sowerby</i> .		*Silurian System, 1839, p. 626, t. 12, f. 17; <i>Sp. allied to</i> , M'Coy, Geol. Survey, Vict. ¼ sheet 4, S.W.	
<i>E. solarioides</i> , <i>de Kon.</i>	U. Sil. (Up. Llandov.).	*Foss. Pal. Nouv.-Galles du Sud, 1876, p. 39; Atlas, t. 1, f. 5.	Rock-flat Creek, N. S. Wales.

Genus **Eunema**, *Salter*, 1859. (Geol. Survey, Canada, Dec. i. pp. 24 and 29.)  
*Prosobr.-Litorinidæ*.

<i>E. æmula</i> , <i>Salter</i> (ms.).	L. Sil.	<i>Biggsby</i> , Thesaurus Sil. 1868, p. 152.	Tasmania West.
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<sup>1</sup> Notice was first drawn to shells constituting this genus by Baron de Hupsch, but the generic name was bestowed by de Montfort.<sup>2</sup> *Euomphalus* versus *Straparollus*. Some authors consider these genera as synonymous, but Meek and Worthen propose to separate them, sub-generically at least, as typified by *E. pentangulatus* and *S. Dionysii* respectively. (See their remarks, *Illinois Survey Report*, II. p. 158.)



## (Gasteropoda.)

## (Silurian.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
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Genus **Helicotoma**, *Salter*, 1859. (Geol. Survey, Canada, Dec. i. pp. 10 and 13.)  
*Prosobr.-Ianthinidæ.*

<i>H. Milligani</i> , <i>Salter</i> (ms.).	L. Sil.	Bigsby, Thesaurus Sil. 1868, p. 154.	Tasmania West.
<i>H. pusilla</i> , <i>Salter</i> (ms.).	L. Sil.	" " " "	" "

Genus **Holopæa**, *Hall*, 1847. (Pal. N. York, i. p. 169.)—*Prosobr.-?Haliotidæ*  
or *Litorinidæ.*

<i>H. Mumia</i> , <i>Salter</i> (ms.).	L. Sil.	Bigsby, Thesaurus Sil. 1868, p. 155.	Tasmania West.
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Subgenus **Hormotoma**, *Salter*, 1859. (Geol. Survey, Canada, Dec. i. pp. 18 and 22.)  
*Prosobr.-Pleurotomariidæ.*

<i>H. nerinæa</i> , <i>Salter</i> (ms.).	L. Sil.	Bigsby, Thesaurus Sil. 1868, p. 156.	Tasmania West.
<i>H. usitata</i> , " "	" "	" " " "	" "

Genus **Murchisonia**, *D'Archiac* and *De Verneuil*, 1841. (Bull. Soc. Géol. France,  
xii. p. 154.)—*Prosobr.-Pleurotomariidæ.*

<i>M. Franklini</i> , <i>Salter</i> (ms.).	L. Sil.	Bigsby, Thesaurus Sil. 1868, p. 158.	Tasmania West.
<i>M. mimetica</i> , " "	" "	" " " "	" "

Genus **Omphalotrochus**, *Meek*, 1864. (Geol. Survey Report, California, i. Pal.  
p. 16.)—*Prosobr.-Turbinidæ.*

<i>O. Clarkei</i> , <i>de Konink.</i>	U. Sil. (Ludlow).	*Foss. Pal. Nouv.-Galles du Sud, 1876, p. 41; Atlas, t. 1, f. 7.	Yass, N. S. Wales.
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Genus **Raphistoma**, *Hall*<sup>1</sup>, 1847. (Pal. N. York, i. p. 28.)—*Prosobr.-Ianthinidæ.*

<i>R. æterna</i> , <i>Salter</i> (ms.).	L. Sil.	Bigsby, Thesaurus Sil. 1868, p. 165.	Tasmania West.
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Genus **Scalites** (*Conrad* ms.), *Emmons*, 1842. (Geol. N. York, pt. 2, p. 312<sup>2</sup>.)  
*Prosobr.-Ianthinidæ.*

<i>S. Australis</i> , <i>Salter</i> (ms.).	L. Sil.	Bigsby, Thesaurus Sil. 1868, p. 165.	Tasmania West.
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Genus **Trochonema**, *Salter*, 1859. (Geol. Survey, Canada, Dec. i. pp. 24 and 27.)  
*Prosobr.-Litorinidæ.*

<i>T. Bigsbyana</i> , <i>Salter</i> (ms.).	L. Sil.	Bigsby, Thesaurus Sil. 1868, p. 166.	Tasmania West.
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<sup>1</sup> According to *Salter* *Raphistoma*, *Hall*, *Helicotoma*, *Salt*, and *Ophileta*, *Vanuxem*, are sub-genera of *Conrad's* genus *Scalites*.

<sup>2</sup> Figured (*S. angulatus*, *Con.* ms.) but not described.

## (Pteropoda—Cephalopoda.)

(Silurian.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
<i>Class—Pteropoda. Section—Thecosomata.</i>			
Genus <b>Conularia</b> ( <i>Miller</i> ), <i>J. Sowerby</i> , 1820 <sup>1</sup> . ( <i>Min. Con.</i> iii. p. 107.)— <i>Hyaloidæ</i> .			
<i>C. Sowerbii</i> , <i>De-france</i> .	U. Sil. (Up. Llandov.).	Blainville, * <i>Man. de Malacol.</i> 1825, i. p. 378, Atlas, pl. 14, f. 2; de Verneuil and Keyserling, * <i>Geol. Russia</i> , Vol. II. Pal. p. 348, t. 24, f. 5; de Koninck, * <i>Foss. Pal. Nouv.-Galles du Sud</i> , 1876, p. 43.	Rockflat Creek, <i>N. S. Wales</i> .

Genus **Tentaculites**, *Schlothheim*, 1820. (*Petrefactenkunde*, p. 377.)—*Hyaloidæ*.

<i>T. annulatus</i> , <i>Clarke</i> .		S. Goldfields, 1860, p. 286; (? <i>T. annulatus</i> , <i>Schl. l. c.</i> p. 377, t. 29, f. 8.)	
<i>T. ornatus</i> , <i>Clarke</i> .		S. Goldfields, 1860, p. 286; (? <i>T. ornatus</i> , <i>Sow.</i> * <i>Sil. Syst.</i> 1839, p. 628, t. 12, f. 35.)	
<i>T. tenuis</i> , <i>Clarke</i> .		<i>l. c.</i> p. 286; (? <i>T. tenuis</i> , <i>Sow.</i> * <i>Sil. Syst.</i> 1839, p. 613, t. 5, f. 33.)	

*Class—Cephalopoda.*Genus **Lituites**, *Breyneius*, 1732 (*Dissert. de Polythal.* pp. 12 and 25.)  
*Tetrabranch-Nautilidæ*.

<i>L. Gouldii</i> , <i>Salter</i> (ms.).	L. Sil.	Bigsby, <i>Thesaurus Sil.</i> 1868, p. 174.	Tasmania West.
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Genus **Orthoceras**, *Breyneius*, 1732 (*Dissert. de Polythal.* pp. 12 and 28)  
= *Loxoceras*, *M'Coy*.—*Tetrabranch-Orthoceratidæ*.

<i>O. antilope</i> , <i>Salter</i> (ms.).	L. Sil.	Bigsby, <i>Thesaurus Sil.</i> 1868, p. 176.	Tasmania West.
<i>O. bullatum</i> , <i>J. de C. Sowerby</i> .	U. Sil. (Ludlow).	* <i>Silurian Syst.</i> 1839, p. 705, t. 5, f. 29; <i>M'Coy</i> , <i>Ex. Essay</i> , 1861, p. 162; <i>id.</i> <i>Annals Nat. Hist.</i> 1862, ix. p. 140; <i>id. ibid.</i> 1867, xx. p. 198; Bigsby, <i>Thesaurus Sil.</i> 1868, p. 176; <i>M'Coy</i> , <i>Smyth's Progress Rept.</i> 1874, p. 34.	Melbourne, <i>Vict.</i>
<i>O. Murchisoni</i> , <i>Salter</i> (ms.).	L. Sil.	Bigsby, <i>Thesaurus Sil.</i> 1868, p. 179.	Tasmania West.
<i>O. Theca</i> , <i>Salter</i> (ms.).	"	" " " " p. 182.	" "
<i>O. Youngii</i> , <i>Salter</i> (ms.).	"	" " " "	" "
<i>O. ibex</i> , <i>J. de C. Sowerby</i> .	U. Sil. (Up. Llandov.).	* <i>Silurian Syst.</i> 1839, p. 613, t. 5, f. 30; <i>Salter</i> , <i>Murchison's Siluria</i> , 1867, 4th ed. t. 29, figs. 3 and 4; de Kon. * <i>Foss. Pal. Nouv.-Galles du Sud</i> , 1876, p. 44.	Rockflat Creek, <i>N. S. Wales</i> .

<sup>1</sup> Bronn and Morris agree in assigning the date 1818 to this genus; Agassiz, on the other hand, says 1820; the latter is correct.

MIDDLE AND UPPER PALÆOZOIC.

(DEVONIAN AND CARBONIFEROUS.)



(Plantæ.)

(Mid. and Up. Palæozoic.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
<i>Kingdom—Plantæ. (Cryptogamia et Phanerogamia.)</i>			
Genus <b>Adiantites</b> , <i>Goppert</i> , 1836. (Syst. Sil. Foss. pp. 173 and 216; <i>Adiantides</i> , Schimper, <i>Traité de Pal. Vég.</i> 1869, i. p. 424.)— <i>Filices-Neuropteridæ</i> .			
A. <i>eximius</i> , <i>Bunbury</i> (ms.).	U.Pal. (Carb. = L. Coal measures).	Clarke, <i>Remarks Sed. Form. N. S. Wales</i> , 3rd ed. 1875, p. 31.	N. S. Wales.
Genus <b>Alethopteris</b> , <i>Sternberg</i> , 1825. (Flora du Monde Prim. 1826, fas. 4, p. xxi.; Schimper, <i>Traité de Pal. Vég.</i> 1869, i. p. 554.)— <i>Filices-Pecopteridæ</i> .			
A. <i>lonchitica</i> , <i>Brongniart</i> .	U.Pal. (Carb. = L. Coal measures).	<i>Pecopteris</i> , * <i>Hist. Végétaux Foss.</i> 1828, i. p. 275, t. 84, figs. 1—7; <i>A. lonchitidis</i> , <i>Sternberg</i> , * <i>Flora d. Vorwelt</i> , 1825, fas. 4, p. xxi.; <i>A. lonchitica</i> , <i>Schimper</i> , * <i>Traité Pal. Vég.</i> 1869, i. p. 554; <i>id.</i> <i>Clarke, Remarks Sed. Form. N. S. Wales</i> , 1875, 3rd ed. p. 31.	N. S. Wales.
Genus <b>Aneimites</b> , <i>Dawson</i> , 1861. ( <i>Quart. Jour. Geol. Soc.</i> xvii. p. 5; <i>Foss. Plants Dev. and Sil. For. Canada</i> , 1871, p. 48; <i>Schimper, Traité de Pal. Vég.</i> 1874, iii. p. 489.)— <i>Filices-Neuropteridæ</i> .			
A. <i>Iguanensis</i> , <i>M'Coy</i> .	Mid. Pal. (U. Dev.=Iguana Creek beds).	<i>Smyth's Progress Report</i> , 1875, p. 73; <i>Couchman's ibid.</i> 1877, iv. pp. 155, 156.	Iguana Creek, <i>Vict.</i>
Genus <b>Archæopteris</b> , <i>Dawson</i> , 1863. ( <i>Canadian Nat.</i> viii. (!); <i>Foss. Plants Dev. and Up. Sil. For. Canada</i> , 1871, p. 48.)— <i>Filices-Neuropteridæ</i> .			
A. <i>Howitti</i> , <i>M'Coy</i> .	Mid. Pal. (U. Dev.=Iguana Creek beds).	<i>Smyth's Progress Report</i> , 1875, ii. p. 73; <i>ibid.</i> 1876, iii. p. 62; <i>Couchman's ibid.</i> 1877, pp. 155, 156; * <i>Geol. Survey, Vict.</i> Dec. iv. p. 21, t. 36, f. 1—2 a.	Iguana Creek, <i>Vict.</i>
Genus <b>Bornia</b> , <i>F. A. Roemer</i> , 1850. ( <i>Palæontographica</i> , iii. p. 45; <i>Schimper, Traité de Pal. Vég.</i> i. p. 334.)— <i>Equisetaceæ</i> .			
B. <i>radiata</i> , <i>Brongniart</i> .	U.Pal. (Carb. = Lr. Marine beds, and L. Coal measures).	<i>Calamites</i> , * <i>Hist. Vég. Foss.</i> 1828, i. p. 122, t. 26, f. 1 and 2; <i>Bornia</i> , <i>Schimper</i> , * <i>Traité Pal. Vég.</i> 1869, i. p. 335, t. 24, f. 1—10; de <i>Koninck</i> , <i>Foss. Pal. Nouv.-Galles d. Sud</i> , 1877, pt. 3, p. 142, t. 7, f. 1.	N. S. Wales.

(Plantæ.)

(Mid. and Up. Palæozoic.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
Genus <b>Calamites</b> , <i>Suckow</i> , 1794. (Acta Acad. Theod.-Palat. v. p. 355; Schimper, <i>Traité de Pal. Vég.</i> 1869, i. p. 292.)— <i>Equisetaceæ</i> .			
<i>C. varians</i> , <i>Sternberg</i> .	U.Pal.(Carb. = Lr. Marine beds and L.Coal measures).	Flora du Monde Prim. ii. p. 50, t. 12; Germar. * <i>Verstein. Steinkoh. Wettin. u. Löbejün.</i> p. 47, t. 20; de Koninck, <i>Foss. Pal. Nouv.-Galles du Sud</i> , 1877, pt. 3, p. 142. (? <i>C. approximatus</i> , Schimper, <i>Traité de Pal. Vég.</i> 1869, i. p. 314.)	N. S. Wales.
Genus <b>Cordaites</b> , <i>Unger</i> , 1850. (Gen. et Sp. Plantarum, 2nd ed. p. 277; Grand'Eury, <i>Flore Carbonif. Départ. de la Loire</i> , 1877, pt. 1, p. 208.) <i>Cycadaceæ</i> .			
<i>C. Australis</i> , <i>M'Coy</i> .	Mid. Pal. (U. Dev.=Iguana Creek beds).	Smyth's Progress Report, 1875, ii. p. 73; <i>ibid.</i> 1876, iii. p. 62; Couchman's <i>id.</i> 1877, iv. pp. 155, 156; * <i>Geol. Survey, Vict. Dec.</i> iv. 1876, p. 22, t. 36, f. 6 and 7.	Iguana Creek, <i>Vict.</i>
<i>C. sp. ind.</i>		Crepin, <i>Bull. l'Acad. R. Belgique</i> , 1875, xxxix. p. 265.	
Genus <b>Glossopteris</b> <sup>1</sup> , <i>Brongiart</i> , 1828. (Prodrome, p. 54; Histoire de Vég. Foss. p. 222; Schimper, <i>Traité de Pal. Vég.</i> 1869, i. p. 644; Feistmantel, <i>Records, Geol. Survey India</i> , 1873, ix. pt. 3, p. 71.)— <i>Filices-Dictyopterideæ</i> .			
<i>G. Browniana</i> , <i>Brongiart</i> .	U.Pal.(Carb. = Lr. Coal measures, with Marine fauna).	Prodrome, 1828, p. 54; <i>G. Browniana</i> var. <i>Australasiaca</i> , * <i>Histoire</i> , 1828, i. p. 223, t. 62; <i>G. Browniana</i> , Morris, <i>Strzelecki's *Phys. Descrip. N. S. Wales</i> , 1845, p. 247, t. 6, f. 1; <i>id.</i> <i>M'Coy</i> , * <i>Annals Nat. Hist.</i> 1847, xx. p. 150; <i>id. ibid.</i> * <i>Proc. R. Soc. -V. D. Land</i> , 1851, i. p. 307; Dana, * <i>Geol. U.S. Expl. Expd.</i> p. 716; <i>Atlas</i> , t. 14, f. 12? and 13; Plevs, <i>Mining Inst. Jour.</i> 1858, vi. pt. 3, pl. 3; <i>Bunbury, Quart. Jour. Geol. Soc.</i> 1860, xvii. p. 330, t. 9, f. 1—4; Göppert, * <i>Syst. Fil. Foss.</i> p. 364, t. 21, f. 9 and 10; Unger, <i>Gen. et Sp.</i> 1850, p. 169; Schimper, * <i>Traité de Pal. Vég.</i> 1869, i. p. 645; Carruthers, <i>Quart. Jour. Geol. Soc.</i> 1872, xxviii. p. 354; <i>M'Coy</i> , <i>Smyth's Progress Report</i> , 1874, p. 24; <i>id.</i> <i>Geol. Survey, Vict. Dec.</i> i. 1874, p. 34; Clarke, <i>Remarks Sed. Forms N. S. Wales</i> , 1875, 3rd ed. pp. 19—36; <i>G. Browniana</i> , var. <i>Australasiaca</i> , Feistmantel, <i>Records, Geol. Survey, India</i> , 1876, ix. pt. 3, p. 72; <i>id. ibid. id.</i> ix. pt. 4, p. 124.	N. S. Wales.

<sup>1</sup> I am uncertain as to the number of species of *Glossopteris* found in the Carboniferous portion of the N. S. Wales coal-bearing rocks, but an enumeration of all the Australian species known to me will be found in the Secondary portion of the Catalogue (*post*).

(Plantæ.)

(Mid. and Up. Palæozoic.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
Genus <b>Lepidodendron</b> , <i>Sternberg</i> , 1820. (Flora du Monde Prim. fas. 1, p. 25, fas. 4, p. x.; Schimper, <i>Traité de Pal. Vég.</i> 1870, II. p. 14.)— <i>Lycopodiaceæ</i> .			
<i>L. Australis</i> , <i>M'Coy</i> .	U.Pal.(Carb. = Avon R. Sandstones).	<i>L. sp. ind.</i> Exhib. Essay, 1861, p. 163; <i>id.</i> Selwyn, Phys. Geogr. and Geol. Vict. 1866, pp. 10 and 16; <i>id.</i> M'Coy, <i>Annals Nat. Hist.</i> 1862, ix. p. 141; <i>id. ibid.</i> 1867, xx. pp. 197 and 198; <i>Lep. Australis</i> , Smyth's Progress Report, 1874, p. 34; <i>L. (Bergeria)</i> M'Coy, *Geol. Survey, Vict. 1874, Dec. I. p. 37, t. 9.	Avon R. <i>Vict.</i>
<i>L. nothum</i> , <i>Unger</i> .	M.Pal.(Dev.) U.Pal.(Carb. = Lr. Marine beds).	*Denksch. k. Akad. Wien, 1856, xi. p. 175, t. 10, f. 4—8; Carruthers, *Quart. Jour. Geol. Soc. 1872, xxviii. pp. 350, 353, t. 26, f. 1—5, f. 7—14; Schimper, * <i>Traité de Pal. Vég.</i> 1870, II. p. 31; Clarke, Sed. Formations N. S. Wales, 3rd ed. 1875, pp. 15 and 17. <i>Ulodendron Templeri</i> , Clarke, Quart. Jour. Geol. Soc. 1848, iv. p. 61.	MountWyatt; Ryedale, Mt. Lambie Range, <i>Qu.</i>
<i>L. rimosum</i> , <i>Sternberg</i> .	U.Pal.(Carb. = Lr. Marine beds).	Flora du Monde Prim. fas. 1, p. 25, t. 10, f. 1; Schimper, * <i>Traité de Pal. Vég.</i> 1870, II. p. 33; Clarke, Remarks Sed. Form. N. S. Wales, 1875, 3rd ed. p. 17.	Rouchel River.
<i>L. Veltheimianum</i> , <i>Sternberg</i> .	U.Pal.(Carb. = Lr. Marine beds).	Flora du Monde Prim. fas. 4, 1825, p. XII. t. 52, f. 3; Schimper, * <i>Traité de Pal. Vég.</i> 1870, II. p. 29; de Koninek, Pal. Foss. Nouv.-Galles du Sud, 1877, pt. 3, p. 142.	
<i>L. sp. ind.</i>	Upper Pal. (Carb.?).	Stutchbury, Parl. Blue Book, Dec. 1854, p. 20, cut.	Oakly Creek, near Cobadah, N. S. <i>Wales</i> .

Genus **Leptophleum**, *Dawson*, 1862. (Quart. Jour. Geol. Soc. XVIII. p. 316.)  
*Lycopodiaceæ*.

<i>L. rhombicum</i> , <i>Dawson</i> .	M.Pal.(Dev.)	* <i>loc. cit.</i> p. 316, t. 12, f. 8; t. 17, f. 53; *Foss. Plants, Dev. and Up. Sil. Form. Canada, 1871, p. 36, t. 8, f. 88 and 89; Daintree, Quart. Jour. Geol. Soc. 1872, xxviii. p. 289; Carruthers, * <i>ibid.</i> p. 353.	MountWyatt; Cancoona and Broken River, <i>Qu.</i>
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Genus **Phyllothea**<sup>1</sup>, *Brongniart*, 1828. (Prodrome, p. 151; Schimper, *Traité de Pal. Vég.* 1869, I. p. 288.)—*Equisetaceæ*?

<i>P. Hookeri</i> , <i>M'Coy</i> .	U.Pal.(Carb. = L. Coal measures).	* <i>Annals Nat. Hist.</i> 1847, xx. p. 157, t. 11, f. 4—7; Proc. R. Soc. V. D. Land, 1851; I. p. 313.	
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<sup>1</sup> For further species of this genus see the Secondary or Mesozoic portion of the Catalogue.

(Plantæ.)

(Mid. and Up. Palæozoic.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
		t. 11, f. 4—7; Unger, Gen. et Sp. 1850, p. 73; Plews, Mining Inst. Jour. 1858, vi. pt. 3, t. 3; Clarke, S. Goldfields, 1860, p. 285; de Zigno, *Fl. Foss. Form. Ool. 1856—68, i. p. 59; Schimper, Traité de Pal. Vég. 1869, i. p. 289. (? <i>Calamites</i> or <i>Equisetum</i> , Feistmantel, Records, Geol. Survey, India, 1876, ix. pt. 3, p. 70.)	
Genus <i>Sphenopteris</i> , Brongniart, 1828. (Prodrome, p. 50; Hist. Vég. Foss. p. 169; Schimper, Traité Pal. Vég. i. 1869, p. 367.)— <i>Filices-Sphenopterideæ</i> .			
S. Iguanensis, <i>M<sup>c</sup>Coy</i> .		*Geol. Survey, Vict. Dec. iv. 1876, p. 22, t. 36, f. 3—5 a; Couchman's Progress Report, 1877, iv. p. 158.	Iguana Creek, Vict.
Genus <i>Syringodendron</i> , Sternberg, 1824. (Flora du Monde Prim. fas. 3, p. 28, fas. 4, p. xxiv.; Brongniart, Hist. Vég. Foss. 1828, p. 479.)— <i>Lycopodiaceæ</i> .			
S. dichotomum, <i>Haughton</i> .	U. Pal. (Carb. = Lr. Marine beds).	<i>Sigillaria</i> , Jour. Geol. Soc. Dublin, vi. p. 234; <i>Cyclostigma Kiltorkense</i> , Annals Nat. Hist. 1860, v. p. 444; <i>Syringo. dichotomum</i> , Carruthers, Quart. Jour. Geol. Soc. 1872, xxviii. p. 354; <i>id.</i> Clarke, Remarks Sed. Form. N. S. Wales, 1875, 3rd ed. p. 17.	Rouchel R.
Genus <i>Ulodendron</i> , Lindley and Hutton, 1831 (Fossil Flora, i. p. 22; Schimper, Traité de Pal. Vég. 1870, ii. p. 38)— <i>Bothrodendron</i> , L. and H., <i>Megaphyton</i> , Artis.— <i>Lycopodiaceæ</i> .			
U. Templeri, Clarke.		Vide <i>Lepidodendron nothum</i> , Unger.	

Notes: (a) *Lepidodendron*. This genus appears to have been found in Australia at an early date by the explorer Leichhardt, on the Manilla River, borders of Queensland, and by Stutchbury on the Storton River (*Parl. B. B.* Dec. 1854). The Rev. W. B. Clarke reports specimens of *Lepidodendron* from the Peel River; near Goonoooonoo; to the W. of Bathurst, Wellington Valley; and Canoona on the Fitzroy or Mackenzie River. (*Quart. Jour. Geol. Soc.* xvii. p. 356; S. Goldfields, p. 285; also see Keene, "On the Coal Measures of N. S. Wales, with *Spirifer*, *Glossopteris*, and *Lepidodendron*," *Quart. Journ.* xxi. p. 137.)

(b) *Syringodendron*. Mr Carruthers observed in a collection of plants forwarded to the Geological Society of London by the Rev. W. B. Clarke, a fragment of a *Lepidodendron* plant which he could not distinguish from *S.* (*Cyclostigma*) *Kiltorkense*. Haughton (*Quart. Jour.* xxviii. p. 354).

(c) *Sagenaria*. A fragment in the Daintree Collection appeared to indicate, to Mr Carruthers, a third species of *Lepidodendron*, allied to *S.* (*Lepidodendron*) *obovata*. Eichwald (*l.c.*).

(d) *Calamites*, *Stigmara*, &c. It is to be noted that the Rev. W. B. Clarke states that *Stigmara*, *Sigillaria*, *Halonia* and *Calamites* are common in the Carboniferous rocks of N. S. Wales. (*Quart. Jour.* iv. p. 60.)

(e) *Coniferous Trees*. Trunks of Coniferæ were found by the same observer on the coast of N. S. Wales at Wanniarree in the same beds with *Spirifers* (*Quart. Jour.* iv. p. 60; see also Nicol, *Edinburgh New Phil. Jour.* 1832, iv. p. 153; Dana, *Geol. U. S. Exploring Exp.* p. 714).



## (Rhizopoda—Actinozoa.)

## (Mid. and Up. Palæozoic.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
<i>Kingdom—Animalia. Sub-kingdom—Protozoa. Class—Rhizopoda.</i>			
Genus <i>Archæocyathus</i> , Billings, 1861. (Geol. Survey, Canada, Pal. Foss. I, p. 3.) <i>Hexactinellidæ-Euretidæ.</i>			
<i>A.?</i> <i>Clarkei</i> , <i>de Koninck.</i>	Mid. Pal. (L. Dev.).	*Foss. Pal. Nouv.-Galles du Sud, 1876, p. 60, Atlas, t. 2, f. 1.	Yass, N. S. Wales.
Genus <i>Stromatopora</i> , Goldfuss, 1826 (see p. 3).			
<i>S. concentrica</i> , <i>Goldfuss.</i>	Mid. Pal. (M. Dev.).	*Pet. Germaniæ, 1826, I. p. 22, t. 8, f. 5; Lonsdale, Silurian System, 1839, t. 15, f. 31; Phillips, *Pal. Foss. Devon. 1841, p. 18, t. 10, f. 28; M'Coy, *Brit. Pal. Foss. p. 65; <i>id.</i> Couchman's Progress Report, 1877, iv. p. 158.	Bindi, Vict.

*Sub-kingdom—Cœlenterata. Class—Actinozoa.*Genus *Alveolites*, Lamarck, 1801 (see p. 10).—*Tabulata.*

<i>A. Mackloti</i> , <i>Beyrich.</i>	U. Pal. (Carb.)	Abhandl. K. Akad. Wissensch. Berlin, 1865, xxxvi. p. 86, t. 2, f. 10 <i>a</i> and <i>b</i> .	Timor.
<i>A. obscurus</i> , <i>de Koninck.</i>	Mid. Pal. (L. Dev.).	*Foss. Pal. Nouv.-Galles du Sud, 1876, p. 77, Atlas, t. 1, f. 11.	Yass, N. S. Wales.
<i>A. subæqualis</i> , <i>Edwards</i> and <i>Haime.</i>	Mid. Pal. (L. Dev.).	*Polyp. Foss. Terr. Pal. p. 256, t. 17, f. 4; de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 77.	Mowara, N. S. Wales.

Genus *Amplexus*, J. Sowerby, 1814<sup>1</sup> (Min. Con. I. p. 165) = *Cyathopsis*, D'Orbigny.  
*Rugosa.*

<i>A. arundinaceus</i> , <i>Lonsdale.</i>	U. Pal. (Carb.)	*Strzelecki's Phys. Descr. N. S. Wales, 1845, p. 267, t. 8, f. 1; M'Coy, Annals Nat. Hist. 1847, xx. p. 228; Clarke, Quart. Jour. Geol. Soc. iv. p. 65; <i>id.</i> S. Goldfields, 1860, p. 285; Edw. and Haime, Polyp. Foss. Terr. Pal. p. 347; M. Edwards, Hist. Nat. Corall. 1860, p. 352; de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 149.	Shoalhaven, Curradalla, N. S. Wales.
<i>A. Selwyni</i> , <i>de Koninck.</i>	Mid. Pal. (L. Dev.).	*Foss. Pal. Nouv.-Galles du Sud, 1876, p. 73, Atlas, t. 2, f. 2.	Yass, Quadong, N. S. Wales.

<sup>1</sup> Agassiz gives the date of this genus as 1812, with the same reference.

## (Actinozoa.)

## (Mid. and Up. Palæozoic.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
Genus <b>Axophyllum</b> , <i>M. Edwards and Haime</i> , 1850. (Mon. Brit. Foss. Corals, Introd. p. lxxii.)— <i>Rugosa</i> .			
A. ? Thomsoni, <i>de Koninck</i> .	U. Pal. (Carb.)	*Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 143, t. 5, f. 3.	Jarvis Bay, and Cochocolo, N. S. Wales.
Genus <b>Billingsia</b> , <i>L. G. de Koninck</i> , 1876. (Foss. Pal. Nouv.-Galles du Sud, p. 75.) <i>Tabulata</i> .			
B. <i>alveolaris, de Koninck</i> .	Mid. Pal. (L. Dev.)	*l.c. p. 75, Atlas, t. 2, f. 4.	Yass, N. S. Wales.
Genus <b>Calamopora</b> , <i>Goldfuss</i> , 1826. (Petrefacta Germ. i. p. 77.) Vide <i>Favosites</i> .			
C. <i>sp. ind. (Beyrich)</i> .		Vide <i>Favosites</i> .	
Genus <b>Campophyllum</b> , <i>Edwards and Haime</i> , 1850. (Mon. Brit. Foss. Corals, Introd. p. lxxviii.)— <i>Rugosa</i> .			
C. <i>flexuosum, Goldfuss</i> .	Mid. Pal. (L. Dev.)	<i>Cyathophyllum</i> , *Petrefacta, i. p. 57, t. 17, f. 3; de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 70.	Quadong, N. S. Wales.
Genus <b>Cladochonus</b> , <i>M'Coy</i> , 1847 (Annals Nat. Hist. xx. p. 227) = <i>Jania</i> , M'Coy (non Lamx).— <i>Tubulosa</i> <sup>1</sup> .			
C. <i>tenuicollis, M'Coy</i> .	U. Pal. (Carb.)	*loc. cit. p. 227, t. 11, f. 8; *Proc. R. Soc. V. D. Land, 1851, i. p. 314, t. 11, f. 9; <i>Young of Syringopora</i> , Edw. and Haime, Polyp. Foss. Terr. Pal. p. 296; <i>id. ibid.</i> Mon. Brit. Carb. Corals, 1852, p. 164; <i>Young Syringopora</i> , M. Edwards, Hist. Nat. Corall. 1860, III. p. 296; <i>Clad. tenuicollis</i> , de Koninck, Nouv. Rech. Terr. Carb. Belgique, 1872, p. 152, note 2; <i>id. ibid.</i> *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 154, t. 7, f. 2.	Dunvegan and Burrageood, N. S. Wales.
Genus <b>Clisiophyllum</b> , <i>Dana</i> , 1846. (Zoophytes, U. S. Explor. Exped. p. 361; Edwards and Haime, Mon. Brit. Foss. Corals, Introd. 1850, p. lxx. Edwards, Hist. Nat. Corall. 1860, III. p. 402.)— <i>Rugosa</i> .			
C. <i>Australe, Beyrich</i> .	U. Pal. (Carb.)	*Abhandl. K. Akad. Wissensch. Berlin, 1865, xxxvi. p. 85, t. 2, f. 7 a and b, f. 8 a and b, f. 9; de Koninck, Mém. de Paléontologie, 1857—71, VIII. p. 78.	Timor.

<sup>1</sup> Messrs M. Edwards and J. Haime refer the genus *Cladochonus* to the order *Alcyonaria* (Mon. Brit. Foss. Corals, 1850, Introd. p. lxxiv.), but Prof. de Koninck places it in the *Tubulosa*.

## (Actinozoa.)

## (Mid. and Up. Palæozoic.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
Genus <i>Cœnites</i> , <i>Eichwald</i> , 1829 ( <i>Zoologia Spec. r.</i> p. 179; <i>Edw. and Haime</i> , <i>Polyp. Foss. Terr. Pal.</i> 1851, p. 301) = <i>Limaria</i> , <i>Stein.</i> — <i>Tabulata</i> .			
<i>C. expansus</i> , de <i>Koninck</i> .	Mid. Pal. (L. Dev.).	* <i>Foss. Pal. Nouv.-Galles du Sud</i> , 1876, p. 74, t. 2, f. 3.	Yass, N. S. Wales.
Genus <i>Cyathaxonia</i> , <i>Michelin</i> , 1846. ( <i>Icon. Zooph.</i> pp. 253 and 258.)— <i>Rugosa</i> .			
<i>C. minuta</i> , de <i>Koninck</i> .	U. Pal. (Carb.).	* <i>Foss. Pal. Nouv.-Galles du Sud</i> , 1877, pt. 3, p. 153, t. 5, f. 10.	Burrageood, N. S. Wales.
Genus <i>Cyathophyllum</i> , <i>Goldfuss</i> , 1826 (see p. 11).— <i>Rugosa</i> .			
<i>C. Damnoniense</i> , <i>Lonsdale</i> .	Mid. Pal. (L. Dev.).	<i>Cystiphyllum</i> , <i>Trans. Geol. Soc.</i> 2nd ser. v. p. 703, t. 58, f. 11; <i>Cyathophyllum</i> , <i>Ed. and H. Mon. Brit. Dev. Corals</i> , 1853, p. 225, t. 50, f. 1; de <i>Koninck</i> , * <i>Foss. Pal. Nouv.-Galles du Sud</i> , 1876, p. 72.	Yarralumla, N. S. Wales.
<i>C. helianthoides</i> , <i>Goldfuss</i> .	Mid. Pal. (L. Dev.).	* <i>Petrefacta</i> , i. p. 61, t. 20, f. 2; <i>Ed. and H. Mon. Brit. Dev. Corals</i> , 1853, p. 227, t. 51, f. 1; de <i>Kon.</i> * <i>Foss. Pal. Nouv.-Galles du Sud</i> , 1876, p. 72.	Yass, N. S. Wales.
<i>C. inversum</i> , de <i>Koninck</i> .	Up. Pal.? (Carb.?).	* <i>Foss. Pal. Nouv.-Galles du Sud</i> , 1877, pt. 3, p. 146, t. 5, f. 4.	Colocolo, N. S. Wales.
<i>C. Leichhardtii</i> , <i>Clarke</i> .		* <i>Leichhardt's Jour. Overland Exp. Aust.</i> 1847, p. 212.	Burdekin R. about Lat. 19° 58' 11" S, Qu.
<i>C. obtortum</i> , <i>Edw. and Haime</i> .	Mid. Pal. (L. Dev.).	* <i>Polyp. Foss. Terr. Pal.</i> p. 366; * <i>Mon. Brit. Dev. Corals</i> , 1853, p. 225, t. 49, f. 7; de <i>Kon.</i> * <i>Foss. Pal. Nouv.-Galles du Sud</i> , 1876, p. 71.	Yass, N. S. Wales.
<i>C. vermiculare</i> , <i>Goldfuss</i> .	Mid. Pal. (L. Dev.).	* <i>Petrefacta</i> , i. p. 58, t. 17, f. 4; de <i>Kon.</i> * <i>Foss. Pal. Nouv.-Galles du Sud</i> , 1876, p. 70.	Calalamine and Yarralumla, N. S. Wales.
<i>C.? sp. ind.</i>	U. Pal. (Carb.).	<i>Beyrich, Abhandl. K. Akad. Wissensch. Berlin</i> , 1865, xxxvi. p. 58, t. 2, f. 5 and 6.	Timor.
Genus <i>Favosites</i> , <i>Lamarck</i> , 1816 (see p. 11).— <i>Tabulata</i> .			
<i>F. alveolaris</i> , <i>Goldfuss</i> .	Mid. Pal. (L. Dev.).	<i>Calamapora</i> , * <i>Petrefacta</i> , i. p. 77, t. 26, f. 1; <i>Favosites</i> , <i>Edw. and Haime</i> , * <i>Polyp. Foss. Terr. Pal.</i> p. 234; de <i>Kon.</i> * <i>Foss. Pal. Nouv.-Galles du Sud</i> , 1876, p. 79.	Calalamine, N. S. Wales.
<i>F. basaltica</i> , <i>Goldfuss</i> .	Mid. Pal. (L. Dev.).	<i>Calamapora</i> , * <i>Petrefacta</i> , i. p. 78, t. 26, f. 4; <i>Favosites</i> , <i>Edw. and Haime</i> , * <i>Polyp. Foss. Terr. Pal.</i> p. 236; de <i>Kon.</i> * <i>Foss. Pal. Nouv.-Galles du Sud</i> , 1876, p. 78.	Calalamine, N. S. Wales.

(Actinozoa.)

(Mid. and Up. Palæozoic.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
<i>Favosites fibrosa</i> , <i>Goldfuss</i> .	Mid. Pal. (L. Dev.).	<i>Calamapora</i> , *Petrefacta, i. p. 82, t. 28, f. 3 a and b; <i>Favosites</i> , Edw. and H. *Mon. Brit. Dev. Corals, 1853, p. 217, t. 48, f. 3 a and b; de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 81.	Quadong, N. S. Wales.
<i>F. Goldfussii</i> , <i>D'Orbigny</i> .	Mid. Pal. (L. Dev.).	Prod. d. Pal. 1849, i. p. 107; <i>Favosites</i> , Edw. and H. *Polyp. Foss. Ter. Pal. 1851, p. 235, t. 20, f. 3; <i>id. ibid.</i> *Mon. Brit. Dev. Corals, 1853, p. 214, t. 47, f. 3 a-c; <i>F. Gothlandica?</i> Lonsdale, Strzelecki's Phys. Deser. N. S. Wales, 1845, p. 266; <i>F. Goldfussii</i> , Smyth, Progress Rept. 1876, iii. p. 63; <i>id. de Koninck</i> , *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 78; <i>id.</i> M. Edwards, Hist. Nat. Corall. 1860, iii. p. 248; <i>F. Gothlandica</i> , Grange, Dumont-d'Urville's Voyage au Pole Sud, Géologie, 1854, ii. p. 91; <i>F. Goldfussi</i> , M'Coy, Geol. Survey, Vict. Dec. iv. 1876, p. 15, t. 35, f. 1 a-d; <i>id.</i> Couchman's Progress Rep. 1877, iv. pp. 16 and 158.	Yarralumla; Yass Plains, N. S. Wales. Buchan, Gippsland, Vict.
<i>F. ovata</i> , <i>Lonsdale</i> .	U. Pal. (Carb.)	<i>Stenopora</i> , Darwin's *Geol. Obs. Volc. Islands, 1844, p. 163; <i>id.</i> Strzelecki's *Phys. Descrip. N. S. Wales, 1845, p. 263, t. 8, f. 3 a and b; <i>id.</i> M'Coy, Annals Nat. Hist. 1847, xx. p. 227; <i>Chetetes</i> , Dana, *Geol. U. S. Expl. Expd. p. 712, Atlas, t. 11, f. 9; <i>Chetetes?</i> Edwards and Haime, Polyp. Foss. Terr. Pal. p. 273; <i>Monticulipora tumida</i> (pars), de Koninck, Nouv. Rech. Terr. Carb. Belgique, p. 143; <i>F. ovata</i> , <i>id.</i> *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 156, t. 3, f. 5; <i>Stenopora</i> , Darwin, *Geol. Observations, 2nd ed. 1876, p. 179.	Darlington, Harper's Hill, Glen William, and Burrageood, N. S. Wales; Mounts Wellington and Dromedary, Tas.
<i>F. polymorpha</i> , <i>Goldfuss</i> .	Mid. Pal. (L. Dev.).	<i>Calamapora</i> , *Petrefacta, i. p. 79, t. 27, figs. 2-5; <i>Favosites</i> , Edw. and Haime, *Polyp. Foss. Terr. Pal. p. 237; de Kon. *Foss. Pal. Nouv.-Galles d. Sud, 1876, p. 79.	Macleay R.
<i>F. reticulata</i> , <i>Blainville</i> .	Mid. Pal. (L. Dev.).	<i>Alveolites</i> , Dict. Sc. Nat. 1830, ix. p. 309; <i>Favosites</i> , Ed. and H. *Mon. Brit. Dev. Corals, 1853, p. 215, t. 48, f. 1 a and b; de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 80.	Yass, N. S. Wales.

## (Actinozoa.)

## (Mid. and Up. Palæozoic.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
F.? <i>sp. ind.</i>	U.Pal.(Carb.)	Beyrich, Abhandl. K. Akad. Wissensch. Berlin, 1865, xxxvi. p. 86, t. 2, f. 10 a and b.	Timor.
Genus <b>Fistulipora</b> , M'Coy, 1849. (Annals Nat. Hist. iii. p. 130; Brit. Pal. Foss. 1851, p. 11.)— <i>Tabulata</i> .			
F.? Mulleri, Beyrich.	U.Pal.(Carb.)	<i>Heliolites</i> , Abhandl. K. Akad. Wissensch. Berlin, 1865, xxxvi. p. 87, t. 2, f. 11 a—c.	Timor.
Genus <b>Heliolites</b> , Dana, 1846 (see p. 12).— <i>Tabulata</i> .			
H. porosa, Goldfuss.	Mid. Pal. (L. Dev.)	<i>Astrea</i> , *Petrefacta, I. p. 64, t. 21, f. 7; <i>Heliolites</i> , Edw. and Haime, *Mon. Brit. Dev. Corals, 1853, p. 212, t. 47, f. 1 a—f; de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 81.	Nowara, N. S. Wales.
H. Mulleri, Beyrich.		Vide <i>Fistulipora</i> ? Mulleri.	
Genus <b>Lithostrotion</b> , Lhwyd, 1760. (Lith. Brit. Ichnograph. 2nd ed. p. 125; Edwards and Haime, Polyp. Foss. Terr. Pal. p. 432.)— <i>Rugosa</i> .			
L. basaltiforme, Con. and Phill.	U. Pal. (Carb.)	<i>Astrea</i> , Outlines Geol. England and Wales, 1822, pt. 1, p. 359; <i>Lithostrotion</i> , Edw. and Haime, *Mon. Brit. Carb. Corals, 1852, p. 190, t. 38, f. 3 a and b; <i>id.</i> de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 145, t. 5, f. 2.	Murrumbidgee R., N. S. Wales.
L. irregulare, Phillips.		<i>Lithodendron</i> , Geol. York, 1836, ii. p. 202, t. 2, f. 14 and 15; <i>Lithostrotion</i> , Edw. and Haime, *Mon. Brit. Carb. Corals, 1852, p. 198, t. 41, f. 1 a—c; <i>id.</i> de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 144, t. 5, f. 1.	Piper's Creek, N. S. Wales.
Genus <b>Lophophyllum</b> , M. Edwards and J. Haime, 1850. (Mon. Brit. Foss. Corals, Introd. p. lxxvi.)— <i>Rugosa</i> .			
L. corniculum, de Koninck.	U.Pal.(Carb.)	*Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 148, t. 5, f. 6.	Colocolo, N. S. Wales.
L. minutum, de Kon.	U.Pal.(Carb.)	*Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 147, t. 5, f. 5.	Burragood, N. S. Wales.
Genus <b>Lonsdaleia</b> , M'Coy, 1849 (Annals Nat. Hist. iii. p. 11) = <i>Strombodes</i> , M'Coy (non Schweig.); <i>Lithostrotion</i> , Lonsdale (non Lhwyd).— <i>Rugosa</i> .			
L. Australis, M'Coy.	U. Pal. (Carb.)	<i>Strombodes</i> , *Annals Nat. Hist. 1847, xx. p. 227, t. 11, f. 9; <i>id.</i> *Proc. R. Soc. V. D. Land, 1851, i. p. 314, t. 11, f. 9.	Dunvegan, N. S. Wales.

## (Actinozoa.)

## (Mid. and Up. Palæozoic.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
Genus <i>Phillipsastrea</i> , <i>D'Orbigny</i> , 1849. (Prod. d. Pal. p. 107.) <sup>1</sup> — <i>Rugosa</i> .			
<i>P. Verneuilii</i> , <i>Edw.</i> and <i>Haime</i> .	Mid. Pal. (L. Dev.).	*Polyp. Foss. Terr. Pal. p. 447, t. 10, f. 5; de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 69.	Cope's Gully, near Hanging Rock, N. S. Wales.
Genus <i>Stenopora</i> , <i>Lonsdale</i> , 1844 <sup>2</sup> . (Darwin's Geol. Obs. Volc. Islands, p. 161 note.) <i>Tabulata</i> .			
<i>S. crinita</i> , <i>Lonsdale</i> .	U. Pal. (Carb.)	Strzelecki's *Phys. Descrip. N. S. Wales, 1845, p. 265, t. 8, f. 5; M'Coy, Annals Nat. Hist. 1847, xx. p. 226; <i>id.</i> Proc. R. Soc. V. D. Land, 1851, i. p. 313; <i>Chatetes</i> , Dana, *Geol. U. S. Expl. Expd. p. 711, Atlas, t. 11, f. 7; <i>id.</i> Edw. and Haime, Polyp. Foss. Terr. Pal. p. 273; <i>id.</i> Edwards, Hist. Nat. Corall. 1860, III. p. 272; <i>id.</i> Clarke, S. Goldfields, 1860, p. 285; <i>Stenopora</i> , Grange, Dumont d'Urville's Voyage au Pole Sud, Géologie, 1854, II. p. 89.	Illawara, Wollongong, Harper's Hill, Darlington, N. S. Wales.
<i>S. gracilis</i> , <i>Dana</i> .	U. Pal. (Carb.)	<i>Chatetes</i> , *Geol. U. S. Expl. Expd. p. 712, Atlas, t. 11, f. 10.	Illawara and Wollongong, N. S. Wales.
<i>S. informis</i> , <i>Lonsdale</i> .	U. Pal. (Carb.)	Strzelecki's *Phys. Deser. V. D. Land, 1845, p. 264, t. 8, f. 4; <i>Chatetes</i> ? Edw. and Haime, Polyp. Foss. Terr. Pal. p. 274; <i>Stenopora</i> , Grange, Dumont d'Urville's Voy. au Pole Sud, Géologie, 1854, II. p. 96.	Spring Hill, Tas.
<i>S. ovata</i> , <i>Lonsdale</i> . <i>S. Tasmaniensis</i> , <i>Lonsdale</i> .	U. Pal. (Carb.)	Vide <i>Favosites</i> . Darwin's *Geol. Obs. Volc. Islands, 1844, p. 161; Strzelecki's *Phys. Deser. N. S. Wales, 1845, p. 262, t. 8, f. 2; <i>Chatetes</i> , Dana, *Geol. U. S. Expl. Expd. p. 711, Atlas, t. 11, f. 7; <i>Stenopora</i> , Grange, Dumont-d'Urville's Voyage au Pole Sud, Géologie, 1854, II. pp. 93, 94, 95; <i>id.</i> Clarke, S. Goldfields, 1860, p. 285; <i>id.</i> M'Coy, Annals Nat. Hist. 1847, xx. p. 226; <i>Chatetes</i> , Edw. and Haime, Polyp. Foss. Terr. Pal. p. 274; <i>Monticulipora tumida</i> (pars), de Koninck, Nouv. Rech. Anim. Foss. Terr. Carb. Belgique, p. 143; <i>Stenopora</i> (? <i>Thamnopora</i> ), Darwin, *Geol. Observations, 2nd ed. 1876, p. 178.	Darlington and Harper's Hill, N. S. Wales. Mounts Dromedary and Wellington, Norfolk Plains, Tas.

<sup>1</sup> Edwards and Haime give the original reference as "Note sur des Polyptiers Fossiles, 1849, p. 12."<sup>2</sup> Placed as a synonym of *Chatetes* by Edw. and Haime (Polyp. Foss. p. 261). It remains to be proved how many of the succeeding forms are, like *S. ovata*, species of the genus *Favosites*.

## (Actinozoa.)

## (Mid. and Up. Palæozoic.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
Genus <b>Strombodes</b> , <i>M'Coy</i> (non Schweig.), 1849. (Annals Nat. Hist. III. p. 10.) Vide <i>Lonsdaleia</i> .			
<i>S. Australis</i> , <i>M'Coy</i> .		Vide <i>Lonsdaleia Australis</i> .	
Genus <b>Syringopora</b> , <i>Goldfuss</i> , 1826 (see p. 14).— <i>Tabulata</i> .			
<i>S. anuloporoides</i> , de <i>Koninck</i> .	Mid. Pal. (L. Dev.).	*Foss. Pal. Nouv.-Galles du Sud, 1876, p. 76, Atlas, t. 3, f. 1.	Moara Creek, near Tamworth, <i>N. S. Wales</i> .
<i>S. ramulosa</i> , <i>Goldfuss</i> .	U. Pal. (Carb.)	*Petref. Germ. 1826, I. p. 76, t. 25, f. 7; Edwards and Haime, *Mon. Brit. Carb. Corals, 1852, p. 161, t. 46, f. 3 a—c; de Koninck, *Nouv. Rech. Anim. Foss. Terr. Carb. Belgique, 1872, p. 126, t. 12, f. 2; <i>id.</i> *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 156, t. 7, f. 4.	Burrageood, <i>N. S. Wales</i> .
<i>S. reticulata</i> , <i>Goldfuss</i> .	U. Pal. (Carb.)	*Petref. Germ. 1826, I. p. 76, t. 25, f. 8; Edw. and Haime, *Mon. Brit. Carb. Corals, 1852, p. 162, t. 46, f. 1; de Koninck, *Nouv. Rech. Anim. Foss. Terr. Carb. Belgique, 1872, p. 123, t. 11, f. 7 and t. 12, f. 1; <i>id.</i> *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 155, t. 7, f. 3.	Raymond Terrace, <i>N. S. Wales</i> .
Genus <b>Verticillopora</b> , <i>DeFrance</i> , 1829. (Dict. Sci. Nat. LVIII. p. 5.)			
<i>V. spongoides</i> , <i>Clarke</i> (ms.).		<i>S. Goldfields</i> , 1860, p. 285.	
Genus <b>Zaphrentis</b> , <i>Rafinesque</i> and <i>Clifford</i> , 1820. (Ann. Sci. Phys. de Bruxelles, v. p. 234.) <i>Rugosa</i> .			
<i>Z. Cainodon</i> , de <i>Koninck</i> .	U. Pal. (Carb.)	*Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 151, t. 5, f. 8.	Burrageood, <i>N. S. Wales</i> .
<i>Z. Gregoryana</i> , de <i>Koninck</i> .	U. Pal. (Carb.)	*Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 150, t. 5, f. 7.	Jarvis Bay, and Colocolo, <i>N. S. Wales</i> .
<i>Z. Phillipsi</i> , <i>Edw. and Haime</i> .	U. Pal. (Carb.)	*Polyp. Foss. Terr. Pal. p. 232, t. 5, f. 1; *Mon. Brit. Carb. Corals, 1852, p. 168, t. 34, f. 2; de Koninck, *Nouv. Rech. Anim. Foss. Terr. Carb. Belgique, 1872, p. 96, t. 10, f. 2; <i>Z. Phillipsi?</i> <i>id.</i> *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 149.	Colocolo, <i>N. S. Wales</i> .
<i>Z. robusta</i> , de <i>Kon.</i>	U. Pal. (Carb.)	*Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 152, t. 5, f. 9.	Burrageood, <i>N. S. Wales</i> .
<i>Z.?</i> <i>sp. ind.</i>	U. Pal. (Carb.)	Beyrich, Abhandl. K. Akad. Wis-sensch. Berlin, 1865, xxxvi. p. 85, t. 2, f. 4.	Timor.

## (Echinodermata.)

(Mid. and Up. Palæozoic.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
<i>Sub-kingdom—Annuloida. Class—Echinodermata.</i>			
Genus <b>Actinocrinus</b> , <i>Miller</i> , 1821. (Nat. Hist. Crinoidea, p. 94; de Koninck and le Hon. Rech. Crinoïdes Terr. Carb. Belgique, 1854, p. 123.) <i>Crinoidea-Actinocrinidæ.</i>			
A. polydactylus, <i>Miller.</i>	U.Pal. (Carb.)	* <i>loc. cit.</i> p. 103, t. 1, f. 1 and 2 (fig. cæt. exclusis); de Kon. and le Hon. *Crinoïdes, Terr. Carb. Belgique, p. 134, t. 4, f. 2; de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 160, t. 6, f. 3.	Glen William, <i>N.S. Wales.</i>
Genus <b>Cyathocrinus</b> , <i>Miller</i> , 1821. (Nat. Hist. Crinoidea, p. 85; de Koninck and le Hon. Rech. Crinoïdes Terr. Carb. Belgique, 1854, p. 79.) <i>Crinoidea-Cyathocrinidæ.</i>			
C. Konincki, <i>W. B. Clarke.</i>	U.Pal. (Carb.)	? <i>Pentadia corona</i> , Dana, *Geol. U. S. Expl. Expd. p. 713, Atlas, t. 10, f. 10; <i>Cyathocrinus Konincki</i> , Clarke, ms.; <i>id.</i> de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 164, t. 6, f. 4.	Osterley, Hunter River, <i>N. S. Wales.</i>
Genus <b>Hypocrinus</b> , <i>Beyrich</i> , 1862. (Zeit. Deuts. Geol. Gesellsch. xiv. p. 537.) <i>Crinoidea.</i>			
H. Schneideri, <i>Beyrich.</i>	U.Pal. (Carb.)	<i>loc. cit.</i> p. 537; Abhandl. K. Akad. Wissensch. Berlin, 1865, xxxvi. p. 83, t. 2, f. 16 a—c.	Timor.
? Genus <b>Pentadia</b> , <i>Dana</i> , 1847. (American Jour. Sc. iv. p. 152.)			
P. corona, <i>Dana.</i>	U.Pal. (Carb.)	<i>loc. cit.</i> p. 152; <i>P. reniformis</i> , <i>P. spatangus</i> and <i>P. trigona</i> , Dana, <i>id.</i> p. 152; <i>P. corona</i> , *Geol. U. S. Expl. Expd. p. 713, Atlas, t. 10, f. 11 and 12.	Illawara, <i>N. S. Wales.</i>
Genus <b>Platyocrinus</b> , <i>Miller</i> , 1821. (Nat. Hist. Crinoidea, p. 74; de Koninck and le Hon. Rech. Crinoïdes Terr. Carb. Belgique, 1854, p. 155.) <i>Crinoidea-Platyocrinidæ.</i>			
P. <i>sp. ind.</i>	U.Pal. (Carb.)	<i>Sp. allied to P. lavis</i> (Miller), de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 160, t. 6, f. 6.	Glen William and Burrigood, <i>N. S. Wales.</i>
Genus <b>Palæaster</b> , <i>Hall</i> , 1852 (see p. 14).— <i>Asteroidea.</i>			
P. Clarkei, <i>de Koninck.</i>	U.Pal. (Carb.)	*Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 166, t. 7, f. 6.	Russell's Shaft, W. Maitland District, <i>N. S. Wales.</i>



## (Echinodermata.)

## (Mid. and Up. Palæozoic.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
Genus <b>Poteriocrinus</b> , <i>Miller</i> , 1821. (Nat. Hist. Crinoidea, p. 67, de Koninck and le Hon. Rech. Crinoïdes Terr. Carb. Belgique, 1854, p. 84.) <i>Crinoidea-Cyathocrinidæ.</i>			
<i>P. sp. ind. (1).</i>	U. Pal. (Carb.)	<i>Sp. allied to P. tenuis</i> (Miller), de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 159, t. 6, f. 7.	Burrageood, N. S. Wales.
<i>P. sp. ind. (2).</i>	U. Pal. (Carb.)	<i>Sp. allied to P. radiatus</i> (Austin), de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 159, t. 6, f. 2.	Burrageood, N. S. Wales.

Genus **Synbathocrinus**, *J. Phillips*, 1836. (Geol. York. II. p. 206; Hall, Iowa Geol. Report, 1858, I. pt. 2, p. 559; Meek and Worthen, Illinois Geol. Report, 1873, v. p. 324.)  
*Crinoidea.*

<i>S. ogivalis</i> , de <i>Koninck</i> .	U. Pal. (Carb.)	*Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 158, t. 6, f. 1.	Burrageood, N. S. Wales.
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Genus **Tribrachyocrinus**, *M<sup>c</sup>Coy*, 1847. (Annals Nat. Hist. xx. p. 228.)  
*Crinoidea-Cyathocrinidæ.*

<i>T. Clarkei</i> , <i>M<sup>c</sup>Coy</i> .	U. Pal. (Carb.)	* <i>l. c.</i> p. 228, t. 12, f. 2; *Proc. Roy. Soc. V. D. Land, 1851, I. p. 315, t. 12, f. 2; Clarke, S. Goldfields, 1860, p. 286; de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 161, t. 6, f. 5.	Darlington and Raymond Terrace, N. S. Wales.
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*Sub-kingdom—Annulosa. Class—Crustacea.*

Genus **Bairdia**, *M<sup>c</sup>Coy*, 1844. (Synopsis Carb. Foss. Ireland, p. 164; Brady, Trans. Zool. Soc. 1865, v. p. 363.)—*Ostracoda-Cypridæ.*

<i>B. affinis</i> , <i>Morris</i> .	U. Pal. (Carb.)	*Strzelecki's Phys. Descr. N. S. Wales, 1845, p. 291, t. 18, f. 10.	Booral, N. S. Wales.
<i>B. curta</i> , <i>M<sup>c</sup>Coy</i> .	U. Pal. (Carb.)	*Synopsis Carb. Foss. Ireland, 1844, p. 164, t. 23, f. 6; Annals Nat. Hist. 1847, xx. p. 229; Proc. R. Soc. V. D. Land, 1851, I. p. 316.	Dunvegan, N. S. Wales.

Genus **Brachymetopus**, *M<sup>c</sup>Coy*, 1847. (Annals Nat. Hist. xx. p. 229.)—*Trilobita.*

<i>B. Strzeleckii</i> , <i>M<sup>c</sup>Coy</i> .	U. Pal. (Carb.)	* <i>l. c.</i> p. 231, t. 12, f. 1; *Proc. R. Soc. V. D. Land, 1851, I. p. 317, t. 12, f. 1; Plews, Mining Inst. Jour. 1858, VI. pt. 3, t. 3; v. Moeller, Bull. Soc. Imp. Nat. Moscou, 1867, XL. pt. 1, p. 190; de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 352, t. 24, f. 10.	Dunvegan; Burrageood; Glen William, N. S. Wales.
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(Crustacea.)

(Mid. and Up. Palæozoic.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
Genus <b>Cythere</b> , <i>O. F. Müller</i> , 1785. (Entom. seu Insecta Test. pp. 34 and 63.) <i>Ostracoda-Cytherida</i> .			
<i>C. impressa</i> , <i>M'Coy</i> .	U. Pal. (Carb.)	*Synopsis, Carb. Foss. Ireland, 1844, p. 166, t. 23, f. 16; <i>Annals Nat. Hist.</i> 1847, xx. p. 229; <i>Proc. R. Soc. V. D. Land</i> , 1851, i. p. 316.	Dunvegan, <i>N. S. Wales</i> .
Genus <b>Entomis</b> , <i>Jones</i> , 1861 (see p. 16).			
<i>E. Jonesi</i> , <i>de Koninck</i> .	U. Pal. (Carb.)	*Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 347, t. 24, f. 6.	Muree, <i>N. S. Wales</i> .
Genus <b>Griffithides</b> , <i>Portlock</i> , 1843. (Geol. Rept. Lond. p. 310.)— <i>Tritobita</i> .			
<i>G. dubius</i> , <i>Etheridge</i> .	U. Pal. (Carb.)	*Quart. Jour. Geol. Soc. 1872, xxviii. p. 338, t. 18, f. 7.	Don River, <i>Qu.</i>
<i>G. Eichwaldi</i> , <i>Fischer</i> .	U. Pal. (Carb.)	<i>Asaphus</i> , in <i>Eichwald's Geogn. Zool. per Ingriam marisque Balt.</i> 1825, p. 54, t. 4, f. 4; <i>Phillipsia</i> , v. <i>Moeller</i> , <i>Bull. Soc. Imp. Nat. Moscou</i> , 1867, xl. pt. 1, p. 187; <i>Griffithides</i> , <i>de Kon.</i> *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 350, t. 24, f. 8 (for synonymy).	Upper William R. <i>N. S. Wales</i> .
Genus <b>Phillipsia</b> , <i>Portlock</i> , 1843 <sup>1</sup> . (Geol. Report, Londonderry, p. 305.)— <i>Tritobita</i> .			
<i>P. ? parvula</i> , <i>Beyrich</i> .	U. Pal. (Carb.)	*Abhandl. K. Akad. Wissenssch. Berlin, 1865, xxxvi. p. 87, t. 2, f. 17 a and b.	Timor.
<i>P. seminifera</i> , <i>Phillips</i> .	U. Pal. (Carb.)	<i>Asaphus</i> , * <i>Geol. York</i> , 1836, ii. p. 240, t. 22, f. 8—10; <i>Phillipsia</i> , <i>M'Coy</i> , * <i>Brit. Pal. Foss.</i> p. 183; <i>id.</i> <i>Morris</i> , <i>Cat. Brit. Foss.</i> 2nd ed. 1854, p. 114; <i>id.</i> v. <i>Moeller</i> , <i>Bull. Soc. Imp. Nat. Moscou</i> , 1867, xl. pt. 1, p. 159; <i>id.</i> <i>de Kon.</i> * <i>Foss. Pal. Nouv.-Galles du Sud</i> , 1877, pt. 3, p. 348, t. 24, f. 9 (for synonymy); ? = <i>Sp.</i> near <i>P. gemmulifera</i> ( <i>Phill.</i> ), <i>M'Coy</i> , <i>Annals Nat. Hist.</i> 1847, xx. p. 231.	Colocolo, <i>N. S. Wales</i> .
Genus <b>Polycope</b> , <i>G. O. Sars</i> , 1865. (Forhandl. Vid.-Sels. Christiania, aar 1865, p. 121.) <i>Ostracoda-Polycopida</i> .			
<i>P. simplex</i> , <i>Jones</i> and <i>Kirkby</i> .	U. Pal. (Carb.)	* <i>Mon. Brit. Carb. Entoms.</i> 1874, p. 54, t. 2, f. 1 a—c, f. 10 and 12, t. 5, f. 1; <i>de Koninck</i> , * <i>Foss. Pal. Nouv.-Galles du Sud</i> , 1877, pt. 3, p. 346, t. 17, f. 5.	Muree, <i>N. S. Wales</i> .

<sup>1</sup> Prof. M'Coy mentions a species of *Phillipsia*, resembling *P. gemmulifera*, *Phil.*, as occurring in *N. S. Wales*.

(Polyzoa.)

(Mid. and Up. Palæozoic.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
<i>Sub-kingdom</i> —Mollusca. <i>Section</i> —Molluscoidea. <i>Class</i> —Polyzoa.			
Genus <b>Dendricopora</b> , <i>de Koninck</i> , 1877. (Rech. Foss. Pal. Nouv.-Galles du Sud, pt. 3, p. 169.)— <i>Cyclostomata-Fenestellidæ</i> ?			
D. Hardyi, <i>de Kon.</i>	U.Pal.(Carb.)	*Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 170, t. 8, f. 1.	Burrageood, N. S. Wales.
Genus <b>Fenestella</b> ( <i>Miller</i> , ms.), <i>Lonsdale</i> , 1839 <sup>1</sup> . (Sil. Syst. p. 677; restricted, King, Permian Foss. Eng. 1850, p. 35.)— <i>Cyclostomata-Fenestellidæ</i> .			
F. ampla, <i>Lonsdale</i> .		Vide <i>Protorettepora</i> .	
F. antiqua, <i>Lonsdale</i> .		Vide <i>Protorettepora</i> .	
F. densa, <i>Etheridge</i> (ms.).		Vide <i>F. plebeia</i> , M'Coy.	
F. fossula, <i>Lonsdale</i> .		Vide <i>F. plebeia</i> , M'Coy.	
F. gracilis, <i>Dana</i> .	U.Pal.(Carb.)	*Geol. U. S. Expl. Expt. p. 711, t. 11, f. 4; <i>F. gracilis</i> ?, <i>de Kon.</i> *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 177.	Glendon and Burrageood, N. S. Wales.
F. internata, <i>Lonsdale</i> .	U.Pal.(Carb.)	Darwin's *Geol. Obs. Volc. Islands, 1844, p. 165; <i>Strzelecki's</i> *Phys. Descr. N. S. Wales, 1845, p. 269, t. 9, f. 2 a and b; M'Coy, <i>Annals Nat. Hist.</i> 1847, xx. p. 226; <i>Dana</i> , *Geol. U. S. Expl. Expt. p. 710, t. 10, f. 13; ? <i>F. media</i> , <i>Dana</i> , <i>loc. cit.</i> p. 710, t. 10, f. 14; <i>F. internata</i> , <i>Grange</i> , in <i>Dumont-d'Urville's Voyage au Pole Sud, Géologie</i> , 1854, II. pp. 84, 87, 94, 95; <i>id.</i> <i>Clarke</i> , <i>S. Goldfields</i> , 1860, p. 286; <i>id.</i> <i>Darwin</i> , *Geol. Obs. Volc. Islands, 1876, 2nd ed. p. 181; <i>id.</i> <i>Tenison-Woods</i> , *Monthly Notices, R. Soc. Tas. 1875-76, p. 49; <i>id.</i> <i>de Kon.</i> *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 176.	Glendon, Harper's Hill, Raymond Terrace, Bell's Creek and Darlington, N. S. Wales.
F. media, <i>Dana</i> .		?Vide <i>F. internata</i> , <i>Lonsdale</i> .	
F. Morrisii, <i>M'Coy</i> .	U.Pal.(Carb.)	*Synop. Carb. Foss. Ireland, 1844, p. 202, t. 28, f. 14; <i>de Koninck</i> , *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 176.	Burrageood, N. S. Wales.
F. multiporata, <i>M'Coy</i> .	U.Pal.(Carb.)	*Synop. Carb. Foss. Ireland, 1844, p. 203, t. 28, f. 9; <i>de Koninck</i> , *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 175, t. 8, f. 4.	Burrageood, N. S. Wales.
F. plebeia, <i>M'Coy</i> .	U.Pal.(Carb.)	*Synop. Carb. Foss. Ireland, 1844, p. 203, t. 29, f. 3; <i>F. fossula</i> , <i>Lonsdale</i> , <i>Darwin's</i> *Geol. Obs. Volc. Islands, 1844, p. 166; <i>id. ibid.</i> <i>Strzelecki's</i> *Phys. Descr. N. S. Wales, 1845,	Glendon, Harper's Hill, Muree, Korinda, and Glen William, N. S. Wales; Mt Wellington

<sup>1</sup> Compare *Retithornera*, *Kirkenpaur*.

(Polyzoa.)

(Mid. and Up. Palæozoic.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
		<p>p. 269, t. 9, f. 1; <i>id.</i> et <i>F. plebeia</i>? M'Coy, Annals Nat. Hist. 1847, xx. p. 226; <i>F. fossula</i>, Dana, *Geol. U. S. Expl. Expd. p. 710, Atlas, t. 11, f. 3; <i>id.</i> et <i>F. plebeia</i>, Clarke, S. Goldfields, 1860, p. 286; <i>F. fossula</i> et <i>F. densa</i>, Etheridge, *Quart. Jour. Geol. Soc. 1872, xxviii. p. 332, t. 25, f. 1; <i>F. fossula</i>, Etheridge jun., *Trans. R. Soc. Vict. 1876, xii. p. 67; <i>id.</i> Darwin, *Geol. Obs. Volc. Islands, 1876, 2nd ed. p. 183; <i>id.</i> et var. <i>densa</i>, Tenison-Woods, *Monthly Notices R. Soc. Tas. 1875-76, p. 49; <i>F. plebeia</i>, de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 171, t. 8, f. 2 (for synonym.); <i>F. fossula</i>, Grange, Dumont-d'Urville's Voyage au Pole Sud, Géologie, 1854, ii. pp. 87, 95.</p>	<p>and St Patrick's Plains, &amp;c. <i>Tas.</i>; Gympie and Rockhampton, <i>Qu.</i></p>
<i>F. propinqua</i> , de Koninck.	U. Pal. (Carb.)	<i>F. ampla</i> , Dana, *Geol. U. S. Expl. Expd. p. 710, t. 11, f. 2 (fig. 1, excl., and non Lonsdale); <i>F. propinqua</i> , de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 174, t. 8, f. 3.	Glendon and Glen William, N. S. Wales.
<i>F. undulata</i> , Phillips.	U. Pal. (Carb.)	<i>Retepora</i> , *Geol. York. 1836, ii. p. 199, t. 1, f. 16—18; <i>Fenestella</i> , M'Coy, *Synop. Carb. Foss. Ireland, 1844, p. 204; <i>id.</i> Annals Nat. Hist. 1847, xx. p. 226.	Dunvegan, N. S. Wales.
<i>F. sp. ind.</i>		Etheridge jun., Trans. R. Soc. Vict. 1876, xii. p. 68, f. 2.	Gympie, <i>Qu.</i>
<i>F. sp. ind.</i>		<i>Sp. near F. antiqua</i> (Lonsdale), M'Coy, Annals Nat. Hist. 1847, xx. p. 226.	Korinda, N. S. Wales.

Genus **Glauconome** (pars, Goldfuss), Lonsdale, 1839 (Sil. Syst. p. 677; Etheridge jun., Annals Nat. Hist. 1877) = *Acanthocladia*, King, 1849, *Penniretepora*, d'Orb. 1849. *Cyclostomata-Thamniscida*.

<i>G. bipinnata</i> , Phillips.	Mid. Pal. (Dev. ?)	*Pal. Foss. Devon. 1841, p. 21, t. 11, f. 33; M'Coy, *Synop. Carb. Foss. Ireland, 1844, p. 199; Morris, Cat. Brit. Foss. 2nd ed. 1854, p. 124; Stutchbury, Parl. Blue Book, Dec. 1854, p. 19.	Pallal, nr. Bengera, N. S. Wales.
<i>G. grandis</i> , M'Coy.	U. Pal. (Carb.)	*Synop. Carb. Foss. Ireland, 1844, p. 199, t. 28, f. 3; <i>Penniretepora</i> , d'Orbigny, Prod. de Pal. 1849, i. p. 153; <i>Acanthocladia</i> , King, Prom. Fossils Engl. 1850, p.	Burrageood, N. S. Wales.

(Polyzoa.)

(Mid. and Up. Palæozoic.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
<i>G. pluma</i> , <i>Phillips</i> .	U.Pal.(Carb.)	47; <i>Penniretepora</i> , de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 168, t. 5, f. 11. <i>Retepora</i> , *Geol. York. 1836, II. p. 199, t. 1, f. 13—15; <i>Glauconome</i> , M'Coy, *Synop. Carb. Foss. Ireland, 1844, p. 199; <i>id.</i> ? <i>ibid.</i> Annals Nat. Hist. 1847, xx. p. 226; <i>Acanthocladia</i> , King, Perm. Foss. Engl. 1850, p. 47; <i>Glauconome</i> , Clarke, S. Goldfields, 1860, p. 286.	Dunvegan, N. S. Wales.

Genus *Hemitrypa*, *J. Phillips*, 1841. (Pal. Foss. Devon. p. 21.)*Cyclostomata-Fenestellidæ*.

<i>H. sexangulata</i> , <i>Lonsdale</i> .	U.Pal.(Carb.)	Darwin's *Geol. Obs. Volc. Islands, 1844, p. 167; Strzelecki's *Phys. Descr. N. S. Wales, 1845, p. 269, t. 9, f. 4; Darwin, * <i>loc. cit.</i> 2nd ed. 1876, p. 183.	Mount Wellington, Tas.
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Genus *Polypora*, *M'Coy*, 1844. (Synop. Carb. Foss. Ireland, p. 206.)*Cyclostomata-Fenestellidæ*.

<i>P. papillata</i> , <i>M'Coy</i> .	U.Pal.(Carb.)	* <i>loc. cit.</i> p. 206, t. 29, f. 10; de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 183, t. 7, f. 7.	Buclean, N. S. Wales.
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Genus *Protoretepora*, *de Koninck*, 1877. (Foss. Pal. Nouv.-Galles du Sud, pt. 3, p. 178.)—*Cyclostomata-Elasmoporidæ*?

<i>P. ampla</i> , <i>Lonsdale</i> .	U.Pal.(Carb.)	<i>Fenestella</i> , Darwin's *Geol. Obs. Volc. Islands, 1844, p. 163; <i>id.</i> Strzelecki's *Phys. Descr. N. S. Wales, 1845, p. 268, t. 9, f. 3 a—d; <i>id.</i> M'Coy, Annals Nat. Hist. 1847, xx. p. 226; <i>id.</i> Dana, *Geol. U. S. Expl. Expt. p. 710, t. 11, f. 2; <i>id.</i> Clarke, S. Goldfields, 1860, p. 286; <i>Polypora</i> ? Etheridge jun., *Trans. R. Soc. Vict. 1876, XII. p. 66, f. 1; <i>Fenestella</i> , Tenison - Woods, *Monthly Notices R. Soc. Tas. 1875—76, p. 48; <i>Protoretepora</i> , de Kon. * <i>loc. cit.</i> p. 180, t. 8, f. 4; <i>Fenestella</i> , Darwin, *Geol. Observations, 2nd ed. 1876, p. 180; <i>Fenestella</i> , Grange, Dumont-d'Urville's Voyage au Pole Sud, Géologie, 1854, II. pp. 84, 94, 95 and 96.	Muree, Loder's Ck, Bell's Ck, Glendon, Stony Creek, N. S. Wales. Spring Hill, Mount Wellington, and E. Marshes, Tas. Gympie, Qu.
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(Polyzoa.)

(Mid. and Up. Palæozoic.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
<i>P. antiqua</i> , Lonsdale.	U. Pal. (Carb.)	<i>Fenestella</i> , Trans. Geol. Soc. 1840, v. pp. 697, 703, t. 58, f. 10; <i>id.</i> Phillips, *Pal. Foss. Devon. 1841, p. 24, t. 12, f. 35; <i>F. antiqua?</i> M'Coy, Annals Nat. Hist. 1847, xx. p. 226; <i>id.</i> Clarke, S. Goldfields, 1860, p. 286; <i>Protoretepora</i> , de Koninck, Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 179.	Korinda, N. S. Wales.

Genus *Retepora*, Imperato, 1672. (Hist. Nat. p. 630; Busk, Mon. Foss. Polyzoa Crag, 1859, p. 73.)—*Cheilostom.-Inarticulata*.

<i>R.?</i> <i>laxa</i> , de Koninck.	U. Pal. (Carb.)	*Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 182, t. 8, f. 5.	Colocolo; Burra-good, N.S. Wales.
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Genus *Rhombopora*, Meek, 1872. (Hayden's Report, E. Nebraska, p. 141.)  
*Cheilostomata? -Vincularide?*

<i>R.?</i> <i>laxa</i> , Etheridge.	U. Pal. (Carb.)	<i>Ceripora?</i> *Quart. Jour. Geol. Soc. 1872, xxviii. p. 332, t. 25, f. 2.	Gympie, Qu.
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## Class—Brachiopoda.

Genus *Athyris*, M'Coy, 1844. (Synop. Carb. Foss. Ireland, p. 146; Davidson, Introduction, p. 84.)—*Clistenterata-Spiriferide*.

<i>A. globularis</i> , Phillips.	U. Pal. (Carb.)	<i>Spirifera</i> , *Geol. York, 1836, ii. p. 220, t. 10, f. 12; <i>Athyris</i> , M'Coy, *Brit. Pal. Foss. p. 434; <i>id.</i> Davidson, *Mon. Brit. Carb. Brach. p. 86, t. 17, f. 15—18; <i>Spirigera</i> , Beyrich, Abhandl. K. Akad. Wissensch. Berlin, 1865, xxxvi. p. 75, t. 1, f. 1 a—c.	Timor.
<i>A. planosulcata</i> , Phillips.	U. Pal. (Carb.)	<i>Spirifera</i> , *Geol. York, 1836, ii. p. 220, t. 10, f. 5; <i>Athyris</i> , M'Coy, *Synop. Carb. Foss. Ireland, 1844, p. 148; <i>id.</i> Davidson, *Mon. Brit. Carb. Brach. p. 80, t. 16, f. 2—13, 15; <i>id.</i> de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 2, p. 224, t. 11, f. 6.	Dungog, N. S. Wales.
<i>A. Roysii</i> , Lereille.	U. Pal. (Carb.)	<i>Spirifer</i> , *Mém. Soc. Géol. France, 1835, ii. p. 39, t. 2, f. 18—20; <i>Athyris</i> , M'Coy, *Brit. Pal. Foss. p. 433; <i>id.</i> Davidson, *Mon. Brit. Carb. Brach. p. 84, t. 18, f. 1—11; <i>Spirigera</i> , Beyrich, Abhandl. K. Akad. Wissensch. Berlin, 1865, xxxvi. p. 74, t. 1, f. 2, a and b, f. 3 a—c.	Timor.

## (Brachiopoda.)

## (Mid. and Up. Palæozoic.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
Genus <i>Atrypa</i> , Dalman, 1828 (see p. 18).			
<i>A. biundata</i> , M'Coy.		Vide <i>Terebratula sacculus</i> , var. <i>hastata</i> , J. de C. Sowerby.	
<i>A. cymbæformis</i> , M'Coy.		Vide <i>Terebratula sacculus</i> , var. <i>hastata</i> , J. de C. Sowerby.	
<i>A. desquamata</i> , J. de C. Sow.	Mid. Pal. (L. Dev.).	*Trans. Geol. Soc. 2nd ser. 1840, v. p. 704, t. 56, f. 19 and 20; Davidson, *Mon. Brit. Dev. Brach. p. 58, t. 10, f. 9—13, t. 11, f. 1—9; de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 98.	Yass, N. S. Wales.
<i>A. ? Jukesii</i> , M'Coy.	U. Pal. (Carb.).	<i>Atrypa</i> , *Annals Nat. Hist. 1847, xx. p. 332, t. 13, f. 8; <i>ibid. id.</i> *Proc. R. Soc. V.D. Land, 1851, i. p. 318, t. 13, f. 8.	Dunvegan, N. S. Wales.
<i>A. plicatella</i> , de Kon.	Mid. Pal. (L. Dev.).	*Foss. Pal. Nouv.-Galles du Sud, 1876, p. 99, Atlas, t. 3, f. 4.	Yass, N. S. Wales.
<i>A. reticularis</i> , Linn.	Mid. Pal. (L. and Mid. Dev.).	(See p. 18); Davidson, *Mon. Brit. Dev. Brach. p. 53, t. 10, f. 3 and 4; de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 97; <i>Spirigera</i> , M'Coy, Couchman's Progress Report, 1877, iv. p. 158.	Yass; Kempsey, N. S. Wales. Bindi, Vict.
<i>Ibid.</i> var. <i>aspera</i> , Schlotheim.	Mid. Pal. (M. Dev.).	<i>Terebratulites</i> , Leonhard's *Min. Taschenbuch, 1813, vii. p. 74, t. 1, f. 7 a—c; <i>id.</i> *Petrefactenkunde, 1820, pt. 1, p. 263; 1822, pt. 2, p. 68, t. 18, f. 3; <i>Atrypa</i> , Dalman, *Kongl. Vet. Acad. Handl. för år 1827 (1828), p. 128, t. 4, f. 3; <i>A. reticularis</i> , var. <i>aspera</i> , Davidson, *Mon. Brit. Dev. Brach. 1864, p. 57, t. 10, f. 5—8; <i>Spirigera reticularis</i> , var. <i>aspera</i> , M'Coy, Couchman's Progress Report, 1877, iv. p. 158.	Bindi, Vict.
Genus <i>Camorphoria</i> , King, 1844. (Annals Nat. Hist. xiv. p. 313; <i>ibid.</i> 1846, xviii. p. 89; Permian Foss. England, 1850, p. 113; Davidson, Introduction, p. 96.) <i>Clistenterata-Rhynchonellidæ</i> .			
<i>C. crumena</i> , Martin.	U. Pal. (Carb.).	<i>Conch.</i> ( <i>Anomites</i> ), Pet. Derb. 1809, t. 36, f. 4; <i>Camorphoria</i> , Davidson, *Mon. Brit. Carb. Brach. p. 113, t. 25, f. 3—9; <i>id.</i> Beyrich, Abhandl. K. Akad. Wissench. Berlin, 1865, xxxvi. p. 73, t. 1, f. 11 a—c.	Timor.
Genus <i>Chonetes</i> , Fischer, 1837 (see p. 19).— <i>Clistenterata-Productidæ</i> .			
<i>C. Australis</i> , M'Coy.	Mid. Pal. (M. Dev.).	Smyth's Progress Report, 1876, iii. p. 62; *Geol. Survey, Vict. Dec. iv. 1876, p. 17, t. 35, f. 3—5; Couchman's <i>id.</i> 1877, iv. p. 16.	Buchan; Lucknow, Vict.

## (Brachiopoda.)

## (Mid. and Up. Palæozoic.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
<i>C. coronata</i> , <i>Conrad.</i>	Mid. Pal. (L. Dev.).	<i>Strophomena</i> , * <i>Jour. Acad. Nat. Sc. Philadelphia</i> , 1842, viii. p. 257, t. 14, f. 30; <i>Chonetes</i> , Hall, * <i>Pal. N. York</i> , iv. pt. 1, p. 133, t. 21, f. 9—12; de Koninck, * <i>Foss. Pal. Nouv.-Galles du Sud</i> , 1876, p. 87.	Kempsey, N. S. Wales.
<i>C. Cracowensis</i> , <i>Etheridge.</i>		Vide <i>C. Laguessiana</i> , de Koninck.	
<i>C. Hardrensis</i> , <i>Phillips.</i>		Vide <i>C. Laguessiana</i> , de Koninck.	
<i>C. Laguessiana</i> , de <i>Koninck.</i>	U. Pal. (Carb.)	* <i>Descrip. Anim. Foss. Terr. Carb. Belgique</i> , 1843, p. 211, t. 12 bis, f. 4; <i>C. Hardrensis</i> , Davidson (non Phill.), * <i>Mon. Brit. Carb. Brit. Brach.</i> p. 186, t. 47, f. 12—18; <i>C. Cracowensis</i> , R. Etheridge, * <i>Quart. Jour. Geol. Soc.</i> 1872, xxviii. p. 336, t. 18, f. 2; <i>C. Laguessiana</i> , de Kon. * <i>Mon. Foss. Carb. Bleiberg en Carinthie</i> , 1873, p. 39, t. 2, f. 2 (for synonymy); <i>id. ibid.</i> * <i>Foss. Pal. Nouv.-Galles du Sud</i> , 1877, pt. 2, p. 207, t. 10, f. 7.	Burrageood, N. S. Wales. Cracow Creek, Qu.
<i>C. papilionacea</i> , <i>Phillips.</i>	U. Pal. (Carb.)	<i>Spirifera</i> , * <i>Geol. York</i> , 1836, ii. p. 221, t. 11, f. 6; <i>Chonetes</i> , de Koninck, * <i>Descrip. Anim. Foss. Terr. Carb. Belgique</i> , 1843, p. 212, t. 13, f. 5, t. 13 bis, f. 1; <i>id.</i> Davidson, * <i>Mon. Brit. Carb. Brach.</i> p. 182, t. 46, f. 3—6; de Koninck, * <i>Foss. Pal. Nouv.-Galles du Sud</i> , 1877, pt. 2, p. 205, t. 10, f. 6.	Dungog, N. S. Wales.
Genus <i>Cyrtina</i> , <i>Davidson</i> , 1858. ( <i>Mon. Brit. Carb. Brach.</i> pp. 66 and 67.) <i>Clistenterata-Spiriferida.</i>			
<i>C. septosa</i> , <i>Phillips.</i>	U. Pal. (Carb.)	<i>Spirifera</i> , * <i>Geol. York</i> , 1836, ii. p. 216, t. 9, f. 7; <i>Cyrtina</i> , Davidson, * <i>Mon. Brit. Carb. Brach.</i> p. 68, t. 14, f. 1—10, t. 15, f. 2; <i>id.</i> de Koninck, * <i>Foss. Pal. Nouv.-Galles du Sud</i> , 1877, pt. 2, p. 253, t. 15, f. 2.	Near Yass, N. S. Wales.
Genus <i>Discina</i> , <i>Lamarck</i> , 1819 ( <i>Hist. Nat. Anim. s. Vertèb.</i> vi. pt. 1, p. 236; Davidson, <i>Introduction</i> , p. 126)= <i>Orbiculoidea</i> , d'Orbigny, 1849. <i>Tretenterata-Discinida.</i>			
<i>D. affinis</i> , <i>M'Coy.</i>	U. Pal. (Carb.)	<i>Orbicula</i> , * <i>Annals Nat. Hist.</i> 1847, xx. p. 236, t. 13, f. 1; <i>id.</i> * <i>Proc. R. Soc. V. D. Land</i> , 1851, i. p. 322, t. 13, f. 1; <i>id.</i> Plews, <i>Mining Inst. Jour.</i> 1858, vi. pt. 3, t. 3.	Dunvegan, N. S. Wales.



## (Brachiopoda.)

## (Mid. and Up. Palæozoic.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
D. Alleghania, <i>Hall.</i>	Mid. Pal. (L. Dev.).	*Pal. N. York, 1867, iv. pt. 1, p. 25, t. 1, f. 17; de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 82.	Yass, N. S. Wales.

Genus *Leptæna*, *Dalman*, 1828 (see p. 19).—*Clistenterata-Strophomenidæ*.

L. ? interstitialis, <i>Phillips.</i>	Mid. Pal. (L. Dev.).	<i>Orthis</i> , *Pal. Foss. Devon. 1841, p. 61, t. 25, f. 103; <i>Leptæna</i> ? Davidson, *Mon. Brit. Dev. Brach. p. 85, t. 18, figs. 15—18; de Kon.*Foss. Pal. Nouv.-Galles du Sud, 1876, p. 91.	Yass, N. S. Wales.
L. nobilis, <i>M'Coy.</i>	Mid. Pal. (L. Dev.).	*Brit. Pal. Foss. p. 386, t. 2 a, f. 9; Davidson, *Mon. Brit. Dev. Brach. p. 86, t. 18, figs. 19—21; de Kon.*Foss. Pal. Nouv.-Galles du Sud, 1876, p. 92.	Yass, N. S. Wales.
L. subæquicostata, <i>de Kon.</i>	Mid. Pal. (L. Dev.).	*Foss. Pal. Nouv.-Galles du Sud, 1876, p. 93, Atlas, t. 3, f. 2.	Yass, N. S. Wales.

Genus *Lingula*, *Bruguière*, 1791. (Encyclop. Méthod. t. pl. 250, f. 1, a, b and c; *Lamarck*, Système, 1801, p. 140; *id.* Histoire, 1819, vi. pt. 1, p. 257.)  
*Tretenterata-Lingulidæ*.

L. ovata, <i>Dana.</i>	U. Pal. (Carb.)	*American Jour. Sc. 2nd ser. iv. p. 152; *Geol. U. S. Expl. Expd. p. 685, Atlas, t. 2, f. 6.	Black Head, Illawara, N. S. Wales.
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Genus *Orthis*, *Dalman*, 1828 (see p. 20).—*Clistenterata-Strophomenidæ*.

O. Australis, <i>M'Coy.</i>		Vide <i>O. resupinata</i> , <i>Martin.</i>	
O. interlineata, <i>J. de C. Sowerby.</i>	Mid. Pal. (L. Dev.).	Trans. Geol. Soc. 2nd ser. v. p. 704, t. 53, f. 11, t. 54, f. 14; Davidson, *Mon. Brit. Dev. Brach. p. 91, t. 17, figs. 18—23; de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 89.	Yarradong, N. S. Wales.
O. Michelini, <i>L'Eveillé.</i>	U. Pal. (Carb.)	<i>Terebratula</i> , *Mém. Soc. Géol. France, 1835, II. p. 39, t. 2, f. 14—17; <i>Orthis</i> , de Koninck, *Descrip. Anim. Foss. Terr. Carb. Belgique, 1843, p. 228, t. 13, f. 8, 10 c and d; <i>id.</i> Davidson, *Mon. Brit. Carb. Brach. pp. 132, 264, t. 30, f. 6—12; <i>id.</i> de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 216, t. 10, f. 10.	Tasmania ( <i>Davidson</i> ). Burrageood; Colocolo, N. S. Wales.
O. resupinata, <i>Martin.</i>	U. Pal. (Carb.)	<i>Conch.</i> ( <i>Anomites</i> ), *Pet. Derb. 1809, t. 49, f. 13 and 14; <i>Orthis</i> , de Koninck, *Descrip. Anim.	Lewin's Brook; Burrageood; Colocolo, N. S. Wales.

## (Brachiopoda.)

(Mid. and Up. Palæozoic.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
O. spinigera, M'Coy.	U. Pal. (Carb.)	Foss. Terr. Carb. Belgique, 1843, p. 226, t. 13, f. 9 and 10; O. striatula, M'Coy (non Schloth.), Annals Nat. Hist. 1847, xx. p. 234; O. Australis, *id. ibid. p. 234, t. 13, f. 4 and 4a; O. striatula, M'Coy, Proc. R. Soc. V. D. Land, 1851, i. p. 320; O. Australis, id. *ibid. p. 320, t. 13, f. 4; O. Australis, Clarke, S. Goldfields, 1860, p. 286; O. resupinata, Davidson, *Mon. Brit. Carb. Brach. p. 130, t. 29, f. 1-6, t. 30, f. 1-5; id. de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 214, t. 10, f. 9.	Dunvegan, N. S. Wales.
O. striatula, Schlot-heim.	U. Pal. (Dev.)	Anomia, Leonhard's Min. Taschenbuch, 1813, viii. t. 1, f. 6; id. Davidson, *Mon. Brit. Dev. Brach. p. 87, t. 17, figs. 4-7; de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 90.	Lewin's Brook; Allyn River, N. S. Wales.
O. crenistria, Phillips.	U. Pal. (Carb.)	Spirifera, *Geol. York. 1836, ii. p. 216, t. 9, f. 6; Streptorhynchus, Davidson, *Mon. Brit. Carb. Brach. p. 214, t. 26, f. 1, t. 27, f. 1-5, t. 30, f. 14-16; id.? Beyrich, Abhandl. K. Akad. Wissensch. Berlin, 1865, xxxvi. p. 82, t. 1, f. 9 a, b; Orthotetes, de Koninck, *Mon. Foss. Carb. Bleiberg en Carinthie, 1873, p. 44, t. 2, f. 4 (for synonymy); id. *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 212, t. 10, f. 8.	Dungog, N. S. Wales. Timor.
O. crenistria, var. radialis, Phillips.	U. Pal. (Carb.)	Spirifera radialis, Phill. *Geol. York. 1836, ii. p. 220, t. 11, f. 5; Streptorhynchus radialis, Beyrich, *Abhandl. K. Akad. Wissensch. Berlin, 1865, xxxvi. p. 80, t. 1, f. 8 a-c; St. crenistria, var. radialis, Davidson, *Mon. Brit. Carb. Brach. p. 129, t. 25, f. 16-18.	Timor.
O. Davidsoni, R. Etheridge.	Mid. Pal. (Dev.)	Streptorhynchus, *Quart. Jour. Geol. Soc. 1872, xxviii. p. 333, t. 17, f. 1.	Bowen River, Qu.

Genus *Orthotetes*, Fischer, 1829 (Bull. Soc. Imp. Nat. Moscou, p. 375; de Koninck, Mon. Foss. Carb. Bleiberg en Carinthie, 1873, p. 42) = *Streptorhynchus*, King. *Clistenterata-Strophomenida*.

## (Brachiopoda.)

## (Mid. and Up. Palæozoic.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
Genus <i>Pentamerus</i> , Sowerby, 1813 (see p. 20).— <i>Clistenterata-Pentamerida</i> .			
<i>P. pumilus</i> , de Kon.	Mid. Pal. (L. Dev.).	*Foss. Pal. Nouv.-Galles du Sud, 1876, p. 94, t. 3, f. 3.	Yass, N. S. Wales.
Genus <i>Productus</i> , J. Sowerby, 1814. (Min. Con. i. p. 153; Davidson, Introduction, p. 117).— <i>Clistenterata-Productida</i> .			
<i>P. aculeatus</i> , Martin.	U. Pal. (Carb.)	<i>Conch. (Anomites)</i> , *Pet. Derb. 1809, t. 39, f. 9, 10; <i>Productus</i> , J. Sowerby, *Min. Con. 1814, i. p. 156, t. 68, f. 4; <i>id.</i> Davidson, *Mon. Brit. Carb. Brach. p. 166, t. 33, f. 16—20; <i>id.</i> de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 204, t. 11, f. 6. Vide <i>P. semireticulatus</i> , Martin.	Colocolo, N. S. Wales.
<i>P. antiquatus</i> , J. Sowerby.	U. Pal. (Carb.)	Darwin's *Geol. Obs. Volc. Islands, 1844, p. 158; Morris, in Strzelecki's *Phys. Descrip. N. S. Wales, 1845, p. 284, t. 14, f. 4 a—c; de Koninck, *Mém. Soc. R. Sc. Liège, iv. p. 241, t. 16, f. 1; <i>id.</i> *Mon. <i>Productus</i> et <i>Chonetes</i> , 1847, p. 102, t. 16, f. 1 a and b; M'Coy, <i>Annals Nat. Hist.</i> 1847, xx. p. 235; Dana, *Geol. U. S. Expl. Exped. p. 686, Atlas, t. 2, f. 8; Pews, <i>Mining Inst. Jour.</i> 1858, vi. pt. 3, t. 3; Clarke, <i>S. Goldfields</i> , 1860, p. 286; ? <i>P. undulatus</i> , M'Coy, * <i>Annals Nat. Hist.</i> 1847, p. 236, t. 13, f. 2; <i>P. brachythærus</i> , de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 198, t. 10, f. 4, t. 11, f. 1; Grange, Dumont-d'Urville's <i>Voy. au Pole Sud</i> , Géol. 1854, rr. pp. 84, 89, 93, 94, 95; d'Orbigny, <i>Paléontologie</i> , <i>ibid.</i> Atlas, 1846, t. 6, f. 6, 7.	Raymond Terrace; Loder's Creek, N. S. Wales.
<i>P. Clarkei</i> , R. Etheridge.	M. Pal. (Dev.) U. Pal. (Carb.)	*Quart. Jour. Geol. Soc. 1872, xxviii. p. 334, t. 17, f. 2; de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 203, t. 10, f. 5, t. 11, f. 2.	Bowen River, Qu. Branxton, N. S. Wales.
<i>P. cora</i> , D'Orbigny.	M. Pal. (Dev.) U. Pal. (Carb.)	*Pal. Voy. d. l'Amérique Mérid. iii. pts. 3 and 4, p. 55, t. 5, f. 8 and 9; Davidson, *Mon. Brit. Carb. Brach. pp. 148, 264, t. 36, f. 4, t. 42, f. 9; R. Etheridge, *Quart. Jour. Geol. Soc. 1872, xxviii.	Gympie, Qu. Port Stephen; Tillegary, N. S. Wales. Tasmania (Davidson).

## (Brachiopoda.)

## (Mid. and Up. Palæozoic.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
<i>P. fimbriatus</i> , <i>J. de C. Sowerby</i> .	U.Pal.(Carb.)	p. 328, t. 15, f. 1, 2; de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 184, t. 9, f. 1. *Min. Con. 1824, v. p. 85, t. 459, f. 1; Davidson, *Mon. Brit. Carb. Brach. p. 171, t. 33, f. 12 and 15, t. 44, f. 15; de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 195, t. 11, f. 5.	Tilleghary; William River, N. S. Wales.
<i>P. fragilis</i> , <i>Dana</i> .	U.Pal.(Carb.)	*Am. Jour. Sc. 2nd ser. iv. p. 153; *Geol. U. S. Expl. Exped. p. 686, Atlas, t. 2, f. 7; Clarke, S. Goldfields, 1860, p. 286; de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 201, t. 10, f. 3.	Wollongong Point; Illawara; Braxton, N. S. Wales.
<i>P. longispinus</i> , <i>J. Sowerby</i> .	U.Pal.(Carb.)	*Min. Con. 1814, i. p. 154, t. 68, f. 1; <i>P. Flemingii</i> , <i>J. Sowerby</i> , *Min. Con. 1814, i. p. 155, t. 68, f. 2; <i>P. setosus</i> , <i>Phill.</i> *Geol. York. ii. p. 214, t. 8, f. 9 and 17; <i>id.</i> M'Coy, Annals Nat. Hist. 1847, xx. p. 235; <i>P. Flemingii</i> , de Koninck, *Mém. Soc. R. Sc. Liège, iv. p. 196, t. 10, f. 2 and 3; <i>id. ibid.</i> *Mon. <i>Productus et Chonetes</i> , p. 95, t. 10, f. 2 and 3; <i>P. longispinus</i> , Davidson, *Mon. Brit. Carb. Brach. p. 154, t. 35, f. 5—19; <i>id.</i> R. Etheridge, *Quart. Jour. Geol. Soc. 1872, xxviii. p. 333, t. 18, f. 9; <i>P. Flemingii</i> , de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 191, t. 11, f. 3.	Lewin's Brook; Carroo Creek, N. S. Wales.
<i>P. magnus</i> , <i>Meek and Worthen</i> .	U.Pal.(Carb.)	*Proc. Acad. N. Sci. Philadelphia for 1861, p. 142; *Illinois Geol. Survey Report, 1868, vol. iii. p. 528, t. 20, f. 7; de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 186, t. 10, f. 1.	S. E. of Buchan, N. S. Wales.
<i>P. Murchisonianus</i> , <i>de Koninck</i> .	U.Pal.(Carb.)	*Mém. Soc. R. Sc. Liège, 1846, p. 245, t. 16, f. 3; *Mon. <i>Productus et Chonetes</i> , 1847, p. 138, t. 16, f. 3.	Tasmania.
<i>P. punctatus</i> , <i>Martin</i> .	U.Pal.(Carb.)	<i>Conch. (Anomites)</i> , <i>Martin</i> , *Pet. Derb. 1809, t. 37, f. 6—8; <i>Productus</i> , <i>J. Sowerby</i> , *Min. Con. 1823, iv. p. 22, t. 323; <i>id.</i> Davidson, *Mon. Brit. Carb. Brach. p. 172, t. 44, f. 9—16; <i>id.</i> de Koninck, *Foss. Carb. Bleiberg en Carinthie, 1873, p. 30, t. 1, f. 19 (for synonymy); <i>id. ibid.</i> *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 193, t. 10, f. 2; <i>P.</i>	Karua and William Rivers, N. S. Wales. Timor.

## (Brachiopoda.)

## (Mid. and Up. Palæozoic.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
<i>P. pustulosus</i> , <i>Phillips.</i>	U. Pal. (Carb.)	<i>punctatus?</i> Beyrich, *Abhandl. K. Akad. Wissensch. Berlin, 1865, xxxvi. p. 83, t. 2, f. 3. *Geol. York. 1836, II. p. 216, t. 7, f. 15; <i>P. rugatus</i> , Phillips, * <i>ibid.</i> f. 16; <i>P. pustulosus</i> , de Verneuil, *Bull. Soc. Géol. de France, XI. p. 177; <i>P. rugatus</i> , G. Sowerby, in Darwin's *Geol. Obs. Volc. Islands, 1844, p. 158; <i>P. pustulosus</i> , Davidson, *Mon. Brit. Carb. Brach. p. 168, t. 41, f. 1—16, t. 42, f. 1—4.	S. Tasmania.
<i>P. rugatus</i> , <i>Phill.</i> <i>P. scabriculus</i> , <i>Martin.</i>	U. Pal. (Carb.)	Vide <i>P. pustulosus</i> , Phill. <i>Conch. (Anomites)</i> , *Pet. Derb. 1809, t. 36, f. 5; <i>Productus</i> , J. Sowerby, *Min. Con. 1814, I. p. 157, t. 69, f. 1; <i>id.</i> M'Coy, Annals Nat. Hist. 1847, xx. p. 235; <i>id.</i> Davidson, *Mon. Brit. Carb. Brach. p. 169, t. 42, f. 5—8; <i>id.</i> de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 196.	Hall's Quarry, Hobarton, Tas. R. William, N. S. Wales.
<i>P. semireticulatus</i> , <i>Martin.</i>	U. Pal. (Carb.)	<i>Conch. (Anomites)</i> , *Pet. Derb. 1809, t. 31, figs. 1 and 3, t. 33, f. 4; <i>P. antiquatus</i> , J. Sow. *Min. Con. IV. p. 15, t. 317, figs. 1, 5, and 6; <i>id.</i> M'Coy, Annals Nat. Hist. 1847, xx. p. 235; <i>id.</i> Clarke, S. Goldfields, 1860, p. 286; <i>P. semireticulatus</i> , de Koninck, Mém. Soc. R. Sc. Liège, IV. p. 183, t. 8, f. 1, t. 9, f. 1, t. 10, f. 1; de Koninck, *Mon. <i>Productus et Chonetes</i> , 1847, p. 83, t. 8, f. 1, t. 9, f. 1, t. 10, f. 1; <i>id.</i> Davidson, *Mon. Brit. Carb. Brach. p. 149, t. 43, figs. 1—11, t. 44, figs. 1—4; <i>id.</i> Beyrich, Abh. K. Akad. Wissensch. Berlin, 1865, xxxvi. p. 82, t. 2, f. 1 and 2; <i>id.</i> de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 188, t. 9, f. 2.	Lewin's Brook; Glen William; Colocolo, N. S. Wales. Timor.
<i>P. setosus</i> , <i>Phillips.</i> <i>P. subquadratus</i> , <i>Morris.</i>	U. Pal. (Carb.)	Vide <i>P. longispinus</i> , J. Sow. Sirzelecki's *Phys. Descr. N. S. Wales, 1845, p. 284; de Kon. Mém. Soc. R. Sc. Liège, IV. p. 203, t. 14, f. 1; <i>id.</i> Mon. <i>Productus et Chonetes</i> , 1847, p. 100, t. 14, f. 1; Clarke, S. Goldfields, 1860, p. 286.	Mounts Dromedary and Wellington, Tas. Glendon, N. S. Wales.
<i>P. undatus</i> , <i>De-france.</i>	U. Pal. (Carb.)	*Dict. Sc. Nat. 1826, XLIII. p. 354; de Koninck, *Mém. Soc. R. Sc. Liège, IV. p. 156, t. 5, f. 3;	Allan River, Tas. Paterson River, N. S. Wales.

## (Brachiopoda.)

(Mid. and Up. Palæozoic.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
<i>P. undulatus</i> , <i>M' Coy.</i>	U. Pal. (Carb.)	<i>id.</i> *Mon. <i>Productus et Chonetes</i> , 1847, p. 59, t. 5, f. 3; Davidson, *Mon. Brit. Carb. Brach. p. 161, t. 34, f. 7—13; de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 190, t. 11, f. 4. *Annals Nat. Hist. 1847, xx. p. 236, t. 13, f. 2; *Proc. R. Soc. V. D. Land, 1851, i. p. 321, t. 13, f. 2. (? = <i>P. brachythærus</i> , G. Sow.)	Loder's Creek, N. S. Wales.

Genus *Rhynchonella*, *Fischer*, 1809 (see p. 21).—*Clistenterata-Rhynchonellidæ*.

<i>R. inversa</i> , <i>de Kon.</i>	U. Pal. (Carb.)	*Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 220, t. 11, f. 11.	Raymond Terrace, N. S. Wales.
<i>R. pleurodon</i> , <i>Phill.</i>	Mid. Pal. (Up. Dev.). U. Pal. (Carb.)	<i>Terebratula</i> , *Geol. York. 1806, ii. p. 222, t. 12, figs. 25—30 (non 16); <i>Rhynchonella</i> , Davidson, *Mon. Brit. Carb. Brach. pp. 101 and 246, t. 23, figs. 1—15, 16—22? Clarke, Remarks Sed. Forms. N. S. W. 3rd ed. 1875, p. 13; de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 95; <i>id. ibid.</i> 1877, pt. 3, p. 219, t. 9, f. 4.	Sofala and Port Stephen, N. S. Wales.
<i>R. pugnus</i> , <i>Martin.</i>	Mid. Pal. (L. Dev.).	<i>Conchylolithus (Anomites)</i> , *Pet. Derb. 1809, t. 22, figs. 4 and 5; <i>Rhynchonella</i> , Davidson, *Mon. Brit. Carb. Brach. p. 97, t. 22, figs. 1—15; Clarke, Remarks Sed. Forms. N. S. W. 3rd ed. 1875, p. 13; de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 97.	Yarradong, N. S. Wales.
<i>R. Timorensis</i> , <i>Beyrich.</i>	U. Pal. (Carb.)	Abhandl. K. Akad. Wissensch. Berlin, 1865, xxxvi. p. 72, t. 1, f. 10 a—c.	Timor.

Genus *Siphonotreta*, *De Verneuil*, 1845 (see p. 21).—*Tretenterata-Discinidæ*.

<i>S. curta</i> , <i>Dana.</i>	U. Pal. (Carb.)	*Geol. U. S. Expl. Exped. p. 685, Atlas, t. 2, f. 5.	Glendon, N. S. Wales.
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Genus *Spirifera*, *J. Sowerby*, 1816 (see p. 22) = *Trigonotreta*, *König*.  
*Clistenterata-Spiriferidæ*.

<i>S. attenuata</i> , <i>J. de C. Sowerby.</i>		Vide <i>S. striata</i> , <i>Martin.</i>	
§. <i>cabedanus</i> , <i>de Verneuil.</i>	M. Pal. (Dev.)	*Bull. Soc. Géol. de France, 1845, ii. p. 473, t. 15, f. 3; de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 103.	Yass, N. S. Wales.
§. <i>calcarata</i> , <i>J. de C. Sowerby.</i>		Vide <i>Spirifera disjuncta</i> , <i>Sow.</i>	

## (Brachiopoda.)

## (Mid. and Up. Palæozoic.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
<i>S. Chee-Hiel, de Koninck.</i>	M. Pal. (Dev.?)	Mon. <i>Productus et Chonetes</i> , 1847, p. 141; Mém. Soc. Royale Sc. Liège, iv. p. 248; d'Orbigny, Paléontologie, Dumont-d'Urville's Voy. au Pole Sud, Atlas, 1846, t. 6, f. 11.	Tasmania.
<i>S. Clarkei, de Kon.</i>	U. Pal. (Carb.)	*Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 236, t. 13, f. 2.	Wollongong, N. S. Wales.
<i>S. convoluta, Phill.</i>	M. Pal. (Dev.) U. Pal. (Carb.)	*Geol. Yorksh. II. p. 217, t. 9, f. 7; <i>S. avicula</i> , G. Sow., Darwin's *Geol. Obs. Volc. Is. 1844, App. p. 160; <i>id.</i> Morris, *Strzelecki's Phys. Descr. N. S. Wales, 1845, p. 282, t. 16, f. 6; <i>id.</i> M'Coy, Annals Nat. Hist. 1847, xx. p. 233; <i>id.</i> Clarke, S. Goldfields, 1860, p. 286; <i>id.</i> Grange, Dumont-d'Urville's Voy. au Pole Sud, Géologie, 1854, II. p. 96; <i>S. convoluta</i> , Davidson, *Mon. Brit. Carb. Brach. p. 35, t. 5, figs. 2—15; Etheridge, *Quart. Jour. Geol. Soc. 1872, xxviii. p. 335, t. 17, f. 3; de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 240, t. 12, f. 2, t. 13, f. 3.	Bowen River, Qu. Black Head, Illawara; Korinda, N. S. Wales. Eagle-hawk Neck, Tas.
<i>S. crassicostata, Jukes (ms.).</i>	U. Pal. (Carb.)	Quart. Jour. Geol. Soc. 1847, III. p. 248; Phys. Str. Aust. 1850, p. 16.	Point Puer; Springvale, Tas.
<i>S. crebristria, Morris.</i>	U. Pal. (Carb.)	Strzelecki's *Phys. *Descr. N. S. Wales, 1845, p. 279, t. 15, f. 2; M'Coy, Annals Nat. Hist. 1847, xx. p. 232; Grange, Dumont-d'Urville's Voyage au Pole Sud, Géologie, 1854, II. p. 85; de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 225, t. 9, f. 5.	Booral; Dunvegan; Burragood, N. S. Wales.
<i>S. Darwinii, Morris.</i>	U. Pal. (Carb.)	? <i>S. paucicostata</i> , G. Sow., *Darwin's Geol. Obs. Volc. Is. 1844, App. p. 160; <i>S. Darwinii</i> , Morris, *Strzelecki's Phys. Descr. N. S. Wales, 1845, p. 279; <i>id.</i> M'Coy, Annals Nat. Hist. 1847, xx. p. 233; <i>id.</i> Dana, *Geol. U. S. Expl. Expt. p. 684, Atlas, t. 8, f. 7; <i>id.</i> Clarke, S. Goldfields, 1860, p. 286; <i>id.</i> de Koninck, Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 230, t. 10, f. 11, t. 11, f. 10, t. 16, f. 1.	Glendon; Harper's Hill; Barraba; Loder's Creek; Black Head, N. S. Wales.
<i>S. disjuncta, J. de C. Sowerby.</i>	Mid. Pal. (L. Dev.)	Trans. Geol. Soc. 1840, v. 2nd ser. p. 704 (and plate descript.), t. 53, f. 8, t. 54, figs. 12 and 13; Stutchbury, Parl. Blue Book, Dec. 1854, p. 19; Davidson,	Pallal; Bowenfels; Sofala; Collin's Flat, N. S. Wales.

(Brachiopoda.)

(Mid. and Up. Palæozoic.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
<i>S. dubia</i> , <i>Etheridge</i> .	M. Pal. (Dev.)	*Mon. Brit. Dev. Brach. p. 23, t. 5, f. 1—12, t. 6, figs. 1—5; Clarke, Remarks Sed. Forms. N. S. W. 3rd ed. 1875, p. 13; de Kon., *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 100; <i>S. calcarata</i> , Sow. <i>loc. cit.</i> t. 53, f. 7.	
<i>S. duodecimcostata</i> , <i>M'Coy</i> .	U. Pal. (Carb.)	*Quart. Jour. Geol. Soc. 1872, xxviii. p. 330, t. 16, f. 6. *Annals Nat. Hist. 1847, xx. p. 234, t. 17, f. 2 and 3; *Proc. R. Soc. V. D. Land, 1851, i. p. 320, t. 17, f. 2 and 3; Dana, *Geol. U. S. Expl. Exped. p. 684, Atlas, t. 2, f. 1; Clarke, S. Goldfields, 1860, p. 287; de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 234, t. 10, f. 12, t. 12, f. 4.	Gympie, Qu. Muree; Wollongong; Bombarderra Creek, N. S. Wales.
<i>S. duplicicosta</i> , <i>Phillips</i> .	U. Pal. (Carb.)	*Geol. York. 1836, ii. p. 218, t. 10, f. 1; Davidson, *Mon. Brit. Carb. Brach. p. 24, t. 3, f. 7—10, t. 4, f. 3, 5—11; de Koninck, Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 198.	R. William, N. S. Wales.
<i>S. exsuperans</i> , <i>de Koninck</i> .	U. Pal. (Carb.)	*Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 249, t. 15, f. 1.	Glen William, N. S. Wales.
<i>S. glabra</i> , <i>Martin</i> .	U. Pal. (Carb.)	<i>Conch. (Anomites)</i> *Pet. Derb. 1809, t. 48, f. 9 and 10; <i>Spirifera subradiata</i> , G. Sow. Darwin's *Geol. Obs. Volc. Is. 1844, p. 159; <i>id.</i> Morris, *Strzelecki's Phys. Descrip. N. S. Wales, 1845, p. 281, t. 16, f. 1—4; <i>id.</i> M'Coy, Annals Nat. Hist. 1847, xx. p. 233; <i>id.</i> Grange, Dumont-d'Urville's Voyage au Pole Sud, Géologie, 1854, ii. pp. 87—96; <i>S. glaber</i> , Dana, *Geol. U. S. Expl. Exped. p. 683, Atlas, t. 1, f. 6; <i>id.</i> Clarke, S. Goldfields, 1860, p. 286; <i>S. glabra</i> , Davidson, *Mon. Brit. Carb. Brach. pp. 59 and 264, t. 11, f. 1—9, t. 12, f. 1—5, 11 and 12; <i>S. glaber</i> , de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 227, t. 11, f. 8, t. 12, f. 1.	Glendon; Muree; Wollongong; Harper's Hill; Raymond Terrace; Morpeth, &c., N. S. Wales. Norfolk Plains; Mts Wellington and Dromedary, Tas.
<i>S. Kupangensis</i> , <i>Beyrich</i> .	U. Pal. (Carb.)	Abhandl. K. Akad. Wissensch. Berlin, 1865, xxxvi. p. 78, t. 1, f. 6 a—c.	Timor.
<i>S. lata</i> , <i>M'Coy</i> .	U. Pal. (Carb.)	*Annals Nat. Hist. 1847, xx. p. 233, t. 13, f. 7; *Proc. R. Soc. V. D. Land, 1851, i. p. 319, t. 13, f. 7; Plews, Mining Inst.	Lewin's Brook; Colococo, N. S. Wales.



## (Brachiopoda.)

## (Mid. and Up. Palæozoic.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
<i>S. latisinuatus</i> , <i>de Koninck</i> .	M. Pal. (Dev.)	Jour. vi. pt. 3, t. 3; de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 244.	Yass, N. S. Wales.
<i>S. lævicostata</i> , <i>Val. et Lamarck</i> .	M. Pal. (Dev.)	*Foss. Pal. Nouv.-Galles du Sud, 1876, p. 105, Atlas, t. 3, f. 7. Lamarck's *Histoire, 1819, vi. p. 254; Davidson, *Mon. Brit. Devon. Brach. p. 28, t. 8, f. 4 and 5; Selwyn, Phys. Geogr. and Geol. Vict. 1866, p. 10; M'Coy, Annals Nat. Hist. 1867, xx. p. 198; M'Coy in Smyth's Progress Report, 1874, p. 34; <i>id. ibid.</i> 1876, iii. p. 62; <i>id.</i> Exhib. Essay, 1872, p. 40; <i>id.</i> *Geol. Survey-Vict. Dec. iv. 1876, p. 16, t. 35, f. 2 <i>a</i> and <i>b</i> ; <i>id.</i> Couchman's Progress Report, 1877, iv. pp. 16 and 155.	Buchan, Vict.
<i>S. lineata</i> , <i>Martin</i> .	U. Pal. (Carb.)	<i>Conck.</i> ( <i>Anomites</i> ), *Pet. Derb. 1809, t. 36, f. 3; <i>Spirifera</i> , Davidson, *Mon. Brit. Carb. Brach. pp. 62 and 264, t. 13, f. 1—13; Beyrich, Abhandl. K. Akad. Wissen. Berlin, 1865, xxxvi. p. 76, t. 1, f. 13 <i>a—c</i> ; <i>Spirifer lineatus</i> , de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 224, t. 11, f. 9.	Raymond Terrace, N. S. Wales. Timor.
<i>S. Moosakhailensis</i> , <i>Davidson</i> .	U. Pal. (Carb.)	*Quart. Jour. Geol. Soc. 1862, xviii. p. 28, t. 2, f. 2; ?Beyrich, *Abhandl. K. Akad. Wissensch. Berlin, 1865, xxxvi. p. 77, t. 1, f. 7.	Timor.
<i>S. multiplicatus</i> , <i>de Koninck</i> .	M. Pal. (Dev.)	*Foss. Pal. Nouv.-Galles du Sud, 1876, p. 102, t. 3, f. 5.	Yass, N. S. Wales.
<i>S. nuda</i> , <i>J. de C. Sowerby</i> .	M. Pal. (Dev.)	*Trans. Geol. Soc. 1840, v. 2nd ser. p. 704, t. 57, f. 8; Davidson, *Mon. Brit. Dev. Brach. p. 38, t. 4, f. 17—24; de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 106.	Yass, N. S. Wales.
<i>S. oviformis</i> , <i>M'Coy</i> .	U. Pal. (Carb.)	*Annals Nat. Hist. 1847, xx. p. 234, t. 13, f. 5 and 6; *Proc. R. Soc. V. D. Land, 1851, i. p. 320, t. 13, f. 5 and 6; Plews, Mining Inst. Jour. vi. 1858, pt. 3, t. 3; de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 233, t. 12, f. 3.	Barraba; Wollongong, N. S. Wales.
<i>S. paucicostata</i> , <i>G. Sowerby</i> .		?Vide <i>S. Darwinii</i> , Morris.	
<i>S. phalæna</i> , <i>Dana</i> .		Vide <i>S. vespertilio</i> , G. Sow.	
<i>S. pinguis</i> , <i>J. Sowerby</i> .	U. Pal. (Carb.)	*Min. Con. 1820, iii. p. 125, t. 271; Davidson, *Mon. Brit. Carb. Brach. p. 50, t. 10, f.	Glen William; Burrigood, N. S. Wales.

## (Brachiopoda.)

## (Mid. and Up. Palæozoic.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
S. rotundata, G. Sow. S. Stokesii, König.	U. Pal. (Carb.)	1—12; de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 238, t. 14, f. 2. Vide <i>S. Tasmaniensis</i> , Morris. <i>Trigonotreta</i> , *Icon. Foss. p. 3, t. 6, f. 70; <i>Spirifera trapezoidalis</i> , G. Sowerby, Darwin's *Geol. Obs. Volc. Is. 1844, p. 159; <i>S. Stokesii</i> , Morris, Strzelecki's *Phys. Descrip. N. S. Wales, 1845, p. 283, t. 15, f. 1; <i>id.</i> Grange, Dumont-d'Urville's Voy. au Pole Sud, Géologie, 1854, II. pp. 94—96; d'Orbigny, Paléontologie, <i>ibid.</i> Atlas, t. 6, f. 12—14 (1846).	Eagle-hawk Neck; Mount Dromedary, Tas.
S. striata, Martin.	M. Pal. (Dev.) U. Pal. (Carb.)	<i>Conch. (Anomites)</i> , *Pet. Derb. 1809, t. 23, f. 1 and 2; <i>Spirifer attenuatus</i> , J. de C. Sow. *Min. Con. v. p. 151, t. 493; <i>id.</i> M'Coy, Annals Nat. Hist. 1847, xx. p. 233; <i>id.</i> Clarke, S. Goldfields, 1860, p. 287; <i>S. striata</i> , Davidson, *Mon. Brit. Carb. Brach. pp. 19 and 246, t. 2, f. 12—21, t. 3, f. 2—6; <i>id.</i> Etheridge, *Quart. Jour. Geol. Soc. 1872, xxviii. p. 334, t. 17, f. 5, ? p. 336, t. 18, f. 8.	Dunvegan, N. S. Wales. Bowen River, Peak Downs, Qu.
S. Strzeleckii, de Koninck.	M. Pal. (Dev.) U. Pal. (Carb.)	<i>S. undifera</i> , var. <i>undulata</i> , Etheridge (non F. Roemer), *Quart. Jour. Geol. Soc. 1872, xxviii. p. 330, t. 15, f. 4, t. 16, f. 3—5; <i>S. Strzeleckii</i> , de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 235, t. 13, f. 1, t. 14, f. 1.	Lady Mary Reef, Gympie, Qu. Stony Creek; Raymond Terrace, N. S. Wales.
S. subradiata, G. Sow. S. Tasmaniensis, Morris.	U. Pal. (Carb.)	Vide <i>S. glabra</i> , Martin. <i>S. rotundata</i> , G. Sow. (non J. Phill.) Darwin's *Geol. Obs. Volc. Is. 1854, p. 159; <i>S. Tasmaniensis</i> , Morris, Strzelecki's *Phys. Descrip. N. S. Wales, 1845, p. 280, t. 15, f. 3 and 4; <i>id.</i> M'Coy, Annals Nat. Hist. 1847, xx. p. 233; <i>id.</i> Grange, Dumont-D'Urville's Voy. au Pole Sud, Géologie, 1854, II. p. 96; <i>S. Tasmanni</i> , v. Buch, *Abh. K. Akad. Wissen. z. Berlin, 1848, XI. p. 75, f. 3; <i>ibid. id.</i> Quart. Jour. Geol. Soc. III. pt. 2, p. 56; <i>S. Tasmaniensis</i> , var. ? Beyrich, *Abh. K. Akad. Wissen. z. Berlin, 1865, xxxvi. p. 78, t. 1, f. 5; <i>id.</i> de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 248, t. 9, f. 7.	Lewin's Brook; Raymond Terrace, N. S. Wales. Eastern Marshes; Mts Dromedary and Wellington, Tas.

## (Brachiopoda.)

## (Mid. and Up. Palæozoic.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
<i>S. trapezoidalis</i> , <i>G. Sowerby</i> .	U. Pal. (Carb.)	Vide <i>S. Stokesii</i> , König.	Strand, N. S. Wales.
<i>S. triangularis</i> , <i>Martin</i> .	U. Pal. (Carb.)	<i>Conch.</i> ( <i>Anomites</i> ), *Pet. Derb. 1809, t. 36, f. 2; <i>Spirifer</i> , J. de C. Sow. *Min. Conch. 1827, vi. p. 120, t. 562, f. 5 and 6; <i>Spirifera</i> , Davidson, *Mon. Brit. Carb. Brach. pp. 27 and 223, t. 5, f. 16—24, t. 50, f. 10—17; <i>Spirifer</i> , de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 245, t. 14, f. 4.	Strand, N. S. Wales.
<i>S. trigonalis</i> , <i>Martin</i> .	U. Pal. (Carb.)	<i>Conch.</i> ( <i>Anomites</i> ), *Pet. Derb. 1809, t. 36, f. 1; <i>Spirifera</i> , J. Sowerby, *Min. Con. 1820, iii. p. 117, t. 265, f. 2 and 3; <i>id.</i> Davidson, *Mon. Brit. Carb. Brach. pp. 29, 222 and 264, t. 5, f. 25—34; <i>Sp. bisulcata</i> , J. de C. Sow. *Min. Con. v. p. 152, t. 494, f. 1 and 2; <i>id.</i> Davidson, *loc. cit. p. 31, t. 5, f. 1, t. 6, f. 1—19, t. 7, f. 4; <i>id.</i> var. <i>acuta</i> , Etheridge, *Quart. Jour. Geol. Soc. 1872, xxviii. p. 329, t. 16, f. 1, p. 335, t. 17, f. 4; <i>S. bisulcata</i> , de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 246, t. 14, f. 5.	Port Stephen, Tas. Gympie, Qu. Burragood; Colocolo; Gervis Bay, N. S. Wales.
<i>S. undifera</i> , var. <i>undulata</i> , <i>Etheridge</i> (non <i>F. Roemer</i> ).	M. Pal. (Dev.) U. Pal. (Carb.)	Vide <i>S. Strzeleckii</i> , de Koninck.	Illawara; Raymond Terrace, &c., N. S. Wales. Gympie, Qu. Eagle-hawk Neck; Mts Dromedary and Wellington, Tas.
<i>S. vespertilio</i> , <i>G. Sowerby</i> .	M. Pal. (Dev.) U. Pal. (Carb.)	Darwin's *Geol. Obs. Volc. Is. 1844, p. 160; Morris, Strzelecki's *Phys. Descrip. N. S. Wales, 1845, p. 252, t. 17, f. 1—3; M'Coy, Annals Nat. Hist. 1847, xx. p. 232; Dana, *Geol. U. S. Expl. Exped. p. 685, Atlas, t. 2, f. 3; <i>S. phalana</i> , <i>id.</i> * <i>ibid.</i> p. 685, Atlas, t. 2, f. 4; <i>S. vespertilio</i> et <i>S. phalana</i> , Clarke, S. Goldfields, 1860, pp. 286, 287; <i>S. vespertilio</i> , Etheridge, *Quart. Jour. Geol. Soc. 1872, xxviii. p. 329, t. 16, f. 2; <i>id.</i> de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 242, t. 13, f. 4, t. 14, f. 3.	Illawara; Raymond Terrace, &c., N. S. Wales. Gympie, Qu. Eagle-hawk Neck; Mts Dromedary and Wellington, Tas.
<i>S. Yassensis</i> , <i>Clarke</i> .	U. Pal. (Carb.)	<i>S. Yassensis</i> , Clarke (ms.), Sed. Formations N. S. Wales, 1875, 3rd ed. p. 15; <i>S. Yassensis</i> , de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 104, t. 3, f. 6.	Yass; Duntroon, N. S. Wales.
<i>S. sp. ind.</i>	U. Pal. (Carb.)	Dana, *Geol. U. S. Expl. Exped. p. 684, Atlas, t. 2, f. 2.	Black Hill; Glendon, N. S. Wales.

## (Brachiopoda.)

## (Mid. and Up. Palæozoic.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
Genus <i>Spiriferina</i> , <i>D'Orbigny</i> , 1847. (Comp. Rendus, xxv. p. 268; Davidson, Introduction, p. 82).— <i>Clistenterata-Spiriferida</i> .			
<i>S. cristata</i> , <i>v. Schlotheim</i> .	U. Pal. (Carb.)	<i>Terebratulites</i> , Denkschriften K. baier. Akad. Wissen. zu München, 1816, vi. p. 28, t. 1, f. 3 a—c; <i>Spirifer octoplicatus</i> , J. de C. Sow. *Min. Con. 1827, vi. p. 120, t. 562, f. 2—4; <i>Spiriferina cristata</i> , var. <i>octoplicata</i> , Davidson, *Mon. Brit. Carb. Brach. pp. 38, 226 and 267, t. 7, f. 37—47, 60 and 61, t. 52, f. 9, 10 and 13, t. 54, f. 10—12; <i>Spiriferina cristata</i> , de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 250; <i>id.</i> M'Coy, Couchman's Progress Rep. 1877, iv. p. 155; <i>S. cristatus</i> , Beyrich, Abhandl. K. Akad. Wissen. Berlin, 1865, xxxvi. p. 79, t. 1, f. 4 a—c.	Colocolo, N. S. Wales. Chiltern, Vict. Timor.
<i>S. insculpta</i> , <i>Phill.</i>	U. Pal. (Carb.)	<i>Spirifera</i> , *Geol. Yorksh. 1836, ii. p. 216, t. 9, f. 2 and 3; <i>Spiriferina</i> , Davidson, *Mon. Brit. Carb. Brach. p. 42, t. 7, f. 48—55; <i>id.</i> de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 252.	Colocolo, N. S. Wales.

Genus *Streptorhynchus*, *King*, 1850. (Mon. Perm. Foss. England, p. 107.)  
Vide *Orthotetes*, *Fischer*.

<i>S. Davidsoni</i> , <i>Etheridge</i> .		Vide <i>Orthotetes</i> .	
<i>S. crenistria</i> , <i>Phill.</i>		Vide <i>Orthotetes</i> .	

Genus *Strophalosia*, *King*, 1844. (Annals Nat. Hist. xiv. p. 313.)  
*Clistenterata-Productida*.

<i>S. productoides</i> , <i>Murchison</i> .	M. Pal. (Up. Dev.)	<i>Orthis</i> , *Bull. Soc. Géol. de France, 1840, xi. p. 254, t. 2, f. 7; <i>Strophalosia</i> , Davidson, *Mon. Brit. Dev. Brach. p. 97, t. 19, f. 13—25; de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 83.	Kempsey, N. S. Wales.
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Genus *Strophomena* (*Rafinesque*, 1820?), *Blainville*, 1824 (see p. 22).  
*Clistenterata-Strophomenida*.

<i>S. rhomboidalis</i> , <i>Wahlenberg</i> , var. <i>analoga</i> , <i>Phillips</i> .	M. Pal. (Dev.) U. Pal. (Carb.)	<i>Producta analoga</i> , <i>Phill.</i> *Geol. York. ii. p. 215, t. 7, fig. 10; <i>S. rhomboidalis</i> , var. <i>analoga</i> , Davidson, *Mon. Brit. Carb. Brach. p. 119, t. 28, f. 1—13; <i>id.</i> <i>Etheridge</i> , *Quart. Jour. Geol. Soc. 1872, xxviii. pp. 331	Lady Mary Reef, Gympie; Head of Don R. Qu. Burrageed; Colocolo, N. S. Wales.
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## (Brachiopoda.)

## (Mid. and Up. Palæozoic.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
		and 333, t. 15, figs. 3 and 5, t. 16, f. 7, t. 18, f. 1; <i>Strophomenes analoga</i> , de Kon. Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 208, t. 9, f. 3, t. 11, f. 7 (for synonymy).	
Genus <b>Terebratula</b> , Luid, 1699. (Lith. Brit. Ichnographia, p. 40; Davidson, Introduction, p. 62).— <i>Clistenterata-Terebratulidæ</i> .			
T. amygdala, Dana.		Vide <i>T. sacculus</i> .	
T. biundata, M'Coy.		Vide <i>T. sacculus</i> , var. <i>hastata</i> , J. de C. Sowerby.	
T. cymbæformis, Morris.		Vide <i>T. sacculus</i> , var. <i>hastata</i> , J. de C. Sowerby.	
T. elongata, Dana.		Vide <i>T. sacculus</i> .	
T. hastata, J. de C. Sowerby.		Vide <i>T. sacculus</i> , var. <i>hastata</i> , J. de C. Sowerby.	
T. sacculus, Martin.	U. Pal. (Carb.)	<i>Conch. (Anomites)</i> , *Pet. Derb. 1809, t. 46, f. 1 and 2; <i>Terebratula</i> , J. de C. Sow. *Min. Con. 1824, v. p. 65, t. 446, f. 1; <i>T. amygdala</i> , Dana, *American Jour. 1847, iv. p. 152; <i>id. ibid.</i> *Geol. U. S. Expl. Exped. p. 682, Atlas, t. 1, f. 2 a—d; <i>T. elongata</i> , Dana, * <i>ibid.</i> p. 682, Atlas, t. 1, f. 3 a—d; <i>T. sacculus</i> , Davidson, *Mon. Brit. Carb. Brach. p. 14, t. 1, f. 23, 24, 27, 29 and 30; <i>id. de Koninck</i> , *Foss. Carb. Bleiberg en Carinthie, 1872, p. 65, t. 2, f. 16 (for synonymy); <i>id. ibid.</i> *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, pp. 255—257, t. 15, f. 5.	Black Head; Burragood; Strand, N. S. Wales.
T. sacculus, var. <i>hastata</i> , J. de C. Sow.	U. Pal. (Carb.)	<i>T. hastata</i> , *Min. Con. 1824, v. p. 66, t. 446; <i>id.</i> Morris, Strzelecki's *Phys. Descrip. N. S. Wales, 1845, p. 278; <i>T. cymbæformis</i> , <i>id.</i> * <i>ibid.</i> <i>id.</i> p. 278, t. 17, f. 4 and 5; <i>Atrypa</i> , <i>id.</i> M'Coy, Annals Nat. Hist. 1847, xx. p. 231; <i>A. biundata</i> , M'Coy, * <i>ibid.</i> p. 231, t. 13, f. 9; <i>id. ibid.</i> *Proc. R. Soc. V. D. Land, 1851, i. p. 318, t. 13, f. 9; <i>A. biundata</i> , et <i>A. cymbæformis</i> , Clarke, S. Goldfields, 1860, p. 286; <i>T. cymbæformis</i> et <i>T. hastata</i> , Grange, Dumont-d'Urville's Voyage au Pole Sud, Géologie, 1854, II, pp. 84, 85, 89; <i>T. hastata</i> , Davidson, *Mon. Brit. Carb. Brach. pp. 11, 213 and 246, t. 1, f. 1—12, t. 49, f. 11—30; <i>T. sacculus</i> , var. <i>hastata</i> , de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 257, t. 15, f. 3 and 4.	Korinda; Lewin's Brook, Raymond Terrace; Muree; Strand; Illawara, N. S. Wales.

## (Brachiopoda—Pelecypoda.)

## (Mid. and Up. Palæozoic.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
<i>T. sp. ind.</i>	U. Pal. (Carb.)	Dana, *Geol. U. S. Expl. Exped. p. 683, Atlas, t. 1, f. 4 and 5.	Illawara; Glendon, N. S. Wales.
Genus <b>Trigonotreta</b> , König, 1825 or 1820? (Icon. Foss. Sect. p. 3.) Vide <i>Spirifera</i> .			
<i>T. Stokesii</i> , König.		Vide <i>Spirifera Stokesii</i> , König.	

## Section—Mollusca proper.

## Class—Pelecypoda (Lamellibranchiata or Conchifera, &amp;c.).

Genus **Allorisma**, King, 1844. (Annals Nat. Hist. xiv. p. 315; Mon. Perm. Foss. England, 1850, p. 196; Meek and Hayden, Pal. Upper Missouri, 1865, p. 36.)  
*Myacea-Anatinidæ.*

<i>A. audax</i> , Dana.		Vide <i>Edmondia? audax</i> .	
<i>A. ? curvatam</i> , <i>Morris</i> .	U. Pal. (Carb.)	<i>Allorisma</i> , Strzelecki's *Phys. Descrip. N. S. Wales, 1845, p. 270, t. 10, f. 1; <i>id.</i> M'Coy, Annals Nat. Hist. 1847, xx. p. 300; <i>Pholadomya</i> , Dana, *Geol. U. S. Explor. Exped. p. 688, Atlas, t. 3, f. 2; <i>Allorisma</i> , Grange, Dumont-d'Urville's Voyage au Pole Sud, Géol., 1854, ii. p. 89; <i>Sanguinolites</i> , de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 264, t. 17, f. 4.	Illawara; Glendon; Darlington; Wollongong, N. S. Wales.

Genus **Aphanaia**, L. G. de Koninck, 1877. (Foss. Pal. Nouv.-Galles du Sud, pt. 3, p. 302.)  
*? Mytilacea-Aviculidæ.*

<i>A. gigantea</i> , de Kon.	U. Pal. (Carb.)	* <i>loc. cit.</i> p. 304, t. 21, f. 6.	Branxton, N. S. Wales.
<i>A. Mitchellii</i> , M'Coy.	U. Pal. (Carb.)	<i>Inoceramus</i> , *Annals Nat. Hist. 1847, xx. p. 299, t. 14, f. 1; <i>id.</i> Proc. R. Soc. V. D. Land, 1851, i. p. 323, t. 14, f. 1; <i>id.</i> Plews, Mining Inst. Jour. 1858, vi. pt. 3, t. 4; <i>id.</i> Clarke, S. Goldfields, 1860, p. 287; <i>Aphanaia</i> , de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 303, t. 21, f. 5.	Glendon; Wollongong, N. S. Wales.

Genus **Arca**, Linnæus, 1758. (Systema, ed. 10, i. p. 693; Lamarck, Prodrome, 1799, p. 87.)  
*Arcacea-Arcidæ.*

<i>A. costellata</i> , M'Coy.	U. Pal. (Carb.)	<i>Byssarca</i> , *Synop. Carb. Foss. Ireland, 1844, p. 72, t. 11, f. 36; Morris, Cat. Brit. Foss. 1854, 2nd ed. p. 184; <i>Palæarca</i> , de	Burrageood, N. S. Wales.
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## (Pelecypoda.)

## (Mid. and Up. Palæozoic.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
		Koninck, Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 286, t. 16, f. 6 and 7.	
A. interrupta, de Koninck.	U. Pal. (Carb.)	<i>Palæarca</i> , loc. cit. p. 287, t. 16, f. 5.	Burrageood, N. S. Wales.
A. subarguta, de Kon.	U. Pal. (Carb.)	<i>Palæarca</i> , loc. cit. p. 287, t. 16, f. 8.	Burrageood, N. S. Wales.
Genus <i>Astarte</i> , J. Sowerby, 1816 <sup>1</sup> . (Min. Con. II. p. 85.)— <i>Lucinacea-Astartidæ</i> .			
A. ? gemma, Dana.	U. Pal. (Carb.)	* <i>Astarte</i> , American Jour. Sc. 1847, iv. p. 154; <i>id.</i> *Geol. U. S. Expl. Expd. p. 688, Atlas, t. 3, f. 4; <i>id.</i> Clarke, S. Goldfields, p. 287.	Wollongong Point, N. S. Wales.
Genus <i>Astartila</i> <sup>2</sup> , Dana, 1847. (American Jour. Sc. iv. p. 155.) <i>Lucinacea-Astartidæ</i> ?			
A. ? corpulenta, Dana.	U. Pal. (Carb.)	*Geol. U. S. Expl. Expd. p. 691, Atlas, t. 3, f. 3; Clarke, S. Goldfields, 1860, p. 287.	District of Illawara, N. S. Wales.
A. cyclas, Dana.	U. Pal. (Carb.)	*American Jour. Sc. 1847, iv. p. 155; *Geol. U. S. Expl. Expd. p. 690, Atlas, t. 4, f. 3; Clarke, S. Goldfields, 1860, p. 287.	Wollongong Point, N. S. Wales.
A. cyprina, Dana.	U. Pal. (Carb.)	*American Jour. Sc. 1847, iv. p. 155; *Geol. U. S. Expl. Expd. p. 689, Atlas, t. 3, f. 6; Clarke, S. Goldfields, 1860, p. 287; <i>Pachydomus</i> , de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 276, t. 18, f. 6.	Wollongong Point, N. S. Wales.
A. cytherea, Dana.	U. Pal. (Carb.)	*American Jour. Sc. 1847, iv. p. 155; *Geol. U. S. Expl. Expd. p. 689, Atlas, t. 4, f. 1; ? <i>Pachydomus</i> ? <i>pusillus</i> , M'Coy, *Annals Nat. Hist. 1847, xx. p. 302, t. 16, figs. 1 and 2; ? <i>id.</i> <i>ibid.</i> *Proc. R. Soc. V. D. Land, 1851, I. p. 325, t. 16, figs. 1 and 2; <i>A. cytherea</i> , Stutchbury, Parl. Blue Book, 25th July, 1856, p. 8; <i>id.</i> Clarke, S. Goldfields, 1860, p. 287.	Wollongong Point, N. S. Wales.
A. intrepida, Dana.	U. Pal. (Carb.)	*American Jour. Sc. 1847, iv. p. 155; *Geol. U. S. Expl. Expd. p. 689, Atlas, t. 3, f. 5; Clarke, S. Goldfields, 1860, p. 287.	Wollongong Point, N. S. Wales.
A. polita, Dana.	U. Pal. (Carb.)	*American Jour. Sc. 1847, iv. p. 155; *Geol. U. S. Expl. Expd. p. 690, Atlas, t. 4, f. 2; Clarke, S. Goldfields, 1860,	Black Head; Illawara, N. S. Wales.

<sup>1</sup> Brown and Searles Wood give 1816 as the date of this genus; Morris, and Morris and Lycet, 1817; whilst Agassiz gives 1818.

<sup>2</sup> Non *Astartella*, J. Hall (*Iowa Geol. Survey Report*, 1858, I. pt. 2, p. 715)

(Pelecypoda.)

(Mid. and Up. Palæozoic.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
<i>A. transversa</i> , Dana.	U.Pal. (Carb.)	p. 287; <i>Pachydomus</i> , de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 277, t. 19, f. 4. *American Jour. Sc. 1847, iv. p. 154; *Geol. U. S. Explor. Exped. p. 690, Atlas, t. 4, f. 4; Clarke, S. Goldfields, 1860, p. 287.	Wollongong Point, N. S. Wales.
Genus <i>Avicula</i> , Klein, 1753 (Tent. Meth. Ostrac. pt. 2, p. 120; Lamarek, Prodrôme, 1799, p. 82; Histoire, 1819, vi. pt. 1, p. 146, Stoliezka, Pal. Indica, iii. p. 391) = <i>Pteria</i> , Scopoli, 1777, Meek, 1876.— <i>Mytilacea-Aviculidæ</i> .			
<i>A. decipiens</i> , de Kon.	U.Pal. (Carb.)	*Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 309, t. 22, f. 13.	Harper's Hill, N. S. Wales.
<i>A. Hardyi</i> , de Kon.	U.Pal. (Carb.)	*Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 308, t. 16, f. 10.	Burrageood, N. S. Wales.
<i>A. intumescens</i> , de Koninck.	U.Pal. (Carb.)	*Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 309, t. 22, f. 12.	Harper's Hill, N. S. Wales.
<i>A. sublunulata</i> , de Koninck.	U.Pal. (Carb.)	*Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 307, t. 16, f. 4.	Muree, N. S. Wales.
<i>A. tessellata</i> , Phillips.		Vide <i>Aviculopecten</i> .	
<i>A. Volgensis</i> , Dana.	U.Pal. (Carb.)	Geol. U. S. Explor. Exped. p. 704, Atlas, t. 9, f. 4; Clarke, S. Goldfields, 1860, p. 287.	Wollongong, N. S. Wales.
Genus <i>Aviculopecten</i> , M <sup>c</sup> Coy, 1851. (Annals Nat. Hist. vi. p. 171; Brit. Pal. Foss. 1852, p. 392; Meek and Hayden, Pal. Up. Missouri, 1865, p. 49.) <i>Ostracea-Aviculopectinidæ</i> .			
<i>A. eingendus</i> , M <sup>c</sup> Coy.	U.Pal. (Carb.)	<i>Pecten</i> , *Synopsis Carb. Foss. Ireland, 1844, p. 90, t. 17, f. 11; <i>Aviculopecten</i> , Morris, Cat. Brit. Foss. 2nd ed. 1854, p. 164; <i>id.</i> de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 296, t. 22, f. 8.	Near Dungog, N. S. Wales.
<i>A. Clarkei</i> , de Kon.	Mid. Pal. (L. Dev.)	*Foss. Pal. Nouv.-Galles du Sud, 1876, p. 114, t. 3, f. 10.	Kempsey, N. S. Wales.
<i>A. consimilis</i> , M <sup>c</sup> Coy.	U.Pal. (Carb.)	<i>Pecten</i> , *Synop. Carb. Foss. Ireland, 1844, p. 91, t. 15, f. 16; <i>Aviculopecten</i> , Morris, Cat. Brit. Foss. 2nd ed. 1854, p. 164; <i>id.</i> de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 292, t. 22, f. 6.	Burrageood, N. S. Wales.
<i>A. depilis</i> , M <sup>c</sup> Coy.	U.Pal. (Carb.)	<i>Pecten</i> , *Synop. Carb. Foss. Ireland, 1844, p. 91, t. 16, f. 11; <i>Aviculopecten</i> , Morris, Cat. Brit. Foss. 2nd ed. 1854, p. 164; <i>id.</i> de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 292, t. 22, f. 7.	Burrageood, N. S. Wales.



## (Pelecypoda.)

## (Mid. and Up. Palæozoic.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
<i>A. elongatus</i> , <i>M'Coy</i> .	U. Pal. (Carb.)	<i>Pecten</i> , *Synop. Carb. Foss. Ireland, 1844, p. 92, t. 16, f. 9; <i>Aviculopecten</i> , de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 293, t. 22, f. 5.	Wollongong, <i>N. S. Wales</i> .
<i>A. Etheridgei</i> , <i>de Koninck</i> .	Mid. Pal. (L. Dev.)	Foss. Pal. Nouv.-Galles du Sud, 1876, p. 112, t. 3, f. 9.	Yass, <i>N. S. Wales</i> .
<i>A. Fittoni</i> , <i>Morris</i> .	U. Pal. (Carb.)	<i>Pecten</i> , Strzelecki's *Phys. Descrip. N. S. Wales, 1845, p. 277, t. 14, f. 2; <i>id.</i> Clarke, S. Goldfields, 1860, p. 287; <i>Aviculopecten</i> , Grange, Dumont-d'Urville's Voyage au Pole Sud, Géol. 1854, II. p. 95; <i>id.</i> de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 300, t. 21, f. 4.	Mounts Wellington and Dromedary, <i>Tas.</i> Muswelbrook, <i>N. S. Wales</i> .
<i>A. Forbesii</i> , <i>M'Coy</i> .	U. Pal. (Carb.)	<i>Pecten</i> , *Synop. Carb. Foss. Ireland, 1844, p. 93, t. 15, f. 20; <i>Aviculopecten</i> , Morris, Cat. Brit. Foss. 2nd ed. 1854, p. 164; <i>id.</i> de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 298.	Burrageood, <i>N. S. Wales</i> .
<i>A. granosus</i> , <i>J. de C. Sowerby</i> .	U. Pal. (Carb.)	<i>Pecten</i> , *Min. Con. 1829, VI. p. 144, t. 574, f. 2; <i>id.</i> Phillips, *Geol. York. 1836, II. p. 213, t. 6, f. 7; <i>id.</i> M'Coy, *Synop. Carb. Foss. Ireland, 1844, p. 93; <i>id.</i> Brown, Foss. Conchology, 1849, p. 154, t. 65, f. 16; <i>Avicula granulosa</i> , d'Orb. Prodrome de Pal. 1849, I. p. 135; <i>Aviculopecten granosus</i> , M'Coy, *Brit. Pal. Foss. 1852, p. 392 and 486; <i>id.</i> Morris, Cat. Brit. Foss. 2nd ed. 1854, p. 164; <i>id.</i> de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 296, t. 22, f. 10.	Burrageood, <i>N. S. Wales</i> .
<i>A. Hardyi</i> , <i>de Kon.</i>	U. Pal. (Carb.)	*Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 295, t. 22, f. 9.	Burrageood, <i>N. S. Wales</i> .
<i>A. Illawarensis</i> , <i>Morris</i> .	U. Pal. (Carb.)	<i>Pecten</i> , Strzelecki's *Phys. Descrip. N. S. Wales, 1845, p. 277, t. 14, f. 3; <i>id.</i> Dana, *Geol. U. S. Explor. Exped. p. 705, Atlas, t. 9, f. 9; <i>id.</i> Clarke, S. Goldfields, 1860, p. 287; <i>id.</i> Grange, Dumont - d'Urville's Voyage au Pole Sud, Géol. 1854, II. p. 89; <i>Aviculopecten</i> , de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 301, t. 22, f. 1.	Illawara; Harper's Hill, <i>N. S. Wales</i> .
<i>A. ? imbricatus</i> , <i>Etheridge</i> .	M. Pal. (Dev.)	*Quart. Jour. Geol. Soc. 1872, XXVIII. p. 327, t. 14, f. 2.	Gympie, <i>Qu.</i>
<i>A. Knockonniensis</i> , <i>M'Coy</i> .	U. Pal. (Carb.)	<i>Pecten</i> , *Synop. Carb. Foss. Ireland, 1844, p. 95, t. 17, f. 4; <i>Aviculopecten</i> , Morris, Cat. Brit.	Karua, <i>N. S. Wales</i> .

## (Pelecypoda.)

## (Mid. and Up. Palæozoic.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
<i>A. leniusculus</i> , Dana.	U. Pal. (Carb.)	Foss. 2nd ed. 1854, p. 165; <i>id.</i> de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 294. <i>Pecten</i> , *Amer. Jour. Sc. 1847, iv. p. 160; <i>id.</i> *Geol. U. S. Explor. Exped. p. 704, Atlas, t. 9, f. 6; <i>Aviculopecten</i> , de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 289, t. 21, f. 3.	Illawara; Mount Gimbela, N. S. Wales.
<i>A. limæformis</i> , <i>Morris</i> <sup>1</sup> .	U. Pal. (Carb.) M. Pal. (Dev.)	<i>Pecten</i> , Strzelecki's *Phys. Descrip. N. S. Wales, 1845, p. 277, t. 13, f. 1; <i>id.</i> Grange, Dumont-d'Urville's Voyage au Pole Sud, Géol. 1854, II. pp. 93 and 95; <i>id.</i> Clarke, S. Goldfields, 1860, p. 287; <i>Aviculopecten</i> ? Etheridge, *Quart. Jour. Geol. Soc. 1872, xxviii. p. 326, t. 14, f. 1; <i>Aviculopecten</i> , de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 291, t. 22, f. 4.	Norfolk Plains; Eastern Marshes, Tas. Gympie, Qu. Wollongong and Muree, N. S. Wales.
<i>A. lineatus</i> , Plews.	U. Pal. (Carb.)	<i>Pecten</i> , Mining Inst. Jour. 1858, vi. pt. 3, t. 4.	N. S. Wales.
<i>A. M'Leayi</i> , de <i>Koninck</i> .	Mid. Pal. (L. Dev.)	*Foss. Pal. Nouv.-Galles du Sud, 1876, p. 114, t. 3, f. 11.	M'Leay R., N. S. Wales.
<i>A. mitis</i> , Dana.	U. Pal. (Carb.)	<i>Pecten</i> , *Geol. U. S. Explor. Exped. p. 705, Atlas, t. 9, f. 8.	Glendon, N. S. Wales.
<i>A. multiradiatus</i> , <i>Etheridge</i> .	M. Pal. (Dev.)	*Quart. Jour. Geol. Soc. 1872, xxviii. p. 327, t. 13, f. 1.	Gympie, Qu.
<i>A. profundus</i> , de <i>Koninck</i> .	U. Pal. (Carb.)	*Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 299, t. 22, f. 3.	Harper's Hill, N. S. Wales.
<i>A. ptychotis</i> , M'Coy.	U. Pal. (Carb.)	<i>Pecten</i> , *Annals Nat. Hist. 1847, xx. p. 298, t. 14, f. 2; <i>id.</i> *Proc. R. Soc. V. D. Land, 1851, I. p. 322, t. 14, f. 2; <i>Aviculopecten</i> , de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 294.	Dunvegan; Burragood; Wollongong, N. S. Wales.
<i>A. squamuliferus</i> , <i>Morris</i> .	U. Pal. (Carb.)	<i>Pecten</i> , Strzelecki's *Phys. Descrip. N. S. Wales, 1845, p. 278, t. 14, f. 1; Dana, *Geol. U. S. Explor. Exped. p. 705; <i>id.</i> M'Coy, Annals Nat. Hist. 1847, xx. p. 298; <i>id.</i> Grange, Dumont-d'Urville's Voyage au Pole Sud, Géol. 1854, II. p. 95; <i>id.</i> Clarke, S. Goldfields, 1860, p. 287.	Mounts Dromedary and Wellington, Tas. Harper's Hill, N. S. Wales.
<i>A. subquinque lineatus</i> , M'Coy.	U. Pal. (Carb.)	<i>Pecten</i> , *Annals Nat. Hist. 1847, xx. p. 298, t. 17, f. 1; <i>P. cemptus</i> , Dana, *Amer. Jour. Sc. 1847, iv. p. 160 (non M'Coy); <i>id.</i> *Geol. U. S. Explor. Exped. p. 704, Atlas, t. 9, f. 5; <i>P. subquinque lineatus</i> , M'Coy, *Proc.	Harper's Hill; Muree, N. S. Wales.

<sup>1</sup> Non *A. limæformis*, Winchell.

## (Pelecypoda.)

## (Mid. and Up. Palæozoic.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
A. Tasmaniensis, M'Coy (ms.).	U.Pal.(Carb.)	R. Soc. V. D. Land, 1851, i. p. 322, t. 17, f. 1; <i>Aviculopecten</i> , <i>id.</i> de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 295, t. 22, f. 2.	New Norfolk, <i>Tas.</i>
A. tenuicollis, Dana.	U.Pal.(Carb.)	Selwyn, Proc. R. Soc. Tas. 1855, iii. pt. 1, p. 120.	Harper's Hill, <i>N. S. Wales.</i>
A. tessellatus, Phill.	U.Pal.(Carb.)	<i>Pecten</i> , *Amer. Jour. Sc. 1847, iv. p. 160; <i>id.</i> *Geol. U. S. Explor. Exped. p. 705, Atlas, t. 9, f. 7. <i>Avicula</i> , *Geol. York. ii. p. 211, t. 6, f. 6; ? <i>id.</i> de Koninck, *Descrip. Anim. Foss. Terr. Carb. Belgique, p. 134, t. 6, f. 2, 4, and 11; <i>Meleagrina</i> , M'Coy, *Synop. Carb. Foss. Ireland, 1844, p. 81; <i>Avicula</i> , <i>id.</i> Annals Nat. Hist. 1847, xx. p. 299; <i>Avicula</i> , Brown, *Foss. Conchology, 1849, p. 162, t. 66**, f. 31; <i>Aviculopecten</i> , Morris, Cat. Brit. Foss. 2nd ed. 1854, p. 166; <i>id.</i> de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 298, t. 22, f. 11.	Dunvegan; Burragood, <i>N. S. Wales.</i>

Genus *Cardinia*, L. Agassiz, 1841<sup>1</sup> (Traduct. de la Conch. Mineral. de Sowerby, p. 207 !; Etudes Crit., Mon. Myes, p. 220) = *Pachyodon*, Stutchbury.  
*Lucinacea-Astartida* ?

C.? costata, Dana.		Vide <i>Pleurophorus Morrisii</i> , de Koninck.	
C.? cuneata, Dana.	U.Pal.(Carb.)	*Amer. Jour. Sc. 1847, iv. p. 156; *Geol. U. S. Explor. Exped. p. 692, Atlas, t. 4, f. 6; Clarke, S. Goldfields, 1860, p. 287.	Wollongong Point, <i>N. S. Wales.</i>
C.? exilis, M'Coy.		Vide <i>C.? recta</i> , Dana.	
C.? recta, Dana.	U.Pal.(Carb.)	<i>Cardinia</i> , *Amer. Jour. Sc. 1847, iv. p. 156; <i>C.? exilis</i> , M'Coy, *Annals Nat. Hist. 1847, xx. p. 502, t. 15, f. 1; <i>C.? recta</i> , Dana, *Am. Jour. Sc. 1848, v. p. 434; <i>id.</i> *Geol. U. S. Expl. Exped. p. 691, Atlas, t. 4, f. 5; <i>C.? exilis</i> , M'Coy, *Proc. R. Soc. V. D. Land, 1851, i. p. 326, t. 15, f. 1; <i>C. exilis</i> , Clarke, S. Goldfields, 1860, p. 287; <i>C. recta</i> , Stutchbury, 15th Report, Parl. Blue Book, 25th July, 1856, p. 8; <i>C. exilis</i> , de Kon. Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 271, t. 18, f. 2.	Illawara; Wollongong, <i>N. S. Wales.</i>

<sup>1</sup> Agassiz states that he first indicated this genus in a communication made to the *Société helvétique des Sciences Naturelles* at Bâle in 1833, and described it in the German and French translation of Sowerby's *Mineral Conchology* in 1841.

## (Pelecypoda.)

(Mid. and Up. Palæozoic.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
Genus <i>Cardiomorpha</i> , <i>L. G. de Koninck</i> , 1842. (Descrip. Anim. Foss. Terr. Carb. Belgique, p. 101; Stoliczka, Pal. Indica, iii. p. 66.)— <i>Myacea-Anatinidæ</i> ?			
<i>C. gryphoides</i> , <i>de Koninck</i> .	U. Pal. (Carb.)	*Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 268, t. 18, f. 4.	Stony Creek, W. Maitland, N. S. Wales.
<i>C. ?striatella</i> , <i>de Kon.</i>	U. Pal. (Carb.)	*Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 268, t. 20, f. 3.	Karua, N. S. Wales.
Genus <i>Cardium</i> , <i>Linnaeus</i> , 1758. (Systema, ed. 10, p. 678; Lamarck, 1799, Prodrome, p. 86.)— <i>Veneracea-Cardiidæ</i> .			
<i>C. Australis</i> , <i>Dana</i> .		Vide <i>Conocardium Australe</i> , M'Coy.	
<i>C. ferox</i> , <i>Dana</i> .		Vide <i>Conocardium ferox</i> , <i>Dana</i> .	
Genus <i>Clarkia</i> , <i>L. G. de Koninck</i> , 1877. (Foss. Pal. Nouv.-Galles du Sud, pt. 3, p. 266.) <i>Myacea-Saxicavidæ</i> ?			
<i>C. myiformis</i> , <i>Dana</i> .	U. Pal. (Carb.)	<i>Pyramus</i> , *Am. Jour. Science, 1847, iv. p. 157; <i>Mænia</i> , *Geol. U. S. Explor. Exped. p. 697, Atlas, t. 6, f. 4; <i>id.</i> Clarke, S. Goldfields, 1860, p. 257; <i>Clarkia</i> , <i>de Koninck</i> , *loc. cit. p. 267, t. 18, f. 1.	Wollongong, N. S. Wales.
Genus <i>Cleobis</i> , <i>Dana</i> , 1847. (American Jour. Sc. iv. p. 154.) Vide <i>Notomya</i> , M'Coy.			
<i>C. gracilis</i> , <i>Dana</i> .		Vide <i>Mæonia gracilis</i> , <i>Dana</i> .	
<i>C. grandis</i> , <i>Dana</i> .		Vide <i>Mæonia grandis</i> , <i>Dana</i> .	
<i>C. recta</i> , <i>Dana</i> .		Vide <i>Mæonia recta</i> , <i>Dana</i> .	
Genus <i>Conocardium</i> , <i>Bronn</i> , 1835 (Lethæa Geog. i. pt. 1, p. 91)= <i>Pleurorhynchus</i> , <i>Phillips</i> .— <i>Veneracea-Cardiidæ</i> .			
<i>C. Australe</i> , <i>M'Coy</i> .	U. Pal. (Carb.)	<i>Pleurorhynchus</i> , *Annals Nat. Hist. 1847, xx. p. 300, t. 16, f. 4; <i>Cardium</i> , <i>Dana</i> , *Geol. U. S. Expl. Expd. p. 701, Atlas, t. 18, f. 2; <i>Pleurorhynchus</i> , M'Coy, *Proc. R. Soc. V. D. Land, 1851, i. p. 324, t. 16, f. 4; <i>id.</i> Clarke, S. Goldfields, 1860, p. 287; <i>C. Australe</i> ? <i>de Koninck</i> , *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 284.	Wollongong; Glendon, N. S. Wales.
<i>C. ferox</i> , <i>Dana</i> .	U. Pal. (Carb.)	<i>Cardium</i> , *Geol. U. S. Expl. Expd. p. 701, Atlas, t. 18, f. 3; <i>id.</i> Clarke, S. Goldfields, 1860, p. 287.	Wollongong Point, N. S. Wales.

## (Pelecypoda.)

## (Mid. and Up. Palæozoic.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
<i>C. Sowerbyi</i> , de Koninck.	Mid. Pal. (L. Dev.).	<i>Cardium aliforme</i> , Sow. Trans. Geol. Soc. 1840, v. t. 56, f. 2; <i>Pleurorhynchus aliformis</i> , Phillips, *Pal. Foss. Devon. 1840, p. 34, t. 17, f. 51; <i>C. Sowerbyi</i> , de Kon.*Foss. Pal. Nouv.-Galles du Sud, 1876, p. 109.	Yass, N. S. Wales.

Genus *Cypricardia*, Lamarck, 1819. (Histoire d. Anim. s. Verteb. vi. pt. 1, p. 27.)  
*Veneracea-Cyprinidæ*.

<i>C. acutifrons</i> , Dana.	Vide <i>Modiolopsis acutifrons</i> , Dana.
<i>C. arcodes</i> , Dana.	Vide <i>Modiolopsis arcodes</i> , Dana.
<i>C. imbricata</i> , Dana.	Vide <i>Modiolopsis imbricata</i> , Dana.
<i>C. prærupta</i> , Dana.	Vide <i>Modiolopsis prærupta</i> , Dana.
<i>C. rugulosa</i> , Dana.	Vide <i>Pachydomus carinatus</i> , Morris.
<i>C. siliqua</i> , Dana.	Vide <i>Modiolopsis siliqua</i> , Dana.
<i>C. simplex</i> , Dana.	Vide <i>Modiolopsis simplex</i> , Dana.
<i>C. sinuosa</i> , Dana.	Vide <i>Mæonia axinia</i> , Dana.

Genus *Edmondia*, de Koninck, 1842. (Descr. Anim. Foss. Ter. Carb. Belgique, p. 66.)  
*Myacea-Anatinidæ*.

<i>E. ? audax</i> <sup>1</sup> , Dana.	U. Pal. (Carb.)	<i>Allorisma</i> , *American Jour. Sc. 1847, iv. p. 153; <i>Pholadomya</i> , *Geol. U. S. Expl. Expt. p. 687, Atlas, t. 3, f. 1; <i>id. et Allorisma</i> , Clarke, S. Goldfields, 1860, p. 287.	Wollongong Point, N. S. Wales.
<i>E. concentrica</i> , Etheridge.	M. Pal. (Dev.)	*Quart. Jour. Geol. Soc. 1872, xxviii. p. 328, t. 13, f. 2.	Gympie, Qu.
<i>E. ? Glendonensis</i> , Dana.	U. Pal. (Carb.)	<i>Pholadomya (Homomya)</i> , *Geol. U. S. Expl. Expt. p. 687, Atlas, t. 2, f. 12; <i>Homomya</i> , Stutchbury, 15th Report, Parl. Blue Book, 25th July, 1856, p. 8.	Glendon, N. S. Wales.
<i>E. intermedia</i> , de Koninck.	U. Pal. (Carb.)	*Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 270, t. 20, f. 4.	Near Morpeth, N. S. Wales.
<i>E. nobilissima</i> , de Koninck.	U. Pal. (Carb.)	*Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 269, t. 20, f. 2.	Near Morpeth, N. S. Wales.
<i>E. obovata</i> , Etheridge.	M. Pal. (Dev.)	*Quart. Jour. Geol. Soc. 1872, xxviii. p. 328, t. 13, f. 3.	Gympie, Qu.
<i>E. ? striatocostata</i> , McCoy.	U. Pal. (Carb.)	<i>Pullastra ?</i> *Annals Nat. Hist. 1847, xx. p. 305, t. 14, f. 3; <i>id. Proc. R. Soc. V. D. Land</i> , 1851, i. p. 328, t. 14, f. 3; <i>Edmondia ?</i> de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 269, t. 18, f. 3.	Dunvegan and Burragood, N. S. Wales.

<sup>1</sup> The generic position of *Edmondia ? audax* and *E. ? Glendonensis*, is uncertain, as the internal characters have not been described; Dana concludes that the pallial line is entire. It is very hazardous to venture an opinion on a large number of these Australian fossils, without a direct examination of specimens.

(Pelecypoda.)

(Mid. and Up. Palæozoic.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
Genus <i>Eurydesma</i> , <i>Morris</i> and <i>G. B. Sowerby</i> , 1845. (Strzelecki's Phys. Descr. N. S. Wales, p. 275.)— <i>Chamaacea</i> ?- <i>Tridacnidae</i> ?			
<i>E. cordata</i> , <i>Morris</i> .	U. Pal. (Carb.)	<i>Isecardia</i> ? sp. <i>J. de C. Sowerby</i> , Mitchell's Three Expds. Int. E. Austr. 1838, i. p. 15, t. 2, figs. 1 and 2; <i>Eurydesma</i> , <i>Morris</i> , Strzelecki's *Phys. Descr. N.S. Wales, 1845, p. 276, t. 12; <i>id.</i> <i>M'Coy</i> , Annals Nat. Hist. 1847, xx. p. 299; <i>id.</i> <i>Dana</i> , *Geol. U. S. Expl. Expd. p. 700; <i>id.</i> <i>Grange</i> , Dumont-d'Urville's Voyage au Pole Sud, Géologie, 1854, ii. p. 89; <i>id.</i> <i>Clarke</i> , S. Goldfields, 1860, p. 287.	Illawara; Arthur's Hill, N. S. Wales.
<i>E. elliptica</i> , <i>Dana</i> .	U. Pal. (Carb.)	*American Jour. Sc. 1847, iv. p. 158; *Geol. U.S. Expl. Expd. p. 700, Atlas, t. 7, f. 6.	Harper's Hill, N. S. Wales.
<i>E. globosa</i> , <i>Dana</i> .	U. Pal. (Carb.)	*American Jour. Sc. 1847, iv. p. 158; *Geol. U.S. Expl. Expd. p. 700, Atlas, t. 7, f. 7; <i>Clarke</i> , S. Goldfields, 1860, p. 287.	Harper's Hill, N. S. Wales.
<i>E. sacculus</i> , <i>M'Coy</i> <sup>1</sup> .	U. Pal. (Carb.)	<i>Pachydomus</i> , *Annals Nat. Hist. 1847, xx. p. 301, t. 14, f. 5; <i>Eurydesma</i> , <i>Dana</i> , *Geol. U. S. Expl. Expd. p. 700, Atlas, t. 7, f. 8; <i>id.</i> American Jour. 1848, v. p. 434; <i>Pachydomus</i> , <i>M'Coy</i> , *Proc. R. Soc. V. D. Land, 1851, i. p. 325, t. 14, f. 5.	Harper's Hill; Wellongong, N. S. Wales.

Genus *Inoceramus* (*J. Sowerby*, 1814 ms.), *Parkinson*, 1819. (Trans. Geol. Soc. v. p. 55<sup>2</sup>.)  
*Mytilacea-Aviculidæ*.

*I.*?*Mitchellii*, *M'Coy*. | Vide *Aphanaia*. |

Genus *Megadesmus*, *J. de C. Sowerby*, 1838 (non *Bowdich*). Vide *Pachydomus*.

<i>M. antiquatus</i> , <i>J. de C. Sowerby</i> .	Vide <i>Pachydomus antiquatus</i> .
<i>M. cuneatus</i> , <i>J. de C. Sowerby</i> .	Vide <i>Pachydomus cuneatus</i> .
<i>M. globosus</i> , <i>J. de C. Sowerby</i> .	Vide <i>Pachydomus globosus</i> .
<i>M. lævis</i> , <i>J. de C. Sowerby</i> .	Vide <i>Pachydomus lævis</i> .

<sup>1</sup> *Dana* remarks that perhaps this is only the *E. cordata*, *Morris* (*Am. Jour. Sc.* 1848, v. p. 434).

<sup>2</sup> The genus *Inoceramus* was proposed and described in a paper read before the Linnean Society on Nov. 1st, 1814, by Mr *J. Sowerby*, "On a fossil shell of a fibrous structure, &c." The description appeared in pt. 2, vol. XIII. *Linn. Trans.*, which Mr *R. Kippist*, Librarian to the Society, informs me was published in Dec. 1822. In the mean time *Parkinson* published a description of the genus (*Trans. Geol. Soc.* v. p. 55), the latter work bearing date 1819. This must therefore be accepted as the real date of the publication of *Inoceramus*, and not 1814, as is usually given in catalogues and works.

## (Pelecypoda.)

(Mid. and Up. Palæozoic.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
Genus <i>Modiola</i> <sup>1</sup> , Lamarck, 1799. (Prodrome, p. 87; Système, 1801, p. 113.) <i>Mytilacea-Mytilidæ.</i>			
<i>M. crassissima</i> , <i>M' Coy.</i>	U. Pal. (Carb.)	*Annals Nat. Hist. 1847, xx, p. 300, t. 15, figs. 2 and 3; *Proc. R. Soc. V. D. Land, 1851, i. p. 324, t. 15, figs. 2 and 3; Plews, Mining Inst. Jour. 1858, vi. pt. 3, t. 4.	Harper's Hill, N. S. Wales.
Genus <i>Modiolopsis</i> , Hall, 1847. (Pal. New York, i. p. 157.)— <i>Mytilacea-Prasinidæ.</i>			
<i>M. acutifrons</i> , Dana.	U. Pal. (Carb.)	*American Jour. Sc. 1847, iv. p. 159; <i>Cypricardia</i> , *Geol. U. S.—Expl. Expd. p. 702, Atlas, t. 8, f. 4; <i>id.</i> Clarke, S. Goldfields, 1860, p. 288.	District of Illawara, N. S. Wales.
<i>M. arcodes</i> , Dana.	U. Pal. (Carb.)	*American Jour. Sc. 1847, iv. p. 159; <i>Cypricardia</i> , *Geol. U. S. Expl. Expd. p. 702, Atlas, t. 8, figs. 5—7.	Harper's Hill, N. S. Wales.
<i>M. imbricata</i> , Dana.	U. Pal. (Carb.)	*American Jour. Sc. 1847, iv. p. 159; <i>Cypricardia</i> , *Geol. U. S. Expl. Expd. p. 703, Atlas, t. 8, f. 8.	Harper's Hill, N. S. Wales.
<i>M. prærupta</i> , Dana.	U. Pal. (Carb.)	*American Jour. Sc. 1847, iv. p. 159; <i>Cypricardia</i> , *Geol. U. S. Expl. Expd. p. 703, t. 8, f. 10; <i>id.</i> Clarke, S. Goldfields, 1860, p. 288.	District of Illawara, N. S. Wales.
<i>M.?</i> <i>siliqua</i> , Dana.	U. Pal. (Carb.)	*American Jour. Sc. 1847, iv. p. 159; <i>Cypricardia</i> , *Geol. U. S. Expl. Expd. p. 703, Atlas, t. 9, f. 1; <i>id.</i> Clarke, S. Goldfields, 1860, p. 288.	District of Illawara, N. S. Wales.
<i>M.?</i> <i>simplex</i> , Dana.	U. Pal. (Carb.)	*American Jour. Sc. 1847, iv. p. 159; <i>Cypricardia</i> , *Geol. U. S. Expl. Expd. p. 703, Atlas, t. 9, f. 2; <i>id.</i> Clarke, S. Goldfields, 1860, p. 288.	
<i>M.?</i> <i>veneris</i> , Dana.	U. Pal. (Carb.)	*Geol. U. S. Expl. Expd. p. 704, t. 9, f. 3.	Glendon, N. S. Wales.
Genus <i>Mæonia</i> , Dana, 1847. (Amer. Jour. Science, iv. p. 158.) Vide <i>Notomya</i> , M' Coy <sup>2</sup> .			
<i>M. axinia</i> , Dana.		Vide <i>Notomya axinia</i> .	
<i>M. elliptica</i> , Dana.		Vide <i>Notomya elliptica</i> .	
<i>M. elongata</i> , Dana.		Vide <i>Notomya elongata</i> .	

<sup>1</sup> *Volsella*, Scopoli, 1777, has precedence of *Modiola*, Lamk. 1799; written *Modiolus* by Lamarck in 1799, and changed to *Modiola* in 1801.

<sup>2</sup> The late Dr Stoliczka has remarked that "great confusion exists amongst the fossils which have been described from the N. S. Wales Palæozoic rocks, and some of the species described as

## (Pelecypoda.)

## (Mid. and Up. Palæozoic.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
<i>M. fragilis</i> , Dana.		Vide <i>Notomya fragilis</i> .	
<i>M. gigas</i> , Dana.		Vide <i>Pachydomus gigas</i> , M'Coy.	
<i>M. gracilis</i> , Dana.		Vide <i>Notomya gracilis</i> , Dana.	
<i>M. grandis</i> , Dana.		Vide <i>Notomya grandis</i> , Dana.	
<i>M. Koninckii</i> , W. B. Clarke.		Vide <i>Notomya Koninckii</i> , W. B. Clarke.	
<i>M. myiformis</i> , Dana.		Vide <i>Clarkia myiformis</i> .	
<i>M. recta</i> , Dana.		Vide <i>Notomya recta</i> .	
<i>M. valida</i> , Dana.		Vide <i>Notomya valida</i> .	
Genus <i>Mytilus</i> <sup>1</sup> , <i>Linnaeus</i> , 1758 ( <i>Systema</i> , ed. 10, i. p. 704; <i>Lamarek</i> , <i>Prodrome</i> , 1799, p. 83; &c.) = <i>Perna</i> , <i>Adanson</i> , 1757.— <i>Mytilacca-Mytilidae</i> .			
<i>M. Bigsbyi</i> , <i>de Kon.</i>	U. Pal.(Carb.)	*Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 288, t. 21, f. 1.	Branxton, N. S. Wales.
<i>M. crassiventer</i> , <i>de Kon.</i>	U. Pal.(Carb.)	*Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 288, t. 21, f. 2.	Branxton, N. S. Wales.
Genus <i>Notomya</i> , M'Coy, 1847 ( <i>Annals Nat. Hist.</i> xx. p. 303; <i>Stoliczka</i> , <i>Pal. Indica</i> , III. p. 83) = <i>Myonia</i> et <i>Mæonia</i> , Dana, 1847 (non <i>Myonia</i> , <i>Adams</i> , 1860); <i>Cleobis</i> , Dana, 1847; <i>Pyramus</i> , Dana, 1847.— <i>Myacea-Saxicavidae</i> ?			
<i>N. axinia</i> , Dana.	U. Pal.(Carb.)	<i>Cypricardia? sinuosa</i> , Dana, * <i>Am. Jour. Science</i> , 1847, iv. p. 157; <i>M. axinea</i> , * <i>Geol. U. S. Explor. Exped.</i> p. 696, Atlas, t. 5, f. 5; <i>C. sinuosa</i> et <i>M. axinia</i> , <i>Clarke</i> , <i>S. Goldfields</i> , 1860, pp. 287, 288.	Hllawara, N. S. Wales.
<i>N. clavata</i> , M'Coy.	U. Pal.(Carb.)	* <i>Annals Nat. Hist.</i> 1847, xx. p. 304, t. 15, f. 4; * <i>Proc. R. Soc. V. D. Land</i> , 1851, i. p. 327, t. 15, f. 4; <i>Plews</i> , <i>Mining Inst. Jour.</i> 1858, vi. pt. 3, t. 4; <i>Clarke</i> , <i>S. Goldfields</i> , 1860, p. 287.	Wollongong, N. S. Wales.

*Notomya* or *Mæonia* may just as well belong to *Pachydomus*, and vice versa" (*Pal. Indica*, III. p. 83). *Mæonia* (*Myonia*), *Cleobis*, and *Pyramus* were proposed as new genera by Prof. Dana in 1847, but in the next year he suggested that the various species contained in the three so-called genera should be brought together under the one name *Mæonia*, "as the gradations are such that it is difficult to draw lines of distinction" (*Amer. Jour. Sc.* 1848, v. p. 434). Again he says, "the divisions may, perhaps, form sub-genera" (*Geol. U. S. Explor. Exped.* p. 694). The section *Pyramus* or *Pyramia* is stated to correspond with *Notomya*, M'Coy, and is slightly antecedent to it in date. As, however, I agree with Dr *Stoliczka* in considering M'Coy's description "far more intelligible than that given by Dana of his genus," and as in addition M'Coy no doubt correctly indicated the affinities of his genus, I prefer to adopt the latter for the whole of the species which have been referred to these genera. In dealing with this portion of my subject I have experienced the utmost difficulty, and can only offer the present synonymy as a temporary solution, until some palæontologist is afforded an opportunity of working the subject out in detail. To his previous remarks on this subject Dr *Stoliczka* adds, "neither in the text nor Atlas of his later work does Dana mention which of the species belong to each of the three sub-genera: and from the descriptions and figures the reader will find it very difficult to arrive at anything like accuracy of determination."

<sup>1</sup> The name *Mytilus* should give place to that of *Perna*, *Adanson*, proposed in the *Voy. au Sénégal* (p. 217). Although *Adanson* was not a binomial writer, *Perna*, like many other of his genera, was perfectly well characterised, and ought to be adopted.



## (Pelecypoda.)

## (Mid. and Up. Palæozoic.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
<i>N. elliptica</i> , Dana.	U.Pal.(Carb.)	<i>Pyramus</i> , *Amer. Jour. Sc. 1847, iv. p. 158; <i>Mæonia</i> , *Geol. U. S. Explor. Exped. p. 697, Atlas, t. 6, f. 5; <i>id.</i> Clarke, S. Goldfields, 1860, p. 287.	Wollongong Point, N. S. Wales.
<i>N. elongata</i> , Dana.	U.Pal.(Carb.)	<i>Myonia</i> , *Amer. Jour. Sc. 1847, iv. p. 158; <i>Mæonia</i> , *Geol. U. S. Explor. Exped. p. 695, Atlas, t. 5, f. 3; <i>id.</i> Clarke, S. Goldfields, 1860, p. 287; <i>id.</i> de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 280, t. 20, f. 6.	Black Head, Illawara; Wollongong, N. S. Wales.
<i>N. fragilis</i> , Dana.	U.Pal.(Carb.)	*Geol. U. S. Expl. Exped. p. 696, Atlas, t. 6, f. 2 and 3.	Glendon, N. S. Wales.
<i>N. gracilis</i> , Dana.	U.Pal.(Carb.)	<i>Cleobis</i> , *Amer. Jour. Sc. 1847, iv. p. 154; <i>Mæonia</i> , *Geol. U. S. Explor. Exped. p. 698, Atlas, t. 7, f. 1; <i>id.</i> Clarke, S. Goldfields, 1860, p. 287; <i>id.</i> de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 281, t. 19, f. 1.	Wollongong; Murree, N. S. Wales.
<i>N. grandis</i> , Dana.	U.Pal.(Carb.)	<i>Cleobis</i> , *American Jour. Sc. 1847, iv. p. 154; <i>Mæonia</i> , *Geol. U. S. Expl. Exped. p. 697, Atlas, t. 6, f. 8; <i>id.</i> Clarke, S. Goldfields, p. 287.	Wollongong Point, N. S. Wales.
<i>N. Koninckii</i> , W. B. Clarke.	U.Pal.(Carb.)	<i>Mæonia</i> , de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 279, t. 19, f. 6.	Cololamine, N. S. Wales.
<i>N. recta</i> , Dana.	U.Pal.(Carb.)	<i>Cleobis</i> , *American Jour. Sc. 1847, iv. p. 154; <i>Mæonia</i> ? *Geol. U. S. Expl. Exped. p. 698, Atlas, t. 7, f. 2; <i>Mæonia</i> , Clarke, S. Goldfields, 1860, p. 287.	Wollongong Point, N. S. Wales.
<i>N. securiformis</i> , M <sup>c</sup> Coy.	U.Pal.(Carb.)	*Annals Nat. Hist. 1847, xx. p. 304, t. 15, fig. 5; *Proc. R. Soc. V. D. Land, 1851, i. p. 327, t. 15, f. 5.	Wollongong, N. S. Wales.
<i>N. valida</i> , Dana.	U.Pal.(Carb.)	<i>Myonia</i> , *American Jour. Sc. 1847, iv. p. 158; <i>Mæonia</i> , *Geol. U. S. Expl. Exped. p. 695, t. 5, f. 4.	Black Head, Illawara, N. S. Wales.

Genus *Nucula*, Lamarck, 1799. (Prodrome, p. 87; Système, 1801, p. 115.)  
*Arcæa-Nuculidæ.*

<i>N. abrupta</i> , Dana.	U.Pal.(Carb.)	*American Jour. Sc. 1847, iv. p. 157; *Geol. U. S. Expl. Exped. p. 698, Atlas, t. 7, f. 3; Clarke, S. Goldfields, 1860, p. 287.	Wollongong Point, N. S. Wales.
<i>N. concinna</i> , Dana.	U.Pal.(Carb.)	*Geol. U. S. Expl. Exped. p. 699, Atlas, t. 7, f. 4.	Harper's Hill, N. S. Wales.
<i>N. Glendonensis</i> , Dana.	U.Pal.(Carb.)	*Geol. U. S. Expl. Exped. p. 699, Atlas, t. 7, f. 5.	Glendon, N. S. Wales.

## (Pelecypoda.)

(Mid. and Up. Palæozoic.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
Genus <i>Nuculana</i> , <i>Link.</i> 1807 (Beischreibung Natur. Sammlung Rostok, III. p. 155 !; Meek, Report Invert. Cret. Foss. Up. Missouri, 1876, p. 103) = <i>Leda</i> , Schumacher, 1817.— <i>Arcacea-Nuculanidæ</i> .			
<i>N. Darwinii</i> , <i>de Kon.</i>	U. Pal. (Carb.)	<i>Tellinomya</i> , *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 285, t. 16, f. 9.	Stony Creek, <i>N. S. Wales</i> .

Genus *Orthonota*, *Conrad*, 1841 (see p. 23).—*Lucinacea-Solemyidæ*.

<i>O.?</i> <i>compressa</i> , <i>Morris</i> .	U. Pal. (Carb.)	<i>Orthonota?</i> Strzelecki's *Phys. Descr. N. S. Wales, p. 274, t. 13, f. 4; <i>Orthonota</i> , M'Coy, Annals Nat. Hist. 1847, xx. p. 300; <i>id.</i> Grange, Dumont-d'Urville's Voyage au Pole Sud, Géologie, 1854, II. p. 96.	Harper's Hill, <i>N. S. Wales</i> . Spring Hill, <i>Tas.</i>
<i>O.?</i> <i>costata</i> , <i>Morris</i> .		Vide <i>Pleurophorus Morrisii</i> , de Koninck.	

Genus *Pachydomus*, *Morris*, 1845 (Strzelecki's Phys. Descr. N. S. Wales, p. 271) = *Megadesmus*, *J. de C. Sowerby* (non Bowdich).—*Lucinacea-Astartidæ*.

<i>P. antiquatus</i> , <i>J. de C. Sowerby</i> .	U. Pal. (Carb.)	<i>Megadesmus</i> , Mitchell's Three Expds. Int. E. Austr. 1838, I. p. 15, t. 1, f. 2; <i>Pachydomus</i> , <i>Morris</i> , *Strzelecki's Phys. Des. N. S. Wales, p. 272; <i>id.</i> Dana, *Geol. U. S. Expl. Expd. p. 693, Atlas, t. 5, f. 2; <i>id.</i> Grange, Dumont-d'Urville's Voyage au Pole Sud, Géologie, 1854, II. p. 89.	Wollongong; Harper's Hill, <i>N. S. Wales</i> .
<i>P. carinatus</i> , <i>Morris</i> .	U. Pal. (Carb.)	Strzelecki's *Phys. Descr. N. S. Wales, 1845, p. 273, t. 11, figs. 3 and 4; <i>Cypricardia rugulosa</i> , Dana, *American Jour. Sc. 1847, IV. p. 157; <i>P. carinatus</i> , M'Coy, Annals Nat. Hist. 1847, xx. p. 301; <i>Maonia?</i> <i>carinata</i> , Dana, *Geol. U. S. Expl. Expd. p. 696; <i>Pachydomus</i> , Grange, Dumont-d'Urville's Voyage au Pole Sud, Géol. 1854, II. p. 89; <i>Cyp. rugulosa</i> , <i>Pachy. carinatus</i> , et <i>M. carinata</i> , Clarke, S. Goldfields, 1860, pp. 287, 288; <i>Pleurophorus?</i> , de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 283, t. 19, f. 8.	Illawara; Wollongong, <i>N. S. Wales</i> . Port Arthur, <i>Tas.</i>
<i>P. cuneatus</i> , <i>J. de C. Sowerby</i> .	U. Pal. (Carb.)	<i>Megadesmus</i> , Mitchell's Three Expds. Int. E. Austr. 1838, I. p. 15, t. 1, f. 3; <i>Pachydomus</i> , <i>Morris</i> , *Strzelecki's Phys. Des. N. S. Wales, 1845, p. 272; <i>id.</i>	Illawara; Wollongong; Harper's Hill, <i>N. S. Wales</i> .

(Pelecypoda.)

(Mid. and Up. Palæozoic.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
<i>P. Danai, de Kon.</i>	U.Pal.(Carb.)	Dana, *Geol. U. S. Expl. Expd. p. 693, Atlas, t. 5, f. 1; <i>id.</i> Grange, Dumont-d'Urville's Voyage au Pole Sud, Géologie, 1854, II. p. 89.	Wollongong, N. S. Wales.
<i>P. gigas, M'Coy.</i>	U.Pal.(Carb.)	*Annals Nat. Hist. 1847, xx. p.301, t.16, f. 3; <i>Mæonia</i> , Dana, *Geol. U. S. Explor. Expd. p. 697; <i>Pachydomus</i> , M'Coy, *Proc. R. Soc. V.D. Land, 1851, I. p. 325, t. 16, f. 3; <i>id.</i> Plews, Mining Inst. Jour. 1858, VI. pt. 3, t. 4; <i>id.</i> Clarke, S. Goldfields, 1860, p. 287; <i>id.</i> de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 274.	Wollongong; Mt Vincent, N. S. Wales.
<i>P. globosus, J. de C. Sowerby.</i>	U.Pal.(Carb.)	Mitchell's *Three Expeds. Int. E. Austr. 1838, p. 15, t. 3, f. 1 and 2; <i>Pachydomus</i> , Morris, in *Strzelecki's Phys. Descr. N. S. Wales, 1845, p. 272, t. 10, f. 2 and 3; <i>id.</i> M'Coy, Annals Nat. Hist. 1847, xx. p.301; <i>id.</i> Grange, Dumont-d'Urville's Voyage au Pole Sud, Géol. 1854, II. pp. 89 and 96; <i>id.</i> Clarke, S. Goldfields, 1860, p. 287; <i>id.</i> de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 272, t. 18, f. 5.	Illawara; Harper's Hill; Lochinoar, N. S. Wales. Mounts Dromedary and Wellington, Tas.
<i>P. lævis, J. de C. Sowerby.</i>	U.Pal.(Carb.)	<i>Megadesmus</i> , Mitchell's Three Expeds. Int. E. Austr. 1838, I. p. 15, t. 1, f. 1; <i>Pachydomus</i> , Morris, *Strzelecki's Phys. Des. N. S. Wales, 1845, p. 272; <i>id.</i> Grange, Dumont-d'Urville's Voyage au Pole Sud, Géologie, 1854, II. p. 89; <i>id.</i> Clarke, S. Goldfields, 1860, p. 287; <i>id.</i> de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 273, t. 20, f. 1.	Illawara, N. S. Wales.
<i>P. ovalis, M'Coy.</i>	U. Pal.(Carb.)	*Annals Nat. Hist. 1847, xx. p. 302, t. 14, f. 4; <i>Astartila</i> , Dana, *American Jour. Sc. 1848, v. p. 434; *Proc. R. Soc. V.D. Land, 1851, I. p. 325, t. 14, f. 4; <i>id.</i> Plews, Mining Inst. Jour. 1858, VI. pt. 3, t. 4; Clarke, S. Goldfields, 1860, p. 287; de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 275, t. 19, f. 3 (?= <i>Astartila intrepida</i> , Dana).	Wollongong, N. S. Wales.

## (Pelecypoda.)

## (Mid. and Up. Palæozoic.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
<i>P. pusillus</i> , <i>M'Coy</i> .	U. Pal. (Carb.)	*Annals Nat. Hist. 1847, xx. p. 302, t. 16, f. 1 and 2; *Proc. R. Soc. V. D. Land, 1851, i. p. 325, t. 16, f. 1 and 2; Clarke, S. Goldfields, 1860, p. 287; de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 276, t. 19, f. 2; ? = <i>Astartila cytherea</i> , Dana.	Wollongong, N. S. Wales.
<i>P. sacculus</i> .		? Vide <i>Eurydesma</i> .	

Genus *Palæarca*, *J. Hall*, 1859 (see p. 23).

<i>P. costellata</i> , <i>de Kon.</i>	U. Pal. (Carb.)	Vide <i>Arca costellata</i> , <i>M'Coy</i> .	
<i>P. interrupta</i> , <i>de Koninck</i> .		" " <i>de Kon.</i>	
<i>P. subarguta</i> , <i>de Koninck</i> .			

Genus *Paracyclas*, *J. Hall*, 1843. (Geol. Report, 4th District N. York, p. 171; *de Koninck*, Foss. Pal. Nouv.-Galles du Sud, 1876, pt. 2, p. 108.)  
? *Lucinacea-Lucinidæ*.

<i>P. elliptica</i> , <i>Phillips</i> .	M. Pal. (Dev.)	<i>Pullastra</i> , *Pal. Foss. Devon. 1840, p. 35, t. 17, f. 54; <i>Paracyclas</i> , <i>de Koninck</i> , *Foss. Pal. Nouv.-Galles du Sud, 1876, p. 109.	Yass, N. S. Wales.
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Genus *Pecten*, *Ø. F. Müller*, 1776. (Zool. Danicæ Prod. p. 248; *Lamarck* (emend.), Prodrome, 1799, p. 88.)—*Ostracea-Pectinidæ*.

<i>P. Fittoni</i> , <i>Morris</i> .		Vide <i>Aviculopecten Fittoni</i> .	
<i>P. Illawarensis</i> , <i>Morris</i> .		Vide <i>Aviculopecten Illawarensis</i> .	
<i>P. limæformis</i> , <i>Morris</i> .		Vide <i>Aviculopecten limæformis</i> .	
<i>P. comptus</i> , <i>Dana</i> .		Vide <i>Aviculopecten comptus</i> .	
<i>P. leniusculus</i> , <i>Dana</i> .		Vide <i>Aviculopecten leniusculus</i> .	
<i>P. lineatus</i> , <i>Plews</i> .		Vide <i>Aviculopecten lineatus</i> .	
<i>P. mitis</i> , <i>Dana</i> .		Vide <i>Aviculopecten mitis</i> .	
<i>P. ptychotis</i> , <i>M'Coy</i> .		Vide <i>Aviculopecten ptychotis</i> .	
<i>P. squamuliferus</i> , <i>Morris</i> .		Vide <i>Aviculopecten squamuliferus</i> .	
<i>P. tenuicollis</i> , <i>Dana</i> .		Vide <i>Aviculopecten tenuicollis</i> .	

Genus *Pholadomya*, *G. B. Sowerby*, 1823. (Genera of Shells, No. 19, *J. de C. Sow.* Min. Con. 1827, vi. p. 85 = *Procardia*, *Meek*, 1871.)—*Myacea-Anatinidæ*.

<i>P. audax</i> , <i>Dana</i> .		Vide <i>Edmondia</i> ? <i>audax</i> .	
<i>P. curvata</i> , <i>Dana</i> .		Vide <i>Allorisma curvata</i> .	
<i>P. Glendonensis</i> , <i>Dana</i> .		Vide <i>Edmondia</i> ? <i>Glendonensis</i> .	
<i>P. undata</i> , <i>Dana</i> .		Vide <i>Edmondia</i> ? <i>undata</i> .	

## (Pelecypoda.)

## (Mid. and Up. Palæozoic.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
Genus <b>Pleurophorus</b> , <i>King</i> , 1844. (Annals Nat. Hist. xv. p. 313; Catalogue Perm. Foss. 1848, p. 11; Mon. Perm. Foss. 1850, p. 180; Meek and Hayden, Pal. Up. Missouri, 1865, p. 34; Stoliczka, Pal. Indica, III. p. 280.) <i>Lucinacea-Astartidæ</i> .			
<i>P. biplex</i> , <i>de Kon.</i>	U. Pal. (Carb.)	*Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 282, t. 19, f. 1.	Wollongong, N. S. Wales.
<i>P. carinatus</i> , <i>de Koninck</i> .		Vide <i>Pachydomus carinatus</i> , Morris.	
<i>P. Morrisii</i> , <i>de Kon.</i>	U. Pal. (Carb.)	<i>Orthonota? costata</i> , Morris, in Strzelecki's *Phys. Descr. N. S. Wales, 1845, p. 273, t. 11, f. 1 and 2 (non <i>Pleurophorus costatus</i> , Brown); <i>Orthonota costata</i> , M'Coy, *Annals Nat. Hist. 1847, xx. p. 300; <i>Cardinia costata</i> , Dana, *Geol. U. S. Explor. Expd. p. 692, Atlas, t. 4, f. 8; <i>O. costata</i> , Grange, Dumont-d'Urville's Voy. au Pole Sud, Géol. 1854, II. p. 89; <i>id.</i> Clarke, S. Goldfields, 1860, p. 287; <i>Pleurophorus Morrisii</i> , de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 281, t. 20, f. 5.	Illawara; Wollongong, N. S. Wales.

Genus **Pleurorhynchus**, *Phillips*, 1836. (Geol. Yorkshire, II. p. 210.) Vide *Conocardium*, Bronn.

*P. Australis*, *M'Coy*. | Vide *C. Australis*. |

Genus **Pterinea**, *Goldfuss*, 1832 (see p. 24).—*Mytilacea-Aviculidæ*.

<i>P. laminosa</i> , <i>de Kon.</i>	Mid. Pal. (L. Dev.)	*Foss. Pal. Nouv.-Galles du Sud, 1876, p. 116, t. 3, f. 12.	Yass, N. S. Wales.
<i>P. macroptera</i> , <i>Morris</i> .	U. Pal. (Carb.)	Strzelecki's *Phys. Descrip. N. S. Wales, 1845, p. 276, t. 13, f. 2 and 3; Dana, *Geol. U. S. Explor. Exped. p. 704; M'Coy, Annals Nat. Hist. 1847, xx. p. 299; Grange, Dumont-d'Urville's Voy. au Pole Sud, Géol. 1854, II. p. 96; Clarke, S. Goldfields, 1860, p. 287; de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 305, t. 16, f. 12.	Illawara; Maitland, N. S. Wales. Spring Hill; Port Arthur, Tas.

Genus **Pteronites**, *M'Coy*, 1844. (Synop. Carb. Foss. Ireland, p. 81; Brit. Pal. Foss. 1852, p. 391; Stoliczka, Pal. Indica, III. p. 388).—*Mytilacea-Aviculidæ*.

<i>P. latus</i> , <i>M'Coy</i> .	U. Pal. (Carb.)	*Synop. Carb. Foss. Ireland, 1844, p. 81, t. 13, f. 7; <i>Avicula</i> , d'Orbigny, Prodrome de Pal. 1849, I. p. 135; <i>Pteronites</i> , Morris,	William's River, N. S. Wales.
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(Pelecypoda.)

(Mid. and Up. Palæozoic.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
		Cat. Brit. Foss. 2nd ed. 1854, p. 181; <i>Pterinea</i> , de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 306, t. 16, f. 11.	
Genus <i>Pullastra</i> , G. B. Sowerby, 1827 (Genera of Shells, No. xxviii., Zool. Jour. 1827, iii. p. 134) = <i>Tapes</i> , Megerle.			
P.? <i>striatocostata</i> , M'Coy.		Vide <i>Edmondia</i> .	
Genus <i>Pyramus</i> , Dana, 1847 (Amer. Jour. Science, iv. p. 156) = <i>Pyramia</i> , Dana. Vide <i>Notomya</i> , M'Coy.			
P. <i>ellipticus</i> , Dana.		Vide <i>Notomya elliptica</i> .	
P. <i>myiformis</i> , Dana.		Vide <i>Clarkia myiformis</i> .	
Genus <i>Sanguinolites</i> , M'Coy, 1844. (Synop. Carb. Foss. Ireland, p. 47; Brit. Pal. Foss. 1852, p. 276; de Koninck, Mon. Foss. Carb. Bleiberg en Carinthie, 1873, p. 73.)— <i>Myacea-Anatinidæ</i> ?			
S. <i>curvatus</i> , de Kon.		Vide <i>Allorisma? curvata</i> , Morris.	
S. <i>Etheridgei</i> , de Koninck.	U. Pal. (Carb.)	*Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 262, t. 16, f. 2, t. 17, f. 2.	Mount Vincent, N. S. Wales.
S. M'Coyi, de Kon.	U. Pal. (Carb.)	*Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 263, t. 17, f. 3.	Wollongong, N. S. Wales.
S. <i>Mitchellii</i> , de Kon.	U. Pal. (Carb.)	*Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 261, t. 16, f. 3.	Wollongong, N. S. Wales.
S. <i>Tenisoni</i> , de Kon.	U. Pal. (Carb.)	*Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 265, t. 17, f. 5.	Burrageood, N. S. Wales.
S. <i>undatus</i> , Dana.	U. Pal. (Carb.)	* <i>Pholadomya</i> , *Amer. Jour. Sc. 1847, iv. p. 153; <i>id.</i> *Geol. U. S. Explor. Exped. p. 687, t. 2, f. 11; <i>id.</i> Clarke, S. Goldfields, 1860, p. 287; <i>Sanguinolites</i> , de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 260, t. 17, f. 1.	Wollongong Point; Illawara; Burrageood, N. S. Wales.
Genus <i>Scaldia</i> , de Ryckholt, 1852?. (Mélanges Pal. pt. 1, p. 67; de Koninck, Mon. Carb. Foss. Bleiberg en Carinthie, 1873, p. 72.)— <i>Myacea-Anatinidæ</i> ?			
S.? <i>depressa</i> , de Kon.	U. Pal. (Carb.)	*Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 259, t. 15, f. 6.	Buchan, N. S. Wales.
S.? <i>lamellifera</i> , de Koninck.	U. Pal. (Carb.)	*Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 260, t. 15, f. 7.	Harper's Hill, N. S. Wales.

(Pelecypoda<sup>1</sup>.)

## (Mid. and Up. Palæozoic.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
Genus <b>Solecortus</b> , de Blainville, 1824. (Dict. Sc. Nat. xxxii. p. 351.) <i>Myacea-Solenidæ</i> .			
<i>S. ellipticus</i> , Dana.	U. Pal. (Carb.)	<i>Solen</i> , *American Jour. Sc. 1847, iv. p. 153; <i>Solecortus?</i> *Geol. U. S. Expl. Expd. p. 686, Atlas, t. 2, f. 9; <i>id.</i> Clarke, S. Goldfields, 1860, p. 287.	Wollongong Point, N. S. Wales.
<i>S. planulatus</i> , Dana.	U. Pal. (Carb.)	<i>Solen</i> , *American Jour. Sc. 1847, iv. p. 153; <i>Solecortus</i> ( <i>Psammobia?</i> ), *Geol. U. S. Expl. Expd. p. 687, Atlas, t. 2, f. 10.	Harper's Hill, N. S. Wales.

Genus **Solen**, Linnaeus, 1758. (Systema, ed. 10, p. 672; Lamarck, 1799, Prodrôme, p. 83.)  
*Myacea-Solenidæ*.

<i>S. ellipticus</i> , Dana.	Vide <i>Solecortus ellipticus</i> , Dana.
<i>S. planulatus</i> , Dana.	Vide <i>Solecortus planulatus</i> , Dana.

Genus **Tellinomya**, 1847 (see p. 24).—*Arcacea-Nuculidæ*.

<i>T. Clarkei</i> , de Kon.	Mid. Pal. (L. Dev.)	*Foss. Pal. Nouv.-Galles du Sud, 1876, pt. 2, p. 111, t. 3, f. 8.	Yass, N. S. Wales.
<i>T. Darwinii</i> , de Kon.		Vide <i>Nuculana</i> .	

Genus **Venus**, Linnaeus, 1758. (Systema, ed. 10, p. 684; Lamarck, 1799, Prodrôme, p. 84.)  
*Veneracea-Veneridæ*.

<i>V.?</i> <i>gregaria</i> , M'Coy.	U. Pal. (Carb.)	*Annals Nat. Hist. 1847, xx. p. 305, t. 16, f. 5; *Proc. R. Soc. V. D. Land, 1851, i. p. 328, t. 16, f. 5; Clarke, S. Goldfields, 1860, p. 287.	Wollongong, N. S. Wales.
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## Class—Gasteropoda.

Genus **Bellerophon**, de Montfort, 1808 (see p. 24).—*Nucleobr.-Atlantidæ?*

<i>B. contractus</i> , Jukes (ms.).	U. Pal. (Carb.)	*Quart. Jour. Geol. Soc. 1847, iii. p. 242; Phys. Structure of Australia, 1860, p. 20.	Illawara, N. S. Wales.
<i>B. convolutus</i> , de Koninck.	Mid. Pal. (L. Dev.)	*Foss. Pal. Nouv.-Galles du Sud, 1876, p. 118, Atlas, t. 4, f. 4.	Yass, N. S. Wales.
<i>B. decussatus</i> , Fleming.	U. Pal. (Carb.)	*Brit. Animals, 1828, p. 328; Phillips, *Geol. Yorksh. 1836, ii. p. 231, t. 17, f. 13; <i>B. reticulatus</i> , M'Coy, *Synop. Carb. Foss. Ireland, 1844, p. 25, t. 2, f. 5; <i>B. decussatus</i> , de Koninck,	N. S. Wales.

<sup>1</sup> Prof. M'Coy has indicated two new species of *Grammysia* and *Orthonota* from Victorian Devonian rocks. (Smyth's *Progress Rept.* 1874, p. 34.)

(Gasteropoda.)

(Mid. and Up. Palæozoic.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
<i>B. interstitialis</i> , <i>M'Coy.</i>	U. Pal. (Carb.)	* <i>Descrip. Anim. Foss. Terr. Carb. Belg.</i> 1844, p. 339, t. 29, f. 2 and 3, t. 30, f. 3; <i>id. M'Coy, *Brit. Pal. Foss.</i> p. 552; <i>id. Brown, *Foss. Conch.</i> 1849, p. 38, t. 26, f. 21; <i>id. de Kon. Mon. Foss. Carb. Carinthie</i> , 1873, p. 97, t. 4, f. 1; <i>id. ibid. Foss. Pal. Nouv.-Galles du Sud</i> , 1877, pt. 3, p. 366; <i>id. Etheridge, jun. *Geol. Mag.</i> 1876, Dec. 2, vol. III. p. 154, t. 6, f. 8 a and b. * <i>Annals Nat. Hist.</i> 1847, xx. p. 308, t. 17, f. 6; * <i>Proc. R. Soc. V. D. Land</i> , 1851, I. p. 330, t. 17, f. 6.	Dunvegan, N. S. Wales.
<i>B. micromphalus</i> , <i>Morris.</i>		Vide <i>Goniatites</i> .	
<i>B. strictus</i> , <i>Dana.</i>		Vide <i>Goniatites</i> .	
<i>B. subglobatus</i> , <i>M'Coy.</i>	M. Pal. (Dev.)	<i>B. globatus</i> , J. de C. Sow. * <i>Geol. Trans.</i> 2nd ser. v. 1840, t. 53, f. 30; <i>id. Phillips, *Pal. Foss. Devon.</i> 1841, p. 108, t. 40, f. 202; <i>B. subglobatus</i> , M'Coy, * <i>Brit. Pal. Foss.</i> p. 400; <i>id. Morris, Cat. Brit. Foss.</i> 2nd ed. 1854, p. 288; ? <i>B. globatus</i> , Stutchbury, <i>Parl. Blue Book</i> , Dec. 1854, p. 19.	Pallal, nr. Bingera, N. S. Wales.
<i>B. undulatus</i> , <i>Dana.</i>		Vide <i>Goniatites</i> .	

Genus *Capulus*, de Montfort, 1810 (*Conch. Syst.* II. p. 54) = *Pileopsis*, Lamarck, 1812; *Platyceras*, Conrad, 1840; *Acroculia*, Phillips, 1841.—*Prosobr.-Capulidæ*.

<i>C. altus</i> , <i>Dana.</i>	U. Pal. (Carb.)	<i>Pileopsis alta</i> , * <i>Geol. U.S. Explor. Exped.</i> p. 706, Atlas, t. 9, f. 14; <i>Platyceras altum</i> , de Koninck, * <i>Foss. Pal. Nouv.-Galles du Sud</i> , 1877, pt. 3, p. 318, t. 23, f. 5.	Harper's Hill, N. S. Wales.
<i>C. angustus</i> , <i>Phillips.</i>	U. Pal. (Carb.)	<i>Pileopsis</i> , * <i>Geol. York.</i> 1836, II. p. 224, t. 14, f. 20; <i>Acroculia</i> , M'Coy, * <i>Synopsis Carb. Foss. Ireland</i> , 1844, p. 44; <i>Pileopsis</i> , Brown, * <i>Foss. Conchology</i> , 1849, p. 103, t. 47, f. 54; <i>Capulus</i> , Morris, <i>Cat. Brit. Foss.</i> 2nd ed. 1854, p. 239; <i>Platyceras</i> , de Koninck, * <i>Foss. Pal. Nouv.-Galles du Sud</i> , 1877, pt. 3, p. 316, t. 23, f. 7.	Burragegood, N. S. Wales.
<i>C. tenellus</i> , <i>Dana.</i>	U. Pal. (Carb.)	<i>Patella</i> , * <i>Amer. Jour. Sc.</i> 1847, IV. p. 151; <i>Pileopsis</i> , * <i>Geol. U.S. Explor. Exped.</i> p. 706, Atlas, t. 9, f. 13; <i>Patella</i> , Clarke, S. Goldfields, 1860, p. 288; <i>Platy-</i>	Harper's Hill; Colocolo, N. S. Wales.



## (Gasteropoda.)

## (Mid. and Up. Palæozoic.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
<i>C. trilobus</i> , <i>Phillips</i> .	U. Pal. (Carb.)	<i>ceras</i> , de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 319, t. 23, f. 6. <i>Pileopsis</i> ? *Geol. York. 1836, II, p. 224, t. 14, f. 12 and 13; <i>Capulus vetustus</i> , de Koninck, *Descrip. Anim. Foss. Terr. Carb. Belgique, 1842, p. 332 (non Sow.); <i>Acroculia triloba</i> , M'Coy, *Synop. Carb. Foss. Ireland, 1844, p. 45; <i>Pileopsis</i> , Brown, *Foss. Conchology, 1849, p. 103, t. 47, f. 50 and 55; <i>Capulus trilobatus</i> , Morris, Cat. Brit. Foss. 2nd ed. 1854, p. 239; <i>Platycceras trilobatum</i> , de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 317.	Burrageood, N. S. Wales.
Genus <b>Dentalium</b> , <i>Linnaeus</i> , 1758 <sup>1</sup> . ( <i>Systema</i> , ed. 10, p. 785; <i>Lamarck</i> , <i>Prodrome</i> , 1799, p. 78; <i>Adams</i> , <i>Genera</i> , 1854, I, p. 456.)— <i>Prosobr.-Dentaliidae</i> .			
<i>D. antiquum</i> , <i>Goldfuss</i> .	M. Pal. (L. Dev.)	*Pet. Germaniæ, 1841, III, p. 2, t. 166, f. 2; de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1876, pt. 2, p. 117.	Yass; Yarradong, N. S. Wales.
<i>D. cornu</i> , <i>de Kon.</i>	U. Pal. (Carb.)	*Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 315, t. 23, f. 4.	Karua, N. S. Wales.
<i>D. tenuissimum</i> , <i>de Koninck</i> .	M. Pal. (L. Dev.)	*Foss. Pal. Nouv.-Galles du Sud, 1876, pt. 2, p. 117, Atlas, t. 4, f. 3.	Yass, N. S. Wales.
Genus <b>Euomphalus</b> , <i>J. Sowerby</i> , 1814 (see p. 24).— <i>Prosobr.-Turbinidae</i> ?			
<i>E. catillus</i> , <i>Martin</i> .	U. Pal. (Carb.)	<i>Conch. (Helicites)</i> , *Pet. Derb. 1809, t. 7, f. 1 and 2; <i>Euomphalus</i> , de Koninck, *Descrip. Anim. Foss. Terr. Carb. Belgique, 1843, p. 427, t. 24, f. 10; <i>id.</i> M'Coy, *Synop. Carb. Foss. Ireland, 1844, p. 35; <i>id.</i> Brown, *Foss. Conchology, 1849, p. 81, t. 42, f. 30 and 31; <i>Straparolus</i> ? M'Coy, *Brit. Pal. Foss. p. 538; <i>Euomphalus</i> , Morris, Cat. Brit. Foss. 1854, 2nd ed. p. 247; <i>id.</i> de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 332, t. 23, f. 19.	Maitland, N. S. Wales.
<i>E. Bigsbyi</i> , <i>de Kon.</i>	Mid. Pal. (L. Dev.)	*Foss. Pal. Nouv.-Galles du Sud, 1876, pt. 2, p. 123, Atlas, t. 4, f. 8.	Yass, N. S. Wales.

<sup>1</sup> The name *Dentalium* was used by Aldrovandus in 1642, and by Linnaeus as early as 1740 (*Meek*)! Stoliczka gives the original reference as Aldrovandus, 1642, *De Testaceis*, lib. 3, cap. 5, p. 282!

## (Gasteropoda.)

## (Mid. and Up. Palæozoic.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
<i>E. minimus</i> , M'Coy.	U. Pal. (Carb.)	*Annals Nat. Hist. 1847, xx. p. 305, t. 17, f. 4; *Proc. R. Soc. V. D. Land, 1851, i. p. 328, t. 17, f. 4; Clarke, S. Goldfields, 1860, p. 288; de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 331, t. 23, f. 17.	Dunvegan; Burragood, N. S. Wales.
<i>E. nodulosus</i> , de Koninck.	Mid. Pal. (L. Dev.)	*Foss. Pal. Nouv.-Galles du Sud, 1876, pt. 2, p. 122, Atlas, t. 1, f. 12.	Yarradong, N. S. Wales.

Genus *Litterina*, Ferrussac, 1820 (Tab. Syst. Anim. Moll. p. xxxiv.) = *Trochus*, Adanson (non Linn).—*Prosobr.-Littorinidæ*.

<i>L. filosa</i> , J. de C. Sowerby.		Vide <i>Macrocheilus</i> .	
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Genus *Loxonema*, Phillips, 1841<sup>1</sup>. (Pal. Foss. Devon. p. 98.)  
*Prosobr.-Eulimidæ*.

<i>L. acutissima</i> , de Koninck.	U. Pal. (Carb.)	*Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 337, t. 23, f. 22.	Karua, N. S. Wales.
<i>L. anglica</i> , d'Orbigny.	Mid. Pal. (L. Dev.)	Prod. de Pal. 1849, i. p. 62; de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1876, pt. 2, p. 124, Atlas, t. 4, f. 9.	Yass, N. S. Wales.
<i>L. antiqua</i> , Münster.	Mid. Pal. (L. Dev.)	<i>Turritella</i> , *Beitrag z. Petrefac. 1840, p. 88, t. 15, f. 17; <i>Loxonema</i> , de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1876, pt. 2, p. 125, t. 4, f. 10.	Yass, N. S. Wales.
<i>L. constricta</i> , Martin.	U. Pal. (Carb.)	<i>Conch. (Turbinites?)</i> , *Pet. Derb. 1809, t. 38, f. 3; <i>Melanea</i> , J. Sowerby, *Min. Con. 1818, iii. p. 33, t. 218, f. 2; <i>Melania</i> , Phillips, *Geol. York. 1836, ii. p. 228, t. 16, f. 1; <i>Chemnitzia</i> , de Koninck, *Descrip. Anim. Foss. Terr. Carb. Belgique, 1843, p. 465, t. 41, f. 5 a and b; <i>Loxonema</i> , M'Coy, *Synop. Carb. Foss. Ireland, 1844, p. 30; <i>id.</i> de Koninck, *Mon. Foss. Carb. Bleiberg en Carinthie, 1873, p. 105, t. 4, f. 5; <i>id. ibid.</i> *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 336, t. 23, f. 20.	Karua, N. S. Wales.
<i>L. deperdita</i> , Goldfuss.	Mid. Pal. (L. Dev.)	<i>Melania</i> , *Pet. Germaniæ, iii. p. 109, t. 197, f. 12; <i>Loxonema</i> , de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1876, pt. 2, p. 126.	Yass, N. S. Wales.
<i>L. difficilis</i> , de Kon.	U. Pal. (Carb.)	*Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 335, t. 23, f. 23.	Karua, N. S. Wales.

<sup>1</sup> Some authors unite this genus with *Chemnitzia*, d'Orb.; see on this head, F. B. Meek (*Invert. Cret. Tert. Foss. Up. Missouri*, 1876, pp. 337—339), and Stoliczka (*Pal. Indica*, ii. p. 285).

## (Gasteropoda.)

## (Mid. and Up. Palæozoic.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
<i>L. Hennahii</i> , <i>J. de C. Sowerby</i> .	Mid. Pal. (L. Dev.)	<i>Terebra</i> , *Trans. Geol. Soc. 1840, v. t. 57, f. 22; <i>Loroxnema</i> , Phillips, *Pal. Foss. Devon. 1841, p. 99, t. 38, f. 184; <i>id.</i> de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1876, pt. 2, p. 125.	Yass, N. S. Wales.
<i>L. rugifera</i> , <i>Phillips</i> .	U. Pal. (Carb.)	<i>Melania</i> , *Geol. York. 1836, II. p. 229, t. 16, f. 26; <i>Chemnitzia</i> , de Koninck, *Descrip. Anim. Foss. Terr. Carb. Belgique, 1843, p. 462, t. 41, f. 2; <i>Melania</i> , Brown, *Foss. Conch. 1849, p. 96, t. 45, f. 45; <i>Loroxnema</i> , M'Coy, *Brit. Pal. Foss. p. 545; <i>id.</i> de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 338, t. 23, f. 21.	Burrageood, N. S. Wales.

Genus *Macrocheilus*, *Phillips*, 1841. (Pal. Foss. Devon, p. 103; *Stoliczka*, Pal. Indica, II. pp. 263 and 290.)—*Prosobr.-Littorinidæ* or *Eulimidæ*?

<i>M. acutus</i> , <i>J. de C. Sowerby</i> ,	U. Pal. (Carb.)	<i>Buccinum</i> , *Min. Con. 1827, VI. p. 127, t. 566, f. 1; <i>id.</i> Phillips, *Geol. York. 1836, II. p. 230, t. 16, f. 11 and 21; <i>B. imbricatum</i> , <i>id.</i> * <i>ibid.</i> p. 229, t. 16, f. 17—20; <i>Macrocheilus</i> , de Koninck, *Descrip. Anim. Foss. Terr. Carb. Belgique, p. 473, t. 40, f. 10 a and b, t. 41, f. 13 a and b; <i>id.</i> M'Coy, *Synop. Carb. Foss. Ireland, 1844, p. 28; <i>id.</i> Morris, Cat. Brit. Foss. 2nd ed. 1854, p. 256; <i>id.</i> de Koninck, *Mon. Foss. Carb. Bleiberg en Carinthie, 1873, p. 104, t. 4, f. 9; <i>id.</i> <i>ibid.</i> *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 334, t. 23, f. 24.	Burrageood, N. S. Wales,
<i>M. filusus</i> , <i>J. de C. Sowerby</i> .	U. Pal. (Carb.)	<i>Littorina</i> , Mitchell's *Three Expeds. Int. E. Austr. 1838, I. p. 38, t. 2, f. 5; Morris, Strzelecki's *Phys. Descrip. N. S. Wales, 1845, p. 285, t. 18, f. 4; <i>Littorina</i> , Grange, Dumont-d'Urville's Voy. au Pole Sud, Géol. 1854, II. p. 85,	Booral; Karua, N. S. Wales,

Genus *Mitchellia*, *L. G. de Koninck*, 1876. (Foss. Pal. Nouv.-Galles du Sud, pt. 2, p. 128.) *Prosobr.-Buccinidæ*?

<i>M. striatula</i> , <i>de Kon.</i>	Mid. Pal. (L. Dev.)	* <i>loc. cit.</i> p. 129, Atlas, t. 4, f. 12.	Yass, N. S. Wales.
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(Gasteropoda.)

(Mid. and Up. Palæozoic.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
Genus <b>Murchisonia</b> , <i>d'Archiac and de Verneuil</i> , 1841 (see p. 25).— <i>Prosobr.-Pleurotomariidæ</i> .			
<i>M. angulata</i> , Clarke.		?Vide <i>M. Verneuiliana</i> , de Kon.	
<i>M. carinata</i> , Etheridge.	U. Pal. (Carb.)	*Quart. Jour. Geol. Soc. 1872, xxviii. p. 337, t. 18, f. 5.	Don River, Qu.
<i>M. granifera</i> , de Kon.	Mid. Pal. (L. Dev.)	*Foss. Pal. Nouv.-Galles du Sud, 1876, pt. 2, p. 121, Atlas, t. 4, f. 6.	Yass, N. S. Wales.
<i>M.?</i> <i>tricincta</i> , Morris.	U. Pal. (Carb.)	Strzelecki's *Phys. Descrip. N. S. Wales, 1845, p. 285, t. 18, f. 3; Grange, Dumont-d'Urville's Voyage au Pole Sud, Géologie, 1854, II. p. 85.	Booral, N. S. Wales.
<i>M. trifiliata</i> , Dana.	U. Pal. (Carb.)	<i>Pleurotomaria</i> , *Amer. Jour. Sc. 1847, iv. p. 151; <i>id. ibid.</i> v. p. 434; <i>P. Morrisiana</i> , *Geol. U. S. Explor. Exped. p. 706, Atlas, t. 9, f. 16 (and ? 15); <i>Murchisonia</i> , de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 327.	Harper's Hill, N. S. Wales.
<i>M. turris</i> , de Kon.	Mid. Pal. (L. Dev.)	*Foss. Pal. Nouv.-Galles du Sud, 1876, p. 120, t. 4, f. 5.	Yass, N. S. Wales.
<i>M. Verneuiliana</i> , de Koninck.	Mid. Pal. (L. Dev.) U. Pal. (Carb.)	*Descrip. Anim. Foss. Terr. Carb. Belgique, 1843, p. 414, t. 38, f. 5; *Foss. Pal. Nouv.-Galles du Sud, 1876, pt. 2, p. 119; * <i>ibid.</i> pt. 3, 1877, p. 329, t. 23, f. 15; ? <i>M. angulata</i> , Clarke, S. Goldfields, 1860, p. 288.	Yass; Munnawarree, N. S. Wales.

Genus **Naticopsis**, *M'Coy*, 1844 (Synop. Carb. Foss. Ireland, p. 33) = *Naticodon*, de Ryckholt, 1847.—*Prosobr.-Naticidæ*.

<i>N.?</i> <i>harpæformis</i> , Etheridge.	U. Pal. (Carb.)	*Quart. Jour. Geol. Soc. 1872, xxviii. p. 337, t. 18, f. 6.	Don River, Qu.
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Genus **Niso**, *Risso*, 1826. (Hist. Nat. Europe Mérid. iv. p. 218.)  
*Prosobr.-Eulimidæ*.

<i>N.?</i> <i>Darwinii</i> , de Kon.	Mid. Pal. (L. Dev.)	*Foss. Pal. Nouv.-Galles du Sud, 1876, pt. 2, p. 127, t. 4, f. 11.	Yass, N. S. Wales.
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Genus **Patella**, *Linnæus*, 1740. (Systema Nat. p. 63; *id.* ed. 10, 1758, p. 780; Lamarck, Prodrôme, 1799, p. 78.)—*Prosobr.-Patellidæ*.

<i>P. tenella</i> , Dana.		Vide <i>Capulus tenellus</i> , Dana.	
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Genus **Pileopsis**, *Lamarck*, 1820. (Hist. Nat. Anim. sans Vertèb. vi. pt. 2, p. 381.)  
Vide *Capulus*, de Montf.

<i>P. alta</i> , Dana.		Vide <i>Capulus altus</i> , Dana.	
<i>P. tenella</i> , Dana.		Vide <i>Capulus tenellus</i> , Dana.	

## (Gasteropoda.)

## (Mid. and Up. Palæozoic.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
Genus <i>Platyceras</i> , <i>Conrad</i> , 1840. (3rd Ann. Report, Pal. N. York, p. 205.) Vide <i>Capulus</i> , de Montf.			
<i>P. altum</i> , <i>Dana</i> .		Vide <i>Capulus altus</i> , <i>Dana</i> .	
<i>P. angustatum</i> , <i>Phillips</i> .		Vide <i>Capulus angustatus</i> , <i>Phillips</i> .	
<i>P. tenella</i> , <i>Dana</i> .		Vide <i>Capulus tenellus</i> , <i>Dana</i> .	
<i>P. trilobatum</i> , de <i>Koninck</i> .		Vide <i>Capulus trilobus</i> , <i>Phillips</i> .	
Genus <i>Platyschisma</i> , <i>M'Coy</i> , 1844. (Synop. Carb. Foss. Ireland, p. 38.) <i>Prosobr.-Turbinidæ</i> .			
<i>P. depressa</i> , <i>Dana</i> .	U. Pal. (Carb.)	*American Jour. Sc. 1847, iv. p. 151; *Geol. U. S. Expl. Expd. p. 707, Atlas, t. 10, f. 2.	Harper's Hill, N. S. Wales.
<i>P. ocula</i> , <i>J. de C.</i> <i>Sowerby</i> .	U. Pal. (Carb.)	<i>Trochus</i> , Mitchell's *Three Expds. Int. E. Austr. 1838, i. p. 15, t. 2, figs. 3 and 4; <i>Platyschisma</i> , Morris, Strzelecki's *Phys. Descr. N. S. Wales, 1845, p. 286, t. 18, f. 1; <i>id.</i> M'Coy, Annals Nat. Hist. 1847, xx. p. 306; <i>id.</i> Dana, *Geol. U. S. Expl. Expd. p. 707, t. 10, f. 1; <i>id.</i> Grange, Dumont-d'Urville's Voyage au Pole Sud, Géologie, 1854, ii. p. 86 and 89; <i>id.</i> Plews, Mining Inst. Jour. 1858, vi. pt. 3, t. 4; <i>Euomphalus</i> , de Koninck, Foss. Pal. Nouy.-Galles du Sud, 1877, pt. 3, p. 330, t. 23, f. 18.	Illawara; Harper's Hill, N. S. Wales.
<i>P. rotundata</i> , <i>Morris</i> .	U. Pal. (Carb.)	Strzelecki's *Phys. Descr. N. S. Wales, 1845, p. 286, t. 18, f. 2; Dana, *Geol. U. S. Expl. Expd. p. 707; Grange, Dumont-d'Urville's Voyage au Pole Sud, Géologie, 1854, ii. pp. 86 and 89; Plews, Mining Inst. Jour. 1858, vi. pt. 3, t. 4; Clarke, S. Goldfields, 1860, 288.	Illawara; Harper's Hill, N. S. Wales.
Genus <i>Pleurotomaria</i> , <i>DeFrance</i> , 1824. (Tableau, p. 114; Dict. Sc. Nat. 1826, xli. p. 381.) <i>Prosobr.-Pleurotomariidæ</i> .			
<i>P. cancellata</i> , <i>Strzelecki</i> .		Vide <i>P. subcancellata</i> , <i>Morris</i> .	
<i>P. carinata</i> , <i>J. Sow.</i>	M. Pal. (Dev.)	<i>Helix</i> , *Min. Con. i. p. 34, t. 10, f. 3 (upper and lower figs.); <i>Pleurotomaria</i> , <i>Phillips</i> , *Geol. York. 1836, ii. p. 226, t. 15, f. 1; <i>id.</i> de Koninck, *Descrip. Anim. Foss. Terr. Carb. Belgique, p. 397, t. 31, f. 1 a—d; <i>id.</i> M'Coy, *Synop. Carb. Foss. Ireland, 1844, p. 39; <i>id.</i> Brown, *Foss. Conch. 1849,	Gympie, Qu.

## (Gasteropoda.)

## (Mid. and Up. Palæozoic.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
<i>P. gemmulifera</i> , <i>Phillips.</i>	U. Pal. (Carb.)	p. 87, t. 40, f. 24 and 25; <i>id.</i> Morris, Cat. Brit. Foss. 2nd ed. p. 272; <i>id.</i> Etheridge, *Quart. Jour. Geol. Soc. 1872, xxviii. p. 331, t. 15, f. 6. *Geol. York. 1836, ii. p. 227, t. 15, f. 19; de Koninck, *Descrip. Anim. Foss. Terr. Carb. Belgique, 1843, p. 370, t. 31, f. 7 a—d; Brown, *Foss. Conch. 1849, p. 87, t. 40, f. 28 and 29; Morris, Cat. Brit. Foss. 2nd ed. 1854, p. 272; de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 324, t. 23, f. 9.	Stony Creek; W. Maitland, N. S. Wales.
<i>P. helicinaeformis</i> , de <i>Koninck.</i>	U. Pal. (Carb.)	*Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 327, t. 23, f. 13.	Burrageood, N. S. Wales.
<i>P. humilis</i> , de <i>Kon.</i>	U. Pal. (Carb.)	*Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 325, t. 23, f. 14.	Raymond Terrace, N. S. Wales.
<i>P. Morrisiana</i> , <i>M'Coy.</i>	U. Pal. (Carb.)	*Annals Nat. Hist. 1847, xx. p. 306, t. 17, f. 5; Dana, *Geol. U. S. Expl. Exped. p. 706, t. 9, f. 15; M'Coy, *Proc. R. Soc. V. D. Land, 1851, i. p. 329, t. 17, f. 5; Clarke, S. Goldfields, 1860, p. 288; de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 321, t. 23, f. 12.	Black Head; Illawara; Muree, N. S. Wales.
<i>P. naticoides</i> , de <i>Koninck.</i>	U. Pal. (Carb.)	*Descrip. Anim. Foss. Terr. Carb. Belgique, 1843, p. 405, t. 31, f. 8; *Mon. Foss. Carb. Bleiberg en Carinthie, 1873, p. 101; *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 326, t. 23, f. 10.	Harper's Hill, N. S. Wales.
<i>P. nuda</i> , <i>Dana.</i>	U. Pal. (Carb.)	*Amer. Jour. Soc. 1847, iv. p. 151; *Geol. U. S. Explor. Exped. p. 706, Atlas, t. 9, f. 17.	Harper's Hill, N. S. Wales.
<i>P. rotunda</i> , <i>Etheridge.</i>	U. Pal. (Carb.)	*Quart. Jour. Geol. Soc. 1872, xxviii. p. 336, t. 18, f. 3.	Cracow Creek, Qu.
<i>P. striata</i> , <i>J. Sow.</i>	U. Pal. (Carb.)	<i>Helix?</i> *Min. Con. 1817, ii. p. 159, t. 171, f. 1; <i>Pleurotomaria</i> , Phillips, *Geol. York. 1836, ii. p. 226; <i>Ptychomphalus</i> , Agassiz, *Traduct. de la Conch. Miner. de Sowerby, 1838, p. 222, t. 115, f. 1—3!; <i>Pleurotomaria</i> , de Koninck, *Descrip. Anim. Foss. Terr. Carb. Belgique, 1843, p. 399, t. 31, f. 2 a—c; <i>id.</i> Brown, *Foss. Conch. 1849, p. 86, t. 40, f. 15 and 16; <i>id.</i> Morris, Cat. Brit. Foss. 1854, 2nd ed. p. 273; <i>id.</i> M'Coy,	Duguid's Hill, N. S. Wales.

(Gasteropoda.)

(Mid. and Up. Palæozoic.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
<i>P. Strzeleckiana</i> , <i>Morris</i> .	U.Pal.(Carb.)	*Brit. Pal. Foss. p. 529; <i>id.</i> de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 323, t. 23, f. 11. <i>P. Strzelecki's</i> *Phys. Descrip. N. S. Wales, 1845, p. 287, t. 18, f. 5; M'Coy, Annals Nat. Hist. 1847, xx. p. 306; Dana, *Geol. U. S. Explor. Exped. p. 707; Grange, Dumont-d'Urville's Voyage au Pole Sud, Géologie, 1854, II. pp. 87 and 89; Plews, Mining Inst. Jour. 1858, VI. pt. 3, t. 4.	Glendon; Harper's Hill; Wollongong; Illawara, N. S. Wales.
<i>P. subcancellata</i> , <i>Morris</i> .	U.Pal.(Carb.)	<i>P. cancellata</i> , Strzelecki, Physic. Descrip. N. S. Wales, 1845, p. 91; <i>P. subcancellata</i> , Morris, Strzelecki's * <i>id.</i> p. 288, t. 18, f. 6; <i>id.</i> M'Coy, Annals Nat. Hist. 1847, xx. p. 305; <i>P. cancellata</i> , Grange, Dumont-d'Urville's Voyage au Pole Sud, Géologie, 1854, II. p. 89; <i>P. subcancellata</i> , de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 322.	Illawara; Loder's Creek; Muree, N. S. Wales.
<i>P. subconica</i> , <i>de Kon.</i>	Mid. Pal. (L. Dev.)	*Foss. Pal. Nouv.-Galles du Sud, 1876, pt. 2, p. 121, Atlas, t. 4, f. 7.	Yass, N. S. Wales.
<i>P. trifilata</i> , <i>Dana</i> .		Vide <i>Murchisonia</i> .	

Genus **Porcellia**, *Leveille*, 1835. (Mém. Soc. Géol. France, II. p. 39; Stoliczka, Pal. Indica, II. p. 381.)—*Prosobr.-Pleurotomariidæ*.

<i>P. Woodwardii</i> , <i>Martin</i> .	U.Pal.(Carb.)	<i>Conch.</i> (N. Ammonites), *Pet. Derb. 1809, t. 35, f. 4 and 5; <i>Nautilus</i> , J. de C. Sowerby, *Min. Con. 1827, VI. p. 138, t. 571, f. 3; <i>Bellerophon</i> , Phillips, *Geol. York. 1836, II. p. 231, t. 17, f. 1—3; <i>Porcellia</i> , de Koninck, *Descrip. Anim. Foss. Terr. Carb. Belg. 1844, p. 360, t. 28, f. 2; <i>Bellerophon</i> , Brown, *Foss. Conch. 1849, p. 38, t. 26, f. 14 and 20, t. 23, f. 12; <i>Porcellia</i> , Morris, Cat. Brit. Foss. 2nd ed. 1854, p. 289; <i>id.</i> de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 319, t. 23, f. 8.	Burrageood, N. S. Wales.
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Genus **Trochus**, *Linnaeus*, 1758. (Systema, ed. 10, p. 756; Lamarek, Prodrôme, 1799, p. 74; Système, 1801, p. 85; *id.* Histoire, 1822, VII. p. 9; Adams, Genera, 1854, I. p. 412.)—*Prosobr.-Turbinidæ*.

<i>T. oculus</i> , <i>J. de C. Sowerby</i> .		Vide <i>Platyschisma ocula</i> .	
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(Pteropoda.)

(Mid. and Up. Palæozoic.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
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Genus **Turritella**, *Lamarck*, 1799. (Prodrome, p. 74; Système, 1801, p. 89; Adams, Genera, 1854, i. p. 351.)—*Prosobr.-Turritellide*.

*T. tricincta*, *Morris*. | | Vide *Murchisonia? tricincta*. |

Class—Pteropoda. Section—Thecosomata.

Genus **Conularia**, (*Miller*) *J. Sowerby*, 1820 (see p. 26).—*Hyaleida*.

<i>C. inornata</i> , <i>Dana</i> .	U. Pal. (Carb.)	*Geol. U. S. Expl. Expd. p. 709, Atlas, t. 10, f. 8; de Koninek, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 314, t. 22, f. 14.	Glendon, N. S. Wales.
<i>C. lævigata</i> , <i>Morris</i> .	U. Pal. (Carb.)	Strzelecki's *Phys. Deser. N. S. Wales, 1845, p. 290, t. 18, f. 9; M'Coy, Annals Nat. Hist. 1847, xx. p. 306; <i>Dana</i> , *Geol. U. S. Expl. Expd. p. 710, t. 10, f. 9; Grange, Dumont-d'Urville's Voy. au Pole Sud, Géologie, 1854, ii. pp. 85 and 89; Plevs, Mining Inst. Jour. 1858, vi. pt. 3, t. 4; Clarke, S. Goldfields, 1860, p. 288; de Koninek, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 313, t. 23, f. 1.	Illawara, N. S. Wales. Raymond Terrace; Harper's Hill, N. S. Wales.
<i>C. quadrisulcata</i> , <i>Miller</i> .	U. Pal. (Carb.)	<i>J. Sowerby</i> , *Min. Con. iii. 1820, p. 107, t. 260, f. 3—5; M'Coy, *Synop. Carb. Foss. Ireland, 1844, p. 26; <i>id.</i> *Brit. Pal. Foss. p. 528; Brown, *Foss. Conch. 1849, p. 43, t. 29, f. 27; de Kon. *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 311, t. 23, f. 3.	Buchan; Gloucester, N. S. Wales.
<i>C. tenuistriata</i> , <i>M'Coy</i> .	U. Pal. (Carb.)	*Annals Nat. Hist. 1847, xx. p. 307, t. 17, figs. 7 and 8; <i>Dana</i> , *Geol. U. S. Expl. Expd. p. 710; M'Coy, *Proc. R. Soc. V. D. Land, 1851, i. p. 330, t. 17, figs. 7 and 8; de Koninek, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 310, t. 23, f. 2.	Muree, N. S. Wales.
<i>C. torta</i> , <i>M'Coy</i> .	U. Pal. (Carb.)	*Annals Nat. Hist. 1847, xx. p. 306, t. 17, figs. 9 and 10; *Proc. R. Soc. V. D. Land, 1851, i. p. 329, t. 17, figs. 9 and 10; Plevs, Mining Inst. Jour. 1858, vi. pt. 3, t. 4.	Muree, N. S. Wales.



## (Pteroda—Cephalopoda.)

## (Mid. and Up. Palæozoic.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
Genus <i>Theca</i> ( <i>J. de C. Sowerby</i> , ms.), <i>Morris</i> , 1845. (Strzelecki's Phys. Descr. N. S. Wales, p. 289.)— <i>Hyaleidæ</i> .			
<i>T. lanceolata</i> , <i>Morris</i> .	U. Pal. (Carb.)	* <i>l. c. t.</i> 18, f. 8; M'Coy, <i>Annals Nat. Hist.</i> 1847, xx, p. 306; Dana, * <i>Geol. U. S. Expl. Expd.</i> p. 708, Atlas, t. 10, f. 7; Grange, Dumont-d'Urville's <i>Voyage au Pole Sud, Géologie</i> , 1854, II, p. 89; Clarke, <i>S. Goldfields</i> , 1860, p. 288.	Black Head; Illawara, <i>N.S. Wales</i> .

## Class—Cephalopoda. Order—Tetrabranchiata.

Genus *Cameroceas*, *Conrad*, 1842. (*Jour. Acad. Nat. Sc. Philadel.* VIII, pt. 2, p. 267; *S. P. Woodward, Man. Moll.* 2nd ed. 1868, p. 191.)—*Orthoceratidæ*.

<i>C. Phillipsii</i> , <i>de Kon.</i>	U. Pal. (Carb.)	<i>Orthoceras laterale</i> , <i>de Koninck</i> , * <i>Descrip. Anim. Foss. Terr. Carb. Belg.</i> 1843, p. 508, t. 43, f. 2 a and b (non Phillips); <i>C. Phillipsii</i> , * <i>Foss. Pal. Nouv.-Galles du Sud</i> , 1877, pt. 3, p. 344, t. 24, f. 1.	Chinaman's Gully, <i>N. S. Wales</i> .
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Genus *Cyrtoceras*, *Goldfuss*, 1832. (*De la Beche's Handb. d. Geognosie*, p. 536; *S. P. Woodward, Man. Moll.* 2nd ed. 1868, p. 194.)—*Orthoceratidæ*.

<i>C. textile</i> , <i>de Kon.</i>	Mid. Pal. (L. Dev.)	* <i>Foss. Pal. Nouv.-Galles du Sud</i> , 1876, p. 131, t. 4, f. 13.	Yass, <i>N. S. Wales</i> .
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Genus *Goniatites*, *de Haan*, 1825. (*Mon. Ammon. et Goniatites*, p. 39.)  
? = *Aganides*, *Montfort*, 1808.—*Ammonitidæ*.

<i>G. micromphalus</i> , <i>Morris</i> .	U. Pal. (Carb.)	<i>Bellerophon</i> , <i>Strzelecki's Phys. Descr.</i> N. S. Wales, 1845, p. 288, t. 18, f. 7; <i>id.</i> M'Coy, <i>Annals Nat. Hist.</i> 1847, xx, p. 308; <i>id.</i> Dana, * <i>Geol. U. S. Expl. Expd.</i> p. 708, t. 10, f. 6; ? <i>B. undulatus</i> , <i>id. ibid.</i> p. 707, t. 10, f. 4; <i>ibid. id.</i> * <i>American Jour. Sc.</i> 1847, IV, p. 151; <i>B. micromphalus</i> , <i>Grange, Dumont-d'Urville's Voyage au Pole Sud, Géologie</i> , 1854, II, p. 89; <i>B. micromphalus</i> et ? <i>B. undulatus</i> , <i>Clarke, S. Goldfields</i> , 1860, p. 288; <i>Goniatites</i> , <i>de Koninck, Foss. Pal. Nouv.-Galles du Sud</i> , 1877, pt. 3, p. 339, t. 24, f. 5.	Illawara; Wollongong; Muree; Harper's Hill, <i>N. S. Wales</i> .
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## (Gephyalopoda.)

(Mid. and Up. Palæozoic.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
<i>G. strictus</i> , Dana.	U. Pal. (Carb.)	<i>Bellerophon</i> , *American Jour. Sc. 1847, iv. p. 151; <i>id.</i> *Geol. U. S. Explor. Exped. p. 707, t. 10, f. 5; <i>id.</i> Clarke, S. Goldfields, 1860, p. 288; <i>Goniatites</i> , de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 341.	Wollongong; Harper's Hill, N. S. Wales.
<i>G. Woodsii</i> , de Kon.	Mid. Pal. (L. Dev.).	*Foss. Pal. Nouv.-Galles du Sud, 1876, pt. 2, p. 130, Atlas, t. 4, f. 15.	Yaralumba, N. S. Wales.

Genus *Nautilus*, *Breynius*, 1732 (Dissert. de Polythal; S. P. Woodward, Man. Moll. 2nd ed. 1868, p. 185).—*Nautilidæ*.

<i>N. subsulcatus</i> , Phillips.	U. Pal. (Carb.)	*Geol. York. 1836, II. p. 233, t. 17, f. 18 and 25; J. de C. Sowerby, *Trans. Geol. Soc. 1840, v. t. 40, f. 7; de Koninck, *Descrip. Anim. Foss. Terr. Carb. Belgique, 1843, p. 548, t. 30, f. 6 a—d, t. 47, f. 9, t. 49, f. 4 a and b; <i>N. (Discites)</i> M'Coy, *Synop. Carb. Foss. Ireland, 1844, p. 19; de Koninck, *Mon. Foss. Carb. Bleiberg en Carinthie, 1873, p. 110, t. 4, f. 10; <i>id.</i> *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 345, t. 24, f. 4.	Karua, N. S. Wales.
<i>N. sp. ind.</i>	U. Pal. (Carb.)	M'Coy, Annals Nat. Hist. 1847, xx. p. 308.	Dunvegan, N. S. Wales.

Genus *Orthoceras*, *Breynius*, 1732 (see p. 26).—*Orthoceratidæ*.

<i>O. Martinianum</i> , de Koninck.	U. Pal. (Carb.)	*Descrip. Anim. Foss. Terr. Carb. Belgique, 1843, p. 505, t. 44, f. 4; ? <i>O. Martinianum</i> , *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 343, t. 24, f. 3.	Karua, N. S. Wales.
<i>O. striatum</i> , J. Sow.	U. Pal. (Carb.)	<i>Orthocera striata</i> , *Min. Con. 1814, I. p. 129, t. 58; <i>Orthoceras striatum</i> , M'Coy, Synop. Carb. Foss. Ireland, 1844, p. 8; <i>ibid.</i> <i>id.</i> (pars), *Brit. Pal. Foss. p. 405; de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 341, t. 24, f. 2.	Wollongong; Russell's Shaft, Stony Creek, N. S. Wales.
<i>O. subdimidiatum</i> , de Koninck.	Mid. Pal. (L. Dev.).	*Foss. Pal. Nouv.-Galles du Sud, 1876, p. 132, Atlas, t. 4, f. 14.	Yass, N. S. Wales.

Genus *Phragmoceras* (*Broderip*), J. de C. Sowerby, 1839. (Murchison's Sil. System, p. 621; S. P. Woodward, Man. Moll. 2nd ed. 1868, p. 194).—*Orthoceratidæ*.

<i>P. subtrigonum</i> , M'Coy.	Mid. Pal. (M. Dev.)	*Geol. Survey, Vict. Dec. iv. 1876, p. 18, t. 35, f. 6 a and b; Smyth's Progress Report, 1876, III. p. 62; Couchman's <i>ibid.</i> 1877, IV. p. 17.	Buchan, Vict.
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(Pisces.)

(Mid. and Up. Palæozoic.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
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*Sub-kingdom*—Vertebrata. *Class*—Pisces.

Genus **Asterolepis**, *Eichwald*, 1840. (Neues Jahrbuch, p. 425; Agassiz, Mon. Poiss. Foss. V. G. R. 1844, p. 89.)—*Ganoidei-Placodermata*.

<b>A. ornata</b> , <i>Agassiz</i> .	Mid. Pal. (M. Dev.)	<i>loc. cit.</i> p. 425 note; Agassiz, * <i>loc. cit.</i> p. 93, Atlas, t. 30, f. 2—9; Eichwald, *Placodermen d. Devon. Syst. 1857, p. 44, t. 5, f. 5—10, t. 9, f. 1—9!; <i>id.</i> * <i>Lethæa Rossica</i> , 1860, i. p. 1508, Atlas, t. 56, f. 1; M'Coy, in Smyth's Progress Report, 1876, iii. p. 62; <i>id.</i> Couchman's Progress Rep. 1877, iv. p. 17; <i>A. ornata</i> , var. <i>Australis</i> , M'Coy, *Geol. Survey, Vict. Dec. iv. 1876, p. 19, t. 35, f. 7 a and b.	Buchan R., <i>Vict.</i>
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Genus **Tomodus** (*Agassiz*, ms.), *Morris and Roberts*, 1862 (Quart. Jour. Geol. Soc. xviii. p. 101)—*Selachii-Cochliodontida*.

<b>T. convexus</b> , <i>Agassiz</i> .	U. Pal. (Carb.)	Agassiz (ms.), in <i>Morris and Roberts</i> , <i>loc. cit.</i> p. 101; Owen, *Geol. Mag. 1869, iv. p. 62, t. 4, f. 2—5; <i>Barkas and Davies</i> , Geol. Mag. Dec. 2, 1874, i. p. 548; de Koninck, *Foss. Pal. Nouv.-Galles du Sud, 1877, pt. 3, p. 354, t. 24, f. 11; ? <i>Cochliodus magnus</i> , (pars) Agassiz.	Tillegary, <i>N. S. Wales</i> .
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MESOZOIC.



(Plantæ.)

(Mesozoic.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
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Kingdom—Plantæ. Section—Cryptogamia. Class—Acotyledones.

Genus *Anarthrocanna*, Göppert, 1845. (Tehihatcheff's L'Altai Oriental, p. 379.)  
*Equisetaceæ.*

<i>A. Australis</i> , Dana.	L. Mes. (Up. Coal M. of N.S.Wales ? = Trias).	*Geol. U. S. Expl. Expd. p. 720, Atlas, t. 14, f. 13.	Mouth of Hunter River, Newcastle, N. S. Wales.
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Genus *Confervites*, Brongniart, 1828. (Hist. Vég. Foss. i. p. 35; *Confervides*, Schimper, Traité de Pal. Vég. 1869, i. p. 153.)—*Algales-Confervaceæ.*

<i>C. ? tenella</i> , Dana.	L. Mes. (Up. Coal M. of N.S.Wales ? = Trias).	*Geol. U. S. Expl. Expd. p. 720, Atlas, t. 14, f. 9.	N. S. Wales.
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Genus *Cyclopteris*, Brongniart, 1828. (Prodrome, p. 51; Histoire Vég. Foss. p. 215; Schimper, Traité de Pal. Vég. 1866, i. pp. 366 and 420.)—*Filices-Neuropteridæ.*

<i>C. angustifolia</i> , M'Coy.		Vide <i>Gangamopteris angustifolius</i> , M'Coy.	
<i>C. cuneata</i> , Carruthers.	L. Mes. (Up. Coal M. of Qu. Land ? = Trias).	*Quart. Jour. Geol. Soc. 1872, xxviii. p. 355, t. 27, f. 5; Feistmantel, Records Geol. Survey, India, 1876, ix. pt. 4, p. 123.	Tivoli Coal Mine, Qu.

Genus *Gangamopteris*, M'Coy, 1860. (Trans. R. Soc. Vict. v. p. 107 note; Geol. Survey, Vict. Dec. III. p. 11; Feistmantel, Records Geol. Survey, India, 1876, ix. pt. 3, p. 73.)—*Filices-Neuropteridæ.*

<i>G. angustifolius</i> , M'Coy.	L. Mes. (Bacchus Marsh Sandstone).	<i>Cyclopteris</i> , *Annals Nat. Hist. 1847, xx. p. 148, t. 9, f. 3; <i>id.</i> *Proc. R. Soc. V. D. Land, 1851, i. p. 306, t. 9, f. 3; <i>Cyclopteris</i> , Unger, *Genera et Spec. 1850, p. 95; <i>Gangamopteris</i> , Trans. R. Soc. Vict. 1860, v. p. 107; <i>id.</i> Annals Nat. Hist. 1867, xx. p. 198; <i>id.</i> Smyth's Progress Report, 1874, p. 34; <i>id.</i> *Geol. Survey, Vict. 1875, Dec. II. p. 11, t. 12, f. 1, t. 13, f. 2; <i>id.</i> Feistmantel, Rec. Geol. Survey, India, 1876, ix. pt. 4, p. 123.	Guntawang, N. S. Wales. Bacchus Marsh, Vict.
<i>G. longifolius</i> , M'Coy.	L. Mes. (Bacchus Marsh Sandstone).	Selwyn, Phys. Geog. Geol. and Miner. Vict. 1866, p. 16; <i>id.</i> Descript. Cat. National Mus. Melbourne, Geol. Survey, Vict. 1868, p. 51.	Bacchus Marsh, Vict.

(Plantæ.)

(Mesozoic.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
<i>G. obliqua</i> , M'Coy.	L. Mes. (Bacchus Marsh Sandstone).	Smyth's Progress Report, 1874, p. 34; *Geol. Survey, Vict. 1875, Dec. II. p. 13, t. 12, figs. 2—4; Feistmantel, Records Geol. Survey, India, 1876, IX. pt. 4, p. 123.	Bacchus Marsh, Vict.
<i>G. spatulata</i> , M'Coy.	L. Mes. (Bacchus Marsh Sandstone).	Smyth's Progress Report, 1874, p. 34; *Geol. Survey, Vict. Dec. II. 1875, p. 12, t. 13, f. 1; Feistmantel, Records Geol. Survey, India, 1876, IX. pt. 4, p. 123.	Bacchus Marsh, Vict.

Genus *Glossopteris*, Brongniart, 1828 (see p. 30).—*Filices*.

<i>G. ampla</i> , Dana.	L. Mes. (Up. Coal M. of N.S. Wales ? = Trias).	*Geol. U. S. Expl. Exp. p. 717, Atlas, t. 13, f. 1.	Newcastle and Illawara, N. S. Wales.
<i>G. Browniana</i> , Brongniart <sup>1</sup> .	L. Mes. (Up. Coal M. of N.S. Wales ? = Trias).	*Prodrome, 1828, p. 54; <i>G. Browniana</i> , var. <i>Australasiaca</i> , *Hist. Végét. Foss. 1828, I. p. 223, t. 62; Morris, Strzelecki's *Phys. Deser. N. S. Wales and V. D. Land, 1845, p. 247, t. 6, f. 1; M'Coy, *Annals Nat. Hist. 1847, XX. p. 150; <i>id.</i> *Proc. R. Soc. V. D. Land, 1851, I. p. 307; Dana, *Geol. U. S. Expl. Expd. p. 716, Atlas, t. 14, figs. 12? and 13; Plews, Mining Inst. Jour. 1858, VI. pt. 3, t. 3; Bunbury, Quart. Jour. Geol. Soc. 1860, XVI. p. 330, t. 9, figs. 1—4; Göppert, *Syst. Fil. Foss. p. 364, t. 21, figs. 9 and 10; Unger, Gen. et Spec. 1850, p. 169; Schimper, *Traité de Pal. Vég. 1869, I. p. 645; Carruthers, Quart. Jour. Geol. Soc. 1872, XXVIII. p. 354; M'Coy, Smyth's Progress Report, 1874, p. 24; <i>id.</i> Geol. Survey, Vict. Dec. I. 1874, p. 34; Clarke, Remarks Sed. Forms. N. S. Wales, 3rd ed. 1875, pp. 19—36; Feistmantel, Records Geol. Survey, India, 1876, IX. pt. 3, p. 72. <i>id.</i> <i>ibid.</i> IX. pt. 4, p. 124.	Newcastle; Jerry's Plain; Mulu-bimba; Illawara, N. S. Wales. Tasmania (M'Coy).
<i>G.?</i> <i>cordata</i> , Dana.	L. Mes. (Up. Coal M. of N.S. Wales ? = Trias).	*Geol. U. S. Expl. Expd. p. 718, Atlas, t. 13, f. 5.	Illawara, N. S. Wales.
<i>G. elongata</i> , Dana.	L. Mes. (Up. Coal M. of N.S. Wales ? = Trias).	*Geol. U. S. Expl. Expd. p. 718, Atlas, t. 13, f. 4.	Newcastle, N. S. Wales.

<sup>1</sup> See also p. 30.



## (Plantæ.)

## (Mesozoic.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
<i>G. linearis</i> , M <sup>c</sup> Coy.	L. Mes. (Up. Coal M. of N.S.Wales ?=Trias).	*Annals Nat. Hist. 1847, xx. p. 151, t. 9, f. 5; *Proc. R. Soc. V. D. Land, 1851, i. p. 308, t. 9, f. 5; Unger, Genera et Spec. 1850, p. 169.	Wollongong and Arowa, N. S. Wales.
<i>G. reticulatum</i> <sup>1</sup> , Dana.	L. Mes. (Up. Coal M. of N.S.Wales ?=Trias).	*Geol. U. S. Expl. Expd. p. 717, Atlas, t. 13, f. 1.	Newcastle and Pillawara, N. S. Wales.
Genus <i>Odontopteris</i> , Brongniart, 1828. (Prodrome, p. 60; Hist. Vég. Foss. p. 250; Schimper, Traité de Pal. Vég. 1869, i. p. 453.)— <i>Filices-Neuropteridæ</i> .			
<i>O. microphylla</i> , M <sup>c</sup> Coy.	L. Mes. (Wianamatta beds of N.S.Wales ?=Trias).	*Annals Nat. Hist. 1847, xx. p. 147; *Proc. R. Soc. V. D. Land, 1851, i. p. 305; Unger, Genera et Spec. 1850, p. 90; Clarke, S. Goldfields, 1860, p. 285; <i>id.</i> Remarks Sed. Forms. N. S. Wales, 3rd ed. 1875, p. 41.	Clark's Hill, N. S. Wales.
Genus <i>Otopteris</i> , Lindley and Hutton, 1833? (Fossil Flora, ii. p. 129; Schimper, Traité de Pal. Vég. 1869, i. p. 483.)— <i>Filices-Neuropteridæ</i> .			
<i>O. ovata</i> , M <sup>c</sup> Coy.	L. Mes. (Up. Coal M. of N.S.Wales ?=Trias).	*Annals Nat. Hist. 1847, xx. p. 148, t. 9, f. 2; *Proc. R. Soc. V. D. Land, 1851, i. p. 303, t. 9, f. 2; <i>Odontopteris</i> , Unger, Genera et Spec. 1850, p. 89; Plews, Mining Inst. Jour. 1858, vi. pt. 3, t. 3.	Arowa, N. S. Wales.
Genus <i>Pecopteris</i> , Brongniart, 1828. (Prodrome, p. 54; Hist. Vég. Foss. p. 267; Schimper, Traité de Pal. Vég. 1869, i. p. 498.)— <i>Filices-Pecopteridæ</i> .			
<i>P. Australis</i> , Morris.	L. Mes. (Up. Coal M. of N.S.Wales; Bellarine bedsof Vict. ?=Trias).	Strzelecki's *Phys. Descr. N. S. Wales and V. D. Land, 1845, p. 248, t. 7, figs. 1 and 2; M <sup>c</sup> Coy, Annals Nat. Hist. 1862, ix. p. 143; <i>id.</i> <i>ibid.</i> 1867, xx. p. 197; <i>Alethopteris</i> , Schimper, *Traité de Pal. Végét. 1869, i. p. 569; <i>Pecopteris</i> , M <sup>c</sup> Coy, Smyth's Progress Rept. 1874, pp. 24 and 35; <i>id.</i> Geol. Survey, Vict. Dec. i. 1874, p. 34; <i>id.</i> <i>ibid.</i> *Dec. ii. 1875, p. 16, t. 14, f. 3; <i>Pecopteris</i> , Feistmantel, Records Geol. Survey, India, 1876, ix. pt. 4, p. 123; ?= <i>Alethopteris Whitbyensis</i> (Göpp.), Feistmantel, Pal. Indica, 1876, xi. p. 24; <i>Alethopteris Australis</i> , <i>id.</i> <i>ibid.</i> ser. ii. no. 2, 1877, p. 89.	Jerusalem Basin, Tas. Bellarine, Vict.

<sup>1</sup> In the character of its reticulation, this form closely resembles the second figure of *G. Browniana*, given by Brongniart (*l. c.* t. 62, f. 2). Dana.

(Plantæ.)		(Mesozoic.)	
Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
<i>P. odontopteroides</i> , <i>Morris</i> .	L. Mes. (Up. Coal M. of Q. Land). L. Mes. (Wianamatta beds of N.S. Wales ? Trias).	Strzelecki's *Phys. Descrip. N. S. Wales, 1845, p. 249, t. 6, f. 2—4; <i>Gleichenites</i> , M'Coy, *Annals Nat. Hist. 1847, xx. p. 147; <i>id. ibid.</i> *Proc. R. Soc. V. D. Land, 1851, i. p. 305; <i>id.</i> Milligan, Proc. R. Soc. V. D. Land, 1851, i. p. 24; <i>id.</i> Unger, *Gen. et Sp. 1850, p. 208; <i>Cycadopteris</i> , Schimper, *Traité de Pal. Vég. 1869, i. p. 488; <i>Alethopteris?</i> * <i>id. ibid.</i> p. 569; <i>Pecopteris</i> , Carruthers, *Quart. Jour. Geol. Soc. 1872, xxviii. p. 355, t. 27, f. 2 and 3; <i>Gleichenites</i> , Clarke, Remarks Sed. Forms. N. S. Wales, 1875, 3rd ed. p. 41; <i>Odontopteris</i> , Crepin, *Bull. de l'Acad. R. Belgique, 1875, xxxix. p. 258, f. 1—5; <i>Pecopteris (Thinnfeldia?)</i> , Feistmantel, Records Geol. Survey, India, 1876, ix. pt. 4, pp. 123, 124.	Clark's Hill, N. S. Wales. Jerusalem Basin and Whale's Head, Tas. Tivoli Coal Mine, Qu.
<i>P. ?tenuifolia</i> , M'Coy.	L. Mes. (Wianamatta beds of N.S. Wales ? = Trias).	*Annals Nat. Hist. 1847, xx. p. 152, t. 9, f. 6; *Proc. R. Soc. V. D. Land, 1851, i. p. 308, t. 9, f. 6; Clarke, S. Goldfields, 1860, p. 285; <i>id.</i> Remarks Sed. Forms. N. S. Wales, 3rd ed. 1875, p. 41.	Clark's Hill, N. S. Wales.
<i>P. sp. ind.</i>	L. Mes.	M'Coy, in Selwyn's Progress Rep. Geol. Survey, Vict. 1861—62, t. 3.	Victoria.

Genus *Phyllothea*, Brongniart, 1828. (Prodrome, p. 151; Schimper, Traité de Pal. Vég. i. p. 288.)—*Equisetacea?*

<i>P. Australis</i> , Brong.	L. Mes. (Up. Coal M. of N.S. Wales; Cape Patterson beds of Victoria ? = Trias).	*Prodrome, 1828, p. 152; Morris, Strzelecki's *Phys. Descr. N. S. Wales and V. D. Land, 1845, p. 250; Lindley and Hutton, Foss. Flora, 1833—35, ii. p. 89; M'Coy, *Annals Nat. Hist. 1847, xx. p. 156; <i>id.</i> *Proc. R. Soc. V. D. Land, 1851, i. p. 312; Dana, *Geol. U. S. Expl. Expd. p. 718, Atlas, t. 13, f. 6, t. 14, f. 1; Clarke, S. Goldfields, 1860, p. 285; Selwyn, Phys. Geog. Geol. Mineral, Vict. 1866, p. 20; Unger, Gen. et Spec. 1850, p. 73; de Zigno, *Fl. Foss. Form. Ool. 1856—68, i. p. 55; M'Coy, Annals Nat. Hist. 1867, xx. p. 196; Schimper, *Traité Pal. Vég. 1869, i. p. 289; M'Coy,	Newcastle, N. S. Wales. Cape Patterson, Vict.
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(Plantæ.)

(Mesozoic.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
<i>P. Hookeri</i> , <i>M'Coy</i> .	L. Mes. (Up. Coal M. of N.S.Wales ?=Trias).	Westernport Coal-fields Rept. 1872, p. 6; <i>id.</i> Smyth's Progress Report, 1874, pp. 24 and 35; Feistmantel, Records Geol. Sur. India, ix. pt. 4, p. 124. *Annals Nat. Hist. 1847, xx. p. 157, t. 11, figs. 4—7; *Proc. R. Soc. V. D. Land, 1851, i. p. 313, t. 11, figs. 4—7; Plews, Mining Inst. Jour. 1858, vi. pt. 3, t. 3; Clarke, S. Goldfields, 1860, p. 285; de Zigno, *Fl. Foss. Form. Ool. 1856—68, i. p. 59; Schimper, *Traité Pal. Vég. 1869, i. p. 289; Unger, Genera et Spec. 1850, p. 73.	Mulubimba; Clark's Hill, and Arowa, <i>N. S. Wales</i> .
<i>P. ramosa</i> , <i>M'Coy</i> .	L. Mes. (Up. Coal M. of N.S.Wales ?=Trias).	*Annals Nat. Hist. 1847, xx. p. 156, t. 11, figs. 2 and 3; *Proc. R. Soc. V. D. Land, 1851, i. p. 312, t. 11, figs. 2 and 3; Plews, Mining Inst. Jour. 1858, vi. pt. 3, t. 3; Clarke, S. Goldfields, 1860, p. 285; Unger, Genera et Spec. 1850, p. 73; de Zigno, *Fl. Foss. Form. Ool. 1856—68, i. p. 57; Schimper, *Traité de Pal. Vég. 1869, i. p. 289.	Mulubimba, <i>N. S. Wales</i> .

Genus *Sphenopteris*<sup>1</sup>, *Brongniart*, 1828 (see p. 32).—*Filices-Sphenopteridæ*.

<i>S. alata</i> , <i>Brongniart</i> .	L. Mes. (Up. Coal M. of N.S.Wales ?=Trias).	<i>Pecopteris</i> , *Hist. Vég. Foss. 1828, i. p. 361, t. 127; <i>Sphenopteris alata</i> , var. <i>exilis</i> , Morris, Strzelecki's *Phys. Deser. N. S. Wales and V. D. Land, 1845, p. 246, t. 7, f. 4; <i>S. alata</i> , <i>M'Coy</i> , Annals Nat. Hist. 1847, xx. p. 149; <i>id. ibid.</i> Proc. R. Soc. V. D. Land, 1851, i. p. 306; Schimper, *Traité de Pal. Vég. 1869, i. p. 411; Clarke, Remarks Sed. Forms, N. S. Wales, 3rd ed. 1875, p. 41.	Newcastle and Mulubimba, <i>N. S. Wales</i> .
<i>S. elongata</i> , <i>Carruthers</i> .	L. Mes. (Up. Coal M. of Q. Land ?=Trias).	*Quart. Jour. Geol. Soc. 1872, xxviii. p. 355, t. 27, f. 1.	Tivoli Coal Mine, <i>Qu.</i>
<i>S. flexuosa</i> , <i>M'Coy</i> .	L. Mes. (Up. Coal M. of N.S.Wales ?=Trias).	*Annals Nat. Hist. 1847, xx. p. 150, t. 9, f. 4; *Proc. R. Soc. V. D. Land, 1851, i. p. 307, t. 9, f. 4; Plews, Mining Inst. Jour. 1858,	Mulubimba, <i>N. S. Wales</i> .

<sup>1</sup> The Rev. W. B. Clarke mentions in his *Southern Goldfields*, p. 285, the occurrence of *S. linearis* in New South Wales, but does not give the author of the species. In the *Mining Institution Journal*, vi. pt. 3, pl. 3, Mr H. F. Plews figures a fern under the name of *S. macilentæ*? also without the name of the author. Both these names have been given to British Carboniferous species, but whether identical species are meant I am unable to say.

(Plantæ.)

(Mesozoic.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
<i>S. germanus</i> , <i>M'Coy</i> .	L. Mes. (Up. Coal M. of N.S.Wales ?=Trias).	vi. pt. 3, t. 3; Clarke, S. Goldfields, 1860, p. 285; Schimper, *Traité de Pal. Vég. 1869, i. p. 411; Unger, Gen. et Spec. 1850, p. 127. *Annals Nat. Hist. 1847, xx. p. 150, t. 10, f. 2; *Proc. R. Soc. V. D. Land, 1851, i. p. 307, t. 10, f. 2; Unger, Gen. et Spec. 1850, p. 127; Schimper, *Traité de Pal. Vég. 1869, i. p. 411.	Mulubimba, N. S. Wales.
<i>S. hastata</i> , <i>M'Coy</i> .	L. Mes. (Up. Coal M. of N.S.Wales ?=Trias).	*Annals Nat. Hist. 1847, xx. p. 149, t. 10, f. 1; *Proc. R. Soc. V. D. Land, 1851, i. p. 306, t. 10, f. 1; Plews, Mining Inst. Jour. 1858, vi. pt. 3, t. 3; Unger, Gen. et Spec. 1850, p. 127; Schimper, *Traité de Pal. Vég. 1869, i. p. 410.	Mulubimba, N. S. Wales.
<i>S. lobifolia</i> , <i>Morris</i> .	L. Mes. (Up. Coal M. of N.S.Wales ?=Trias).	Strzelecki's *Phys. Descr. N. S. Wales and V. D. Land, 1845, p. 246, t. 7, f. 3; M'Coy, Annals Nat. Hist. 1847, xx. p. 149; <i>id.</i> Proc. R. Soc. V. D. Land, 1851, i. p. 306; Dana, *Geol. U. S. Expl. Expd. p. 715, Atlas, t. 12, f. 12.	Newcastle and Mulubimba, N. S. Wales.
<i>S. plumosa</i> , <i>M'Coy</i> .	L. Mes. (Up. Coal M. of N.S.Wales ?=Trias).	*Annals Nat. Hist. 1847, xx. p. 150, t. 10, f. 3; *Proc. R. Soc. V. D. Land, 1851, i. p. 307, t. 10, f. 3; Unger, Gen. et Spec. 1850, p. 127; Schimper, *Traité de Pal. Vég. 1869, i. p. 411.	Mulubimba, N. S. Wales.
<i>S. sp. ind.</i>	L. Mes.	M'Coy, Selwyn's Geol. Survey Rept. Vict. 1861—62, t. 3; Wilkinson, Geol. Report Cape Otway Dist. 1865, p. 22; Smyth's Progress Report, 1874, p. 35.	Wild Dog Creek, Apollo Bay, Vict.

Genus *Tæniopteris*, *Brongniart*, 1828. (Prodrôme, p. 61; Hist. Vég. Fos. p. 262; Schimper, Traité de Pal. Vég. i. p. 600.)—*Filices-Tæniopteridæa*.

<i>T. Daintreei</i> , <i>M'Coy</i> .	L. Mes. (Bellarine and Cape Patterson beds of Vict.). L. Mes. (Up. Coal M. of Qu. Land, ?=Trias).	Trans. Roy. Soc. Vict. 1860, v. pp. 196 and 215; Ex. Essay, 1861, p. 166; Hochstetter, Verhandl. K. K. Geol. Reichsanstalt (Jahrb. 1861, xii.), p. 28; M'Coy, Annals Nat. Hist. 1862, ix. p. 143; <i>ibid.</i> 1867, xx. p. 196; Wilkinson, Geol. Report Cape Otway Dist. 1865, p. 22; Caruthers, *Quart. Journ. Geol. Soc. 1872, xxviii. p. 355, t. 27, f. 6; M'Coy, Westernport Coalfields Report, 1872, p. 6; <i>id.</i>	Bellarine; Barra-bool Hills; Cape Patterson; Strzelecki Range; Murundal, Vict. Tivoli Coal Mine, Qu.
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(Plantæ.)

(Mesozoic.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
		Smyth's Progress Report, 1874, p. 35; <i>id.</i> *Geol. Survey, Vict. 1875, Dec. II. p. 15, t. 14, figs. 1 and 2; Feistmantel, Records Geol. Survey, India, ix. pt. 4, pp. 123, 124; <i>id.</i> Pal. Indica, ser. II. no. 2, 1877, p. 95.	
Genus <i>Vertebraria</i> <sup>1</sup> (Royle), <i>M'Coy</i> , 1847. (Annals Nat. Hist. xx. p. 145.) <i>Marsillaceæ</i> or <i>Equisetaceæ</i> ?			
V. Australis, <i>M'Coy</i> .	L. Mes. (Up. Coal M. of N.S. Wales ? = Trias).	*Annals Nat. Hist. 1847, xx. p. 147, t. 9, f. 1; <i>Sphenophyllum</i> , Unger, Genera et Spec. 1850, p. 72; <i>Vertebraria</i> , <i>M'Coy</i> , *Proc. R. Soc. V. D. Land, 1851, I. p. 304, t. 9, f. 1; <i>id.</i> Plews, Mining Inst. Jour. 1858, VI. pt. 3, t. 3; <i>id.</i> Clarke, S. Goldfields, 1860, p. 285; <i>Sphenophyllum</i> , <i>id.</i> Quart. Jour. Geol. Soc. 1861, XVII. p. 359.	Mulubimba, N. S. Wales.

## Section—Phanerogamia. Class—Monocotyledones (Endogenes).

? Genus *Endogenophyllites* (? *M'Coy*, ms.).

E. Wellingtonensis, <i>M'Coy</i> (ms.).		Wintle, Monthly Notices R. Soc. Tas. 1869—70, p. 2.	Mount Wellington, Tas.
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Genus *Zeugophyllites*, *Brongniart*, 1828. (Prodrome, p. 121; Schimper, *Traité de Pal. Vég.* II. 504.)—*Palmaceæ*.

Z. elongatus, <i>Morris</i> .	L. Mes. (Up. Coal M. of N.S. Wales and Tas. ? = Trias).	Strzelecki's *Phys. Descr. N. S. Wales and V. D. Land, 1845, p. 250, t. 6, figs. 5 and 5 a; <i>M'Coy</i> , Annals Nat. Hist. 1847, xx. p. 152; <i>id.</i> Proc. R. Soc. V. D. Land, 1851, I. p. 309; <i>Neggerathia</i> , Dana, *Geol. U. S. Expl. Expd. p. 715; <i>id.</i> Clarke, Quart. Jour. Geol. Soc. 1861, XVII. p. 359; <i>Zeugophyllites</i> , Schimper, *Traité de Pal. Vég. 1869, I. p. 505; <i>id.</i> Unger, Gen. et Spec. 1850, p. 332; <i>Cordaites</i> ? Crepin, *Bull. de l'Acad. R. Belgique, 1875, XXXIX. p. 265.	Mulubimba, N. S. Wales. Jerusalem Basin, Tas.
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## Class—Dicotyledones (Exogenes).

Genus *Bunyalites*, *M'Coy* (ms.), 1874. (Geol. Survey, Vict. Dec. I. pp. 32 and 34.)

B. sp. ind.	L. Mes. (Bellarine beds).	<i>M'Coy</i> , l. c.	Bellarine, Vict.
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<sup>1</sup> *Vertebraria* was proposed but not described by Royle in his *Illustrations of the Botany of the Himalaya Mountains*. (*M'Coy*.)

(Plantæ.)		(Mesozoic.)	
Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
Genus <b>Cardiocarpum</b> <sup>1</sup> , <i>Brongniart</i> , 1828. (Prodrome, p. 87; <i>Antholithus</i> , Schimper, <i>Traité de Pal. Vég.</i> iii. p. 564; <i>Cardiocarpon</i> , <i>Carruthers</i> , <i>Geol. Mag.</i> 1872, ix. p. 55; = <i>Antholithes</i> , L. & H.)— <i>Gymnosperma</i> ?			
<i>C. Australe</i> , <i>Carruthers</i> .	L. Mes. (Up. Coal M. of Q. Land).	* <i>Quart. Jour. Geol. Soc.</i> 1872, xxviii. p. 356, t. 27, f. 4.	Tivoli Coal Mine, Qu.
Genus <b>Næggerathia</b> , <i>Sternberg</i> .— <i>Cycadaceæ</i> ?			
<i>N. media</i> , <i>Dana</i> .	L. Mes. (Up. Coal M. of N.S. Wales ? = Trias).	* <i>Geol. U. S. Expl. Exped.</i> p. 715, Atlas, t. 12, f. 10.	Hunter River, N. S. Wales.
<i>N. spatulata</i> , <i>Dana</i> .	L. Mes. (Up. Coal M. of N.S. Wales ? = Trias).	* <i>Geol. U. S. Expl. Exped.</i> p. 715, Atlas, t. 12, f. 9; <i>Clarke</i> , <i>S. Goldfields</i> , 1860, p. 285.	Illawara, N. S. Wales.
Genus <b>Zamites</b> , <i>Brongniart</i> , 1828. (Prodrome, p. 94; Schimper, <i>Traité de Pal. Vég.</i> ii. p. 151; <i>Feistmantel</i> , <i>Pal. Indica</i> , 1877, ser. i. no. 2, p. 114.)— <i>Cycadaceæ</i> .			
<i>Z. Barklyi</i> , <i>M'Coy</i> .	L. Mes. (Bellarine beds).	Ex. Essay, 1861, p. 165; <i>Annals Nat. Hist.</i> 1862, ix. p. 143; <i>Selwyn's Geol. Survey, Vict. Rept.</i> 1861—62, t. 2; <i>Annals Nat. Hist.</i> 1867, xx. p. 196; <i>Smyth's Progress Rept.</i> 1874, p. 35; <i>Z. (Podozamites)</i> , * <i>Geol. Survey, Vict. Dec.</i> 1874, i. p. 33, t. 8, figs. 1, 2 and 5.	Bellarine, Vict.
<i>Z. ellipticus</i> , <i>M'Coy</i> .	L. Mes. (Bellarine beds).	Ex. Essay, 1861, p. 165; <i>Annals Nat. Hist.</i> 1862, ix. p. 143; <i>Selwyn's Geol. Survey, Vict. Rept.</i> 1861—62, t. 3; <i>Annals Nat. Hist.</i> 1867, xx. p. 196; <i>Smyth's Progress Rept.</i> 1874, p. 35; <i>Z. (Podozamites)</i> , * <i>Geol. Survey, Vict. Dec.</i> 1874, i. p. 35, t. 8, f. 4.	Bellarine, Vict.
<i>Z. longifolius</i> , <i>M'Coy</i> (non <i>Brong.</i> ).	L. Mes. (Bellarine beds).	Ex. Essay, 1861, p. 165; <i>Annals Nat. Hist.</i> 1862, ix. p. 143; <i>Selwyn's Geol. Survey, Vict. Rept.</i> 1861—62, t. 2; <i>Annals Nat. Hist.</i> 1867, xx. p. 196; <i>Smyth's Progress Rept.</i> 1874, p. 35; * <i>Geol. Survey, Vict. Dec.</i> i. 1874, p. 35, t. 8, f. 3.	Bellarine, Vict.

Kingdom—Animalia. Sub-kingdom—Protozoa. Class—Rhizopoda.  
Order—Foraminifera.

Genus **Cristellaria**, *Lamarck*, 1812. (Restricted by d'Orbigny, 1826, *Ann. Sc. Nat.* vii. p. 290, including *Robulina*, d'Orbigny, loc. cit. p. 287.)  
*Perforata-Lagenida*.

<i>C. acutaureicularis</i> , <i>Fichtel</i> and <i>Moll</i> .	Up. Oolite.	<i>Nautilus</i> , * <i>Testacea Microscop.</i> 1803, p. 102, t. 18, figs. g—i;	Wollumbilla, Qu.
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<sup>1</sup> Written *Cardiocarpon* by *Brongniart*.

## (Rhizopoda.)

## (Mesozoic.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
<i>C. cultrata</i> , Montfort. (var. of <i>C. calcar</i> . Linn. ?).	Up. Oolite.	<p><i>Cristellaria</i>, d'Orb. *Ann. Sc. Nat. 1826, VII. p. 292; <i>id.</i> Parker and Jones, Annals Nat. Hist. 1860, v. pp. 114, 183; Moore, Quart. Jour. Geol. Soc. 1870, XXVI. p. 239; var. <i>longicostata</i>, <i>id.</i> *<i>ibid.</i> p. 242.</p> <p><i>Robulus</i>, *Conch. Systémat. 1808, I. pp. 214, 215, no. 54; <i>Robulina</i>, d'Orb.*Ann. Sc. Nat. 1826, VII. p. 287; <i>id.</i> *Foram. Foss. Tert. Vien. 1846, p. 96, t. 4, figs. 10—13; <i>Cristellaria</i>, Parker and Jones, Annals Nat. Hist. 1860, VI. pp. 343, 347; <i>id. ibid.</i> 1863, XII. p. 436; Parker, Jones, and Brady, <i>ibid.</i> 1865, XVI. pp. 32, 35, t. 1, f. 39; <i>id.</i> Moore, Quart. Jour. Geol. Soc. 1870, XXVI. p. 232; var. <i>radiata</i>, <i>id. ibid.</i> p. 242; <i>C. cultrata</i>, Parker, Jones, and Brady, Annals Nat. Hist. 1871, VIII. pp. 240, 265, t. 10, f. 84.</p>	Wollumbilla, Qu.

Genus *Dentalina*, d'Orbigny, 1826. (Ann. Sc. Nat. VII. p. 254.)  
*Perforata-Lagenida*.

<i>D. communis</i> , d'Orb.	Up. Oolite.	<p><i>loc. cit.</i>; *Mém. Soc. Géol. France, 1840, IV. p. 13, t. 1, f. 4; Jones, Parker, and Brady, *Mon. Crag. Foram. 1866, p. 57, t. 1, figs. 13—18, 20, t. 4, f. 10; Annals Nat. Hist. 1871, VIII. p. 158, t. 9, f. 46; Moore, Quart. Jour. Geol. Soc. 1870, XXVI. p. 239.</p>	Wollumbilla, Qu.
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Genus *Planorbulina*, d'Orbigny, 1826. (Ann. Sc. Nat. VII. p. 280.)  
*Perforata-Globigerinidæ*.

<i>P. lobatula</i> , d'Orb.	Up. Oolite.	<p><i>Serpula lobata</i>, Montagu, Test. Brit. t. 3, f. 57; <i>Truncatulina tuberculata</i>, d'Orb. *Ann. Sc. Nat. VII. p. 279; <i>T. lobatula</i>, d'Orb. *Foram. Foss. Tert. Vien. 1846, p. 168, t. 9, figs. 18—23; <i>Planorbulina (Truncatulina) lobatula</i>, Parker and Jones, Annals Nat. Hist. 1859, IV. pp. 339, 341; Parker, Jones, and Brady, <i>ibid.</i> 1865, XVI. t. 2, f. 77; <i>id. ibid.</i> 1871, VIII. pp. 176, 266, t. 12, f. 136; <i>P. farcata</i> (F. and M.), var.</p>	Wollumbilla, Qu.
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## (Rhizopoda.)

## (Mesozoic.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
<i>P. Ungeriana</i> , <i>d'Orb.</i>	Up. Oolite.	<i>(Truncatulina) lobatula</i> , Parker and Jones, *Phil. Trans. 1865, clv. p. 381, t. 14, figs. 3—6, t. 16, f. 18—20; <i>P. lobatula</i> , Moore, Quart. Jour. Geol. Soc. 1870, xxvi. p. 239. <i>Rotalia</i> , *Foram. Foss. Tert. Vien. 1846, p. 159, t. 8, figs. 16—18; <i>P. farcata</i> (F. and M.), var. <i>Ungeriana</i> , Parker and Jones, *Phil. Trans. 1865, clv. p. 382, t. 16, figs. 23—25; <i>P. Ungeriana</i> , Moore, Quart. Jour. Geol. Soc. 1870, xxvi. p. 239.	Wollumbilla, <i>Qu.</i>

Genus **Polymorphina**, *d'Orbigny*, 1826. (Ann. Sc. Nat. vii. p. 265.)  
*Perforata-Lagenida.*

<i>P. gibba</i> , <i>d'Orb.</i>	Up. Oolite.	<i>Globulina</i> , * <i>l. c.</i> p. 266; Parker, Jones, and Brady, Annals Nat. Hist. 1865, xvi. p. 29, t. 2, f. 52; Brady, Parker, and Jones, *Trans. Linn. Soc. 1870, xxvii. p. 216, t. 39, f. 2 (for synonymy); Moore, Quart. Jour. Geol. Soc. 1870, xxvi. p. 239.	Wollumbilla, <i>Qu.</i>
<i>P. lactea</i> , <i>Walker and Jacob.</i>	Up. Oolite.	Parker and Jones, Annals Nat. Hist. 1859, iv. pp. 336, 341; Brady, Parker, and Jones, *Trans. Linn. Soc. 1870, xxvii. p. 213, t. 39, f. 1 (for synonymy); Moore, Quart. Jour. Geol. Soc. 1870, xxvi. p. 239.	Wollumbilla, <i>Qu.</i>

Genus **Vaginulina**, *d'Orbigny*, 1826. (Ann. Sc. Nat. vii. p. 257.)  
*Perforata-Lagenida.*

<i>V. striata</i> , <i>d'Orb.</i>	Up. Oolite.	<i>loc. cit.</i> p. 257; Moore, Quart. Jour. Geol. Soc. 1870, xxvi. p. 239; Parker, Jones, and Brady, Annals Nat. Hist. 1871, viii. p. 162, t. 9, f. 58.	Wollumbilla, <i>Qu.</i>
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## Order—Spongida.

Genus **Purisiphonia**, *Bowerbank*, 1870. (Quart. Jour. Geol. Soc. xxvi. p. 240.)  
*Silicea.*

<i>P. Clarkei</i> , <i>Bowerb.</i>	Up. Oolite.	<i>loc. cit.</i> p. 241, t. 17, f. 1; Sollas, Annals Nat. Hist. 1877, xv. p. 288.	Wollumbilla, <i>Qu.</i>
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## (Echinodermata—Brachiopoda.)

(Mesozoic.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
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*Sub-kingdom*—Annuloida. *Class*—Echinodermata.

Genus **Pentacrinus**, Miller, 1821. (Nat. Hist. Crinoidea, p. 45.)  
*Crinoidea-Pentacrinidae.*

P. Australis, Moore.	Up. Oolite.	*Quart. Jour. Geol. Soc. 1870, xxvi. p. 243, t. 17, f. 3, t. 18, f. 1.	Mitchell Downs, Amby River; ?Wollumbilla, Qu.
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*Sub-kingdom*—Annulosa. *Class*—Annelida.

Genus **Serpula**, Linnaeus, 1758. (Systema, ed. 10, p. 786.)—*Tubicola.*

S. intestinalis, Phil.	Up. Oolite.	*Geol. York. 1829, r. p. 138, t. 5, f. 21; Moore, Quart. Jour. Geol. Soc. 1870, xxvi. p. 239.	Queensland.
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*Sub-kingdom*—Mollusca. *Section*—Molluscoida. *Class*—Polyzoa.

Genus **Lepralia**, Johnston, 1838 (Hist. Brit. Zoophytes, p. 277) = *Berenicea*, Flem. (non Lamx).—*Cheilostomata-Membraniporidae.*

L. Oolitica, Moore.	Up. Oolite.	*Quart. Jour. Geol. Soc. 1870, xxvi. p. 243, t. 17, f. 2.	Wollumbilla, Qu.
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*Class*—Brachiopoda.

Genus **Argiope**, Deslongchamps, 1842 (Méms. Soc. Linn. Normandie, vii. p. ix.<sup>1</sup> Davidson, Introduction, p. 72) = *Megathyris*, d'Orbigny.—*Clitenterata-Terebratulidae.*

A. punctata, Moore.	Up. Oolite.	*Quart. Jour. Geol. Soc. 1870, xxvi. p. 244, t. 10, f. 6.	Wollumbilla, Qu.
A. Wollumbillaensis, Moore.	Up. Oolite.	*Quart. Jour. Geol. Soc. 1870, xxvi. p. 243, t. 10, figs. 3—5.	Wollumbilla, Qu.

Genus **Discina**, Lamarck, 1819 (see p. 48).—*Tretenterata-Discinidae.*

D. apicalis, Moore.	Up. Oolite.	*Quart. Jour. Geol. Soc. 1870, xxvi. p. 244, t. 10, f. 13.	Wollumbilla, Qu.
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*Note.* A Ventriculite is recorded by Mr F. T. Gregory, from the Greenough River, West Australia (*Quart. Jour. Geol. Soc.* xvii. p. 483). The siliceous cast of a Chalk *Micraster* was recognised by Mr Charles Moore, in a collection of fossils in the Exhibition of 1862, from the Greenough Flats, West Australia (*ibid.* xxvi. p. 28), and a species of Entomostraca from another West Australian collection (*l. c.* p. 231). In the Wollumbilla collection, scars on the interior of a *Panopæa* enabled Mr Moore to surmise the occurrence of *Cirripedes* in Australian Oolitic rocks (*l. c.* p. 243).

<sup>1</sup> The genus was proposed here, but not described.

## (Brachiopoda—Pelecypoda.)

(Mesozoic.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
Genus <i>Lingula</i> , <i>Bruguère</i> , 1789 <sup>1</sup> (see p. 49).— <i>Tretenterata-Lingulidæ</i> .			
<i>L. ovalis</i> , <i>J. Sowerby</i> .	Up. Oolite.	*Min. Con. i. p. 56, t. 19, f. 4; Moore, Quart. Jour. Geol. Soc. 1870, xxvi. p. 240.	Wollumbilla, Qu.
Genus <i>Rhynchonella</i> , <i>Fischer</i> , 1809 (vide p. 21).— <i>Clistenterata-Rhynchonellidæ</i> .			
<i>R. rustica</i> , <i>Moore</i> .	Up. Oolite.	*Quart. Jour. Geol. Soc. 1870, xxvi. p. 245, t. 10, figs. 7—9.	Wollumbilla, Qu.
<i>R. solitaria</i> , <i>Moore</i> .	Up. Oolite.	*Quart. Jour. Geol. Soc. 1870, xxvi. p. 245, t. 10, fig. 10.	Wollumbilla, Qu.
<i>R. variabilis</i> , <i>Schlot-heim</i> .	Oolite.	Davidson, *Brit. Ool. Brach. 1851, p. 78, t. 15, figs. 8—10, t. 16, f. 1—6, Clarke, Quart. Jour. Geol. Soc. 1867, xxiii. p. 8; Moore, <i>ibid.</i> 1870, xxvi. pp. 231, 232.	W. Australia.

Genus *Terebratella*, *d'Orbigny*, 1847. (Comptes Rendus, xxv. p. 269; Pal. Franç. Ter. Crét. 1847, iv. p. 110, Davidson, Introduction, p. 65.)—*Clistenterata-Terebratulidæ*.

<i>T. Davidsoni</i> , <i>Moore</i> .	Up. Oolite.	*Quart. Jour. Geol. Soc. 1870, xxvi. p. 245, t. 10, figs. 1 and 2.	Wollumbilla, Qu.
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## Section—Mollusca proper.

## Class—Pelecypoda (Lamellibranchiata, or Conchifera).

Genus *Arca*, *Linnaeus*, 1758. (See p. 62.)

<i>A. plicata</i> , <i>Moore</i> .	Up. Oolite.	*Quart. Jour. Geol. Soc. 1870, xxvi. p. 249, t. 12, f. 6.	Wollumbilla, Qu.
<i>A. prælonga</i> , <i>Moore</i> .	Up. Oolite.	*Quart. Jour. Geol. Soc. 1870, xxvi. p. 249, t. 14, f. 7.	Wollumbilla, Qu.

Genus *Astarte*, *Sowerby*, 1816 (see p. 63).—*Lucinacea-Astartidæ*.

<i>A. apicalis</i> , <i>Moore</i> .	Oolite.	*Quart. Jour. Geol. Soc. 1870, xxvi. p. 249, t. 13, f. 11.	Greenough Dist. W. Australia.
<i>A. Cliftoni</i> , <i>Moore</i> .	Oolite.	*Quart. Jour. Geol. Soc. 1870, xxvi. p. 249, t. 13, f. 10.	Greenough Dist. W. Australia.
<i>A. Wollumbillaensis</i> , <i>Moore</i> .	Up. Oolite.	*Quart. Jour. Geol. Soc. 1870, xxvi. p. 250, t. 12, f. 12.	Wollumbilla, Qu.

<sup>1</sup> The genus *Lingula* was figured by Bruguère in the Atlas of the *Encyclopédie Méthodique*, but not described.

## (Pelecypoda.)

## (Mesozoic.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
Genus <i>Atomodesma</i> , <i>Beyrich</i> , 1865. (Abhandl. K. Akad. Wissen. Berlin, xxxvi. p. 71.)			
<i>A. exarata</i> , <i>Beyrich</i> .	L. Mesozoic (Trias?).	* <i>loc. cit.</i> p. 71, t. 3, f. 4 <i>a</i> and <i>b</i> .	Timor.
<i>A. mytiloides</i> , <i>Beyrich</i> .	L. Mesozoic (Trias?).	* <i>loc. cit.</i> p. 71, t. 3, f. 3.	Timor.

Genus *Avicula*, *Klein*, 1753 (see p. 64).—*Mytilacea-Aviculidæ*.

<i>A. æqualis</i> , <i>Moore</i> .	Up. Oolite.	*Quart. Jour. Geol. Soc. 1870, xxvi. p. 247, t. 11, f. 4.	Wollumbilla, <i>Qu.</i>
<i>A. alata</i> , <i>Etheridge</i> .	Cretaceous.	*Quart. Jour. Geol. Soc. 1872, xxviii. p. 342, t. 20, f. 8.	Maryborough, <i>Qu.</i>
<i>A. Barklyi</i> , <i>Moore</i> .	Up. Oolite.	*Quart. Jour. Geol. Soc. 1870, xxvi. p. 245, t. 11, figs. 1 and 2.	Wollumbilla, <i>Qu.</i>
<i>A. Braamburiensis</i> , <i>Phillips</i> .	Up. Oolite.	*Geol. Yorksh. 1829, i. p. 140, t. 6, f. 6; <i>Moore</i> , Quart. Jour. Geol. Soc. 1870, xxvi. p. 240.	Wollumbilla, <i>Qu.</i>
<i>A. Corbiensis</i> , <i>Moore</i> .	Up. Oolite.	*Quart. Jour. Geol. Soc. 1870, xxvi. p. 246, t. 11, f. 7.	Wollumbilla, <i>Qu.</i>
<i>A. echinata</i> , <i>J. Sow.</i>	Cornbrash?	*Min. Con. iii. p. 75, t. 243; <i>Moore</i> , Quart. Jour. Geol. Soc. 1870, xxvi. p. 232.	<i>W. Australia.</i>
<i>A. Hughendenensis</i> , <i>Etheridge</i> .	Cretaceous.	*Quart. Jour. Geol. Soc. 1872, xxviii. p. 346, t. 25, f. 3.	Hughenden Station, <i>Qu.</i>
<i>A. inæquivalvis</i> , <i>J. Sowerby</i> .	Oolite.	*Min. Con. iii. p. 78, t. 244, f. 2; <i>Moore</i> , Quart. Jour. Geol. Soc. 1870, xxvi. p. 232.	<i>W. Australia.</i>
<i>A. Munsteri</i> , <i>Bronn</i> .	Oolite.	<i>Goldfuss</i> , * <i>Petrefacta</i> , ii. p. 131, t. 118, f. 2; <i>Moore</i> , Quart. Jour. Geol. Soc. 1870, xxvi. p. 232; <i>Clarke</i> , <i>ibid.</i> 1867, xxiii. p. 9.	15 miles north of Champion Bay, <i>W. Australia.</i>
<i>A. reflecta</i> , <i>Moore</i> .	Up. Oolite.	*Quart. Jour. Geol. Soc. 1870, xxvi. p. 246, t. 12, f. 1.	Wollumbilla, <i>Qu.</i>
<i>A. simplex</i> , <i>Moore</i> .	Up. Oolite.	*Quart. Jour. Geol. Soc. 1870, xxvi. p. 247, t. 11, f. 3.	Wollumbilla, <i>Qu.</i>
<i>A. substriata</i> , <i>Moore</i> .	Up. Oolite.	*Quart. Jour. Geol. Soc. 1870, xxvi. p. 247, t. 11, f. 6.	Wollumbilla, <i>Qu.</i>
<i>A. umbonalis</i> , <i>Moore</i> .	Up. Oolite.	*Quart. Jour. Geol. Soc. 1870, xxvi. p. 246, t. 12, figs. 2 and 3.	Wollumbilla, <i>Qu.</i>

Genus *Crenatula*, *Lamarck*, 1804. (Ann. Muséum, iii. p. 28; Hist. Nat. Anim. s. Vertéb. 1819, vi. pt. 1, p. 136).—*Mytilacea-Aviculidæ*.

<i>C. ? gibbosa</i> , <i>Etheridge</i> .	Cretaceous.	*Quart. Jour. Geol. Soc. 1872, xxviii. p. 339, t. 19, f. 3.	Maryborough, <i>Qu.</i>
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Genus *Cucullæa*, *Lamarck*, 1801. (Système, p. 116).—*Arcacea-Arcidæ*.

<i>C. costata</i> , <i>Etheridge</i> .	Cretaceous.	*Quart. Jour. Geol. Soc. 1872, xxviii. p. 340, t. 20, f. 2.	Maryborough, <i>Qu.</i>
<i>C. inflata</i> , <i>Moore</i> .	Oolite.	*Quart. Jour. Geol. Soc. 1870, xxvi. p. 250, t. 14, figs. 1 and 2.	Greenough Dist. <i>W. Australia.</i>

(Pelecypoda.)		(Mesozoic.)	
Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
<i>C. oblonga</i> , <i>J. Sow.</i>	Oolite.	*Min. Con. III. p. 7, t. 206, figs. 1 and 2; Moore, Quart. Jour. Geol. Soc. 1870, xxvi. p. 232.	W. Australia.
<i>C. robusta</i> , <i>Etheridge</i> .	Cretaceous.	*Quart. Jour. Geol. Soc. 1872, xxviii. p. 340, t. 20, f. 1.	Maryborough, Qu.
<i>C. semistriata</i> , <i>Moore</i> .	Oolite.	*Quart. Jour. Geol. Soc. 1870, xxvi. p. 250, t. 14, f. 3.	Greenough Dist. W. Australia.
Genus <i>Cytherea</i> , <i>Lamarck</i> , 1806. (Ann. du Muséum, VII. p. 132.)— <i>Veneracea-Veneridae</i> .			
<i>C. Clarkei</i> , <i>Moore</i> .	Up. Oolite.	*Quart. Jour. Geol. Soc. 1870, xxvi. p. 250, t. 13, f. 1.	Wollumbilla; Maranoa River; Gregory River, north of Finnis Springs, Qu.
<i>C. gibbosa</i> , <i>Moore</i> .	Up. Oolite.	*Quart. Jour. Geol. Soc. 1870, xxvi. p. 251.	Wollumbilla, Qu.
Genus <i>Cyprina</i> , <i>Lamarck</i> , 1812. (Cours de Zoologie!; Hist. d. Anim. s. Vertèb. 1818, v. pp. 556 and 566.)— <i>Veneracea-Cyprinidae</i> <sup>1</sup> .			
<i>C. expansa</i> , <i>Etheridge</i> .	Cretaceous.	*Quart. Jour. Geol. Soc. 1872, xxviii. p. 338, t. 19, f. 1.	Maryborough, Qu.
Sub-genus <i>Goniomya</i> <sup>2</sup> , <i>Agassiz</i> (1838, ms.), 1842 (Études Crit. Mon. Myes. 1842—45, p. 1)= <i>Lysianassa</i> , <i>Münster</i> .— <i>Myacea-Anatinidae</i> .			
<i>G. depressa</i> , <i>Moore</i> .	Up. Oolite.	*Quart. Jour. Geol. Soc. 1870, xxvi. p. 251, t. 13, f. 6.	Wollumbilla, Qu.
Sub-genus <i>Gresslya</i> , <i>Agassiz</i> , 1842. (Études Crit. Mon. Myes. 1842—45, p. 202.) <i>Myacea-Anatinidae</i> .			
<i>G. donaciformis</i> , <i>Phillips</i> .	Up. Lias.	<i>Amphidesma</i> , *Geol. York. 1829, I. p. 161, t. 12, f. 5; <i>Gresslya</i> , Ag. l. c. p. 232; <i>id.</i> Moore, Quart. Jour. Geol. Soc. 1870, xxvi. p. 232.	W. Australia.
Sub-genus <i>Homomya</i> , <i>Agassiz</i> , 1842 or 1843? (Études Crit. Mon. Myes. 1842—45, p. 154.) <i>Myacea-Anatinidae</i> .			
<i>H.? sp. ind.</i>	L. Oolite.	Etheridge, *Quart. Jour. Geol. Soc. 1872, xxviii. p. 347, t. 25, f. 5.	Gordon Downs, Qu.

<sup>1</sup> The term *Cyprinidae* having been long ago used in Ichthyology, Dr Stoliczka proposed to adopt in its place that of *Glossidae*, Gray (*Pal. Indica*, III. p. 183).

<sup>2</sup> According to Bronn, this name was first used by Agassiz in 1836, but according to Agassiz's own statement, it first appeared attached to certain plates of his "Études Critiques," submitted to the Geological Section of the meeting of Swiss Naturalists at Basle in 1838. It also appeared during this year in a paper by M. Gressly, "Observations Géologiques sur le Jura Soleurois" (*Nouv. Mém. Soc. Helvétique des Sci. Nat. Neuchâtel*), but appears to have been first definitely described in 1842 (*Études Crit. p. 1*). *Goniomya* is synonymous with *Lysianassa*, Münster, 1838 (*N. Jahrbuch*, 1838, p. 55), but the latter, according to Bronn, had already been used for a genus of Crustacea by Milne-Edwards.

## (Pelecypoda.)

## (Mesozoic.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
Genus <i>Inoceramus</i> <sup>1</sup> ( <i>J. Sowerby</i> , 1814, ms.), <i>Parkinson</i> , 1819 (see p. 70). <i>Mytilacea-Aviculida</i> .			
<i>I. Carsoni</i> , <i>M' Coy</i> .	Cretaceous.	Annals Nat. Hist. 1865, xvi. p. 334; *Trans. Roy. Soc. Vict. 1866, vii. p. 50; Annals Nat. Hist. 1867, xx. p. 196; ? <i>Sp. allied to I. problematicus</i> (d'Orb.), Etheridge, *Quart. Jour. Geol. Soc. 1872, xxviii. p. 344, t. 22, f. 4.	Base of Walker's Table Mounts, Flinders River; Marathon Station, Qu.
<i>I. Marathonensis</i> , <i>Etheridge</i> .	Cretaceous.	*Quart. Jour. Geol. Soc. 1872, xxviii. p. 343, t. 22, f. 1.	Marathon Station, Flinders R. Qu.
<i>I. multiplicatus</i> , <i>Stoliczka</i> .	Cretaceous.	*Pal. Indica, iii. p. 406, t. 28, f. 1; var. <i>elongatus</i> , Etheridge, *Quart. Jour. Geol. Soc. 1872, xxviii. p. 343, t. 22, f. 2.	Marathon Station, Flinders R. Qu.
<i>I. pernoides</i> , <i>Etheridge</i> .	Cretaceous.	*Quart. Jour. Geol. Soc. 1872, xxviii. p. 343, t. 22, f. 3.	Marathon Station, Qu.
<i>I. Sutherlandi</i> , <i>M' Coy</i> .	Cretaceous.	Annals Nat. Hist. 1865, xvi. p. 334; *Trans. Roy. Soc. Vict. 1866, vii. p. 50; Annals Nat. Hist. 1867, xx. p. 196.	Base of Walker's Table Mounts, Flinders R. Qu.

Genus *Leda*, *Schumacher*, 1817. (Essai d'une Nouv. Syst. Habit. p. 172.)  
Vide *Nuculana*, Link.

<i>L. Australis</i> , <i>Moore</i> .	Vide <i>Nuculana Australis</i> .
<i>L. elongata</i> , <i>Etheridge</i> .	Vide <i>Nuculana elongata</i> .

Genus *Lima*<sup>2</sup>, *Bruguière*, 1789 or 1791? (Tab. Encycl. Méthod. pl. 206; Lamarck, Système, 1801, p. 136.)—*Ostracea-Radulida*.

<i>L. duplicata</i> , <i>J. de C. Sowerby</i> .	Oolite.	*Min. Con. vi. p. 114, t. 559, f. 3; Moore, Quart. Jour. Geol. Soc. 1870, xxvi. p. 232.	W. Australia.
<i>L. Gordonii</i> , <i>Moore</i> .	Up. Oolite.	*Quart. Jour. Geol. Soc. 1870, xxvi. p. 247, t. 12, f. 4.	Wollumbilla, Qu.
<i>L. multistriata</i> , <i>Moore</i> .	Up. Oolite.	*Quart. Jour. Geol. Soc. 1870, xxvi. p. 248, t. 12, f. 5.	Wollumbilla, Qu.
<i>L. proboscidea</i> , <i>J. Sowerby</i> .	Oolite.	*Min. Con. iii. p. 115, t. 264; Clarke, Quart. Jour. Geol. Soc. 1867, xxiii. p. 8; Moore, <i>ibid.</i> 1870, xxvi. pp. 230—32.	W. Australia.
<i>L. punctata</i> , <i>J. Sow</i> .	Oolite.	<i>Plagiostoma</i> , *Min. Con. ii. p. 25, t. 113, f. 1 and 2; <i>Lima</i> , Moore, Quart. Jour. Geol. Soc. 1870, xxvi. p. 232.	W. Australia.

<sup>1</sup> In a collection of fossils forwarded to England by Mr W. Hann, from the Barcoo River, fifty miles below its junction with the Alice River, Mr Etheridge, F.R.S., recognized *Inocerami* having the general facies of British gault forms (*Quart. Jour. Geol. Soc.* 1872, xxviii. p. 183).

<sup>2</sup> It appears that the generic name *Lima* must give way to that of *Radula*, Klein, 1753 (*Tent. Meth. Ostrac.* p. 135), which has precedence (see *Stoliczka, Pal. Indica*, iii. p. 412).

## (Pelecypoda.)

## (Mesozoic.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
Genus <b>Lucina</b> , <i>Bruguière</i> , 1792. (Tab. Encycl. Méthod. pl. 284—86; Lamarck, Prodrôme, p. 84, <i>id.</i> Système, 1801, p. 124; <i>id.</i> Histoire, 1818, v. p. 538.) <i>Lucinacea-Lucinida.</i>			
<i>L. anomala</i> , <i>Moore</i> .	Up. Oolite.	*Quart. Jour. Geol. Soc. 1870, xxvi. p. 251, t. 14, f. 4.	Wollumbilla, <i>Qu.</i>
<i>L.?</i> <i>Australis</i> , <i>Moore</i> .	Up. Oolite.	*Quart. Jour. Geol. Soc. 1870, xxvi. p. 251, t. 14, f. 5.	Wollumbilla, <i>Qu.</i>
Genus <b>Mactra</b> , <i>Linnaeus</i> , 1767. (Systema, ed. 12, pt. 2, 1125; Lamarck, Système, 1801, p. 121; <i>id.</i> Histoire, 1818, v. p. 471.)— <i>Myacea-Mactridæ.</i>			
<i>M. trigonalis</i> , <i>Moore</i> .	Up. Oolite.	*Quart. Jour. Geol. Soc. 1870, xxvi. p. 252, t. 14, f. 6.	Nive River Downs, <i>Qu.</i>
Genus <b>Melina</b> , <i>Retzius</i> , 1788 (Dissert. Hist. Nat.! Stoliczka, Pal. Indica, iii. p. 395) = <i>Perna</i> , <i>Bruguière</i> (non <i>Adanson</i> , nec <i>Retzius</i> ).— <i>Mytilacea-Aviculidæ.</i>			
<i>M. gigantea</i> , <i>Moore</i> .	Up. Oolite.	<i>Perna</i> , *Quart. Jour. Geol. Soc. 1870, xxvi. p. 249.	Wollumbilla, <i>Qu.</i>
Genus <b>Modiola</b> , <i>Lamarck</i> , 1799 (see p. 71).— <i>Mytilacea-Mytilidæ.</i>			
<i>M. unica</i> , <i>Moore</i> .	Up. Oolite.	*Quart. Jour. Geol. Soc. 1870, xxvi. p. 253, t. 13, f. 5.	Wollumbilla, <i>Qu.</i>
Genus <b>Mya</b> , <i>Linnaeus</i> , 1758. (Systema, ed. 10, p. 670; Lamarck, Prodrôme, 1799, p. 83.) <i>Myacea-Myidæ.</i>			
<i>M. Maccoyi</i> , <i>Moore</i> .	Up. Oolite.	*Quart. Jour. Geol. Soc. 1870, xxvi. p. 253, t. 13, f. 8.	Between Amby and Maranoa Rivers, <i>Qu.</i>
Genus <b>Myacites</b> , <i>Schlotheim</i> , 1820 (Petrefactenkunde, p. 176; Stoliczka, Pal. Indica, iii. p. 67) = <i>Pleuromya</i> , <i>Agassiz</i> . <i>Myacea-Anatinidæ.</i>			
<i>M. Liassianus</i> , <i>Quenstedt</i> .	Mid. Lias?	<i>M. liasinus</i> , *Der Jura, 1858, p. 81, t. 10, f. 3; <i>M. Liassianus</i> , <i>Moore</i> , Quart. Jour. Geol. Soc. 1870, xxvi. pp. 229—32.	<i>W. Australia.</i>
<i>M. planus</i> , <i>Moore</i> .	Up. Oolite.	*Quart. Jour. Geol. Soc. 1870, xxvi. p. 254, t. 12, f. 10.	Wollumbilla, <i>Qu.</i>
<i>M. Sandfordii</i> , <i>Moore</i> .	Inf. Oolite.	*Quart. Jour. Geol. Soc. 1870, xxvi. p. 253, t. 13, f. 9.	Greenough Dist. <i>W. Australia.</i>
<i>M.?</i> <i>sp. ind.</i>	L. Oolite.	Etheridge, *Quart. Jour. Geol. Soc. 1872, xxviii. p. 348, t. 25, f. 7.	Gordon Downs, <i>Qu.</i>
Genus <b>Mytilus</b> <sup>1</sup> , <i>Linnaeus</i> , 1758 (see p. 72) = <i>Perna</i> , <i>Adanson</i> , 1757. <i>Mytilacea-Mytilidæ.</i>			
<i>M. inflatus</i> , <i>Moore</i> .	Up. Oolite.	*Quart. Jour. Geol. Soc. 1870, xxvi. p. 252, t. 13, f. 4.	Wollumbilla, <i>Qu.</i>

<sup>1</sup> The generic name *Mytilus* should give place to that of *Perna*, *Adanson*, 1757 (*Voy. au Sénégal*, p. 217). It is not the *Perna* of *Bruguière*.

## (Pelecypoda.)

## (Mesozoic.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
<i>M. planus</i> , Moore.	Up. Oolite.	*Quart. Jour. Geol. Soc. 1870, xxvi. p. 252, t. 13, f. 3.	Wollumbilla, Qu.
<i>M. rugocostatus</i> , Moore.	Up. Oolite.	*Quart. Jour. Geol. Soc. 1870, xxvi. p. 252, t. 13, f. 2.	Wollumbilla, Qu.

Genus *Nucula*, Lamarck, 1799 (see p. 73).—*Arcacea-Nuculidæ*.

<i>N. Cooperi</i> , Moore.	Up. Oolite.	*Quart. Jour. Geol. Soc. 1870, xxvi. p. 254, t. 12, f. 8.	Wollumbilla, Qu.
<i>N. gigantea</i> , Etheridge.	Cretaceous.	*Quart. Jour. Geol. Soc. 1872, xxviii. p. 341, t. 20, f. 4.	Maryborough, Qu.
<i>N. quadrata</i> , Etheridge.	Cretaceous.	*Quart. Jour. Geol. Soc. 1872, xxviii. p. 341, t. 19, f. 5, t. 20, f. 3.	Maryborough, Qu.
<i>N. truncata</i> , Moore.	Up. Oolite.	*Quart. Jour. Geol. Soc. 1870, xxvi. p. 254, t. 12, f. 9.	Wollumbilla, Qu.

Genus *Nuculana*, Link, 1807 (see p. 74).—*Arcacea-Nuculanidæ*.

<i>N. Australis</i> , Moore.	Up. Oolite.	<i>Leda</i> , Quart. Jour. Geol. Soc. 1870, xxvi. p. 251, t. 12, f. 7.	Wollumbilla, Qu.
<i>N. elongata</i> , Etheridge.	Cretaceous.	<i>Leda</i> , Quart. Jour. Geol. Soc. 1872, xxviii. p. 341, t. 20, f. 5.	Maryborough, Qu.

Genus *Ostrea*, Linnæus, 1758. (Systema, ed. 10, p. 696).—*Ostracea-Ostreidæ*.

<i>O. Marshii</i> , J. Sow.	Oolite.	*Min. Con. i. p. 103, t. 48; Clarke, Quart. Jour. Geol. Soc. 1867, xxiii. pp. 8 and 9; Moore, <i>ibid.</i> 1870, xxvi. pp. 230—32.	Greenough Dist., 15 miles north of Champion Bay, W. Australia.
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Genus *Panopæa*, Ménard de la Groye, 1807. (Ann. Muséum, ix. p. 135; Stoliczka, Pal. Indica, iii. p. 85).—*Myacea-Myacidæ*.

<i>P. plicata</i> , J. de C. Sowerby.	Cretaceous.	<i>Mya</i> , *Min. Con. v. p. 20, t. 419, f. 3; <i>P. plicata</i> , var. <i>acuta</i> , Etheridge, *Quart. Jour. Geol. Soc. 1872, xxviii. p. 342, t. 21, f. 3.	Pelican Creek, Qu.
<i>P. rugosa</i> , Moore.	Up. Oolite.	*Quart. Jour. Geol. Soc. 1870, xxvi. p. 253, t. 13, f. 7.	Bungeeworgorai Ck., near Mount Abundance, Qu.
<i>P. sulcata</i> , Etheridge.	Cretaceous.	*Quart. Jour. Geol. Soc. 1872, xxviii. p. 342, t. 21, f. 2.	Maryborough, Qu.

Genus *Pecten*, O. F. Müller, 1776 (see p. 76).—*Ostracea-Pectinidæ*.

<i>P. ? æquilineatus</i> , Moore.	Up. Oolite.	*Quart. Jour. Geol. Soc. 1870, xxvi. p. 248, t. 11, f. 11.	Wollumbilla, Qu.
<i>P. calvus</i> , Goldfuss.	Oolite.	*Petrefacta, ii. p. 74, t. 99, f. 1; Moore, Quart. Jour. Geol. Soc. 1870, xxvi. pp. 231, 232.	W. Australia.

(Pelecypoda.)		(Mesozoic.)	
Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
<i>P. cinctus</i> , <i>J. Sow.</i>	Oolite.	*Min. Con. iv. p. 96, t. 371; Moore, Quart. Jour. Geol. Soc. 1870, xxvi. pp. 231, 232.	W. Australia.
<i>P. fimbriatus</i> , <i>Moore</i> <sup>1</sup> .	Up. Oolite.	*Quart. Jour. Geol. Soc. 1870, xxvi. p. 248, t. 11, f. 8.	Wollumbilla, Qu.
<i>P. Greenoughiensis</i> , <i>Moore.</i>	Oolite.	*Quart. Jour. Geol. Soc. 1870, xxvi. p. 248, t. 11, f. 10.	Greenough Dist. W. Australia.
<i>P. socialis</i> , <i>Moore.</i>	Up. Oolite.	*Quart. Jour. Geol. Soc. 1870, xxvi. p. 248, t. 11, f. 9.	Wollumbilla, Qu.
Genus <i>Perna</i> , <i>Bruquière</i> , 1789 or 1791? (Tab. Encyclop. Méthod. pls. 175, 176; Encyclop. Méthod. 1792, t. p. xiii.; Lamarck, Système, 1801, p. 134; <i>id.</i> Histoire, 1819, vi. pt. 1, p. 138), non Retzius, nec Adanson. Vide <i>Melina</i> , Retzius.			
<i>P. gigantea</i> , <i>Moore.</i>		Vide <i>Melina gigantea</i> .	
Genus <i>Pholadomya</i> , <i>G. B. Sowerby</i> , 1823 (see p. 76).— <i>Myacea-Anatinidae</i> .			
<i>P. ovulum</i> , <i>L. Agassiz.</i>	Oolite.	Études Crit. Mon. Myes. p. 119, t. 3, figs. 7—9; Moore, Quart. Jour. Geol. Soc. 1870, xxvi. pp. 231, 232.	W. Australia.
<i>P. sp. ind.</i>	L. Oolite.	Etheridge, *Quart. Jour. Geol. Soc. 1872, xxviii. p. 347, t. 25, f. 6.	Gordon Downs, Qu.
Genus <i>Pholas</i> , <i>Linnaeus</i> , 1758. (Systema, ed. 10, t. p. 669).— <i>Pholadacea-Pholadidae</i> .			
<i>P. Australis</i> , <i>Clarke.</i>		Vide <i>Teredo Australis</i> , Moore.	
Genus <i>Tancredia</i> , <i>Lycett</i> , 1850 (Annals Nat. Hist. vi. p. 407; Stoliczka, Pal. Indica, iii. p. 132)= <i>Hettangia</i> , <i>Terquem</i> , 1850.— <i>Tellinacea-Donacidae</i> .			
<i>T. plana</i> , <i>Moore.</i>	Up. Oolite.	*Quart. Jour. Geol. Soc. 1870, xxvi. p. 254, t. 13, f. 13.	Blythesdale, Qu.
<i>T. sp. ind.</i>	L. Oolite.	Etheridge, *Quart. Jour. Geol. Soc. 1872, xxviii. p. 348, t. 25, f. 8.	Gordon Downs, Qu.
Genus <i>Tellina</i> , <i>Adanson</i> , 1757. (Voy. Sénégal, p. 234; Linnaeus, Systema, ed. 10, 1758, p. 674; Lamarck, Prodrome, 1799, p. 84; <i>id.</i> Système, 1801, p. 124; <i>id.</i> Histoire, 1818, v. p. 519).— <i>Tellinacea-Tellinidae</i> .			
<i>T. Mariæburiensis</i> , <i>Etheridge.</i>	Cretaceous.	*Quart. Jour. Geol. Soc. 1872, xxviii. p. 341, t. 20, f. 6.	Maryborough, Qu.
<i>T. sp. ind.</i>	Cretaceous.	Etheridge, *Quart. Jour. Geol. Soc. 1872, xxviii. p. 341, t. 20, f. 7.	Maryborough, Qu.
Genus <i>Teredo</i> , <i>Linnaeus</i> , 1758. (Systema, ed. 10, p. 651; Lamarck, Système, 1801, p. 128; <i>id.</i> Histoire, 1818, v. p. 438).— <i>Pholadacea-Pholadidae</i> .			
<i>T. Australis</i> , <i>Moore.</i>	Oolite.	<i>Pholas</i> , <i>Clarke</i> , Quart. Jour. Geol. Soc. 1867, xxiii. p. 8; <i>Teredo</i> , <i>Moore</i> , * <i>ibid.</i> 1870, xxvi. pp. 230 and 255, t. 12, f. 11.	W. Australia.

<sup>1</sup> Non *Pecten (Aviculopecten) fimbriatus*. Phil.



## (Pelecypoda—Gasteropoda.)

(Mesozoic.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
Genus <i>Thracia</i> (Leach, 1819, ms.), <i>Blainville</i> , 1824. (Dict. Sci. Nat. xxxii. p. 347; Man. de Malacol. 1825, i. p. 564.)— <i>Myacea-Anatinidæ</i> .			
<i>T. Wilsoni</i> , Moore.	Up. Oolite.	*Quart. Jour. Geol. Soc. 1870, xxvi. p. 254, t. 14, f. 8.	Amby River; Bungeeworgorai Ck. Qu.
Genus <i>Trigonia</i> , <i>Bruguère</i> , 1789. (Encyc. Méthod. i. pl. xiv.; Lamarck, Système, p. 116; <i>id.</i> Histoire, 1819, vi. pt. 1, p. 61.)— <i>Arcacea-Trigoniadæ</i> .			
<i>T. costata</i> , Clarke (non Park.).		Vide <i>T. Moorei</i> , Lycett.	
<i>T. lineata</i> , Moore.	Up. Oolite.	<i>Myophoria</i> , sp. M'Coy (1861), Trans. Roy. Soc. Vict. 1865, vi. p. 44; <i>id. ibid.</i> Exhib. Essay, 1861, p. 167; <i>id. ibid.</i> Annals Nat. Hist. 1862, ix. p. 144; <i>id.</i> Clarke, Quart. Jour. Geol. Soc. 1862, xviii. p. 245; <i>id.</i> M'Coy, Annals Nat. Hist. 1867, xx. p. 198. <i>Trigonia</i> , Moore, *Quart. Jour. Geol. Soc. 1870, xxvi. p. 255, t. 13, f. 12.	Wollumbilla, Qu.
<i>T. Moorei</i> , Lycett.	Oolite.	<i>Trigonia</i> , sp. Gregory, Quart. Jour. Geol. Soc. 1861, xvii. p. 483. <i>T. costata</i> , Clarke (non Parkinson), Quart. Jour. Geol. Soc. 1867, xxiii. p. 8; <i>T. Moorei</i> (Lycett), Moore, * <i>ibid.</i> 1870, xxvi. pp. 227, 231, 232, and 254, t. 14, figs. 9 and 10.	Greenough River, W. Australia.
<i>T. nasuta</i> , Etheridge.	Cretaceous.	*Quart. Jour. Geol. Soc. 1872, xxviii. p. 339, t. 19, f. 2.	Maryborough, Qu.

Genus *Unio*, *Retzius*, 1788. (Dissertatio Hist. Nat. p. 16.)—*Unionacea—Unionidæ*.

<i>U. Dacombii</i> , M'Coy.	L. Mesozoic.	Selwyn, Ex. Essay Geol. Survey Vict. 1861, p. 186; Phys. Geogr. Geol. and Mineral. Vict. 1866, p. 20; Descript. Cat. Nat. Mus. Geol. Survey, Vict. 1868, p. 49; M'Coy, Smyth's Progress Rept. 1874, pp. 24 and 35; ? <i>U. Daintreei</i> , Clarke, Quart. Jour. Geol. Soc. 1867, xxiii. p. 10.	Wannon District, Vict.
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## Class—Gasteropoda.

Genus <i>Actæon</i> , <i>de Montfort</i> , 1810. (Conch. Systématique, ii. p. 315; Adams, Genera, 1854, ii. p. 4) = <i>Tornatella</i> , Lamarck, 1812.— <i>Opisthobr.-Actæonidæ</i> .			
<i>A. depressus</i> , Moore.	Up. Oolite.	*Quart. Jour. Geol. Soc. 1870, xxvi. p. 256, t. 10, f. 20.	Wollumbilla, Qu.
<i>A. Hochstetteri</i> , Moore.	Up. Oolite.	*Quart. Jour. Geol. Soc. 1870, xxvi. p. 256, t. 10, f. 19.	Wollumbilla, Qu.

## (Gasteropoda.)

(Mesozoic.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
Genus <i>Cerithium</i> , <i>Adanson</i> , 1757. (Voy. Sénégal, p. 152; Lamarck, 1799, Prodrôme, p. 73; <i>id.</i> Systema, p. 85; <i>id.</i> Histoire, 1822, vii. p. 63; Adams, Genera, 1854, i. p. 284.)— <i>Prosobr.-Cerithiidae</i> .			
<i>C. Greenoughiensis</i> , <i>Moore</i> .	Oolite.	*Quart. Jour. Geol. Soc. 1870, xxvi. p. 256, t. 10, f. 22.	Greenough Dist. <i>W. Australia</i> .
Genus <i>Delphinula</i> , <i>Lamarck</i> , 1804. (Ann. du Muséum, iv. p. 108; <i>id.</i> Histoire, 1822, vi. p. 229; <i>Stoliczka</i> , Pal. Indica, ii. p. 368.)— <i>Prosobr.-Trochidae</i> .			
<i>D. reflecta</i> , <i>Moore</i> .	Up. Oolite.	*Quart. Jour. Geol. Soc. 1870, xxvi. p. 256, t. 10, f. 21.	Wollumbilla, <i>Qu.</i>
Genus <i>Dentalium</i> , <i>Linnaeus</i> , 1758 (see p. 81).— <i>Prosobr.-Dentaliidae</i> .			
<i>D. lineatum</i> , <i>Moore</i> .	Up. Oolite.	*Quart. Jour. Geol. Soc. 1870, xxvi. p. 256.	Wollumbilla, <i>Qu.</i>
Genus <i>Natica</i> , <i>Adanson</i> , 1757. (Voy. Sénégal, p. 172; Lamarck, 1799, Prodrôme, p. 77; <i>id.</i> Système, 1801, p. 95; <i>id.</i> Histoire, 1822, vi. pt. 2, p. 195; Adams, Genera, 1858, i. p. 204.)— <i>Prosobr.-Naticidae</i> .			
<i>N. lineata</i> , <i>Etheridge</i> .	Cretaceous.	*Quart. Jour. Geol. Soc. 1872, xxviii. p. 342, t. 21, f. 1.	Maryborough, <i>Qu.</i>
<i>N. ornatissima</i> , <i>Moore</i> .	Up. Oolite.	*Quart. Jour. Geol. Soc. 1870, xxvi. p. 257, t. 10, f. 16.	Wollumbilla, <i>Qu.</i>
<i>N. variabilis</i> , <i>Moore</i> .	Up. Oolite.	*Quart. Jour. Geol. Soc. 1870, xxvi. p. 256, t. 10, f. 15.	Wollumbilla, <i>Qu.</i>
Genus <i>Pleurotomaria</i> , <i>DeFrance</i> , 1824. (Tableau, p. 114; Dict. Sc. Nat. 1826, xli. p. 381; Adams, Genera, 1858, ii. p. 630.)— <i>Prosobr.-Pleurotomariidae</i> .			
<i>P. Cliftoni</i> , <i>Etheridge</i> .	Oolite.	*Quart. Jour. Geol. Soc. 1872, xxviii. p. 347, t. 25, f. 4.	Gordon Downs, <i>Qu.</i>
Genus <i>Rissoina</i> , <i>d'Orbigny</i> , 1840. (Moll. d'Antill. ii. !; Adams, Genera, 1854, i. p. 327; <i>Stoliczka</i> , Pal. Indica, ii. p. 279.)— <i>Prosobr.-Rissoidae</i> .			
<i>R. Australis</i> , <i>Moore</i> .		*Quart. Jour. Geol. Soc. 1870, xxvi. p. 257, t. 10, f. 23.	Greenough Dist. <i>W. Australia</i> .
Genus <i>Turbo</i> (pars), <i>Linnaeus</i> , 1758 <sup>1</sup> . (Systema, ed. 10, p. 761; Lamarck, Prodrôme, 1799, p. 74; <i>id.</i> Système, 1801, p. 86; <i>id.</i> Histoire, 1822, vii. p. 38; Adams, Genera, 1854, i. p. 391.)— <i>Prosobr.-Turbinidae</i> .			
<i>T. Australis</i> , <i>Moore</i> .	Oolite.	*Quart. Jour. Geol. Soc. 1870, xxvi. p. 257, t. 10, figs. 17 and 18.	Greenough Dist. <i>W. Australia</i> .
<i>T. lævigatus</i> , <i>J. Sowerby</i> .	Oolite.	<i>Nerita</i> , *Min. Con. iii. p. 31, t. 217, f. 1; <i>Turbo</i> , <i>Moore</i> , Quart. Jour. Geol. Soc. 1870, xxvi. p. 232.	Greenough Dist. <i>W. Australia</i> .

<sup>1</sup> The name was used by Klein, in 1753, but apparently in a much more extended sense (*Tent. Meth. Ostrac.* pt. 1, p. 46).

(Cephalopoda.)

(Mesozoic.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
<i>Class—Cephalopoda.</i>			
Genus <b>Ammonites</b> , <i>Bruguière</i> , 1789. (Encycl. Méth. i. p. 28; Lamarek, Prodrôme, 1799, p. 79; <i>id.</i> Système, 1801, p. 100; Histoire, 1822, vii. p. 635.) <i>Tetrabranchiata-Ammonitida.</i>			
<i>A. Aalensis</i> , <i>Zieten.</i>	Up. Lias.	*Pet. Wurttemb. 1830, p. 37, t. 28, f. 3; d'Orbigny, Pal. Franç. Terr. Jura. i. p. 258, t. 63 (as <i>A. Aalensis</i> ); <i>A. Moorei</i> (Lycett), Clarke, Quart. Jour. Geol. Soc. 1867, xxiii. p. 9; <i>A. Aalensis</i> , var. <i>Moorei</i> (Lycett), Moore, * <i>ibid.</i> 1870, xxvi. pp. 230 and 232, t. 15, f. 1.	Greenough Dist. <i>W. Australia.</i>
<i>A. Brocchii</i> , <i>J. Sow.</i>	Inf. Oolite.	*Min. Con. ii. p. 233, t. 202; Moore, *Quart. Jour. Geol. Soc. 1870, xxvi. pp. 230 and 232, t. 15, f. 4.	Greenough Dist. <i>W. Australia.</i>
<i>A. Daintreei</i> , <i>Etheridge.</i>	L. Cretaceous.	*Quart. Jour. Geol. Soc. 1872, xxviii. p. 346, t. 24.	Hughenden Statn. <i>Qu.</i>
<i>A. Flindersi</i> , <i>M'Coy.</i>	Cretaceous.	Annals Nat. Hist. 1865, xvi. p. 334; *Trans. Roy. Soc. Vict. 1866, vii. p. 51; Annals Nat. Hist. 1867, xx. p. 196; ? <i>A. Beudanti</i> , var. <i>Mitchelli</i> , Etheridge, *Quart. Jour. Geol. Soc. 1872, xxviii. p. 345, t. 23.	Base of Walker's Table Mounts, Flinders River; Hughenden Station, <i>Qu.</i>
<i>A. macrocephalus</i> , <i>Schlotheim.</i>		Leonhard's Min. Taschenbuch, 1813, viii. p. 70; *Petrefacten, 1820, i. p. 70; Zieten, Pet. Wurttemb. 1830, p. 6, t. 5, f. 1 and 4; d'Orbigny, *Pal. Franç. Terr. Jura. 1848, i. p. 430, t. 151; Lycett and Morris, *Mon. Gt. Oolite, Moll. 1850, pt. 1, p. 12, t. 2, f. 3; Moore, *Quart. Jour. Geol. Soc. 1870, xxvi. pp. 227 and 232, t. 15, f. 5.	Wizard Peak; Greenough Dist. <i>W. Australia.</i>
<i>A. megaphyllus</i> , <i>Beyrich.</i>	L. Mesozoic (Trias?)	Monatsb. K. Akad. Wissensch. Berlin, 1865, pp. 60, 66, and 70, f. 3; Abhandl. <i>ibid.</i> 1865, xxxvi. p. 70, t. 3, f. 1 a—c.	Timor.
<i>A. Mitchelli</i> , <i>Etheridge.</i>		?Vide <i>A. Flindersi</i> , M'Coy.	
<i>A. Moorei</i> , <i>Lycett.</i>		Vide <i>A. Aalensis</i> .	
<i>A. radians</i> , <i>Schlotheim.</i>	Up. Lias.	*Petrefacten, 1820, i. p. 78; Zieten, *Pet. d. Wurttemb. 1830, p. 5, t. 4, f. 3; d'Orbigny, Pal. Franç. Terr. Jura, i. p. 226, t. 59; Clarke, Quart. Jour. Geol. Soc. 1867, xxiii. p. 8; Moore, * <i>ibid.</i> 1870, xxvi. pp. 230 and 232, t. 15, f. 2.	Wizard Peak; Greenough Dist. <i>W. Australia.</i>

(Cephalopoda.)		(Mesozoic.)	
Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
A. Sutherlandi, <i>Etheridge</i> .	Cretaceous.	*Quart. Jour. Geol. Soc. 1872, xxviii. p. 345, t. 21, f. 4.	Queensland.
A. Walcottii, <i>J. Sow.</i>	Up. Lias.	*Min. Con. II. p. 7, t. 106; Moore, Quart. Jour. Geol. Soc. 1870, xxvi. pp. 230 and 232.	Greenough Dist. W. Australia.
Genus <i>Ancyloceras</i> , <i>d'Orbigny</i> , 1842. (Pal. Franç. Terr. Crét. I. pt. 2, p. 491.) <i>Tetrabranchiata-Ammonitidæ</i> .			
A. Flindersi, <i>M'Coy</i> .	Cretaceous.	Annals Nat. Hist. 1867, xix. p. 356.	Head of Flinders River, Qu.
Genus <i>Belemnitella</i> , <i>d'Orbigny</i> , 1840. (Pal. Franç. Terr. Crét. I. p. 59.)			
B. diptycha, <i>M'Coy</i> .	Cretaceous.	*Trans. Roy. Soc. Vict. viii. p. 42; Annals Nat. Hist. 1867, xix. p. 356; <i>ibid. id.</i> xx. p. 196.	Head of Flinders River, Qu.
Genus <i>Belemnites</i> ( <i>G. Agricola</i> ; <i>Lister</i> , 1678). <i>d'Orbigny</i> , Pal. Franç. Terr. Crét. 1840, I. p. 37; <i>Phillips</i> , Mon. Brit. Bel. 1865, pt. 1, p. 12. <i>Dibranchiata-Decapoda—Belemnitidæ</i> .			
B. Australis, <i>Phill.</i>	Up. Oolite.	*Quart. Jour. Geol. Soc. 1870, xxvi. pp. 240 and 258, t. 16, figs. 1—5.	Up. Maranoa River, Qu.
B. canaliculatus, <i>Schlotheim</i> .	Oolite.	*Petrefacten, 1820, I. p. 49; Zieten, *Pet. Wurtemb. 1830, p. 27, t. 21, f. 3 a—c; <i>d'Orbigny</i> , Pal. Franç. Terr. Crét. I. p. 108; t. 13, f. 1—5; <i>Clarke</i> , Quart. Jour. Geol. Soc. 1867, xxiii. p. 9; <i>Moore</i> , <i>ibid.</i> 1870, xxvi. pp. 227, 230, and 232, t. 16, f. 7.	15 miles north of Champion Bay; Greenough Dist. W. Australia.
B. Barklyi, <i>Clarke</i> and <i>M'Coy</i> .		<i>Clarke</i> , Quart. Jour. Geol. Soc. 1862, xviii. p. 246; <i>M'Coy</i> , Trans. Roy. Soc. Vict. 1865, vi. p. 43.	Wollumbilla, Qu.
B. paxillosus, <i>Schlotheim?</i>		<i>Voltz</i> , *Obs. Belem. 1830, p. 50, t. 6, f. 2, t. 7, f. 2; <i>Phillips</i> , *Mon. Brit. Belem. 1866, pt. 2, p. 47, t. 6, f. 15; <i>Moore</i> , Quart. Jour. Geol. Soc. 1870, xxvi. p. 240, t. 16, f. 6.	Queensland.
Genus <i>Crioceras</i> , <i>Leveillé</i> , 1837. (Mém. Soc. Géol. France, II. p. 313; <i>d'Orbigny</i> , 1842, Pal. Franç. Terr. Crét. I. pt. 2, p. 457) = <i>Tropæum</i> , <i>J. Sowerby</i> . <i>Tetrabranchiata-Ammonitidæ</i> .			
C. Australe, <i>Moore</i> .	Neocomian?	*Quart. Jour. Geol. Soc. 1870, xxvi. p. 257, t. 15, f. 3.	Up. Maranoa Dist. Qu.

*Note.* A chalk Ammonite was obtained from the bed of the Greenough River, by Mr F. T. Gregory (*Moore*, l. c. p. 227). In the Daintree Collection, Mr Etheridge detected two or three species of *Belemnites* allied to British Oxford clay and Coral Rag forms (*Quart. Jour.* xxviii. p. 346).

## (Cephalopoda—Pisces.)

## (Mesozoic.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
Genus <i>Nautilus</i> , <i>Brerynius</i> , 1732. (Dissert. de Polythal. pp. 12 and 14; Linnæus, 1758, Systema, ed. 10. p. 709; Lamarek, Prodrome, 1799, p. 79.) <i>Tetrabranchiata-Nautilidæ.</i>			
<i>N. semistriatus</i> , <i>d'Orbigny.</i>	Up. Lias.	Pal. Franç. Terr. Jura. 1842, i. p. 149, t. 26; Clarke, Quart. Jour. Geol. Soc. 1867, xxxiii. p. 8; Moore, <i>ibid.</i> 1870, xxvi. pp. 230—32.	Greenough Dist. W. Australia.
<i>N. sinuatus</i> , <i>Clarke.</i>		Quart. Jour. Geol. Soc. xxxiii. p. 8 (? = <i>N. sinuatus</i> , J. Sowerby, Min. Con. ii. p. 213, t. 194.)	W. Australia.
Genus <i>Teuthis</i> ( <i>Aristotelis</i> ), <i>Schneider</i> , 1784. (Samml. Verm. p. 113; J. E. Gray, Brit. Mus. Cat. Ceph. pt. 1, 1849, p. 76.)— <i>Dibranchiata-Decapoda—Teuthidæ.</i>			
<i>T.?</i> <i>sp. ind.</i>	Up. Oolite.	Moore, *Quart. Jour. Geol. Soc. 1870, xxvi. p. 253, t. 16, f. 8.	Wollumbilla, Qu.

## Sub-kingdom—Vertebrata. Class—Pisces. Order—Ganoidei.

Genus *Cleithrolepis*, *Egerton*, 1864. (Quart. Jour. Geol. Soc. xx. p. 3.)

<i>C. granulatus</i> , <i>Egerton.</i>	L. Mesozoic. Wianamatta Series. Hawkesbury Series of N.S.Wales.	*l. c. p. 3. t. 1, figs. 2 and 3; Davies and Barkas, Geol. Mag. 2nd ser. i. p. 549; Traquair, Annals Nat. Hist. 1875, xv. p. 265; Clarke, Remarks Sed. Forms, N. S. Wales, 3rd ed. 1875, p. 31; Lütken, Palæontographica, 1873, xxxi. pt. 1, p. 29, note 2.	Cockatoo Island, Hunter River, N. S. Wales.
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Genus *Myrioilepis*, *Egerton*, 1864 (l. c. p. 3; Traquair, Mon. Ganoid Fishes, 1877, p. 12.)  
*Palæoniscidæ.*

<i>M. Clarkei</i> , <i>Egerton.</i>	L. Mesozoic. Wianamatta Series. Hawkesbury Series of N.S.Wales.	*l. c. p. 3, t. 1, f. 1; Davies and Barkas, Geol. Mag. 1874, 2nd ser. i. p. 551; Clarke, Remarks Sed. Forms, N. S. Wales, 3rd ed. 1875, p. 31.	Cockatoo Island; Chapel Hill, Campbeltown, N. S. Wales.
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Genus *Palæoniscus*, *Agassiz*, 1833. (Poiss. Foss. ii. p. 41.)—*Palæoniscidæ.*

<i>P. antipodeus</i> , <i>Egerton.</i>	L. Mesozoic. Wianamatta Series of N.S.Wales.	*l. c. p. 4, t. 1, f. 4, and woodcut, Davies and Barkas, Geol. Mag. 1874, 2nd ser. i. p. 551.	Parsonage Hill, near Paramatta, N. S. Wales.
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Notes. Mr F. T. Gregory recorded as fossils of secondary age, an *Ammonite* from Moresby's Range, an *Ammonite* from Mount Albert, and a *Pecten* from east of Wizard Peak.

A large Cephalopod, referable either to *Aspyloceras* or *Crioceras* was detected by Mr Etheridge in the Daintree Collection (Quart. Jour. Geol. Soc. xxviii. p. 344).

## (Pisces—Enaliosauria.)

(Mesozoic.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
Genus <i>Urosthene</i> s, Dana, 1848. (American Jour. Sc. v. p. 433; Traquair, Mon. Ganoid Fishes, 1877, p. 12.)— <i>Palæoniscidæ</i> .			
U. Australis, Dana.	L. Mes. (Up. Coal M. of N.S.Wales ? = Trias).	*l. c. p. 434; *Geol. U. S. Expl. Expd. p. 681, Atlas, t. 1, f. 1; Clarke, Quart. Jour. Geol. Soc. 1861, xvii. p. 355; Egerton, l. c. p. 2; Davies and Barkas, Geol. Mag. 1874, 2nd ser. i. p. 553; Clarke, Remarks Sed. Forms, N. S. Wales, 3rd ed. 1875, pp. 31, 37; Mackenzie, Mines and Min. Stats. N. S. Wales, 1875, p. 216.	B. Coal-pit, Newcastle, N. S. Wales.

## Class—Reptilia. Section—Enaliosauria.

Genus *Ichthyosaurus*, Kœnig, 1820? (Icon. Foss. Sectiles, t. 19, f. 250.)<sup>1</sup>  
*Ichthyopterygia*.

I. Australis, M <sup>c</sup> Coy.	Cretaceous?	*Trans. R. Soc. Vict. 1868, viii. p. 42; Annals Nat. Hist. 1867, xix. p. 355; <i>ibid. id.</i> xx. p. 196; Moore, Quart. Jour. Geol. Soc. 1870, xxvi. p. 228; M <sup>c</sup> Coy, Trans. R. Soc. Vict. 1869, ix. pt. 2, p. 77.	Head of Flinders River, Qu.
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Genus *Plesiosaurus*, Conybeare, 1821. (Trans. Geol. Soc. v. pt. 2, pp. 560 and 581.)  
*Sauropterygia*.

P. macrospondylus, M <sup>c</sup> Coy.	Cretaceous?	Annals Nat. Hist. 1867, xix. p. 356; *Trans. R. Soc. Vict. 1868, viii. p. 42; Annals Nat. Hist. xx. p. 196.	Head of Flinders River, Qu.
P. Sutherlandi, M <sup>c</sup> Coy.	Cretaceous?	*Trans. R. Soc. Vict. 1868, viii. p. 42; Annals Nat. Hist. 1867, xix. p. 356; <i>ibid. id.</i> xx. p. 196.	Head of Flinders River, Qu.

*Fish.* With the Wollumbilla fossils, numerous fragments of fish teeth and scales occur, which are considered by Mr Moore to belong probably to the genera *Hybodus* and *Lepidotus* (Quart. Jour. Geol. Soc. xxvi. p. 238). In Mr Daintree's Cretaceous Collection, Mr Etheridge observed the remains of an *Aspidorhynchus* from Hughenden (*ibid.* xxviii. p. 346).

<sup>1</sup> Not described by Kœnig in this fragmentary work. It was described and figured, but not named by Home in the *Phil. Trans.* (1814, pp. 571—76, pl. 16).

TERTIARY.





(Plantæ.)

(Tertiary.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
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Kingdom—Plantæ. Section—Phanerogamia. Class—Dicotyledones.

Genus **Acrocoila**, *F. v. Mueller*, 1877. (Ann. Report Dep. Mines, N. S. Wales, for 1876, p. 179.)—*Calycifloræ*.

<i>A. anodonta</i> , <i>F. v. Mueller</i> .	Older G. D. (=M. Pliocene?).	* <i>loc. cit.</i> p. 180.	Gulgong, N. S. Wales.
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Genus **Banksia**, *Linnaeus (fil.)*, 1781 (Suppl. p. 15; R. Brown, Trans. Linn. Soc. x. p. 202), non Forster, 1776.—*Proteaceæ*.

<i>B. sp. ind.</i>	Older G. D. (=M. Pliocene?).	Redaway, Quart. Jour. Geol. Soc. 1858, xiv. p. 541; Murchison, Siluria, 4th ed. 1867, p. 462; Smyth, Progress Report, 1874, i. p. 30; <i>ibid.</i> 1875, ii. 28; <i>id.</i> 1876, iii. p. 48.	Creswick; Chiltern, Vict.
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Genus **Celyphina**, *F. v. Mueller*, 1871. (Repts. Mining Surveyors, Regist. Vict. Sept. 1871, App. p. 40; Obs. New Veg. Fossils, 1874, p. 17.)—*Proteaceæ*.

<i>C. Maccoyi</i> , <i>F. v. Mueller</i> .	Older G. D. (=M. Pliocene?).	* <i>l. c.</i> p. 40, t. 5, figs. 1—7; *Obs. New Veg. Foss. Vict. 1874, p. 17, t. 5, figs. 1—7.	Haddon; Tangil R. Vict.
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Genus **Cinnamomum**, *J. Burman*, 1737. (Thes. Zeyl. p. 62, t. 27.)—*Lauraceæ*.

<i>C. polymorphoides</i> , <i>M<sup>c</sup>Coy</i> .	M. Ter. (Miocene?).	Smyth's Progress Report, 1874, p. 35; <i>ibid.</i> ii. 1875, p. 24; Couchman's <i>id.</i> 1877, iv. p. 17; *Geol. Survey, Vict. 1876, Dec. iv. p. 31, t. 40, f. 1—3.	Maddingly; Bacchus Marsh, Vict.
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Genus **Conchotheca**, *F. v. Mueller*, 1873. (Repts. Mining Surveyors, Regist. Vict. Sept. 1873, App. p. 41; Obs. New Veg. Fossils, 1874, p. 19.)—*Proteaceæ?*

<i>C. rotundata</i> , <i>F. v. Mueller</i> .	Older G. D. (=M. Pliocene?).	* <i>l. c.</i> p. 41, t. 6, figs. 9—11; Smyth's Progress Report, 1874, p. 37; *Obs. New Veg. Foss. p. 19, t. 6, figs. 9—11.	Nintingbool, near Haddon, Vict.
<i>C. turgida</i> , <i>F. v. Mueller</i> .	Older G. D. (=M. Pliocene?).	*Repts. Mining Surveyors, Regist. Vict. Sept. 1874, App. p. 42, t. 10, figs. 5—12; *Obs. New Veg. Foss. 1874, p. 24, t. 10, figs. 5—12; Smyth's Progress Report, 1876, iii. p. 80.	Nintingbool, near Haddon; River Tangil, Vict. Darling Downs, Qu.

Genus **Daphnogenia**, *Unger*, 1845. (Synop. Plant. Foss. p. 227.)—*Thymelæaceæ*.

<i>D. sp. ind.</i>	U. Ter. ? (Bacchus Marsh beds).	Smyth, Mineral Statistics, Exhib. Essays, 1872, p. 15, note; Progress Report, 1875, ii. p. 24.	Bacchus Marsh, Vict.
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(Plantæ.)		(Tertiary.)	
Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
Genus <b>Dieune</b> , <i>F. v. Mueller</i> , 1874. (Repts. Mining Surveyors, Regist. Vict. Sept. 1874, App. p. 41; Obs. New Veg. Fossils, p. 22.)— <i>Capparidaceæ</i> or <i>Pittosporaceæ</i> ?			
<b>D. pluriovulata</b> , <i>F. v. Mueller</i> .	Older G. D. (=M. Pliocene?).	* <i>l. c.</i> p. 41, t. 9, figs. 1—4; *Obs. New Veg. Foss. 1874, p. 22, t. 9, figs. 1—4.	Haddon, <i>Vict.</i>
Genus <b>Eisothecaryon</b> , <i>F. v. Mueller</i> , 1877. (Ann. Report Dep. Mines, N. S. Wales, for 1876, p. 178.) ?= <i>Villaresia</i> .— <i>Oliacineæ</i> ?			
<b>E. semiseptatum</b> , <i>F. v. Mueller</i> .	Older G. D. (=M. Pliocene?).	* <i>loc. cit.</i> p. 178.	Gulgong, N. S. Wales.
Genus <b>Eucalyptus</b> , <i>l'Heritier</i> , 1788. (Sertum Anglicum, p. 18.)— <i>Myrtaceæ</i> .			
<b>E. obliqua</b> , <i>l'Heritier</i> .	Older G. D. (=M. Pliocene?).	* <i>loc. cit.</i> p. 18, t. 20; M'Coy, Smyth's Progress Report, 1874, i. p. 36; Smyth, <i>ibid.</i> p. 30; <i>id. ibid.</i> 1876, iii. p. 48.	?Malsbury and Daylesford, <i>Vict.</i>
<b>E. Pluti</b> , <i>M'Coy</i> .	Older G. D. (=M. Pliocene?).	*Geol. Survey, Vict. 1876, Dec. iv. p. 29, t. 39; Couchman's Progress Report, 1877, iv. p. 17.	Daylesford, <i>Vict.</i>
Genus <b>Illicites</b> , <i>F. v. Mueller</i> , 1877. (Ann. Report Dep. Mines N. S. Wales, for 1876, p. 178.) ?= <i>Illicium</i> .— <i>Magnoliaceæ</i> ?			
<b>I. astrocarpa</b> , <i>F. v. Mueller</i> .	Older G. D. (=M. Pliocene?).	* <i>loc. cit.</i> p. 179.	Gulgong, N. S. Wales.
Genus <b>Laurus</b> , <i>Tournefort</i> , 1700. (Inst. rei Herbariæ, ed. alt. i. p. 597.)— <i>Lauraceæ</i> .			
<b>L. sp. ind.</b>	U. Ter.?(Bacchus Marsh beds).	Smyth, Mineral Statistics, Exhib. Essay, 1872, p. 15 note; Progress Report, 1875, ii. p. 24.	Bacchus Marsh, <i>Vict.</i>
<b>L. Werribeensis</b> , <i>M'Coy</i> .	M. Ter. (Miocene?).	*Geol. Survey, Vict. 1876, iv. p. 32, t. 40, f. 4; Couchman's Progress Report, 1877, iv. p. 17.	Werribee R. <i>Vict.</i>
Genus <b>Liversidgea</b> , <i>F. v. Mueller</i> , 1877. (Jour. R. Soc. N. S. Wales, x. p. 239.)			
<b>L. oxyspora</b> , <i>F. v. Mueller</i> .		* <i>loc. cit.</i> p. 239, plate, f. 1—5.	Richmond River, N. S. Wales.
Genus <b>Ochthodocaryon</b> , <i>F. v. Mueller</i> , 1877. (Ann. Report Dep. Mines, N. S. Wales, for 1876, p. 178.)— <i>Capparidaceæ</i> ?			
<b>O. Wilkinsonii</b> , <i>F. v. Mueller</i> .	Older G. D. (=M. Pliocene?).	* <i>loc. cit.</i> p. 179.	Gulgong; N. S. Wales.

## (Plantæ.)

## (Tertiary.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
Genus <b>Odontocaryon</b> , <i>F. v. Mueller</i> , 1873. (Repts. Mining Surveyors, Regist. Vict. Sept. 1873, App. p. 41; Obs. New Veg. Fossils, 1874, p. 18.)			
<i>O. Macgregorii</i> , <i>F. v. Mueller</i> .	Older G. D. (=M. Pliocene?).	* <i>loc. cit.</i> p. 41, t. 6, figs. 5—8; Smyth's Progress Report, 1874, p. 37; *Obs. New Veg. Foss. 1874, p. 18, t. 6, figs. 5—8.	Nintingbool, near Haddon, <i>Vict.</i>
Genus <b>Pentacoila</b> , <i>F. v. Mueller</i> , 1877. (Ann. Report Dep. Mines, N. S. Wales, for 1876, p. 179.)— <i>Sapindaceæ</i> .			
<i>P. Gulgonensis</i> , <i>F. v. Mueller</i> .	Older G. D. (=M. Pliocene?).	* <i>loc. cit.</i> p. 179.	Gulgong, N. S. <i>Wales</i> .
Genus <b>Penteune</b> , <i>F. v. Mueller</i> , 1874. (Repts. Mining Surveyors, Regist. Vict. Dec. 1873, App. p. 41; Obs. New Veg. Fossils, 1874, p. 20.)— <i>Sapindaceæ</i> .			
<i>P. brachyclinis</i> , <i>F. v. Mueller</i> .	Older G. D. (=M. Pliocene?).	* <i>l. c.</i> p. 41, t. 8, figs. 1—9; *Obs. New Veg. Foss. 1874, p. 21, t. 8, f. 1—9.	Smythe's Creek, <i>Vict.</i>
<i>P. Clarkei</i> , <i>F. v. Mueller</i> .	Older G. D. (=M. Pliocene?).	* <i>l. c.</i> p. 41, t. 7, figs. 1—10; *Obs. New Veg. Foss. 1874, pp. 21 and 27, t. 7, f. 1—10; Wilkinson, Mines and Mining Stats. N. S. Wales, 1875, p. 125.	Smythe's Creek; Eldorado Mines, Beechworth, <i>Vict.</i> Orange, <i>N.S.Wales</i> .
<i>P. trachyclinis</i> , <i>F. v. Mueller</i> .	Older G. D. (=M. Pliocene?).	* <i>l. c.</i> p. 41, t. 8, figs. 10—17; *Obs. New Veg. Foss. 1874, p. 22, t. 8, figs. 10—17.	Smythe's Creek; Eldorado Mines, Beechworth, <i>Vict.</i>
Genus <b>Phymatocaryon</b> , <i>F. v. Mueller</i> , 1871. (Repts. Mining Surveyors, Regist. Vict. June, App. B. p. 47; Obs. New Veg. Fossils, 1874, p. 10.)— <i>Sapindaceæ</i> ?			
<i>P. angulare</i> , <i>F. v. Mueller</i> .	Older G. D. (=M. Pliocene?).	* <i>l. c.</i> Sept. 1874, App. p. 41, t. 10, figs. 1—4; *Obs. New Veg. Foss. 1874, p. 23, t. 10, figs. 1—4.	Smythe's Creek, <i>Vict.</i>
<i>P. bivalve</i> , <i>F. v. Mueller</i> .	Older G. D. (=M. Pliocene?).	*Ann. Report Dep. Mines, N. S. Wales, (for 1876) 1877, p. 180.	Gulgong, N. S. <i>Wales</i> .
<i>P. Mackayi</i> , <i>F. v. Mueller</i> .	Older G. D. (=M. Pliocene?).	*Repts. Mining Surveyors, Regist. Vict. June, 1871, App. B. p. 47, t. 2, f. 1—15; Smyth's Progress Report, 1874, p. 37; *Obs. New Veg. Foss. 1874, pp. 11 and 27, t. 2.	Haddon; Tangil R.; Eldorado Mines, Beechworth, <i>Vict.</i>
Genus <b>Platycoila</b> , <i>F. v. Mueller</i> , 1874. (Repts. Mining Surveyors, Regist. Sept. 1874, App. p. 41; Obs. New Veg. Fossils, p. 23.)			
<i>P. Sullivani</i> , <i>F. v. Mueller</i> .	Older G. D. (=M. Pliocene?).	* <i>l. c.</i> p. 41, t. 9, figs. 5—9; *Obs. New Veg. Foss. 1874, p. 23, t. 9, figs. 5—9.	Nintingbool, near Haddon, <i>Vict.</i>

(Plantæ.)

(Tertiary.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
Genus <b>Pleiacron</b> , <i>F. v. Mueller</i> , 1877. (Ann. Report Dep. Mines, N. S. Wales, for 1876, p. 179.)			
<i>P. elachocarpum</i> , <i>F. v. Mueller</i> .	Older G. D. (=M. Pliocene?).	* <i>loc. cit.</i> p. 179.	Gulgong, N. S. Wales.
Genus <b>Plesiocapparis</b> , <i>F. v. Mueller</i> , 1871. (Repts. Mining Surveyors, Regist. Sept. 1871, App. p. 40; Obs. New Veg. Fossils, 1874, p. 16.)— <i>Capparidaceæ</i> ?			
<i>P. leptocelyphis</i> , <i>F. v. Mueller</i> .	Older G. D. (=M. Pliocene?).	*Ann. Report Dep. Mines, N. S. Wales, (for 1876) 1877, p. 180.	Gulgong, N. S. Wales.
<i>P. prisca</i> , <i>F. v. Mueller</i> .	Older G. D. (=M. Pliocene?).	*Reports Mining Surveyors, Regist. Sept. 1871, App. p. 40, t. 4, figs. 9—11; Smyth's Progress Report, 1874, p. 37; *Obs. New Veg. Foss. 1874, p. 16, t. 4, figs. 9—11.	Haddon, Vict.
Genus <b>Rhytidocaryon</b> , <i>F. v. Mueller</i> , 1875. (Ann. Report Dept. Mines, N. S. Wales, for 1875!; Repts. Mining Surveyors and Regists. Vict. Sept. 1876, p. 39.)— <i>Menispermaceæ</i> .			
<i>R. Wilkinsonii</i> , <i>F. v. Mueller</i> .	Older G. D. (=M. Pliocene?).	Clarke, Remarks Sed. Forms N.S. Wales, 3rd ed. 1875, p. 49; Wilkinson, *Mines and Mining Stats. N. S. Wales, 1875, p. 124; v. Mueller, Repts. Mining Surveyors, Sept. 1876, p. 39, t. 12.	W. of Bathurst; Lumpy Swamp, near Orange and Carcoar, N. S. Wales.
Genus <b>Rhytidotheca</b> , <i>F. v. Mueller</i> , 1871. (Repts. Mining Surveyors and Regists. Vict. Sept. 1871, App. p. 39; Obs. New Veg. Fossils, 1874, p. 14.)			
<i>R. Lynchii</i> , <i>F. v. Mueller</i> .	Older G. D. (=M. Pliocene?).	* <i>l. c.</i> p. 39, t. 4, figs. 1—8; Smyth's Progress Report, 1874, p. 37; *Obs. New Veg. Foss. Vict. 1874, p. 15, t. 4, figs. 1—8.	Nintingbool, near Haddon, Vict.
<i>R. pleioclinis</i> , <i>F. v. Mueller</i> .	Older G. D. (=M. Pliocene?).	*Repts. Mining Surveyors and Regists. Vict. Sept. 1873, App. p. 42, t. 6, figs. 1—4; *Obs. New Veg. Foss. Vict. 1874, p. 19, t. 6, figs. 1—4.	Nintingbool, near Haddon, Vict.
Genus <b>Spondylostrobus</b> , <i>F. v. Mueller</i> , 1870. (Geol. Mag. vii. p. 390; Reports Mining Surveyors and Regists. March 1871, App. B. p. 48; Obs. New Veg. Fossils, 1874, p. 8.)— <i>Conifera</i> .			
<i>S. Smythii</i> , <i>F. v. Mueller</i> .	Older G. D. (=M. Pliocene?).	Geol. Mag. 1870, vii. p. 390; Quart. Jour. Geol. Soc. 1870, xxvi. p. 610; *Repts. Mining Surveyors and Regists. Vict. March, 1871, App. B. p. 48, t. 1; Smyth's Progress Rept. 1874, p. 37; *Obs. New Veg. Foss. Vict. 1874, pp. 8 and 27, t. 1; Wilkinson, Mines and Mining Stat. N. S. Wales, 1875, p. 125; var. <i>cryptaxis</i> , v. Mueller, *Ann. Report, Dep. Mines, N. S. Wales, (for 1876) 1877, p. 180.	Haddon; R. Tangil; Eldorado, near Beechworth, Vict. Orange, N. S. Wales.

## (Plantæ—Rhizopoda.)

## (Tertiary.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
Genus <b>Trematocaryon</b> , <i>F. v. Mueller</i> , 1871. (Repts. Mining Surveyors and Regists. Vict. June, 1871, App. B. p. 48; Obs. New Veg. Fossils, 1874, p. 12.)— <i>Verbenacea</i> .			
T. Maclellani, <i>F. v. Mueller</i> .	Older G. D. (=M. Pliocene?).	* <i>l. c.</i> p. 48, t. 3, figs. 1—17; Smyth's Progress Report, 1874, p. 37; *Obs. New Foss. Veg. Vict. 1874, p. 13, t. 3.	Nintingbool; Eldorado Mines, Beechworth, Vict.
Genus <b>Wilkinsonia</b> , <i>F. v. Mueller</i> , 1877. (Reports Mining Surveyors and Regists. Sept. 1877, p. 37.)			
W. bilaminata, <i>F. v. Mueller</i> .	Older G. D. (=M. Pliocene?).	<i>loc. cit.</i> p. 37, t. 12.	Beneree, Gulgong, N. S. Wales.
Genus <b>Xylocaryon</b> , <i>F. v. Mueller</i> , 1875. (Repts. Mining Surveyors and Regists. Vict. June, 1875, App. p. 41.)			
X. Lockii, <i>F. v. Mueller</i> .	Older G. D. (=M. Pliocene?).	* <i>l. c.</i> p. 41, t. 11; Smyth's *Progress Report, 1876, III. p. 77.	Nintingbool, Vict.

## Kingdom—Animalia. Sub-kingdom—Protozoa. Class—Rhizopoda.

## Order—Foraminifera.

Genus **Amphistegina**, *d'Orbigny*, 1826. (Ann. Sc. Nat. VII. p. 304.)  
*Perforata-Nummulinida*.

A. vulgaris, <i>d'Orb.</i>	Hamilton Series; Mt. Gambier Series (L. or M. Ter.?).	<i>loc. cit.</i> p. 305; Parker, Jones, and Brady, *Annals Nat. Hist. 1865, xvi. pp. 25, 36, t. 3, f. 91; Woods, Quart. Jour. Geol. Soc. 1865, xxi. p. 391.	Muddy Ck. Vict. Mount Gambier, S. Australia? (fide Jones).
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Genus **Biloculina**, *d'Orbigny*, 1826. (Ann. Sc. Nat. VII. p. 297; Jones, Parker, and Brady, Mon. Foram. Crag. 1866, pt. 1, p. 4.)—*Imperforata-Miliolida*.

B. contraria, <i>d'Orb.</i>	M. Ter. (Miocene?).	*Foram. Foss. Vien. 1846, p. 266, t. 16, f. 4—6; H. B. Brady, *Linn. Trans. 1864, xxiv. pp. 466 and 472, t. 48, f. 2; Etheridge, jun. Geol. Mag. Dec. 2, III. p. 335.	Murray Flats, S. Australia.
B. depressa, <i>d'Orb.</i>	M. Ter. (Miocene?).	Ann. Sci. Nat. 1826, VII. p. 298; <i>Miliola (Biloculina)</i> , Parker and Jones, *Phil. Trans. 1865, CLV. p. 409, t. 17, f. 89 a and b; Jones, Parker, and Brady, *Mon. Foram. Crag. 1866, pt. 1, p. 6, t. 3, f. 29 and 30; <i>Biloculina</i> , Etheridge, jun. Geol. Mag. 1876, Dec. 2, III. p. 335.	Murray Flats, S. Australia.
B. elongata, <i>d'Orb.</i>	M. Ter. (Miocene?).	Ann. Sci. Nat. 1826, VII. p. 298; <i>Miliola (Biloculina)</i> , Parker and Jones, *Phil. Trans. 1865, CLV. p. 409, t. 17, f. 88, 90, and 91; <i>Biloculina</i> , Etheridge, jun. Geol. Mag. 1876, Dec. 2, III. p. 335.	Murray Flats, S. Australia.

(Rhizopoda.)		(Tertiary.)	
Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
<i>B. ringens</i> , <i>Lamarck</i> .	M. Ter. (Miocene?).	<i>Miliolites</i> , *Ann. Museum, 1804, v. p. 351; <i>Biloculina</i> , Parker and Jones, *Annals Nat. Hist. 1857, xix. p. 298, t. 10, f. 28—33; <i>Miliola</i> ( <i>Biloculina</i> ), Parker and Jones, *Phil. Trans. 1865, clv. p. 409, t. 15, f. 42—44; <i>Biloculina</i> , Jones, Parker and Brady, *Mon. Foram. Crag. 1866, pt. 1, p. 5, t. 3, f. 26—28; <i>id.</i> Etheridge, jun. Geol. Mag. 1876, Dec. 2, iii. p. 335.	Murray Flats, <i>S. Australia</i> .

Genus *Cassidulina*, *d'Orbigny*, 1826. (Ann. Sc. Nat. vii. p. 282.)  
*Perforata-Globigerinida*.

<i>C. oblonga</i> , <i>Reuss</i> .	Mt. Gambier Series; Table Cape Series (L. or M. Ter.?).	*Denksch. K. Akad. Wissensch. Wien, i. 1850, p. 376, t. 48, f. 5 and 6; Parker and Jones, Quart. Jour. Geol. Soc. 1860, xvi. p. 261; Woods, Geol. Obs. S. Austr. 1862, p. 71; <i>id.</i> Proc. R. Soc. Tas. (for 1875), 1876, p. 18.	Mount Gambier, <i>S. Australia</i> . Table Cape, <i>Tas.</i>
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Genus *Cornuspira*, *Schultze*, 1854. (Organismus Polythal. p. 40; Parker and Jones, Mon. Foram. Crag. 1866, pt. 1, p. 1.)—*Imperforata-Miliolida*.

<i>C. foliacea</i> , <i>Philippi</i> .	M. Ter. (Miocene?).	<i>Orbis</i> , *Enum. Moll. Sicilia, 1844, ii. p. 147, t. 24, f. 26; <i>Cornuspira</i> , H. B. Brady, Linn. Trans. 1864, xxiv. p. 472; <i>id.</i> Jones, Parker, and Brady, *Mon. Foram. Crag. 1866, pt. 1, p. 2, t. 3, f. 50 and 51; <i>id.</i> Etheridge, jun. Geol. Mag. 1876, Dec. 2, iii. p. 335.	Murray Flats, <i>S. Australia</i> .
<i>C. involvens</i> , <i>Reuss</i> .	M. Ter. (Miocene?).	<i>Operculina</i> , *Denksch. K. Akad. Wissensch. Wien, 1850, i. p. 370, t. 46, f. 30; <i>Cornuspira</i> , *Sitz. K. Akad. Wissensch. Wien, 1863, XLVIII. 1 Abth. p. 39, t. 1, f. 2; <i>id.</i> Jones, Parker, and Brady, *Mon. Foram. Crag. 1866, pt. 1, p. 3, t. 3, f. 52—54; <i>id.</i> Etheridge, jun. Geol. Mag. 1876, Dec. 2, iii. p. 335.	Murray Flats, <i>S. Australia</i> .

Genus *Cristellaria*, *Lamarck*, 1812. (Cours de Zoologie! Hist. Nat. Anim. s. Vertèb. 1822, vii. p. 607; Parker, Jones, and Brady, Mon. Foram. Crag. 1866, pt. 1, p. 72.)  
*Perforata-Lagenida*.

<i>C. rotulata</i> , <i>Lamarck</i> .	M. Ter. (Miocene?).	<i>Lenticulites</i> , *Ann. du Museum, v. p. 188; <i>id. ibid.</i> viii. t. 62, f. 11; <i>Cristellaria</i> , <i>d'Orb.</i> *Mém. Soc.	Murray Flats, <i>S. Australia</i> .
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## (Rhizopoda.)

## (Tertiary.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
		Géol. de France, 1840, iv. p. 26, t. 2, f. 15—18; <i>id.</i> Parker and Jones, *Phil. Trans. 1865, clv. p. 345, t. 13, f. 19.	
Genus <b>Discorbina</b> , Parker and Jones, 1862. (Carpenter's Introduction Foram. p. 203.) <i>Perforata-Globigerinidæ.</i>			
D. Bertheloti, <i>d'Orb.</i>	Mt. Gambier Series; Table Cape Series (L. or M. Ter.?).	<i>Rosalina</i> , *Foram. Canaries, 1839, p. 135, t. 1, figs. 28—30; <i>id.</i> Parker and Jones, Quart. Jour. Geol. Soc. 1860, xvi. p. 261; <i>id.</i> Woods, Geol. Obs. S. Austr. 1862, p. 71; <i>Discorbina</i> , Parker and Jones, Phil. Trans. 1865, clv. p. 385; <i>Rosalina</i> , Woods, Proc. R. Soc. Tas. (for 1875) 1876, p. 18.	Mount Gambier, <i>S. Australia</i> . Table Cape, <i>Tas.</i>
D. turbo, <i>d'Orbigny.</i>	Hamilton Series (L. or M. Ter.?).	<i>Rotalia</i> , Ann. Sc. Nat. 1826, vii. p. 274; <i>Discorbina</i> , Parker and Jones, *Phil. Trans. 1865, clv. p. 384, t. 14, f. 18—23; t. 16, figs. 26—28; Parker, Jones, and Brady, Annals Nat. Hist. 1865, xvi. p. 36; Woods, Quart. Jour. Geol. Soc. 1860, xxi. p. 391.	Muddy Ck. <i>Vict.</i>

Genus **Glandulina**, *d'Orbigny*, 1826. (Ann. Sci. Nat. vii. p. 251; Jones, Parker, and Brady, Mon. Foram. Crag. 1866, pt. 1, p. 47.)—*Perforata, Lagenida.*

G. lævigata, <i>d'Orb.</i>	M. Ter. (Miocene?).	<i>Nodosaria</i> , * <i>loc. cit.</i> p. 252, t. 10, f. 1—3; <i>Glandulina</i> , *Foram. Foss. Vien. 1846, p. 29, t. 1, f. 4 and 5; <i>Nodosaria</i> , Parker and Jones, *Annals Nat. Hist. 1857, xix. p. 280, t. 10, f. 6—9; <i>N. (Glandulina)</i> , <i>id.</i> *Phil. Trans. 1865, clv. p. 340, t. 13, f. 1; <i>Glandulina</i> , Jones, Parker, and Brady, *Mon. Foram. Crag. 1866, pt. 1, p. 47, t. 1, f. 1 and 2; <i>id.</i> Etheridge, jun. Geol. Mag. 1876, Dec. 2, iii. p. 335.	Murray Flats, <i>S. Australia</i> .
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Genus **Globigerina**, *d'Orbigny*, 1826. (Ann. Sc. Nat. vii. p. 277.)  
*Perforata-Globigerinidæ.*

G. bulloides, <i>d'Orb.</i>	Mt. Gambier Series (L. or M. Ter.?).	<i>loc. cit.</i> p. 277; *Foram. Foss. Vien. 1846, p. 163, t. 9, figs. 4—6; Parker and Jones, Quart. Jour. Geol. Soc. 1860, xvi. p. 261; Woods, Geol. Obs. S. Austr. 1862, pp. 71 and 72; Parker, Jones, and Brady, *Annals Nat. Hist. 1865, xvi. pp. 21, 31, 36, t. 2, figs. 55, 56; <i>id.</i> * <i>ibid.</i> 1871, viii. p. 175, t. 11, f. 112.	Mount Gambier, <i>S. Australia</i> .
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## (Rhizopoda.)

## (Tertiary.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
Genus <b>Hauerina</b> , <i>d'Orbigny</i> , 1839. (Foram. de Cuba!; Foram. Foss. Vien. 1846, p. 118.) <i>Imperforata-Miliolida</i> .			
<i>H. compressa</i> , <i>d'Orb.</i>	M. Ter. (Miocene?).	*Foram. Foss. Vien. 1846, p. 119, t. 5, f. 25—27; Etheridge, jun. Geol. Mag. 1876, Dec. 2, III. p. 335.	Murray Flats, <i>S. Australia</i> .
Genus <b>Lituola</b> , <i>Lamarck</i> , 1804. (Ann. Museum, v. p. 242.)— <i>Imperforata-Lituolida</i> .			
<i>L. Soldanii</i> , <i>Jones and Parker</i> .		*Quart. Jour. Geol. Soc. 1860, XVI. p. 307.	Geelong, <i>Vict.</i> (fide Jones).
Genus <b>Nummulina</b> , <i>d'Orbigny</i> , 1826. (Ann. Sc. Nat. VII. p. 295. Brady, Mon. Carb. Permian Foram. 1876, p. 147.)— <i>Perforata-Nummulinida</i> .			
<i>N. Raymondi</i> , <i>Defr.?</i>	Hamilton beds (L. or M. Ter.?).	<i>Nummulites</i> , Dict. Sc. Nat. 1825, XXXV. p. 226; <i>d'Archiac et Haime</i> , *Anim. Foss. de l'Inde, 1853, p. 128, t. 7, figs. 13—17.	Muddy Ck. <i>Vict.</i> (fide Jones).
Genus <b>Operculina</b> , <i>d'Orbigny</i> , 1826. (Ann. Sc. Nat. VII. p. 281.)— <i>Perforata-Nummulinida</i> .			
<i>O. Arabica</i> , <i>Carter</i> .	Mt. Gambier Series.	*Annals Nat. Hist. 1852, X. p. 161, t. 4; Woods, Geol. Obs. S. Austr. 1862, p. 72.	Mount Gambier, <i>S. Australia</i> .
<i>O. complanata</i> , <i>Defr.</i>	Hamilton Series; Mt. Gambier Series (L. or M. Ter.?).	<i>Lenticulites</i> , *Dict. Sc. Nat. 1822, p. 453; <i>Operculina</i> , <i>d'Orb.</i> Ann. Sc. Nat. 1826, VII. p. 281; Parker and Jones, Annals Nat. Hist. 1861, VIII. p. 229; <i>id. ibid.</i> 1863, XII. pp. 435, 440; Parker, Jones, and Brady, <i>ibid.</i> 1865, XVI. pp. 32, 36, t. 3, f. 93; Woods, Quart. Jour. Geol. Soc. 1865, XXI. p. 391.	Muddy Ck. <i>Vict.</i> Mount Gambier, <i>S. Australia?</i> (fide Jones).
Genus <b>Orbitolites</b> , <i>Lamarck</i> , 1801. (Système Anim. s. Vertèb. p. 376; Parker, Jones, and Brady, Mon. Foram. Crag. 1866, pt. 1, p. 22.)— <i>Imperforata-Miliolida</i> .			
<i>O. complanatus</i> , <i>Lamarck</i> .	M. Ter. (Miocene?).	* <i>loc. cit.</i> p. 376; Etheridge, jun. Geol. Mag. 1876, Dec. 2, III. p. 335.	Murray Flats, <i>S. Australia</i> .
Genus <b>Orbulina</b> , <i>d'Orbigny</i> , 1839. (Foram. de Cuba, p. 3.)— <i>Perforata-Globigerinida</i> .			
<i>O. universa</i> , <i>d'Orb.</i>	Mt. Gambier Series (L. or M. Ter.?).	* <i>l. c.</i> p. 3, t. 1, f. 1; *Foram. Canaries, 1839, p. 122, t. 1, f. 1; Parker, Jones, and Brady, Annals Nat. Hist. 1871, VIII. p. 260.	Mount Gambier, <i>S. Australia?</i> (fide Jones).



(Rhizopoda.)

(Tertiary.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
Genus <i>Planorbulina</i> , <i>d'Orbigny</i> , 1826 (see p. 103).— <i>Perforata-Globigerinida</i> .			
<i>P. Haidingerii</i> , <i>d'Orb.</i>	H a m i l t o n Series; Mt. Gambier Series (L. or M. Ter.?).	<i>Rotalia</i> , *Foram. Foss. Vien. 1846, p. 154, t. 8, figs. 8 and 9; <i>Rotalia</i> , Parker and Jones, Quart. Jour. Geol. Soc. 1860, xvi. p. 261; <i>id.</i> Woods, Geol. Obs. S. Austr. 1862, p. 71; <i>Pl. farcta</i> , var. <i>Haidingerii</i> , Parker and Jones, *Phil. Trans. 1865, clv. p. 382, t. 16, f. 22; <i>Planorbulina Haidingerii</i> , Woods, Quart. Jour. Geol. Soc. 1865, xxi. p. 391; <i>id.</i> Jones and Parker, Quart. Jour. Geol. Soc. 1872, xxviii. pp. 109, 110, table, <i>et seq.</i>	Muddy Ck. Vict. Mount Gambier, S. Australia.
<i>P. lobatula</i> , <i>d'Orb.</i>	M. Ter. (Miocene?).	See p. 103, <i>Truncatulina</i> , Parker and Jones, *Annals Nat. Hist. 1857, xix. p. 293, t. 10, f. 17—21; <i>id.</i> Etheridge, jun. Geol. Mag. 1876, Dec. 2, iii. p. 335.	Murray Flats, S. Australia.
<i>P. reticulata</i> , <i>Czjžek</i> .	Mt. Gambier Series (L. or M. Ter.?).	<i>Rotalina</i> , *Haiding. Nat. Abhandl. 1848, ii. p. 145, t. 13, figs. 7—9; <i>Rotalia</i> , Parker and Jones, Quart. Jour. Geol. Soc. 1860, xvi. p. 261; <i>id.</i> Woods, Geol. Obs. S. Austr. 1862, p. 71; <i>Planorbulina</i> , Parker and Jones, l. c. 1872, xxviii. p. 112; Etheridge, jun. Geol. Mag. Dec. 2, iii. p. 335.	Mount Gambier, S. Australia.
<i>P. rotula</i> , <i>d'Orb.</i>	Mt. Gambier Series (L. or M. Ter.?).	<i>Anomalina</i> , *Foram. Foss. Vien. 1846, p. 172, t. 10, f. 10—12; <i>Rotalia</i> , Parker and Jones, Quart. Jour. Geol. Soc. 1860, xvi. p. 261; <i>id.</i> Woods, Geol. Obs. S. Austr. 1862, p. 71; <i>Pl. tuberosa</i> , var. <i>rotula</i> , Jones and Parker, l. c. 1872, xxviii. pp. 109, table, <i>et seq.</i>	Mount Gambier, S. Australia.
<i>P. ungeriana</i> , <i>d'Orb.</i>	Mt. Gambier Series (L. or M. Ter.?).	Vide p. 104; <i>Rotalia</i> , Parker and Jones, Quart. Jour. Geol. Soc. 1860, xvi. p. 261; Woods, Geol. Obs. S. Austr. 1862, p. 71; <i>Planorbulina</i> , Jones and Parker, Quart. Jour. Geol. Soc. 1872, xxviii. pp. 109, table, <i>et seq.</i> ; <i>id.</i> Etheridge, jun. Geol. Mag. 1876, Dec. 2, iii. p. 335.	Mount Gambier, S. Australia.

Genus *Planularia*, *DeFrance*, 1826. (Dict. Sc. Nat. xli. p. 244.)—*Perforata-Lagenida*.

<i>P. crepidula</i> , <i>Fichtel and Moll.</i>	Mt. Gambier Series (L. or M. Ter.?).	<i>Nautilus</i> , *Testacea Minut. 1803, p. 107, t. 19, fig. f—i.	Mount Gambier, S. Australia (fide Jones).
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## (Rhizopoda.)

(Tertiary.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
Genus <i>Polymorphina</i> , <i>d'Orbigny</i> , 1826 (see p. 104).— <i>Perforata-Lagenida</i> .			
<i>P. lactea</i> , <i>Walker</i> and <i>Jacob</i> .	Mt. Gambier Series (L. or M. Ter.?).	Parker and Jones, <i>Quart. Jour. Geol. Soc.</i> 1860, xvi. p. 261; Woods, <i>Geol. Obs. S. Austr.</i> 1862, p. 71; <i>id.</i> <i>Quart. Jour. Geol. Soc.</i> 1865, xxi. p. 391 (see p. 104).	Muddy Ck. <i>Vict. Mount Gambier, S. Australia.</i>
Genus <i>Polystomella</i> , <i>Lamarek</i> , 1822. ( <i>Hist. Nat. Anim. s. Vertèb.</i> vii. p. 624.) <i>Perforata-Nummulinida</i> .			
<i>P. craticulata</i> , <i>Fichtel</i> and <i>Moll</i> .	M. Ter. (Miocene?).	<i>Nautilus</i> , * <i>Testacea Minut.</i> 1803, p. 51, t. 5, fig. <i>h, i,</i> and <i>k</i> ; Parker and Jones, <i>Phil. Trans.</i> 1865, clv. p. 400; Etheridge, <i>jun. Geol. Mag.</i> 1876, Dec. 2, iii. p. 335.	Murray Flats, <i>S. Australia.</i>
<i>P. macella</i> , <i>Fichtel</i> and <i>Moll</i> .	M. Ter. (Miocene?).	<i>Nautilus</i> , * <i>Testacea Minut.</i> 1803, p. 107, t. 19, fig. <i>f, g</i> ; Etheridge, <i>jun. Geol. Mag.</i> 1876, Dec. 2, iii. p. 335.	Murray Flats, <i>S. Australia.</i>
Genus <i>Pulvinulina</i> , <i>Parker and Jones</i> , 1862. ( <i>Carpenter's Introd. Foram.</i> p. 210.) <i>Perforata-Globigerinida</i> .			
<i>P. pulchella</i> , <i>d'Orb.</i>	Hamilton Series; Mt. Gambier Series (=L. or M. Ter.?).	<i>Rotalia</i> , <i>Ann. Sc. Nat.</i> 1826, vii. p. 274; <i>Pulvinulina</i> , Parker, Jones, and Brady, <i>Annals Nat. Hist.</i> 1865, xvi. p. 30; <i>id.</i> Woods, <i>Quart. Jour. Geol. Soc.</i> 1865, xxi. p. 391.	Muddy Ck. <i>Vict. Mount Gambier, S. Australia</i> (fide Jones).
<i>P. repanda</i> , var. <i>elegans</i> , <i>d'Orbigny</i> .	M. Ter. (Miocene?).	<i>P. elegans</i> , <i>d'Orb. Ann. Sci. Nat.</i> 1826, vii. p. 276; <i>P. repanda</i> , var. <i>elegans</i> , Parker and Jones * <i>Phil. Trans.</i> 1865, clv. p. 397, t. 16, f. 44—46; Etheridge, <i>jun. Geol. Mag.</i> 1876, Dec. 2, iii. p. 335.	Murray Flats, <i>S. Australia.</i>
Genus <i>Quinqueloculina</i> , <i>d'Orbigny</i> , 1826. ( <i>Ann. Sc. Nat.</i> 1826, viii. p. 301; Jones, Parker, and Brady, <i>Mon. Foram. Crag.</i> 1866, pt. 1, p. 9.) <i>Imperforata-Miliolida</i> .			
<i>Q. agglutinans</i> , <i>d'Orb.</i>	M. Ter. (Miocene?).	* <i>Foram. de Cuba</i> , 1839, p. 195, t. 12, f. 11—131; <i>Miliola</i> ( <i>Quinqueloculina</i> ), Parker and Jones, * <i>Phil. Trans.</i> 1865, clv. p. 410, t. 15, f. 37 <i>a</i> and <i>b</i> ; <i>Quinqueloculina</i> , Etheridge, <i>jun. Geol. Mag.</i> 1876, Dec. 2, iii. p. 335.	Murray Flats, <i>S. Australia.</i>
<i>Q. secans</i> , <i>d'Orb.</i>	M. Ter. (Miocene?).	<i>Ann. Sc. Nat.</i> 1826, vii. p. 303; Parker, Jones, and Brady, <i>Annals Nat. Hist.</i> 1865, xvi. p. 34, t. 1, f. 10; Etheridge, <i>jun. Geol. Mag.</i> 1876, Dec. 2, iii. p. 335.	Murray Flats, <i>S. Australia.</i>

## (Rhizopoda.)

## (Tertiary.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
Q. seminulum, <i>Linn.</i>	Hamilton Series; Mt. Gambier Series (L. or M. Ter.?), &c.	*Syst. Nat. 12th ed. p. 1264, no. 791; <i>Quinqueloculina</i> , d'Orb. Ann. Sc. Nat. 1826, vii. p. 303; <i>Miliola</i> ( <i>Quinqueloculina</i> ), Parker and Jones, Annals Nat. Hist. 1859, iii. p. 480; <i>Quinqueloculina</i> , Parker, Jones, and Brady, <i>ibid.</i> 1871, viii. p. 251, t. 8, f. 10; <i>id.</i> Etheridge, jun. Geol. Mag. 1876, Dec. 2, iii. p. 335.	Muddy Ck. <i>Vict.</i> Mt. Gambier (fide Jones); Murray Flats, <i>S. Austr.</i>
Q. subrotunda, <i>Montagu.</i>	M. Ter. (Miocene?).	<i>Vermiculum</i> , Test. Brit. pt. 2, 1803, p. 521; <i>Quinqueloculina</i> , d'Orb. Ann. Sci. Nat. 1826, vii. p. 302; <i>Miliola</i> ( <i>Quinque.</i> ), Parker and Jones, *Phil. Trans. 1865, clv. p. 411, t. 15, f. 38 a and b; <i>Quinqueloculina</i> , Etheridge, jun. Geol. Mag. 1876, Dec. 2, iii. p. 335; Jones, Parker, and Brady, *Mon. Crag. Foram. 1866, pt. 1, p. 11.	Murray Flats, <i>S. Australia.</i>

Genus **Rosalina**, *d'Orbigny*, 1826. (Ann. d. Sc. Nat. vii. p. 271.) Vide *Discorbina*, *Pulvinulina*, &c.

*R. Bertheloti*, *d'Orb.* | Vide *Discorbina Bertheloti*, *d'Orb.* |

Genus **Rotalia**, *Lamarck*, 1804. (Ann. Museum, v. p. 183.)—*Perforata-Globigerinida*.

<i>R. Beccarii</i> , <i>Linn.</i> var. <i>Soldanii</i> , <i>d'Orb.</i>	M. Ter. (Miocene?).	<i>Nautilus Beccarii</i> , Syst. Nat. ed. 12, i. pt. 2, p. 1162; <i>Rotalia</i> , <i>id.</i> Parker and Jones, Annals, 1859, iii. p. 479; var. <i>Soldanii</i> , <i>id.</i> *Phil. Trans. 1865, clv. p. 389, t. 16, f. 31—33; <i>R. Soldanii</i> , Stache, *Pal. N. Seeland, 1865, p. 273, t. 24, f. 23 a—c, f. 24 a—c; <i>id.</i> R. Etheridge, jun. Geol. Mag. 1876, Dec. 2, iii. p. 335.	Murray Flats, <i>S. Australia.</i>
<i>R. Haidingeri</i> , <i>d'Orb.</i>		Vide <i>Planorbulina Haidingeri</i> , <i>d'Orbigny</i> .	
<i>R. reticulata</i> , <i>Czjzck.</i>		Vide <i>Planorbulina reticulata</i> , <i>Czjzck.</i>	
<i>R. rotula</i> , <i>d'Orb.</i>		Vide <i>Planorbulina rotula</i> , <i>d'Orb.</i>	
<i>R. Ungeriana</i> , <i>d'Orb.</i>		Vide <i>Planorbulina Ungeriana</i> , <i>d'Orbigny</i> .	

## (Rhizopoda.)

## (Tertiary.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
Genus <i>Spiroloculina</i> , <i>d'Orbigny</i> , 1826. (Ann. Sc. Nat. vii. p. 298; Jones, Parker, and Brady, Mon. Foram. Crag. 1866, pt. 1, p. 15.)— <i>Imperforata-Miliolida</i> .			
<i>S. canaliculata</i> , <i>d'Orbigny</i> .	M. Ter. (Miocene?).	*Foram. Foss. Vien. 1846, p. 269, t. 16, f. 10—12; Jones, Parker, and Brady, *Mon. Foram. Crag. pt. 1, 1866, p. 16, t. 3, f. 39 and 40; Etheridge, jun. Geol. Mag. 1876, Dec. 2, iii. p. 335.	Murray Flats, <i>S. Australia</i> .
Genus <i>Textularia</i> , <i>Defrance</i> , 1824. (Dict. Sc. Nat. xxxii. p. 177.) <i>Perforata-Globigerinida</i> .			
<i>T. agglutinans</i> , <i>d'Orb.</i>	Mt. Gambier Series; Table Cape Series (L. or M. Ter.?).	*Foram. de Cuba, t. 1, figs. 32—34; Parker and Jones, Quart. Jour. Geol. Soc. 1860, xvi. p. 261; Woods, Geol. Obs. S. Austr. 1862, p. 71; Parker and Jones, Annals Nat. Hist. 1863, xi. pp. 91, 97; Woods, Proc. R. Soc. Tas. (for 1875) 1876, p. 18.	Mount Gambier, <i>S. Australia</i> . Table Cape, <i>Tas.</i>
<i>T. pygmæa</i> , <i>d'Orb.</i>	Mt. Gambier Series; Table Cape Series (L. or M. Ter.?).	Ann. Sc. Nat. 1826, vii. p. 263; Parker and Jones, Quart. Jour. Geol. Soc. 1860, xvi. p. 261; Woods, Geol. Obs. S. Austr. 1862, p. 71; Parker, Jones, and Brady, Annals Nat. Hist. 1865, xvi. pp. 19, 36, t. 2, f. 59; Woods, Proc. R. Soc. Tas. (for 1875) 1876, p. 18.	Mount Gambier, <i>S. Australia</i> . Table Cape, <i>Tas.</i>
<i>T. sagittula</i> , <i>Defr.</i>	Hamilton Series; Mt. Gambier Series (L. or M. Ter.?).	Dict. Sc. Nat. 1824, xxxii. p. 177; <i>ibid.</i> 1828, liii. p. 344, t. 13, f. 5; <i>d'Orb.</i> Ann. Sc. Nat. 1826, vii. p. 263; Parker and Jones, Annals Nat. Hist. 1863, xii. pp. 218, 437; Woods, Quart. Jour. Geol. Soc. 1865, xxi. p. 391; Parker, Jones, and Brady, Annals Nat. Hist. 1871, viii. p. 168, t. 11, f. 114.	Muddy Ck. <i>Vict.</i> Mount Gambier, <i>S. Australia</i> (fide Jones).
Genus <i>Triloculina</i> ( <i>Miliola</i> ), <i>d'Orbigny</i> , 1826. (Ann. Sc. Nat. vii. p. 299; Jones, Parker, and Brady, Mon. Foram. Crag. 1866, pt. 1, p. 7.)— <i>Imperforata-Miliolida</i> .			
<i>T. oblonga</i> , <i>Montagu</i> .	M. Ter. (Miocene?).	<i>Verniculum</i> , *Test. Brit. pt. 2, 1803, p. 522, t. 14, f. 9; <i>Triloculina?</i> , Parker and Jones, *Annals Nat. Hist. 1857, xix. p. 300, t. 10, f. 37; <i>id.</i> Jones, Parker, and Brady, *Mon. Foram. Crag. pt. 1, 1866, p. 7, t. 3, f. 31 and 32; <i>id.</i> Etheridge, jun. Geol. Mag. 1876, Dec. 2, iii. p. 335.	Murray Flats, <i>S. Australia</i> .

## (Rhizopoda—Actinozoa.)

## (Tertiary.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
<i>T. tricarinata</i> , <i>d'Orb.</i>	M. Ter. (Miocene?).	Ann. Sc. Nat. 1826, vii. p. 299; Parker and Jones, *Phil. Trans. 1865, clv. p. 409, t. 15, f. 40; Jones, Parker, and Brady, *Mon. Foram. Crag. pt. 1, 1866, p. 7, t. 3, f. 33 and 34; Etheridge, jun. Geol. Mag. 1876, Dec. 2, iii. p. 335.	Murray Flats, S. Australia.
<i>T. trigonula</i> , <i>Lamk.</i>	Hamilton Series; Mt. Gambier Series (L. or M. Ter.?).	<i>Miliolites</i> , *Ann. Museum, 1804, v. p. 351; <i>Triloculina</i> , <i>d'Orb.</i> Ann. Sc. Nat. 1826, vii. p. 299; <i>id.</i> Parker and Jones, Annals Nat. Hist. 1860, v. pp. 287, 289, 470; <i>id. ibid. id.</i> 1863, xii. pp. 437, 441; <i>id.</i> Parker, Jones, and Brady, <i>ibid.</i> 1865, xvi. p. 33, t. 1, f. 7; <i>Miliola</i> , Woods, Quart. Jour. Geol. Soc. 1865, xxi. p. 391.	Muddy Ck. Vict. Mount Gambier, S. Australia. (fide Jones).

## Order—Spongida.

Genus *Tethia*, *Lamarck*, 1816. (Hist. Nat. Anim. s. Vertèb. ii. p. 384; *Tethea*, Bowerbank, Mon. Brit. Spongiadae, p. 181.)—*Silicea*.

<i>T. Newberyi</i> , <i>M'Coy.</i>	M. Ter. (Miocene?).	Couchman's Progress Rept. 1877, iv. p. 155; *Geol. Survey, Vict. Dec. v. 1877, p. 31, t. 48, f. 1.	Boggy Creek, Vict.
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## Sub-kingdom—Cœlenterata. Class—Actinozoa.

## Zoantharia et Alcyonaria.

Genus *Amphihelia*, *Edwards* and *Haine*, 1857. (Hist. Nat. Coralliaires, ii. p. 118.)<sup>1</sup> *Aporosa-Oculinida*.

<i>A. incrustans</i> , <i>Duncan.</i>		*Quart. Jour. Geol. Soc. 1870, xxvi. p. 304, t. 20, f. 6.	W. of Aire River, Cape Otway, Vict.
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Genus *Antillia*, *Duncan*, 1864. (Quart. Jour. Geol. Soc. xx. p. 28; Brüggemann, Annals Nat. Hist. 1877, xx. p. 307.)—*Aporosa-Astræida*.

<i>A. lens</i> , <i>Duncan.</i>	Hamilton Series (L. or M. Ter.?).	*Annals Nat. Hist. 1865, xvi. p. 185, t. 8, f. 6; *Quart. Jour. Geol. Soc. 1870, xxvi. p. 306, t. 20, f. 12.	Hamilton, Vict.
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Genus *Balanophyllia*, *S. V. Wood*, 1844. (Annals Nat. Hist. xiii. p. 11.)

*Perforata-Madreporidae.*

<i>B. armata</i> , <i>Duncan.</i>	Schnapper Pt. beds = Oligocene (L. Ter.). Hamilton Series (L. or M. Ter.?).	*Quart. Jour. Geol. Soc. 1870, xxvi. p. 302, t. 21, f. 3; M'Coy, Smyth's Progress Report, 1874, p. 35.	Hamilton; Schnapper Point, Hobson's Bay, Vict.
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<sup>1</sup> Previously called *Amphelia*, by Messrs Edwards and Haine (see *Compt. Rend.* xxix. p. 69, 1849).

## (Actinozoa.)

## (Tertiary.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
<i>B. Australiensis</i> , <i>Duncan</i> .	Hamilton Series (L. or M. Ter.?).	*Annals Nat. Hist. 1864, xiv. p. 164, t. 6, f. 1; Quart. Jour. Geol. Soc. 1865, xxi. p. 394; * <i>ibid.</i> 1870, xxvi. p. 303, t. 21, f. 6.	Muddy Creek, near Hamilton, <i>Vict.</i>
<i>B. campanulata</i> , <i>Duncan</i> .	Schnapper Pt. beds = Oligocene (L. Ter.).	*Quart. Jour. Geol. Soc. 1870, xxvi. p. 302, t. 21, f. 1; M'Coy, Smyth's Progress Report, 1874, p. 35.	W. of Ayre River, Cape Otway; Schnapper Point, Hobson's Bay, <i>Vict.</i>
<i>B. cylindrica</i> , <i>Michelotti</i> .		<i>Turbinolia</i> , *Spec. Zooph. Del. 1838, p. 73; <i>id.</i> Michelin, *Icon. Zooph. p. 38, t. 8, f. 5; <i>Balano-phyllia</i> , Edwards, Hist. Nat. Corall. 1860, iii. p. 101; Duncan, *Quart. Jour. Geol. Soc. 1870, xxvi. p. 304, t. 21, f. 7.	W. of Cape Otway, <i>Vict.</i>
<i>B. fragilis</i> , <i>Duncan</i> .	Hamilton Series (L. or M. Ter.?).	*Quart. Jour. Geol. Soc. 1870, xxvi. p. 303, t. 21, f. 5.	Muddy Creek, near Hamilton, <i>Vict.</i>
<i>B. Selwyni</i> , <i>Duncan</i> .		*Quart. Jour. Geol. Soc. 1870, xxvi. p. 303, t. 21, f. 4.	W. of Ayre River, Cape Otway, <i>Vict.</i>
<i>B. seminuda</i> , <i>Duncan</i> .	Hamilton Series (L. or M. Ter.?).	*Quart. Jour. Geol. Soc. 1870, xxvi. p. 302, t. 21, f. 2.	Hamilton, <i>Vict.</i>
<i>B. tubuliformis</i> , <i>Duncan</i> .	Hamilton Series (L. or M. Ter.?).	*Quart. Jour. Geol. Soc. 1870, xxvi. p. 304, t. 21, f. 9.	Muddy Creek, near Hamilton, <i>Vict.</i>
<i>B. Ulrichi</i> , <i>Duncan</i> .		*Quart. Jour. Geol. Soc. 1870, xxvi. p. 304, t. 21, f. 8.	W. of Cape Otway, <i>Vict.</i>

Genus *Caryophyllia*, Lamarek, 1801. (Système, p. 370; Histoire, 1816, ii. p. 224; Edwards, Hist. Nat. Corall. 1857, ii. p. 11.)—*Aporosa-Turbinolidae*.

<i>C. viola</i> , Woods and <i>Duncan</i> .	Schnapper Pt. beds = Oligocene (L. Ter.). Hamilton Series (L. or M. Ter.?).	<i>Turbinolia</i> , Woods, ms.; <i>Caryophyllia</i> , Woods and Duncan, *Annals Nat. Hist. 1864, xiv. p. 162, t. 5, f. 2; Duncan, Quart. Jour. Geol. Soc. 1865, xxi. p. 394; <i>id.</i> * <i>ibid.</i> 1870, xxvi. p. 295, t. 19, f. 1; <i>ibid.</i> M'Coy, Smyth's Progress Report, 1874, p. 35.	Violet Creek, near Hamilton; Schnapper Point, Hobson's Bay, <i>Vict.</i>
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Genus *Conosmilia*, *Duncan*, 1865. (Annals Nat. Hist. xvi. p. 184.)—*Aporosa-Astræida*.

<i>C. anomala</i> , <i>Duncan</i> .	Hamilton Series (L. or M. Ter.?).	* <i>l. c.</i> p. 184, t. 8, f. 4; *Quart. Jour. Geol. Soc. 1870, xxvi. p. 305, t. 20, f. 10.	Hamilton, <i>Vict.</i>
<i>C. elegans</i> , <i>Duncan</i> .		* <i>l. c.</i> p. 184, t. 8, f. 3; *Quart. Jour. Geol. Soc. 1870, xxvi. p. 305, t. 20, f. 5.	Geelong, <i>Vict.</i>
<i>C. lituola</i> , <i>Duncan</i> .		*Quart. Jour. Geol. Soc. 1870; xxvi. p. 305, t. 20, f. 11.	W. of Gellibrand River, <i>Vict.</i>

## (Actinozoa.)

## (Tertiary.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
<i>C. striata</i> , <i>Duncan</i> .		*Annals Nat. Hist. 1865, xvi. p. 184, t. 8, f. 3; *Quart. Jour. Geol. Soc. 1870, xxvi. p. 305, t. 20, f. 9.	Geelong, <i>Vict.</i>
Genus <i>Conotrochus</i> , <i>Sequenza</i> , 1864. (Mem. R. Accad. Sci. Torino, 2nd ser. xxi. p. 477.) <i>Aporosa-Turbinolida</i> .			
<i>C. Maccoyi</i> , <i>Duncan</i> .	Table Cape Series (L. or M. Ter.?).	*Quart. Jour. Geol. Soc. 1870, xxvi. p. 298, t. 19, f. 7; M'Coy, Smyth's Progress Report, 1874, p. 35; Woods, Proc. R. Soc. Tas. (for 1875) 1876, p. 17.	W. of Cape Otway, <i>Vict.</i> Table Cape, <i>Tas.</i>
<i>C. typus</i> , <i>Sequenza</i> .		*Mem. R. Accad. Sci. Torino, xxi. p. 477, t. 10, f. 1; var. <i>Australiensis</i> , <i>Duncan</i> , *Quart. Jour. Geol. Soc. 1870, xxvi. p. 298, t. 19, f. 8.	W. of Gellibrand River, <i>Vict.</i>
Genus <i>Cycloseris</i> , <i>Edwards</i> and <i>Haime</i> , 1849. (Comptes Rendus, xxix. p. 72.) <i>Aporosa-Fungida</i> .			
<i>C. tenuis</i> , <i>Duncan</i> .		*Quart. Jour. Geol. Soc. 1870, xxvi. p. 301, t. 20, f. 8.	E. of Gellibrand River, <i>Vict.</i>
Genus <i>Deltocyathus</i> , <i>Edwards</i> and <i>Haime</i> , 1848. (Ann. Sc. Nat. 3rd ser. ix. p. 325.) <i>Aporosa-Turbinolida</i> .			
<i>D. italicus</i> , <i>Edwards</i> and <i>Haime</i> .		*Ann. Sc. Nat. 3rd ser. ix. p. 326, t. 10, f. 11; var. <i>Australiensis</i> , <i>Duncan</i> , *Quart. Jour. Geol. Soc. 1870, xxvi. p. 297, t. 19, f. 4; M'Coy, Smyth's Progress Report, 1874, p. 35.	W. of Cape Otway, <i>Vict.</i>
Genus <i>Dendrophyllia</i> , <i>Blainville</i> , 1830. (Dict. Sc. Nat. lx. p. 319.) <i>Perforata-Eupsammida</i> .			
<i>D. Duncani</i> , <i>Tenison-Woods</i> .	Table Cape Series (L. or M. Ter.?).	Notes, Tertiary Foss. Tas. 1876, p. 43.	Table Cape, <i>N. Tas.</i>
<i>D. epithcata</i> , <i>Duncan</i> .	Table Cape Series (L. or M. Ter.?).	Quart. Jour. Geol. Soc. 1875, xxxi. p. 677, t. 38c, f. 1 and 2.	Table Cape, <i>N. Tas.</i>
Genus <i>Flabellum</i> , <i>Lesson</i> , 1831, (Illust. de Zool. pl. xiv.) = <i>Phylloides</i> , <i>Philippi</i> . <i>Aporosa-Turbinolida</i> .			
<i>F. Candeanum</i> ( <i>d'Orb. ms.</i> ), <i>Edwards</i> and <i>Haime</i> .	Murray River Series (L. or M. Ter.?), &c.	*Ann. Soc. Nat. 3rd ser. ix. p. 278, t. 8, f. 13; <i>Duncan</i> , Annals Nat. Hist. 1864, xiv. p. 163; *Quart. Jour. Geol. Soc. 1870, xxvi. p. 300, t. 20, f. 1.	W. of Gellibrand River, <i>Vict.</i> Murray River, <i>S. Australia</i> .

(Actinozoa.)

(Tertiary.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
<i>F. distinctum</i> , <i>Edwards</i> and <i>Haimé</i> .		*Ann. Sc. Nat. 3rd ser. ix. p. 262; Duncan, *Quart. Jour. Geol. Soc. 1870, xxvi. p. 299, t. 20, f. 2; M'Coy, Smyth's Progress Report, 1874, p. 35.	W. of Aire River, Cape Otway, Vict.
<i>F. Duncani</i> , <i>Tenison-Woods</i> .	Table Cape Series (L. or M. Ter.?).	*Notes, Tertiary Foss. Tas. 1876, p. 43.	Table Cape, Tas.
<i>F. Gambierense</i> , <i>Duncan</i> .	Mt. Gambier Series (L. or M. Ter.?).	*Annals Nat. Hist. 1864, xiv. p. 163, t. 5, f. 3; Quart. Jour. Geol. Soc. 1865, xxi. p. 394; * <i>ibid.</i> 1870, xxvi. p. 299, t. 19, figs. 9 and 10; M'Coy, Smyth's Progress Report, 1874, p. 35; ?Johnston, Notes, Tertiary Beds, Table Cape, Tas. 1876, p. 31.	Mount Gambier, S. Australia. W. of Aire River, Cape Otway, Vict. Table Cape, Tas.
<i>F. Victoriae</i> , <i>Duncan</i> .	Schnapper Pt. Series = Oligocene (L. Ter.). Hamilton Series (L. or M. Ter.?).	*Annals Nat. Hist. 1864, xiv. p. 162, t. 5, f. 2; Quart. Jour. Geol. Soc. 1865, xxi. p. 394; * <i>ibid.</i> 1870, xxvi. p. 299, t. 19, f. 11; M'Coy, Smyth's Progress Report, 1874, p. 35; ?Johnston, Notes, Tertiary Beds, Table Cape, Tas. 1876, p. 31.	Muddy Creek, near Hamilton; Schnapper Point, Hobson's Bay, Vict. Table Cape, Tas.

Genus *Heliastrea*, *Edwards*, 1857. (Hist. Nat. des Corall. ii. p. 456.)  
*Aporosa-Astræidæ*.

<i>H. Tasmaniensis</i> , <i>Duncan</i> .	Table Cape Series.	*Quart. Jour. Geol. Soc. 1876, xxxii. p. 342, t. 22, f. 1—3.	Table Cape, Tas.
Genus <i>Isis</i> , <i>Linnaeus</i> , 1758. (Systema, ed. 10, p. 799; Lamarek, Système, 1801, p. 375; <i>id.</i> Histoire, 1816, ii. p. 300.)— <i>Aleyonaria-Gorgoniadæ</i> .			
<i>I. sp. ind.</i>		Duncan, *Quart. Jour. Geol. Soc. xxxi. p. 673, group 1, t. 38 a, figs. 5—7, group 2, t. 38 a, f. 4, group 3, t. 38 a, figs. 1—3.	Cape Otway, Vict.

Genus *Palæoseris*, *Duncan*, 1870. (Quart. Jour. Geol. Soc. xxvi. p. 301.)  
*Aporosa-Fungidæ*.

<i>P. Woodsi</i> , <i>Duncan</i> .	Hamilton Series (L. or M. Ter.?).	<i>Trochoseris</i> , Duncan, *Annals Nat. Hist. 1864, xiv. p. 164, t. 6, f. 2; <i>ibid.</i> Quart. Jour. Geol. Soc. 1865, xxi. p. 394; <i>Palæoseris</i> , * <i>id.</i> 1870, xxvi. p. 301, t. 20, f. 7.	Muddy Creek, near Hamilton, Vict.
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Genus *Placotrochus*, *Edwards* and *Haimé*, 1848. (Ann. Sc. Nat. 3rd ser. ix. p. 232; *Edwards*, Hist. Nat. Corall. 1857, ii. p. 98.)—*Aporosa-Turbinolidæ*.

<i>P. deltoideus</i> , <i>Duncan</i> .	Schnapper Pt. Series = Oligocene (L. Ter.). Hamilton Series (L. or M. Ter.?).	*Annals Nat. Hist. 1864, xiv. p. 164, t. 5, f. 5; Quart. Jour. Geol. Soc. 1865, xxi. p. 394; * <i>ibid.</i> 1870, xxvi. p. 300, t. 20, f. 4; M'Coy, Smyth's Progress Report, 1874, p. 35; Woods, Proc. R. Soc. Tas. (for 1875) 1876, p. 17.	Muddy Creek, near Hamilton; Schnapper Point; W. of Gellibrand River, Vict. Table Cape, Tas.
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## (Actinozoa.)

## (Tertiary.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
<i>P. elongatus</i> , <i>Duncan</i> .	Schnapper Pt. Series = Oligocene (L. Ter.). Hamilton Series (L. or M. Ter.?).	*Annals Nat. Hist. 1864, xiv. p. 163, t. 5, f. 4; Quart. Jour. Geol. Soc. 1865, xxi. p. 394; * <i>ibid.</i> 1870, xxvi. p. 300, t. 20, f. 3; M'Coy, Smyth's Progress Report, 1874, p. 35; ? <i>P. elongatus</i> , Johnston, Notes, Tertiary Beds, Table Cape, Tas. 1876, p. 31.	Muddy Creek, near Hamilton; Schnapper Point; W. of Aire Riv. Cape Otway, Vict. Table Cape, Tas.

Genus **Sphænotrochus**, *Edwards* and *Haime*, 1848. (Ann. Sc. Nat. 3rd ser. ix. p. 240; Edwards, Hist. Nat. Corall. 1857, II. p. 65.)—*Aporosa-Turbinolida*.

<i>S. Australis</i> , <i>Woods</i> and <i>Duncan</i> .	Schnapper Pt. Series = Oligocene (L. Ter.). Hamilton Series (L. or M. Ter.?).	*Annals Nat. Hist. 1865, xvi. p. 183, t. 8, f. 1; *Quart. Jour. Geol. Soc. 1870, xxvi. p. 297, t. 19, f. 5; M'Coy, Smyth's Progress Report, 1874, p. 35.	Hamilton; Schnapper Point, Vict.
<i>S. emaciatus</i> , <i>Duncan</i> .	Hamilton Series (L. or M. Ter.?).	*Annals Nat. Hist. 1865, xvi. p. 183, t. 8, f. 2.	Hamilton, Vict.
<i>S. excisus</i> , <i>Duncan</i> .	Hamilton Series, &c., L. or M. Ter.? Schnapper Pt. Series = Oligocene (L. Ter.).	*Quart. Jour. Geol. Soc. 1870, xxvi. p. 298, t. 19, f. 6; M'Coy, Smyth's Progress Report, 1874, p. 35; Woods, Proc. R. Soc. Tas. (for 1875) 1876, p. 17.	Hamilton; Schnapper Point, Vict. Table Cape, Tas.

Genus **Thamnastræa**, *Lesauvage*, 1823. (Mém. Soc. Hist. Nat. I. p. 243; Ann. Sci. Nat. 1832, xxvi. p. 329.)—*Aporosa-Astreida*.

<i>T. sera</i> , <i>Duncan</i> .	Table Cape Series (L. or M. Ter.?).	*Quart. Jour. Geol. Soc. 1876, xxxii. p. 343, pl. 22, f. 4-6.	Table Cape, Tas.
<i>T. Tasmaniensis</i> ( <i>Duncan</i> ), <i>Woods</i> .	Table Cape Series (L. or M. Ter.?).	Notes, Tert. Foss. Tas. 1876, p. 39.	Table Cape, Tas.

Genus **Trochocyathus**, *Edwards* and *Haime*, 1848. (Ann. Sc. Nat. 3rd ser. ix. p. 300; Edwards, Hist. Nat. Corall. 1857, II. p. 26.)—*Aporosa-Turbinolida*.

<i>T. meridionalis</i> , <i>Duncan</i> .		<i>Petraia</i> , sp. Wilkinson, Geol. Report, C. Otway Dist. 1865, p. 24; <i>T. meridionalis</i> , <i>Duncan</i> , *Quart. Jour. Geol. Soc. 1870, xxvi. p. 296, t. 19, f. 2; M'Coy, Smyth's Progress Report, 1874, p. 35.	E. of Gellibrand River, Vict.
<i>T. Victoriae</i> , <i>Duncan</i> .		*Quart. Jour. Geol. Soc. 1870, xxvi. p. 296, t. 19, f. 3; M'Coy, Smyth's Progress Report, 1874, p. 35.	E. of Gellibrand River, Vict.

## (Echinodermata.)

(Tertiary.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
<i>Sub-kingdom—Annuloida. Class—Echinodermata.</i>			
Genus <b>Arachnoides</b> , <i>Klein</i> , 1734 (Nat. Disp. Ech. p. 33; A. Agassiz, Revision Echini, 1872, pts. 1 and 2, p. 90, 1873, pt. 3, p. 528) = <i>Monostychia</i> , Laube, 1869.— <i>Clypeastridæ-Scutellidæ</i> .			
A. <i>Australis</i> , <i>Laube</i> .	Mt. Gambier Series; Hamilton Series (L. or M. Ter.?).	? <i>Scutella</i> , sp. Sturt, Two Expds. Int. S. Austr. 1832, II. p. 254, t. 3, f. 9; ? <i>ibid.</i> Tenison-Woods, Geol. Obs. S. Austr. 1862, p. 105; ? <i>Clypeaster</i> , sp. <i>id. ibid.</i> p. 77 cut; <i>Clypeaster folium</i> , Duncan (non Agassiz), Annals Nat. Hist. 1864, XIV. p. 166; <i>Monostychia Australis</i> , Laube, *Sitz. K. Akad. Wissensch. Wien, 1869, LIX. p. 190, f. 3; <i>id. id. ibid.</i> Verhandl. (Jahrbuch) K. K. Geol. Reichsanstalt, 1869, XIX. p. 77; Etheridge, jun. *Quart. Jour. Geol. Soc. 1875, XXXI. pp. 448, 449; <i>Arachnoides</i> , Duncan, * <i>ibid.</i> 1877, XXXIII. p. 48.	Murray Riv. Cliffs and Mt. Gambier, <i>S. Australia</i> . Muddy Creek, near Hamilton, <i>Vict.</i>
A. <i>elongatus</i> , <i>Duncan</i> .	Mt. Gambier Series.	*Quart. Jour. Geol. Soc. 1877, XXXIII. p. 48, t. 3, f. 8.	Mount Gambier, <i>S. Australia</i> .
A. <i>Loveni</i> , <i>Duncan</i> .	M. Tertiary?	*Quart. Jour. Geol. Soc. 1877, XXXIII. pp. 47 and 65, t. 3, f. 6 and 7.	Mordialloc and Curdies Inlet, <i>Vict.</i>
Genus <b>Catopygus</b> , <i>L. Agassiz</i> , 1835. (Prodrome; Mém. Soc. Sci. Neuchatel, I. p. 185; Desor, Synopsis, 1857, p. 282.)— <i>Petalosticha-Nucleolidæ</i> .			
C. <i>elegans</i> , <i>Laube</i> .	Murray River Series (L. or M. Ter.?).	*Sitz. K. Akad. Wissensch. Wien, 1869, LIX. p. 190, f. 8; Etheridge, jun. Quart. Jour. 1875, XXXI. p. 449; Duncan, *Quart. Jour. Geol. Soc. 1877, XXXIII. pp. 51 and 67.	Murray Riv. Cliffs, <i>S. Australia</i> .
Genus <b>Cidaris</b> , <i>Klein</i> , 1734. (Nat. Disp. Ech. p. 14; Lamarck, Système, 1801, p. 348; A. Agassiz, Revision Echini, 1872, pts. 1 and 2, pp. 98 and 252, 1873, pt. 3, p. 384.) <i>Desmosticha-Cidaridæ</i> .			
C. <i>sp. ind.</i>	Mt. Gambier Series.	Tenison-Woods, Geol. Obs. S. Austr. 1862, pp. 76 and 81.	Murray Riv. Cliffs, <i>S. Australia</i> .
Genus <b>Clypeaster</b> , <i>Lamarck</i> , 1801. (Système, p. 349; Histoire, 1816, III. p. 12; Desor, Synopsis, 1857, p. 239; A. Agassiz, Revision Echini, 1872, pts. 1 and 2, pp. 99, 306.)— <i>Clypeastridæ-Echinanthidæ</i> .			
C. <i>folium</i> , <i>Duncan</i> (non <i>Agassiz</i> ).		Vide <i>Arachnoides Australis</i> , Laube.	

## (Echinodermata.)

## (Tertiary.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
Genus <b>Echinanthus</b> , <i>Breynius</i> , 1732. (De Echinis !; A. Agassiz, Revision Echini, 1872, pts. 1 and 2, pp. 106 and 310).— <i>Clypeastridæ-Echinanthidæ</i> .			
E. testudinarius, <i>Gray</i> .		*Proc. Zool. Soc. 1851, p. 35; A. Agassiz, * <i>loc. cit.</i> 1872, pts. 1 and 2, p. 106, 1873, pt. 3, p. 514; Duncan, * <i>Quart. Jour. Geol. Soc.</i> 1877, xxxiii, pp. 46 and 65.	Lindenow, Mitchell River, E. Vict.
Genus <b>Echinarachnius</b> , <i>Leske</i> , 1778. (Addit. Klein's Nat. Disp. Echinod. p. 217; A. Agassiz, Revision Echini, 1872, pts. 1 and 2, pp. 107 and 315.) <i>Clypeastridæ-Scutellidæ</i> .			
E. parma, <i>Lamarck</i> .		<i>Scutella</i> , <i>Histoire</i> , 1816, iii, p. 11; <i>Echinarachnius</i> , <i>Gray</i> , <i>Annals Phil.</i> 1825, x, p. 428; <i>id.</i> A. Agassiz, * <i>loc. cit.</i> pts. 1 and 2, pp. 107 and 316, t. 11 d, f. 4 and 5, t. 11 e, f. 4 and 5, t. 12, f. 1—13; <i>id.</i> <i>Duncan</i> , <i>Quart. Jour. Geol. Soc.</i> 1877, xxxiii, p. 65.	Vict. or S. Australia?
Genus <b>Echinobrissus</b> , <i>Breynius</i> , 1732. (De Echinis !; A. Agassiz, Revision Echini, 1872, pts. 1 and 2, p. 108, 1873, pt. 3, p. 555).— <i>Petalosticha-Nucleolidæ</i> .			
E. Australiae, <i>Duncan</i> .	Mt. Gambier Series (L. or M. Ter.?).	* <i>Quart. Jour. Geol. Soc.</i> 1877, xxxiii, pp. 50 and 66, t. 3, f. 11.	Cape Otway, Vict. (Upper Coralline beds).
Genus <b>Echinolampas</b> , <i>Gray</i> , 1825. ( <i>Annals Phil.</i> x, p. 429; A. Agassiz, Revision Echini, 1872, pts. 1 and 2, pp. 114 and 335, 1873, pt. 3, p. 551.) <i>Petalosticha-Nucleolidæ</i> .			
E. Australis, <i>Ten.-Woods</i> .	Mt. Gambier Series (L. or M. Ter.?).	Proc. Phil. Soc. Adelaide for 1865! (? = <i>E. ovulum</i> , <i>Laube</i> ).	Mt. Gambier, S. Australia.
E. Corioensis, <i>M<sup>c</sup>Coy</i> .		Smyth's Progress Report, 1874, p. 36; <i>Etheridge</i> , jun. <i>Quart. Jour. Geol. Soc.</i> 1875, xxxi, p. 449.	Corio Bay, Vict.
E. ovulum, <i>Laube</i> .	Murray River Series (L. or M. Ter.?).	* <i>Sitz. K. Akad. Wissensch. Wien</i> , 1869, lxx, p. 191; <i>Duncan</i> , <i>Quart. Jour. Geol. Soc.</i> 1877, xxxiii, p. 66; <i>Etheridge</i> , jun. <i>Quart. Jour. Geol. Soc.</i> 1875, xxxi, p. 449.	Murray R. Cliffs, S. Australia.
Genus <b>Echinus</b> , <i>Rondeletius</i> , 1554. (De Piscibus Marinis, p. 577; <i>Linnaeus</i> , <i>Syst. Nat.</i> ed. 10, 1758, i, p. 662; <i>Lamarck</i> , <i>Système</i> , 1801, p. 38; A. Agassiz, Revision Echini, 1872, pts. 1 and 2, pp. 121 and 293, 1873, pt. 3, p. 489.) <i>Desmosticha-Echinidæ</i> .			
E. sp. ind.	Murray River Series; Mt. Gambier Series (L. or M. Ter.?).	Sturt, Two Expeditions Int. S. Austr. 1832, ii, p. 254, t. 3, f. 11; <i>Tenison-Woods</i> , <i>Geol. Obs. S. Austr.</i> 1862, pp. 77 and 105.	Murray R. Cliffs, and Mount Gambier, S. Austr.

## (Echinodermata.)

(Tertiary.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
Genus <b>Eupatagus</b> , <i>L. Agassiz</i> , 1847. (Ann. Sc. Nat. 3rd series, VIII. p. 9; A. Agassiz, Revision Echini, 1872, pts. 1 and 2, p. 128, 1873, pt. 3, p. 572.) <i>Petalosticha-Spatangidae</i> .			
<i>E. Forbesii</i> , <i>M' Coy</i> .		Smyth's Progress Report, 1874, p. 36; Etheridge, jun. Quart. Jour. Geol. Soc. 1875, xxxi. p. 449.	Victoria.
<i>E. Laubei</i> , <i>Duncan</i> .		*Quart. Jour. Geol. Soc. 1877, xxxiii. p. 55, t. 3, f. 18.	Sherbrook R. Vict.
<i>E. Murrayensis</i> , <i>Laube</i> .	Murray River Series (L. or M. Ter.?).	*Sitz. K. Akad. Wissensch. Wien, 1869, LIX. p. 196, f. 6; Verhandl. (Jahrbuch) K. K. Geol. Reichsanstalt, 1869, XIX. p. 77; Etheridge, jun. Quart. Jour. Geol. Soc. 1875, xxi. p. 449.	Murray R. Cliffs, S. Australia.
<i>E. rotundus</i> , <i>Duncan</i> .	Murray River Series (L. or M. Ter.?).	*Quart. Jour. Geol. Soc. 1877, xxxiii. pp. 53 and 67, t. 3, f. 14-17.	Murray River, S. Australia.
<i>E. Wrightii</i> , <i>Laube</i> .	Murray River Series (L. or M. Ter.?).	*Sitz. K. Akad. Wissensch. Wien, 1869, LIX. p. 195, f. 5; Verhandl. (Jahrbuch) K. K. Geol. Reichsanstalt, 1869, XIX. p. 77; ? <i>Echinolampus</i> , Tenison-Woods, Geol. Obs. S. Austr. 1862, p. 77.	Murray R. Cliffs, and ? Mt. Gambier, S. Austr.

Genus **Hemiaster** (*Desor*, 1847), *Agassiz*, 1847. (Ann. Sci. Nat. 3rd ser. VIII. p. 16; A. Agassiz, Revision Echini, 1872, pts. 1 and 2, p. 132, 1873, pt. 3, p. 585.)  
*Petalosticha-Spatangidae*.

<i>H. Archeri</i> <sup>1</sup> , <i>Tenison-Woods</i> .	Mt. Gambier Series (L. or M. Ter.?).	Proc. Phil. Soc. Adelaide, for 1865!	Mt. Gambier, S. Australia,
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Genus **Hemipatagus**, *Desor*, 1858 (Synop. Echin. Foss. p. 416) = *Maretia* (pars), A. Agassiz, non Gray. Vide *Lovenia*.

<i>H. Forbesii</i> , <i>Woods and Duncan</i> .		Vide <i>Lovenia Forbesii</i> .	
<i>H. Forbesii</i> , <i>Laube</i> .		Vide <i>Lovenia Forbesii</i> , var. <i>Woodsii</i> .	
<i>H. Woodsii</i> , <i>Etheridge, jun.</i>		Vide <i>Lovenia Forbesii</i> , var. <i>Woodsii</i> .	

Genus **Holaster**, *L. Agassiz*, 1835. (Prodrome, Mém. Soc. Sci. Neuchatel, I. p. 183; *Desor*, Synopsis, p. 336.)—*Petalosticha-Spatangidae*.

<i>H. Australiæ</i> , <i>Duncan</i> .		*Quart. Jour. Geol. Soc. 1877, xxxiii. pp. 51 and 67, t. 3, f. 12 and 13.	Castle Cove, Cape Otway, Vict.
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Genus **Leiocidaris**, *Desor*, 1854. (Synop. Echin. Foss. p. 48; A. Agassiz, Revision Echini, 1872, pts. 1 and 2, p. 65.)—*Desmosticha-Cidaridae*.

<i>L. Australiæ</i> , <i>Duncan</i> .		*Quart. Jour. Geol. Soc. 1877, xxxiii. pp. 45 and 64, t. 3, f. 1 and 2.	Cape Otway, Vict.
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<sup>1</sup> This is probably identical with one or other of the species here catalogued under a different name.

(Echinodermata.)

(Tertiary.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
Genus <b>Lovenia</b> ( <i>Desor</i> , 1847), <i>L. Agassiz</i> , 1847. (Ann. Sc. Nat. viii. p. 10; A. Agassiz, Revision Echini, 1872, pts. 1 and 2, p. 139, 1873, pt. 3, p. 574.) <i>Petalosticha-Spatangidae</i> .			
<i>L. Forbesii</i> , <i>Woods and Duncan</i> .	Hamilton Series; Mt. Gambier Series (L. or M. Ter.?). Murray River Series (L. or M. Ter.?). Mordialloc beds (Up. Ter.?).	<i>Spatangus Hoffmanni</i> , Sturt (non Goldf.), Two Expeds. Int. S. Austr. 1832, ii. p. 254, t. 3, f. 10; <i>S. Forbesii</i> , Tenison-Woods, Quart. Jour. Geol. Soc. 1860, xvi. p. 256; <i>id. ibid.</i> Trans. R. Soc. Vict. iii. p. 91; <i>id. ibid.</i> Geol. Obs. S. Austr. 1862, pp. 75 and 83; <i>Hemipatagus Forbesii</i> , Woods and Duncan, Annals Nat. Hist. 1864, xiv. p. 165, t. 6, f. 3; <i>Spatangus</i> , Wilkinson, Geol. Report, Cape Otway District, 1865, p. 23; <i>H. Forbesi</i> , Laube, *Sitz. K. Akad. Wissensch. Wien, 1869, lxx. p. 193, f. 4; <i>id. Duncan</i> , Quart. Jour. Geol. Soc. 1870, xxvi. p. 285; <i>id. Tenison-Woods</i> , Proc. R. Soc. Tas. (for 1875) 1876, p. 15; <i>Lovenia</i> , Duncan, *Quart. Jour. Geol. Soc. 1877, xxxiii. pp. 58, 59 and 68, t. 4, f. 5—8.	Murray R. Cliffs, and Mount Gambier, <i>S. Austr.</i> Portland; Spring Creek, near Geelong, Hamilton, and Mordialloc, <i>Vict.</i>
<i>L. Forbesi</i> , var. <i>minor</i> , <i>Duncan</i> .		*Quart. Jour. Geol. Soc. 1877, xxxiii. p. 59.	Mordialloc, <i>Vict.</i>
<i>L. Forbesii</i> , var. <i>Woodsii</i> , <i>Etheridge, jun.</i>	Murray River Series; Mt. Gambier Series; Hamilton and Table Cape Series (L. or M. Ter.?).	<i>Hemipatagus Forbesii</i> , Quart. Jour. Geol. Soc. 1875, xxxi. t. 21, f. 8; <i>H. Woodsii</i> , Etheridge, jun. * <i>loc. cit.</i> p. 445, t. 21, f. 1—7; <i>Lovenia Forbesi</i> , var. <i>Duncan</i> , *Quart. Jour. Geol. Soc. 1877, xxxiii. pp. 58 and 59; <i>H. Woodsii</i> , Johnston, Notes Tertiary Beds, Table Cape, Tas. 1876, pp. 31 and 64.	Murray Cliffs, and Mount Gambier, <i>S. Australia</i> . Hamilton and Mordialloc, <i>Vict.</i> Table Cape, <i>Tas.</i>
Genus <b>Maretia</b> , <i>Gray</i> , 1855. (Brit. Mus. Cat. Recent Ech. p. 48; A. Agassiz, Revision Echini, 1872, pts. 1 and 2, p. 139, 1873, pt. 3, p. 568 <i>pars.</i> ) <i>Petalosticha-Spatangidae</i> .			
<i>M. anomala</i> , <i>Duncan</i> .		*Quart. Jour. Geol. Soc. 1877, xxxiii. pp. 52 and 67, t. 4, f. 1—4.	Sherbrook R. <i>Vict.</i>
Genus <b>Megalaster</b> , <i>Duncan</i> , 1877. (Quart. Jour. Geol. Soc. xxxiii. p. 61.) <i>Petalosticha-Spatangidae</i> .			
<i>M. compressus</i> , <i>Duncan</i> .	Murray River Series (M. Ter.?).	* <i>loc. cit.</i> pp. 62 and 68, f. 1.	Murray River, <i>S. Australia</i> .

## (Echinodermata.)

## (Tertiary.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
Genus <b>Micraster</b> , <i>L. Agassiz</i> , 1835. (Prodrome, Mém. Soc. Sci. Neuchatel, i. p. 184; <i>Schizaster</i> , pars, A. Agassiz, Revision Echini, 1872, pts. 1 and 2, p. 157.) <i>Petalosticha-Spatangidæ</i> .			
<i>M. brevistella</i> , <i>Laube</i> .	Murray River Series; Table Cape Series (L. or M. Ter.?).	*Sitz. K. Akad. Wissensch. Wien, 1869, LIX. p. 192, f. 7; Etheridge, jun. *Quart. Jour. Geol. Soc. 1875, XXXI. pp. 447, 448, f. 11 and 12; Duncan, <i>ibid.</i> 1877, XXXIII. p. 68; Johnston, *Notes Tertiary Beds, Table Cape, Tas. p. 64.	Murray R. Cliffs, <i>S. Australia</i> . Table Cape, <i>Tas.</i>
<i>M. Etheridgei</i> , <i>Johnston</i> .	Table Cape Series (M. or L. Ter.?).	*Notes Tertiary Beds, Table Cape, Tas. p. 64.	Table Cape, <i>Tas.</i>
Genus <b>Monostychia</b> , <i>Laube</i> , 1869. (Sitz. K. Akad. Wissensch. Wien, LIX. p. 188.) <i>Vide Arachnoides</i> .			
<i>M. Australis</i> , <i>Laube</i> .		<i>Vide Arachnoides Australis</i> .	
Genus <b>Paradoxechinus</b> , <i>Laube</i> , 1869. (Sitz. K. Akad. Wissensch. LIX. p. 186.) <i>Desmosticha-Echinidæ</i> .			
<i>P. novus</i> , <i>Laube</i> .	Murray River Series (M. or L. Ter.?).	* <i>loc. cit.</i> p. 188, f. 2; Etheridge, jun. Quart. Jour. Geol. Soc. 1875, XXXI. p. 449; <i>Temnechinus?</i> Duncan, Quart. Jour. Geol. Soc. 1877, XXXIII. p. 65.	Murray R. Cliffs, <i>S. Australia</i> .
?Genus <b>Psammechinus</b> , <i>L. Agassiz</i> , 1846. (Ann. Sci. Nat. 3rd series, VI. p. 368; A. Agassiz, Revision Echini, pt. 3, 1873, p. 490.)— <i>Desmosticha-Echinidæ</i> .			
<i>P. Woodsi</i> , <i>Laube</i> .	Murray River Series (M. or L. Ter.?).	*Sitz. K. Akad. Wissensch. Wien, 1869, LIX. p. 185, f. 1; Etheridge, jun. *Quart. Jour. Geol. Soc. 1875, XXXI. pp. 447, 449, t. 21, f. 10; Duncan, Quart. Jour. Geol. Soc. 1877, XXXIII. p. 64.	Murray R. Cliffs, <i>S. Australia</i> .
Genus <b>Pygorhynchus</b> , <i>L. Agassiz</i> , 1839. (Descrip. Echinod. Foss. Suiss. pt. 1, p. 53; Desor, Synopsis, 1857, p. 297.)— <i>Petalosticha-Nucleolidæ</i> .			
<i>P. Vassali</i> , <i>Wright</i> .		*Quart. Jour. Geol. Soc. 1864, xx. p. 479, t. 22, f. 6 a-c; Duncan, Quart. Jour. Geol. Soc. 1877, XXXIII. pp. 51 and 67.	E. of Glenelg R. <i>Vict.</i>
Genus <b>Rhynchopygus</b> , <i>d'Orbigny</i> , 1855. (Pal. Franç. Terr. Crét. VI. p. 323; A. Agassiz, Revision Echini, 1872, pts. 1 and 2, pp. 67, 153, 342, pt. 3, 1873, p. 553.) <i>Petalosticha-Nucleolidæ</i> .			
<i>R. dysasteroides</i> , <i>Duncan</i> .		*Quart. Jour. Geol. Soc. 1877, XXXIII. pp. 49 and 66, t. 3, f. 9 and 10.	Cape Otway, <i>Vict.</i>

## (Echinodermata—Annelida.)

## (Tertiary.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
Genus <b>Salenia</b> , <i>Gray</i> , 1835 (Proc. Zool. Soc. 1835, p. 58; A. Agassiz, Revision Echini, 1872, pts. 1 and 2, pp. 155 and 258, pt. 3, 1873, p. 398)= <i>Salenocidaris</i> , A. Agassiz. <i>Desmosticha-Salenida</i> .			
S. tertiaria, <i>Tate</i> .	L. Tertiary.	*Quart. Jour. Geol. Soc. 1877, xxxiii. pp. 257, 258, f. 2 a-c; Duncan, Annals Nat. Hist. 1877, xx. p. 246.	Aldinga, S. Austr.
Genus <b>Schizaster</b> , <i>L. Agassiz</i> , 1835. (Prodrome, Mém. Sci. Nat. Neuchatel, i. p. 185; A. Agassiz, Revision Echini, 1872, pts. 1 and 2, pp. 157, 363, pt. 3, 1873, p. 609.) <i>Petalosticha-Spatangida</i> .			
S. ventricosus, <i>Gray</i> .		*Brit. Mus. Cat. Recent. Ech. 1855, p. 60, t. 4, f. 2; Annals Nat. Hist. 1851, vii. p. 133; A. Agassiz, Revision Echini, 1872, pts. 1 and 2, p. 158; <i>Schizaster</i> , sp. Duncan, Annals Nat. Hist. 1864, xiv. p. 168; <i>S. ventricosus</i> , id. Quart. Jour. Geol. Soc. 1877, xxxiii. pp. 61 and 68.	'Adelaide District,' S. Australia.
Genus <b>Scutella</b> , <i>Lamarck</i> , 1816. (Histoire Nat. Anim. s. Vertèb. iii. p. 7; Desor, Synopsis, 1857, p. 231.)— <i>Clypeastridæ-Scutellidæ</i> .			
S. Tamboensis, <i>M' Coy</i> .		Smyth's Progress Report, 1874, p. 36; Etheridge, jun. Quart. Jour. Geol. Soc. 1875, xxxi. p. 450.	Victoria.
Genus <b>Spatangus</b> , <i>Klein</i> , 1734. (Nat. Disp. Ech. p. 33; A. Agassiz, Revision, 1872, pts. 1 and 2, p. 158, 1873, pt. 3, p. 564.)— <i>Petalosticha-Spatangida</i> .			
S. Forbesii, <i>Tenison-Woods</i> .		Vide <i>Lovenia Forbesii</i> , Woods and Duncan.	
S. Hoffmanni, <i>Sturt</i> (non <i>Goldf.</i> ).		Vide <i>Lovenia Forbesii</i> , Woods and Duncan.	
Genus <b>Temnechinus</b> , <i>Forbes</i> , 1852 (Mon. Brit. Tert. Ech. p. 5; A. Agassiz, Revision Echini, 1872, pts. 1 and 2, p. 165, 1873, pt. 3, p. 466)= <i>Genocidaris</i> , A. Agassiz. <i>Desmosticha-Echinidæ</i> .			
T. lineatus, <i>Duncan</i> .	Up. Ter.?	*Quart. Jour. Geol. Soc. 1877, xxxiii. pp. 46 and 65, t. 3, f. 3—5.	Mordialloc, Vict.

## Sub-kingdom—Annulosa. Class—Annelida.

Genus **Ditrupa**, *Berkeley*, 1834. (Zool. Jour. v. p. 426.)—*Tubicola*.

D. Wormbetiensis, <i>M' Coy</i> .	Oldest G. D. (=L. Pliocene?).	Smyth's Progress Report, 1875, ii. p. 22, f. 4; Couchman's <i>ibid.</i> 1877, iv. p. 155.	Welcome Rush, nr. Stawell, Vict.
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(Crustacea—Polyzoa.)

(Tertiary.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
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Class—Crustacea. Sub-class—Entomostraca. Order—Ostracoda.

Genus **Bairdia**, M'Coy, 1844 (see p. 41).—*Podocopa-Cypridae*.

B. ovata, Bosquet.	M. Ter. (Miocene?).	<i>Cytheridea</i> , Bosquet, Mon. Crust. Foss. Terr. Crét. Limbourg, 1854, p. 73, t. 5, f. 6 a—d; <i>Bairdia</i> , G. S. Brady, Trans. Zool. Soc. 1865, v. p. 364, t. 57, f. 7 a—c; <i>id.</i> Etheridge, jun. Geol. Mag. 1876, Dec. 2, iii. p. 335.	Murray R. Flats, S. Australia.
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Genus **Cythere**, O. F. Müller, 1875 (see p. 42).—*Podocopa-Cytheridae*.

C. Normani, G. S. Brady.	M. Ter. (Miocene?).	*Trans. Zool. Soc. 1865, v. p. 379, t. 61, f. 5 a—d; Etheridge, jun. Geol. Mag. Dec. 2, iii. 1876, p. 335.	Murray R. Flats, S. Australia.
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Genus **Macrocypris**, G. S. Brady, 1868. (Intellectual Observer, xii. p. 119; Trans. Linn. Soc. xxvi. p. 391).—*Podocopa-Cypridae*.

M. acuminata, Alth.	M. Ter. (Miocene?).	<i>Cytherina</i> , Haidinger's Naturwiss. Abhandl. 1849, iii. p. 198, t. 10, f. 16; <i>id.</i> Reuss, <i>ibid.</i> iv. p. 49, t. 5, f. 7 and 8; <i>Macrocypris</i> , (Brady), Etheridge, jun. Geol. Mag. Dec. 2, 1876, iii. p. 335.	Murray R. Flats, S. Australia.
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Genus **Paracypris**, G. O. Sars, 1865. (Forhandl. Vid.-Sels. Christiania, aar 1865, p. 11; Brady, Trans. Linn. Soc. xxvi. p. 377).—*Podocopa-Cypridae*.

P. decora, G. S. Brady.	M. Ter. (Miocene?).	<i>Cytheredeis</i> , Trans. Zool. Soc. 1865, v. pt. 5, p. 366; <i>Paracypris</i> , Etheridge, jun. ( <i>vide</i> Brady), Geol. Mag. Dec. 2, 1876, iii. p. 335.	Murray R. Flats, S. Australia.
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Sub-kingdom—Mollusca. Section—Molluscoida. Class—Polyzoa.

Order—Gymnolemata.

Genus **Caberea**, Lamouroux, 1816 (Hist. Polyp. Coral. Flex. p. 128) = *Selbia*, Gray. *Cheilostomata-Inarticulata*.

C. lata, Busk.	Mt. Gambier Series (L. or M. Ter.?).	*Brit. Mus. Cat. Polyzoa, 1852, pt. 1, p. 39, t. 47; Woods, Quart. Jour. Geol. Soc. 1865, xxi. p. 394; <i>id.</i> *Trans. R. Soc. Vict. vi. p. 5, t. 1, f. 11; R. Etheridge, jun. Synopsis, Austr. Tert. Polyzoa, 1877, p. 7.	Mount Gambier, S. Australia.
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(Polyzoa.)

(Tertiary.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
Genus <i>Canda</i> , Lamouroux, 1816. (Hist. Polyp. Coral. Flex. p. 131.) <i>Cheilostomata-Articulata</i> .			
<i>C. angulata</i> , Busk.	Mt. Gambier Series (L. or M. Ter.?).	Quart. Jour. Geol. Soc. 1860, xvi. p. 260; Woods, *Trans. R. Soc. Vict. vi. p. 4, t. 1, f. 2; Etheridge, jun. Synopsis Austr. Tert. Polyzoa, 1877, p. 5.	Mount Gambier, S. Australia.
Genus <i>Cellepora</i> , O. Fabricius, 1780 (Fauna Gröen. p. 434) = <i>Celleporaria</i> , Lamouroux. <i>Cheilostomata-Inarticulata</i> .			
<i>C. costata</i> , Busk (ms.).	Mt. Gambier Series.	Quart. Jour. Geol. Soc. 1860, xvi. p. 261; Etheridge, jun. <i>loc. cit.</i> p. 7.	Mount Gambier, S. Australia.
<i>C. echinata</i> , Sturt.	Mt. Gambier Series; Murray R. Series (L. or M. Ter.?).	*Two Expds. Int. S. Austr. 1832, ii. p. 252, t. 3, f. 4 (non <i>C. echinata</i> , Munster, *Goldfuss, Petrefacta, i. p. 102, t. 36, f. 14); Etheridge, jun. <i>loc. cit.</i> p. 7.	Mount Gambier; Murray Cliffs, S. Australia.
<i>C. escharoides</i> , Sturt (non Goldf.).		Vide <i>C. hemisphærica</i> , Busk.	
<i>C. Gambierensis</i> , Busk.	Mt. Gambier Series; Table Cape Series (L. or M. Ter.?).	<i>Eschara celleporacea</i> , Sturt, *Two Expds. Int. S. Austr. 1832, ii. p. 253, t. 3, f. 1; <i>C. Gambierensis</i> , Busk, Quart. Jour. Geol. Soc. 1860, xvi. p. 261; <i>ibid.</i> Woods, Geol. Obs. S. Austr. 1862, pp. 74, 85, 91, <i>cuts</i> ; <i>ibid.</i> <i>id.</i> *Trans. R. Soc. Vict. vi. p. 4; <i>ibid.</i> Wilkinson, Geol. Rept. Cape Otway Dist. 1865, p. 23; <i>ibid.</i> M'Coy, Smyth's Progress Rept. 1874, p. 36; <i>Celleporaria</i> , Stoliczka, Pal. Neuseeland, 1865, p. 141, t. 20, f. 7; <i>Cellepora</i> , Woods, Proc. R. Soc. Tas. (for 1875) 1876, p. 14; Etheridge, jun. <i>loc. cit.</i> p. 7.	Mount Gambier; Murray Cliffs, S. Australia. Spring Creek, Vict. Table Cape, Tas.
<i>C. hemisphærica</i> , Busk.	Mt. Gambier Series (L. or M. Ter.?).	*Quart. Jour. Geol. Soc. 1860, xvi. p. 261; Woods, Geol. Obs. S. Austr. 1862, t. 1, f. 3; <i>id.</i> *Trans. R. Soc. Vict. vi. p. 4, t. 1, f. 4; Etheridge, jun. <i>loc. cit.</i> p. 8; ? <i>C. escharoides</i> , Sturt, (non Goldf.), *Two Expds. Int. S. Austr. 1832, ii. t. 3, f. 5.	Mount Gambier, S. Australia.
<i>C. nummularia</i> , Busk.	Mt. Gambier Series; Hamilton Series (L. or M. Ter.?).	Quart. Jour. Geol. Soc. 1860, xvi. p. 261; Woods, Geol. Obs. S. Austr. 1862, t. 1, f. 1; <i>id.</i> *Trans. R. Soc. Vict. vi. p. 4, t. 1, f. 5?; <i>id.</i> Quart. Jour. Geol. Soc. 1865, xxi. p. 394; Johnston, Notes, Tertiary Beds, Table Cape, Tas. 1876, p. 31; Etheridge, jun. <i>loc. cit.</i> p. 8.	Mount Gambier, S. Australia. Muddy Ck. ?Vict. Table Cape, Tas.

## (Polyzoa.)

## (Tertiary.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
<i>C. spongiosa</i> , <i>Busk</i> .	Mt. Gambier Series; Table Cape Series (L. or M. Ter.?).	Quart. Jour. Geol. Soc. 1860, xvi. p. 261; Woods, Geol. Obs. S. Austr. 1862, t. 1, f. 2; <i>id.</i> *Trans. R. Soc. Vict. vi. p. 5, t. 1, f. 7; Johnston, Notes, Tertiary Beds, Table Cape, Tas. 1876, p. 31; Etheridge, jun. Synopsis Austr. Tert. Polyzoa, 1877, p. 8.	Mount Gambier, <i>S. Australia</i> . Table Cape, <i>Tas.</i>
<i>C. tubulosa</i> , <i>Busk</i> .	Mt. Gambier Series; Table Cape Series (L. or M. Ter.?).	Quart. Jour. Geol. Soc. 1860, xvi. p. 261; Woods, *Trans. R. Soc. Vict. 1865, vi. p. 5, t. 1, f. 6; Etheridge, jun. <i>loc. cit.</i> p. 8.	Mount Gambier, <i>S. Australia</i> .

Genus *Cœleschera*, *Busk*, 1860. (Quart. Jour. Geol. Soc. xvi. p. 261.)  
*Cheilostomata-Inarticulata*.

<i>C. Australis</i> , <i>Busk</i> (ms.).	Mt. Gambier Series.	<i>l. c.</i> p. 261; Etheridge, jun. <i>loc. cit.</i> p. 8.	Mount Gambier, <i>S. Australia</i> .
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Genus *Crisia*, *Lamourour*, 1812. (Bull. des Sc. Soc. Philomatique, iii. p. 183.)  
*Cyclostomata-Articulata*.

<i>C. eburnea</i> , <i>Linnæus</i> .	Mt. Gambier Series (L. or M. Ter.?).	Johnston's *Brit. Zoophytes, 1847, i. p. 283, t. 50, f. 3 and 4; Woods, Trans. R. Soc. Vict. vi. p. 5, t. 1, f. 12; <i>id.</i> Quart. Jour. Geol. Soc. 1865, xxi. p. 394; Busk, Brit. Mus. Cat. Polyzoa, 1875, pt. 3, p. 4, t. 2, f. 1 and 2, t. 5, f. 1 and 2, 5 and 10; Etheridge, jun. <i>loc. cit.</i> p. 12.	Mount Gambier, <i>S. Australia</i> .
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Genus *Eschara*, *Ray* (pars), 1724! (Lamarck, Système, 1801, p. 375; *id.* Histoire, 1816, ii. p. 173; Busk, Mon. Foss. Polyzoa, Crag. 1859, p. 63.)  
*Cheilostomata-Inarticulata*.

<i>E. arcuata</i> , <i>Busk</i> (ms.).	Mt. Gambier Series.	Quart. Jour. Geol. Soc. 1860, xvi. p. 261.	Mount Gambier, <i>S. Australia</i> .
<i>E. bimarginata</i> , <i>Busk</i> (ms.).	Mt. Gambier Series.	Quart. Jour. Geol. Soc. 1860, xvi. p. 261.	Mount Gambier, <i>S. Australia</i> .
<i>E. Buskii</i> , <i>Tenison-Woods</i> .	Mt. Gambier Series.	*Jour. R. Soc. N. S. Wales, 1877, x. p. 149, figs. 16 and 17.	Mount Gambier, <i>S. Australia</i> .
<i>E. cavernosa</i> , <i>Tenison-Woods</i> .	Mt. Gambier Series.	*Jour. R. Soc. N. S. Wales, 1877, x. p. 147, f. 1.	Mount Gambier, <i>S. Australia</i> .
<i>E. celleporacea</i> , <i>Sturt</i> .		Vide <i>Cellepora Gambierensis</i> , Busk.	
<i>E. Clarkei</i> , <i>Tenison-Woods</i> .	Hamilton Series.	*Jour. R. Soc. N. S. Wales, 1877, x. p. 148, figs. 4-7.	Muddy Ck. <i>Vict.</i>
<i>E. elevata</i> , <i>Tenison-Woods</i> .	Mt. Gambier Series.	*Jour. R. Soc. N. S. Wales, 1877, x. p. 148, f. 10.	Mount Gambier, <i>S. Australia</i> .
<i>E. hastigera</i> , <i>Busk</i> (ms.).	Mt. Gambier Series.	Quart. Jour. Geol. Soc. 1860, xvi. p. 261.	Mount Gambier, <i>S. Australia</i> .

## (Polyzoa.)

## (Tertiary.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
<i>E. inornata</i> , <i>Busk</i> (ms.).	Mt. Gambier Series.	Quart. Jour. Geol. Soc. 1860, xvi. p. 261.	Mount Gambier, <i>S. Australia.</i>
<i>E. Liversidgei</i> , <i>Tenison-Woods</i> .	Mt. Gambier Series.	*Jour. R. Soc. N. S. Wales, 1877, x. p. 149; f. 11—13.	Mount Gambier, <i>S. Australia.</i>
<i>E. oculata</i> , <i>Busk</i> (ms.).	Mt. Gambier Series (L. or M. Ter.?).	Quart. Jour. Geol. Soc. 1860, xvi. p. 261; Woods, *Jour. R. Soc. N. S. Wales, 1877, x. p. 149, f. 14.	Mount Gambier, <i>S. Australia.</i>
<i>E. papillata</i> , <i>Busk</i> (ms.).	Mt. Gambier Series.	Quart. Jour. Geol. Soc. 1860, xvi. p. 261.	Mount Gambier, <i>S. Australia.</i>
<i>E. piriformis</i> , <i>Sturt</i> .	Murray River Series (L. or M. Ter.?).	Two Expeds. Int. S. Austr. 1832, II. p. 253, t. 3, f. 2 (? non Goldfuss, Petrefacta, I. p. 24, t. 8, f. 10).	Murray R. Cliffs, <i>S. Australia.</i>
<i>E. porrecta</i> , <i>Tenison-Woods</i> .	Mt. Gambier Series.	*Jour. R. Soc. N. S. Wales, 1877, x. p. 147, f. 2 and 3.	Mount Gambier, <i>S. Australia.</i>
<i>E. rustica</i> , <i>Tenison-Woods</i> .	Mt. Gambier Series.	*Jour. R. Soc. N. S. Wales, 1877, x. p. 148, f. 9.	Mount Gambier, <i>S. Australia.</i>
<i>E. simplex</i> , <i>Busk</i> (ms.).	Mt. Gambier Series.	Quart. Jour. Geol. Soc. 1860, xvi. p. 261.	Mount Gambier, <i>S. Australia.</i>
<i>E. Tatei</i> , <i>Tenison-Woods</i> .	Mt. Gambier Series.	*Jour. R. Soc. N. S. Wales, 1877, x. p. 149, f. 15.	
<i>E. verrucosa</i> , <i>Tenison-Woods</i> .	Mt. Gambier Series.	*Jour. R. Soc. N. S. Wales, 1877, x. p. 148, f. 8.	Mount Gambier, <i>S. Australia.</i>
<i>E. sp. ind.</i>	Murray River Series.	Sturt, Two Expeds. Int. S. Austr. 1832, II. p. 253, t. 3, f. 3.	Murray R. Cliffs, <i>S. Australia.</i>
<i>E. sp. ind.</i>	Mt. Gambier Series.	Woods, Geol. Obs. S. Austr. 1862, t. 1, f. 7.	Mount Gambier, <i>S. Australia.</i>

Genus **Hornera**, *Lamouroux*, 1821 (Expos. Méthod. p. 41) = *Siphodictyum*, *Lonsdale*.  
*Cyclostomata-Inarticulata.*

<i>H. Gambierensis</i> , <i>Busk</i> .	Mt. Gambier Series (L. or M. Ter.?).	Quart. Jour. Geol. Soc. 1860, xvi. p. 261; Woods, *Trans. R. Soc. Viet. vi. p. 5, t. 1, f. 10?; ? <i>Retepora disticha</i> , Sturt, Two Expeds. Int. S. Austr. 1832, II. p. 254, t. 3, f. 6; Etheridge, jun. Synopsis Austr. Tert. Polyzoa, 1877, p. 13.	Mount Gambier, <i>S. Australia.</i>
<i>H. rugulosa</i> , <i>Busk</i> .	Mt. Gambier Series (L. or M. Ter.?).	Quart. Jour. Geol. Soc. 1860, xvi. p. 261; Woods, Trans. R. Soc. Viet. vi. p. 5, t. 1, f. 9?; Etheridge, jun. <i>loc. cit.</i> p. 13.	Mount Gambier, <i>S. Australia.</i>

Genus **Idmonea**, *Lamouroux*, 1821. (Expos. Méthod. p. 80, Supp.)  
*Cyclostomata-Inarticulata.*

<i>I. ligulata</i> , <i>Busk</i> (ms.).	Mt. Gambier Series (L. or M. Ter.?).	Quart. Jour. Geol. Soc. 1860, xvi. p. 261; Stoliczka, Pal. Neu-Seeland, 1865, p. 114; Etheridge, jun. <i>loc. cit.</i> p. 13.	Mount Gambier, <i>S. Australia.</i>
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(Polyzoa.)		(Tertiary.)	
Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
I. Milneana, <i>d'Orb.</i>	Mt. Gambier Series (L. or M. Ter.?).	*Voy. l'Amér. Mérid. v. pt. 4, p. 20, Atlas, ix. <i>Polypiers</i> , f. 17—21; Busk, Quart. Jour. Geol. Soc. 1860, xvi. p. 261; Woods, <i>id.</i> 1865, xxi. p. 394; Stoliczka, Pal. Neu-Seeland, 1865, p. 114; Busk, *Brit. Mus. Cat. Polyzoa, 1875, pt. 3, p. 12, t. 11; Etheridge, jun. Synopsis Austr. Tert. Polyzoa, 1877, p. 13.	Mount Gambier, S. Australia.
Genus <i>Lepralia</i> , Johnston (see p. 105).— <i>Cheilostomata-Inarticulata</i> .			
L. doliiformis, <i>Busk</i> (ms.).	Mt. Gambier Series (L. or M. Ter.?).	Quart. Jour. Geol. Soc. 1860, xvi. p. 261; Etheridge, jun. <i>loc. cit.</i> p. 10.	Mount Gambier, S. Australia.
L. Stawellensis, <i>M'Coy</i> .	U. Ter. (Oldest G. Drifts = L. Pliocene?).	*Smyth's Progress Rept. 1875, ii. p. 22, f. 1; <i>id. ibid.</i> 1876, iii. p. 49; Couchman's Progress Rept. 1877, iv. p. 155; Etheridge, jun. <i>loc. cit.</i> p. 10.	Welcome Rush, nr. Stawell, Vict.
L. subcarinata, <i>Busk</i> (ms.).	Mt. Gambier Series.	Quart. Jour. Geol. Soc. 1860, xvi. p. 261.	Mount Gambier, S. Australia.
L. submarginata, <i>Busk</i> (ms.).	Mt. Gambier Series.	Quart. Jour. Geol. Soc. 1860, xvi. p. 261.	Mount Gambier, S. Australia.
Genus <i>Lunulites</i> , Lamarck, 1816. (Hist. Nat. Anim. s. Vertèb. ii. p. 194; Busk, Mon. Foss. Polyzoa, Crag. 1859, pp. 84 and 88).— <i>Cheilostomata-Inarticulata</i> .			
L. <i>sp. ind.</i>	Hamilton Series.	Woods, Quart. Jour. Geol. Soc. 1865, xxi. p. 394.	Hamilton, Vict.
Genus <i>Melicerita</i> , M. Edwards, 1836 (Ann. Sc. Nat. vi. p. 347) = <i>Ulidium</i> , S. V. Wood. <i>Cheilostomata-Inarticulata</i> .			
M. angustiloba, <i>Busk</i> .	Mt. Gambier Series; Hamilton Series (L. or M. Ter.?).	Quart. Jour. Geol. Soc. 1860, xvi. p. 261; Woods, Geol. Obs. S. Austr. 1862, t. 1, f. 4; <i>id.</i> *Trans. R. Soc. Vict. vi. p. 5, t. 1, f. 8; <i>id.</i> Quart. Jour. Geol. Soc. 1865, xxi. p. 394; Stoliczka, *Pal. Neu-Seeland, p. 155, t. 20, figs. 15—18; Etheridge, jun. <i>loc. cit.</i> p. 10.	Mount Gambier, S. Australia. Muddy Creek, Vict.
Genus <i>Membranipora</i> , de Blainville, 1830. (Diet. Sc. Nat. lx. p. 411; Busk, Mon. Foss. Polyzoa, Crag. 27 and 28).— <i>Cheilostomata-Inarticulata</i> .			
M. appressa, <i>Busk</i> (ms.).	Mt. Gambier Series.	Quart. Jour. Geol. Soc. 1860, xvi. p. 261; Etheridge, jun. <i>loc. cit.</i> p. 11.	Mount Gambier, S. Australia.
M. bidens, <i>Hagenow</i> .	Mt. Gambier Series (L. or M. Ter.?).	*Bryozoa Maäs. Kreideb. p. 9, t. 11, f. 16; Busk, *Mon. Foss. Polyzoa, Crag. 1852, pt. 1, p. 34, t. 2, f. 4; <i>id.</i> Quart. Jour. Geol.	Mount Gambier, S. Australia.

(Polyzoa.)		(Tertiary.)	
Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
<i>M. Cyclops</i> , <i>Busk</i> .	Mt. Gambier Series (L. or M. Ter.?).	Soc. 1860, xvi. p. 260; Woods, <i>ibid.</i> 1865, xxi. p. 394; Etheridge, jun. Synopsis Austr. Tert. Polyzoa, 1877, p. 11. *Brit. Mus. Cat. Polyzoa, 1854, pt. 2, p. 61, t. 65, f. 3; Quart. Jour. Geol. Soc. 1860, xvi. p. 261; Woods, <i>ibid.</i> 1865, xxi. p. 391; Etheridge, jun. <i>loc. cit.</i> p. 11.	Mount Gambier, S. Australia. Muddy Creek, Vict.
<i>M. stenostoma</i> , <i>Busk</i> .	Mt. Gambier Series (L. or M. Ter.?).	*Brit. Mus. Cat. Polyzoa, 1854, pt. 2, p. 60, t. 100, f. 1; Quart. Jour. Geol. Soc. 1860, xvi. p. 260; Woods, <i>ibid.</i> 1865, xxi. p. 394; Etheridge, jun. <i>loc. cit.</i> p. 11.	Mount Gambier, S. Australia.

Genus *Onchopora*, *Busk*, 1855. (Quart. Jour. Micro. Sc. iii. p. 320.)  
*Cheilostomata-Articulata.*

<i>O. pustulosa</i> , <i>Busk</i> .	Mt. Gambier Series (L. or M. Ter.?).	Quart. Jour. Geol. Soc. 1860, xvi. p. 260; ? <i>Cellaria</i> , <i>Stoliczka</i> , Pal. Neu-Seeland, 1865, p. 149; Etheridge, jun. <i>loc. cit.</i> p. 5.	Mount Gambier, S. Australia.
<i>O. vertebralis</i> , <i>Stoliczka</i> .	Schnapper Pt. Series = Oligocene (L. Ter.).	<i>Spiroporina</i> , *Pal. Neu-Seeland, 1865, p. 106, t. 17, f. 6 and 7; R. Etheridge, jun. Trans. R. Soc. Vict. 1874, xi. p. 14; <i>id.</i> Synopsis Austr. Tert. Polyzoa, 1877, p. 6.	Schnapper Point, Hobson's Bay, Vict.

Genus *Psileschara*, *Busk*, 1860. (Quart. Jour. Geol. Soc. xvi. p. 261; Quart. Jour. Micro. Sc. 1861, n. ser. i. p. 79.)—*Cheilostomata-Inarticulata.*

<i>P. pustulosa</i> , <i>Busk</i> (ms.).	Mt. Gambier Series.	<i>l. c.</i> p. 261.	Mount Gambier, S. Australia.
<i>P. subsulcata</i> , <i>Busk</i> (ms.).	Mt. Gambier Series.	<i>l. c.</i> p. 261.	Mount Gambier, S. Australia.

Genus *Pustulipora*, *de Blainville*, 1830. (Dict. Sc. Nat. p. 382.)  
*Cyclostomata-Inarticulata.*

<i>P. corrugata</i> , <i>Tenison-Woods</i> .	Mt. Gambier Series.	*Jour. R. Soc. N. S. Wales, 1877, x. p. 150.	Mount Gambier, S. Australia.
<i>P. distans</i> , <i>Busk</i> (ms.).	Mt. Gambier Series (L. or M. Ter.?).	Quart. Jour. Geol. Soc. 1860, xvi. p. 261; Etheridge, jun. <i>loc. cit.</i> p. 13; (? = <i>Entalophora Haastiana</i> , Stol. Pal. Neu-Seeland, 1865, p. 102, t. 17, f. 4 and 5.)	Mount Gambier, S. Australia.
<i>P. unguolata</i> , <i>Tenison-Woods</i> .	Mt. Gambier Series.	*Jour. R. Soc. N. S. Wales, 1877, x. p. 150.	Mount Gambier, S. Australia.

(Polyzoa.)			(Tertiary.)
Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
Genus <i>Retepora</i> , <i>Imperato</i> , 1672. (Hist. Nat. p. 630; Busk, Mon. Foss. Polyzoa, Crag. 1859, p. 73.)— <i>Cheilostomata-Inarticulata</i> .			
<i>R. disticha</i> , <i>Sturt</i> .		?Vide <i>Hornera Gambierensis</i> , Busk.	
<i>R. Maccoyana</i> , <i>Etheridge, jun.</i>	Schnapper Pt. Series = Oligocene (L. Ter.).	Smyth's Progress Report, 1874, i. pp. 35 and 36; Etheridge, jun. *Trans. R. Soc. Vict. 1874, xi. p. 14; Etheridge, jun. Synopsis Austr. Tert. Polyzoa, 1877, p. 11.	Schnapper Point, Vict.
<i>R. monilifera</i> , <i>P. H. M'Gillivray</i> .	Mt. Gambier Series (L. or M. Ter.?).	*Trans. Phil. Inst. Vict. 1860, iv. pt. 2, p. 168, t. 3, f. 6—9; Woods, Quart. Jour. Geol. Soc. 1865, xxi. p. 394; Etheridge, jun. <i>loc. cit.</i> p. 12.	Mount Gambier, S. Australia.
<i>R. vibicata</i> , <i>Sturt</i> (non <i>Goldfuss</i> ).	Mt. Gambier Series (L. or M. Ter.?).	Two Expeds. Int. S. Austr. 1832, ii. p. 254, t. 3, f. 7; <i>Retepora</i> , sp. Woods, Geol. Obs. S. Austr. 1862, p. 74 (? = <i>R. Beaniana</i> (King), Stoliczka, *Pal. Neu-Seeland, 1865, p. 124); Etheridge, jun. <i>loc. cit.</i> p. 12.	Murray Riv. Cliffs, and Mt. Gambier, S. Australia.
Genus <i>Salicornaria</i> , <i>Cuvier</i> , 1817 (Règne Anim. rv. p. 75) = <i>Farcimia</i> , <i>Fleming</i> . <i>Cheilostomata-Articulata</i> .			
<i>S. gracilis</i> , <i>Busk</i> .	Mt. Gambier Series (L. or M. Ter.?).	*Brit. Mus. Cat. Polyzoa, 1852, pt. 1, p. 17, t. 63, f. 3, t. 65 (bis), f. 2; Woods, Trans. R. Soc. Vict. vi. p. 4; Etheridge, jun. <i>loc. cit.</i> p. 6.	Mount Gambier, S. Australia.
<i>S. Parkeri</i> , <i>Busk</i> (ms.).	Mt. Gambier Series.	Quart. Jour. Geol. Soc. 1860, xvi. p. 260.	Mount Gambier, S. Australia.
<i>S. sinuosa</i> , <i>Hassall</i> .	Mt. Gambier Series; Hamilton Series; Table Cape Series; Murray Cliffs Series (L. or M. Ter.?).	<i>Farcimia</i> , *Annals Nat. Hist. 1841, vi. p. 172, t. 6, figs. 1 and 2; <i>S. farciminoides</i> (var.), Busk, *Brit. Mus. Cat. Polyzoa, 1852, pt. 1, p. 16; <i>S. sinuosa</i> , <i>ibid.</i> *Mon. Foss. Polyzoa, Crag. 1859, p. 23, t. 21, f. 5; <i>Glauconome rhombifera</i> , Sturt, *Two Expeds. Int. S. Austr. 1832, ii. p. 254, t. 3, f. 5; <i>S. sinuosa</i> , Busk, Quart. Jour. Geol. Soc. 1860, xvi. p. 260; <i>id.</i> Woods, Geol. Obs. S. Austr. 1862, t. 1, f. 5; <i>id. ibid.</i> Quart. Jour. Geol. Soc. 1865, xxi. p. 394; <i>id. ibid.</i> *Trans. R. Soc. Vict. vi. p. 4, t. 1, f. 1; Johnston, Notes, Tert. Beds, Table Cape, Tas. 1876, p. 31; Etheridge, jun. <i>loc. cit.</i> p. 6.	Mount Gambier; Cliffs of Murray River, S. Austr. Muddy Creek, nr. Hamilton, Vict. Table Cape, Tas.
<i>S. tenuirostris</i> , <i>Busk</i> .	Mt. Gambier Series (L. or M. Ter.?).	*Brit. Mus. Cat. Polyzoa, 1852, pt. 1, p. 17, t. 63, f. 4; Woods, Trans. R. Soc. Vict. vi. p. 4.	Mount Gambier, S. Australia.

## (Polyzoa—Brachiopoda.)

## (Tertiary.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
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Genus *Scutularia*, *Busk* (ms.), 1860. (Quart. Jour. Geol. Soc. xvi. 261.)  
*Cheilostomata-Inarticulata.*

<i>S. prima</i> , <i>Busk</i> (ms.).	Mt. Gambier Series.	l. c. p. 261.	Mount Gambier, <i>S. Australia.</i>
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Genus *Tubulipora*, *Lamarck*, 1816. (Histoire Nat. Anim. s. Vertèb. II. p. 161; *Busk*, Mon. Foss. Polyzoa, Crag. 1859, p. 110.)—*Cyclostomata-Tubuliporidae.*

<i>T. Gambierensis</i> , <i>Tenison-Woods.</i>	Mt. Gambier Series.	*Jour. R. Soc. N. S. Wales, 1877, x. p. 150.	Mount Gambier, <i>S. Australia.</i>
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## Class—Brachiopoda.

Genus *Rhynchonella*, *Fischer*, 1809 (see p. 21).—*Clistenterata-Rhynchonellidæ.*

<i>R. cælata</i> , <i>M'Coy</i> (ms.).		Fide <i>Woods</i> ( <i>in lit.</i> ).	
<i>R. lucida</i> , <i>Gould.</i>	Table Cape Series (L. or M. Ter.?).	*Proc. Boston Nat. Hist. Soc. 1860, VII. p. 323; A. Adams, *Annals Nat. Hist. 1863, XI. p. 100; Davidson, Proc. Zool. Soc. 1871, p. 309, t. 31, f. 13 and 14; M'Coy, Annals Nat. Hist. 1867, XX. p. 195; <i>id.</i> Smyth's Progress Report, 1874, p. 36; Woods, Proc. R. Soc. Tas. (for 1875), 1876, p. 15.	Table Cape, <i>Tas. Victoria.</i>

Genus *Terebratella*, *d'Orbigny*, 1847. (Comptes Rendus, xxv. p. 269; Davidson, Introduction, p. 65.)—*Clistenterata-Terebratulidæ.*

<i>T. compta</i> , <i>G. B. Sowerby.</i>	Mt. Gambier Series (L. or M. Ter.?), &c.	<i>Terebratula</i> , <i>sp.</i> Sturt, Two Exped. Int. S. Australia, 1832, II. p. 254, t. 3, f. 15; <i>T. compta</i> , G. B. Sow. *Strzelecki's Phys. Descript. N. S. Wales, &c. 1845, p. 297, t. 19, f. 4; <i>id.</i> Woods, Geol. Obs. S. Austr. 1862, pp. 74 and 121, figs.; <i>id. ibid.</i> *Tert. Rocks, S. Australia, pt. 3, Brachiopoda, f. 4 A to E; <i>Terebratella</i> , R. Etheridge, jun. *Annals Nat. Hist. 1876, XVII. p. 19, t. 2, f. 5 a—d.	Mount Gambier, <i>S. Australia.</i> Spring Creek, <i>Vict.</i>
<i>T. Tenisoni</i> , <i>Tenison-Woods.</i>	Mt. Gambier Series (L. or M. Ter.?).	*Tert. Rocks of S. Australia, pt. 3, Brachiopoda, f. 5, A to E, and f. 6; Johnston, Notes, Tert. Beds, Table Cape, Tas. 1876, p. 31.	Mount Gambier, <i>S. Australia.</i>

## (Brachiopoda.)

## (Tertiary.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
<b>Genus <i>Terebratula</i>, Lloyd, 1699 (see p. 61).—<i>Clistenterata-Terebratulidæ</i>.</b>			
<i>T. compta</i> , G. B. Sowerby.		Vide <i>Terebratella</i> .	
<i>T. Corioensis</i> , M'Coy (ms.).		Vide <i>Waldheimia Gambierensis</i> , Eth. jun.	
<i>T. Tateana</i> , Tenison-Woods.	Table Cape Series.	Fide <i>Woods</i> (in lit.).	Table Cape, Tas.
<i>T. vitreoides</i> , Tenison-Woods.	Table Cape Series.	Fide <i>Woods</i> (in lit.).	Table Cape, Tas.

Genus *Terebratulina*, d'Orbigny, 1847. (Comptes Rendus, xxv. p. 268; Pal. Franç. Ter. Cret. 1847, iv. p. 56; Davidson, Introduction, p. 63.)  
*Clistenterata-Terebratulidæ*.

<i>T. ? Davidsoni</i> , R. Etheridge, jun.	Mt. Gambier Series.	*Annals Nat. Hist. 1876, xvii. p. 16, pl. 1, f. 1 a—c.	Mount Gambier, S. Australia.
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Genus *Waldheimia*, King, 1850. (Mon. Perm. Foss. England, p. 145; Davidson, Introduction, p. 64.)—*Clistenterata-Terebratulidæ*.

<i>W. Corioensis</i> , M'Coy.	Hamilton Series (L. or M. Ter.), &c.	*Geol. Survey, Vict. Dec. v. 1877, p. 11, t. 43, f. 1—3; non <i>Terebratula Corioensis</i> , M'Coy (ms.).	Muddy Ck.; Bird Rock; Corio Bay, Vict.
<i>W. Crouchii</i> , Tenison-Woods.	Mt. Gambier Series.	*Tert. Rocks of S. Australia, pt. 3, Brachiopoda, p. 12, f. 2.	Mount Gambier, S. Australia.
<i>W. Gambierensis</i> , R. Etheridge, jun.	Mt. Gambier Series; Table Cape Series (L. or M. Ter.).	*Annals Nat. Hist. 1876, xvii. p. 19, t. 2, f. 4 a—d; Johnston, Notes, Tert. Beds, Table Cape, Tas. 1876, p. 31; <i>Terebratula Corioensis</i> , M'Coy (ms.), Smyth's Progress Rep. 1874, p. 36.	Mount Gambier, S. Australia. Table Cape, Tas.
<i>W. Garibaldiana</i> , Davidson.	Mt. Gambier Series (L. or M. Ter.).	*Geologist, 1862, v. p. 446, t. 24, f. 19; R. Etheridge, jun. *Annals Nat. Hist. 1876, xvii. p. 17, t. 1, f. 2 a and b.	Mount Gambier, S. Australia.
<i>W. grandis</i> , Tenison-Woods.	Mt. Gambier Series.	*Tert. Rocks of S. Australia, pt. 3, Brachiopoda, p. 12, f. 1 a and b.	Mount Gambier, S. Australia.
<i>W. imbricata</i> , Tenison-Woods.	Mt. Gambier Series.	*Tert. Rocks of S. Australia, pt. 3, Brachiopoda, p. 12, f. 3 a and b.	Mount Gambier, S. Australia.
<i>W. macropora</i> , M'Coy.	Schnapper Point Series = Oligocene (L. Ter.), Flemington Beds (Up. Ter.).	Smyth's Progress Report, 1874, p. 36; *Geol. Survey, Vict. Dec. v. 1877, p. 12, t. 43, f. 4 and 6 (? = <i>W. Garibaldiana</i> , Dav.).	Flemington, Mount Eliza, &c. Vict.
<i>W. Taylori</i> , R. Etheridge, jun.	Murray Cliffs Series.	*Annals Nat. Hist. 1876, xvii. p. 18, t. 1, f. 3 a—c.	Murray Cliffs, S. Australia.



## (Pelecypoda.)

## (Tertiary.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
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## Section—Mollusca proper.

## Class—Pelecypoda (Lamellibranchiata, or Conchifera).

Genus **Cardita**, *Bruguière*, 1789. (Encycl. Méthod. i. p. 401; Lamarck, Histoire, 1819, vi. p. 20; Stoliczka, Pal. Indica, iii. p. 283.)—*Lucinacea-Astartidæ*.

C. gracillicostata, <i>Tenison-Woods</i> .	Table Cape Series.	*Notes, Tertiary Foss. Tas. 1876, p. 60.	Table Cape, <i>Tas.</i>
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Genus **Cardium**, *Linnaeus*, 1758 (see p. 68).—*Veneracea-Cardiidæ*.

C. pseudo-magnum, <i>M'Coy</i> .	M. Ter. (Mio- cene?).	Smyth's Progress Report, 1874, p. 36; *Geol. Survey, Vict. Dec. v. 1877, p. 15, t. 44, f. 1.	Bird Rock Bluff, <i>Vict.</i>
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Genus **Chama**, *Linnaeus*, 1758. (Syst. Nat. ed. 10, i. p. 691; Lamarck, Histoire, 1819, vi. p. 92; Stoliczka, Pal. Indica, iii. p. 230.)—*Chamacea-Chamidæ*.

C. lamellifera, <i>Tenison-Woods</i> .	Table Cape Series.	*Notes, Tertiary Foss. Tas. 1876, p. 62.	Table Cape, <i>Tas.</i>
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Genus **Chione**, *Muhleffel*, 1811. (Naturf. Freunde, Berlin Mag. v. p. 51; Stoliczka, Pal. Indica, iii. p. 148.)—*Veneracea-Veneridæ*.

C. Cainozoica, <i>Tenison-Woods</i> .	Table Cape Series (L. or M. Ter.?).	*Notes, Tertiary Foss. Tas. 1876, p. 61.	Table Cape, <i>Tas.</i>
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C. propinqua, <i>Tenison-Woods</i> .	Table Cape Series.	*Notes, Tertiary Foss. Tas. 1876, p. 61.	Table Cape, <i>Tas.</i>
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Genus **Corbis**, *Cuvier*, 1817. (Le Règne Animal, ii. p. 480.)—*Lucinacea-Lucinidæ*.

C. lamellosa, <i>Sturt</i> .	Mt. Gambier Series (L. or M. Ter.?).	Two Expds. Int. S. Austr. 1832, ii. p. 254; Woods, Geol. Obs. S. Austr. 1862, p. 105. (? = <i>Lucina</i> <i>lamellosa</i> , Lamarck, *Ann. Muséum, vii. p. 237; <i>Corbis</i> , Des- hayes, *Descr. Coqu. Foss. i. p. 88, t. 14, figs. 1—3.)	Cliffs of Murray R. <i>S. Australia</i> .
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Genus **Corbula**, *Bruguière*, 1792. (Tabl. Encycl. Méthod. pl. 230; Lamarck, Prodrôme, 1799, p. 89.)—*Myacea-Myidæ*.

C. Gallica, <i>Sturt</i> .	Mt. Gambier Series (L. or M. Ter.?).	Two Expds. Int. S. Austr. 1832, ii. p. 254; Woods, Geol. Obs. S. Austr. 1862, p. 105. (? = <i>C.</i> <i>Gallica</i> , Lamk. *Ann. Muséum, viii. p. 466.)	Cliffs of Murray R. <i>S. Australia</i> .
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## (Pelecypoda.)

## (Tertiary.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
<i>C. sulcata</i> , <i>Lamarck</i> .	Schnapper Pt. Series = Oligocene (L. Ter.). Table Cape Series (M. or L. Ter.?).	Système, 1801, p. 137; Histoire, 1818, v. p. 495; M'Coy, Annals Nat. Hist. 1865, xvi. p. 114; <i>ibid. id.</i> 1867, xx. p. 195; <i>ibid.</i> Smyth's Progress Report, 1874, p. 35; <i>ibid. id.</i> 1876, III. p. 71; Woods, Proc. R. Soc. Tas. (for 1875) 1876, p. 16.	Schnapper Point, <i>Vict.</i> Table Cape, <i>Tas.</i>

Genus **Crassatella**, *Lamarck*, 1799. (Prodrome, p. 85; Système, 1801, p. 119.)  
*Lucinacea-Crassatellidæ.*

<i>C. aphrodina</i> , <i>Tenison-Woods</i> .	Table Cape Series (L. or M. Ter.?).	*Proc. R. Soc. Tas. for 1875 (1876), pp. 17 and 24, f. 12.	Table Cape, <i>Tas.</i>
<i>C. oblonga</i> , <i>Tenison-Woods</i> .	Table Cape Series (L. or M. Ter.?).	*Proc. R. Soc. Tas. for 1875 (1876), pp. 17 and 25, f. 11.	Table Cape, <i>Tas.</i>

Genus **Cucullæa**, *Lamarck*, 1801 (see p. 107).—*Arcacea-Arcidæ.*

<i>C. Cainozoica</i> , <i>Tenison-Woods</i> .	Table Cape Series (L. or M. Ter.?).	*Notes, Tertiary Foss. Tas. 1876, p. 59; Johnston, Notes, Tertiary Beds, Table Cape, 1876, p. 36.	Table Cape, <i>Tas.</i> Flinders' Is., Bass' Straits.
<i>C. concamerata</i> ( <i>Martini</i> ), <i>Reeve</i> .	Table Cape Series, &c. (L. or M. Ter.?).	*Conch. Icon. 1870, xvii. Mon. Cucullæa, t. 1, f. 1; M'Coy, Annals Nat. Hist. 1867, xx. p. 195; <i>id.</i> Smyth's Progress Report, 1874, I. p. 36; Woods, Proc. R. Soc. Tas. for 1875 (1876), p. 15.	Mordialloc, <i>Vict.</i> Table Cape, <i>Tas.</i>
<i>C. Corioensis</i> , <i>M'Coy</i> .	Schnapper Pt. Series = Oligocene (L. Ter.). Table Cape Series, &c.	*Geol. Survey, <i>Vict.</i> Dec. III. 1876, p. 32, t. 27, f. 3—5 b; Johnston, Notes, Tertiary Beds, Table Cape, <i>Tas.</i> 1876, p. 33.	Corio Bay, Mordialloc, Mount Martha, <i>Vict.</i> Table Cape, <i>Tas.</i>
<i>C. granulosa</i> , <i>Jonas</i> .		Proc. Zool. Soc. 1846, p. 34; Reeve, Conch. Icon. 1870, xvii. Mon. Cucullæa, t. 1, f. 2; M'Coy, Annals Nat. Hist. 1867, xx. p. 195; <i>id.</i> Smyth's Progress Report, 1874, I. p. 36.	Mordialloc, <i>Vict.</i>

Genus **Hinnites**, *DeFrance*, 1821. (Diet. Sc. Nat. xxi. p. 169.)—*Ostracea-Pectinidæ.*

<i>H. Corioensis</i> , <i>M'Coy</i> (ms.).		Smyth's Progress Report, 1874, p. 36.	
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Genus **Lima**, *Bruguère* (see p. 109).—*Ostreacea-Radulidæ.*

<i>L. Bassii</i> , <i>Tenison-Woods</i> .	Table Cape Series.	*Notes, Tertiary Foss. Tas. 1876, p. 60.	Table Cape, <i>Tas.</i>
<i>L. squamosa</i> , <i>Tenison-Woods</i> (ms.).	Table Cape Series.	Johnston, Notes, Tertiary Beds, Table Cape, <i>Tas.</i> 1876, p. 34.	Table Cape, <i>Tas.</i>

## (Pelecypoda.)

## (Tertiary.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
Genus <i>Limatula</i> , <i>Scarles Wood</i> , 1839. (Mag. Nat. Hist. iii. pp. 233 and 235; Stoliczka, Pal. Indica, iii. p. 413).— <i>Ostreacea-Radulidæ</i> .			
<i>L. subauriculata</i> , <i>Montagu</i> .	Table Cape Series (L. or M. Ter.?).	<i>Pecten</i> , Test. Brit. Supp. 1808, p. 63, t. 29, f. 2; <i>Limatula</i> , Woods, Notes, Tertiary Foss. Tas. 1876, p. 61.	Table Cape, <i>Tas.</i>
Genus <i>Limopsis</i> , <i>Sassi</i> , 1827 (Giornale Ligustico de Sci. Lettere e. Arti!) = <i>Trigonocalia</i> , <i>Myst. et Galeotti</i> ; <i>Pectunculina</i> , d'Orbigny, 1844. <i>Arcacea-Arcidæ</i> .			
<i>L. aurita</i> , <i>Brocchi</i> .	L. Ter. (Oligocene), &c.	<i>Arca</i> , *Conch. Foss. Subap. ii. p. 485, t. 11, f. 9; <i>Limopsis</i> , M'Coy, Annals Nat. Hist. 1865, xvi. p. 114; <i>ibid. id.</i> 1876, xx. p. 195; <i>ibid.</i> Smyth's Progress Report, 1874, p. 36; <i>ibid.</i> *Geol. Survey, Vict. Dec. ii. 1875, p. 23, t. 19, figs. 5—7.	Bird Rock, near Geelong; Morn- ington, <i>Vict.</i>
<i>L. Belcheri</i> , <i>Adams</i> and <i>Reve</i> .	L. Ter. (Oligocene), &c.	<i>Pectunculus</i> , *Voy. Samarang. Zool. Moll. 1850, p. 76, t. 22, f. 5; M'Coy, Annals Nat. Hist. 1865, xvi. p. 114; <i>ibid. id.</i> 1867, xx. p. 195; Woods, Trans. R. Soc. Vict. viii. p. 44; M'Coy, Smyth's Progress Report, 1874, p. 36; <i>id.</i> *Geol. Survey, Vict. Dec. ii. 1875, p. 25, t. 19, figs. 8 and 9.	Bird Rock Bluff, nr. Geelong; Co- rio Bay; Muddy Ck. <i>Vict.</i>
Genus <i>Lyonsia</i> , <i>Turton</i> , 1822. (Conch. Syst. Brit.! Stoliczka, Pal. Indica, iii. p. 65.) <i>Myacea-Anatinidæ</i> .			
<i>L. Agnewi</i> , <i>Tenison-</i> <i>Woods</i> .	Table Cape Series.	*Proc. R. Soc. Tas. for 1875 (1876), p. 25, f. 13.	Table Cape, <i>Tas.</i>
Genus <i>Nucula</i> , <i>Lamarck</i> , 1799 (see p. 73).— <i>Arcacea-Nuculidæ</i> .			
<i>N. Marthæ</i> , <i>M'Coy</i> .	Oldest G. D. (=L. Pliocene?).	*Smyth's Progress Report, 1875, ii. p. 22, f. 2; <i>id. ibid.</i> 1876, iii. p. 49; Couchman's Pro- gress Report, 1877, iv. p. 155.	Welcome Rush, nr. Stawell, <i>Vict.</i>
<i>N. tumida</i> , <i>Tenison-</i> <i>Woods</i> (non <i>Phill.</i> ).	Table Cape Series.	*Notes, Tertiary Foss. Tas. 1876, p. 59.	Table Cape, <i>Tas.</i>
<i>N. sp. ind.</i>	Murray River Series (L. or M. Ter.?).	Sturt, *Two Expeds. Int. S. Austr. 1832, ii. p. 254, t. 3, f. 12.	Cliffs of Murray R. <i>S. Australia.</i>
Genus <i>Nuculana</i> , <i>Link</i> , 1807 (see p. 74).— <i>Arcacea-Nuculanidæ</i> .			
<i>N. crebricostata</i> , <i>Tenison-Woods</i> .	Table Cape Series.	<i>Leda</i> , *Notes, Tertiary Foss. Tas. 1876, p. 60.	Table Cape, <i>Tas.</i>

## (Pelecypoda.)

## (Tertiary.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
Genus <i>Ostrea</i> , <i>Linnaeus</i> , 1758 (see p. 111).— <i>Ostracea-Ostreidae</i> .			
<i>O. elongata</i> , <i>Sturt</i> .	Mt. Gambier Series; Murray River Series (L. or M. Ter.?).	*Two Expds. Int. S. Austr. 1832, II. p. 254; Woods, Geol. Obs. S. Austr. 1862, p. 106; (? = <i>O. elongata</i> , Deshayes, *Descr. Coqu. Foss. 1824, I. p. 348, t. 49, figs. 3, 4.)	Cliffs of Murray R. and Mt. Gambier, <i>S. Australia</i> .

Genus *Pecten*, *O. F. Müller*, 1776 (see p. 76).—*Ostracea-Pectinidae*.

<i>P. coarctatus</i> , <i>Sturt</i> .	Mt. Gambier Series; Murray River Series (L. or M. Ter.?).	*Two Expds. Int. S. Austr. 1832, p. 254, t. 3, f. 13; Woods, Geol. Obs. S. Austr. 1862, p. 76, fig.; <i>ibid.</i> Quart. Jour. Geol. Soc. 1865, XXI. pp. 391 and 393; <i>ibid.</i> Trans. R. Soc. Vict. VI. p. 6; (? = <i>P. coarctatus</i> , DeFrance, *Dict. Sc. Nat. XXXVIII. p. 255; <i>Ostrea coarctata</i> , Brocci, Conch. Foss. Subap. II. p. 574, t. 14, f. 9.)	Cliffs of Murray R.; Mount Gambier, <i>S. Australia</i> . Muddy Ck. <i>Vict.</i>
<i>P. laticostatus</i> , <i>J. E. Gray</i> .		Vide <i>Vola laticostata</i> .	
<i>P. yah lensis</i> , <i>Tenison-Woods</i> .	M. Ter. (Miocene?).	*Proc. Phil. Soc. Adelaide 1865, t. 1, f. 2!; M'Coy, in Couchman's Progress Report, 1877, IV. p. 16; var. <i>semilavis</i> , <i>id.</i> *Geol. Survey, Vict. Dec. IV. 1876, p. 13, t. 34.	Harrow; Corio Bay, <i>Vict.</i> ?Mount Gambier, <i>S. Australia</i> .
<i>P. sp. ind.</i>	Mt. Gambier Series, &c. (L. or M. Ter.?).	<i>Sturt</i> , *Two Expds. Int. S. Austr. 1832, p. 254, t. 3, f. 14; Woods, Geol. Obs. S. Austr. 1862, p. 74, fig.	Cliffs of Murray R. and Mt. Gambier, <i>S. Australia</i> .

Genus *Pectunculus*<sup>1</sup>, *Lamarck*, 1799 (Prodrome, p. 87; Système, 1801, p. 115), non *Adanson*, 1757; ? = *Axinea*, *Poli*, 1791.—*Arcacea-Arcidae*.

<i>P. laticostatus</i> , <i>Quoy and Gaimard</i> .	Schnapper Pt. Series = Oligocene (L. Tert.?). Table Cape Series (L. or M. Ter.?), &c.	* <i>Voy. de l'Astrolabe</i> , Zool. III. t. 77, figs. 4—6; <i>J. E. Gray</i> , in Dieffenbach's *Travels in N. Zealand, 1843, II. p. 257; M'Coy, Ex. Essay, 1861, p. 169; <i>ibid.</i> Annals Nat. Hist. 1862, IX. p. 146; Wilkinson, Geol. Rept. C. Otway Dist. 1865, p. 23; M'Coy, Annals Nat. Hist. 1865, XVI. p. 114; <i>ibid. id.</i> 1867, XX. p. 194; Woods, Quart. Jour. Geol. Soc. 1865, XXI. p. 391; <i>ibid.</i> Trans. R. Soc. Vict. VIII. p. 45; Hutton, *Cat. Ter. Moll. and Echinodermata, N. Zealand, 1873, p. 28; von Martens, Cat. Marine Moll. N. Zealand,	Schnapper Point, Hobson's Bay; Bird Rock, near Geelong; Muddy Ck. near Hamilton, <i>Vict.</i> Table Cape, <i>Tas.</i>
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<sup>1</sup> *Pectunculus*.—This name was first used by *Adanson*, in 1757 (*Voy. Sénégal*, p. 240), and again by *Lamarck*, in 1799, but in a different sense. The *Lamarckian* genus appears to be identical with *Axinea*, *Poli*, 1791 (*Testacea u. Siciliae*), which has precedence of it, and should therefore take the place of *Pectunculus*, *Lamarck* (non *Adanson*).

(Pelecypoda.)		(Tertiary.)	
Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
		1873, p. 80; M'Coy, Smyth's Progress Rept. 1874, p. 35; <i>id.</i> *Geol. Survey, Vict. Dec. II. 1875, p. 26, t. 19, figs. 10—14.	
Genus <b>Protocardium</b> , <i>Beyrich</i> , 1845. (Menke's Zeit. für Malakozool. 1845, pp. 17—20.) <i>Veneracea-Cardiida</i> .			
<i>P. antisemigranulatum</i> , <i>M'Coy</i> .	M. Ter. (Miocene?).	*Geol. Survey, Vict. Dec. v. 1877, p. 16, t. 44, f. 2 and 3.	Moorabool, <i>Vict.</i>
Genus <b>Solecurtus</b> , <i>Blainville</i> , 1824. (Dict. Sci. Nat. xxxii. p. 351.)— <i>Myacea-Solenida</i> .			
<i>S. Legrandi</i> , <i>Tenison-Woods</i> .	Table Cape Series (L. or M. Ter.?).	*Proc. R. Soc. Tas. for 1875 (1876), pp. 17 and 25, f. 14.	Table Cape, <i>Tas.</i>
Genus <b>Spondylus</b> , <i>Klein</i> , 1759. (Tert. Meth. Ostrac. p. 136; Linnæus, Systema, ed. 10, 1758, p. 690; Stoliczka, Pal. Indica, III. p. 441.)— <i>Ostracea-Spondyliida</i> .			
<i>S. gadæropoides</i> , <i>M'Coy</i> .	Schnapper Pt. Series = Oligocene (L. Tert.).	Smyth's Progress Report, 1874, pp. 35 and 36; Couchman's, <i>id.</i> 1877, iv. p. 17; *Geol. Survey, Vict. Dec. iv. 1876, p. 27, t. 38, f. 1—1 <i>d</i> ; Dec. v. 1877, p. 17, t. 45, f. 1 and 3.	Boggy Creek; Bird Rock Bluff; Schnapper Pt. <i>Vict.</i>
<i>S. pseudoradula</i> , <i>M'Coy</i> .	Schnapper Pt. beds = Oligocene (L. Ter.); Hamilton Series (L. or M. Ter.); Mordialloc Ser. (U. Ter.).	*Geol. Survey, Vict. Dec. v. 1877, p. 17, t. 45, f. 2.	Mount Martha; Muddy Creek; Mordialloc, <i>Vict.</i>
<i>S. spinulosus</i> , <i>M'Coy</i> (ms.).	Schnapper Pt. Series = Oligocene (L. Tert.).	Smyth's Progress Report, 1874, p. 35.	Boggy Creek; Bird Rock Bluff; Schnapper Pt. <i>Vict.</i>
Genus <b>Tellina</b> , <i>Linnæus</i> , 1758 (see p. 112).— <i>Tellinacea-Tellinida</i> .			
<i>T. Cainozoica</i> , <i>Tenison-Woods</i> .	Table Cape Series.	*Notes, Tertiary Foss. Tas. 1876, p. 61.	Table Cape, <i>Tas.</i>
<i>T. Krausei</i> , <i>M'Coy</i> .	Oldest G. D. (= L. Pliocene?).	*Smyth's Progress Report, 1875, II. p. 22, f. 3; <i>id. ibid.</i> 1876, p. 49; Couchman's Progress Report, 1877, iv. p. 155.	Welcome Rush, nr. Stawell, <i>Vict.</i>
Genus <b>Trigonia</b> , <i>Bruguère</i> , 1789 (see p. 113).— <i>Arcacea-Trigoniada</i> .			
<i>T. acuticostata</i> , <i>M'Coy</i> .	Schnapper Pt. Series = Oligocene (L. Tert.).	<i>T. Lamarkii</i> , Jenkins (non Mathn.), *Geol. Mag. 1866, III. p. 201, t. 10, figs. 3—7; <i>T. acuticostata</i> , M'Coy, * <i>ibid.</i> p. 482; <i>ibid. id.</i>	Cape Otway Coast; Mordialloc; Muddy Creek; Schnapper Point, <i>Vict.</i>

(Pelecypoda.)		(Tertiary.)	
Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
	Hamilton Series (L. or M. Ter.?), &c.	Annals Nat. Hist. 1867, xx. p. 194; <i>T. Lamarkii</i> , Jenkins, Geol. Mag. 1868, v. p. 567; <i>T. acuticostata</i> , M'Coy, *Geol. Survey, Vict. 1875, Dec. II. p. 21, t. 19, figs. 1 and 2; <i>id.</i> Annals Nat. Hist. 1876, xviii. p. 273.	
<i>T. Howitti</i> , M'Coy.	M. Ter. (Miocene?).	*Annals Nat. Hist. 1875, xv. p. 316, t. 18, f. B; *Geol. Survey, Vict. Dec. III. p. 31, t. 27, f. 1 to 2 c.	Jemmy's Point, Gippsland Lakes, Vict.
<i>T. Lamarkii</i> , Jenkins (non Mathn.).		Vide <i>T. acuticostata</i> , M'Coy.	
<i>T. semiundulata</i> , M'Coy.	Table Cape Series (M. or L. Ter.?). Miocene? (M. Ter.).	Ex. Essay, 1861, p. 170; Annals Nat. Hist. 1862, ix. p. 147; <i>T. subundulata</i> , Jenkins, *Quart. Jour. Sci. 1865, II. p. 362, t. 8, f. 6; <i>T. semiundulata</i> , M'Coy, *Geol. Mag. 1866, III. p. 481; <i>ibid. id.</i> Annals Nat. Hist. 1867, xx. p. 194; <i>ibid.</i> Jenkins, Geol. Mag. 1868, v. p. 566; <i>ibid.</i> Stephens, Monthly Notices R. Soc. Tas. for 1869, p. 20; <i>ibid.</i> Hutton, Cat. Tert. Moll. and Echinodermata, N. Zealand, 1873, p. 27; <i>ibid.</i> M'Coy, Smyth's Progress Report, 1874, p. 35; <i>ibid. id.</i> *Geol. Survey, Vict. Dec. II. 1875, p. 22, t. 19, figs. 4 and 5; <i>ibid.</i> Woods, Proc. R. Soc. Tas. (for 1875) 1876, p. 16.	Bird Rock Bluff, near Geelong; Moorabool Riv., Vict. Table Cape, Tas.

Genus **Unio**, Retzius, 1788 (see p. 113).—*Unionacea-Unionidæ*.

<i>U. Wilkinsoni</i> , Etheridge, jun. (ms.).	Oldest G. D. (=L. Pliocene?).	<i>Unio</i> sp. Wilkinson, Annual Report Dep. Mines, N. S. Wales, for 1876, p. 172; <i>id.</i> Etheridge, jun. Geol. Mag. 1877, Dec. 2, IV. p. 286.	Gulgong, N. S. Wales.
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Genus **Venus**, Linnæus, 1758 (see p. 79).—*Veneracea-Veneridæ*.

<i>V. Allporti</i> , Tenison-Woods.	Table Cape Series (L. or M. Ter.?).	*Proc. R. Soc. Tas. for 1875 (1876), p. 26, f. 10.	Table Cape, Tas.
<i>V. lævigata</i> , Sturt.	Mt. Gambier Series; Murray River Series (L. or M. Ter.?).	*Two Expds. Int. S. Austr. 1832, II. p. 254; Woods, Geol. Obs. S. Austr. 1862, p. 106. (? = <i>Cytherea lævigata</i> , Lamk. *Ann. Muséum, 1806, VII. p. 134.)	Cliffs of Murray R.; Mount Gambier, S. Australia.
<i>V. obliqua</i> , Sturt.	Murray River Series (L. or M. Ter.?).	*Two Expds. Int. S. Austr. 1832, II. p. 254; Woods, Geol. Obs. S. Austr. 1862, p. 106. (? = <i>V. obliqua</i> , Lamk. *Ann. Muséum, 1806, VII. p. 62.)	Cliffs of Murray R. S. Australia.

## (Gasteropoda.)

## (Tertiary.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
Genus <i>Vola</i> , Klein, 1753. (Tent. Meth. Ostrac. pt. 2, p. 135, no. 351.) <i>Ostreacea-Pectinida</i> .			
<i>V. laticostata</i> , J. E. Gray.	Table Cape Series (L. or M. Ter.?).	<i>Pecten</i> , in Yate's *Account of N. Zealand, 1835, p. 310; <i>id.</i> in Dieffenbach's Travels in N. Zealand, 1843, II. p. 260; <i>P. Nova Zeelandiae</i> , Reeve, *Conch. Iconica, VIII. Mon. Genus <i>Pecten</i> , 1852, no. 36, t. 8, f. 36; <i>P. laticostatus</i> , Angas, Proc. Zool. Soc. 1865, p. 656; <i>Vola laticostata</i> , Hutton, *Cat. Marine Moll. N. Zealand, 1873, p. 82; <i>P. (Vola) id.</i> von Martens, Critical List Marine Moll. N. Zealand, 1873, p. 50; <i>Pecten</i> , Hutton, *Cat. Tert. Moll. and Echinodermata, N. Zealand, 1873, p. 30.	Table Cape, Tas.

## Class—Gasteropoda.

Genus *Actæon*, de Montfort, 1810 (see p. 113).

<i>A. scrobiculatus</i> , Tenison-Woods.	Table Cape Series.	*Notes, Tertiary Foss. Tas. 1876, p. 50.	Table Cape, Tas.
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Genus *Ancilla*, Lamarck, 1799 (Prodrome, p. 70; Système, 1801, p. 73; Adams, Genera, I. 1853, p. 148) = *Ancillaria*, Lamk. 1810.—*Prosobr.-Olivida*.

<i>A. mucronata</i> , G. B. Sowerby.	Table Cape Series (L. or M. Ter.?).	<i>Ancillaria</i> , *Thes. Conch. III. p. 63, f. 11, 12, and 14; <i>id.</i> Tenison-Woods, Proc. R. Soc. Tas. 1875, p. 17; <i>id.</i> Johnston, Notes, Tertiary Beds, Table Cape, Tas. 1876, p. 34.	Table Cape, Tas.
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Genus *Buccinum*, Linnæus, 1758. (Systema, ed. 10, p. 734; Lamarck, Prodrome, 1799, p. 71; Système, 1801, p. 77; Histoire, 1822, VII. p. 262; Adams, Genera, I. 1853, p. 107.)—*Prosobr.-Buccinida*.

<i>B. fragile</i> , Tenison-Woods.	Table Cape Series.	*Notes, Tertiary Foss. Tas. 1876, p. 55.	Table Cape, Tas.
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Genus *Bulla*, Klein, 1753. (Tent. Meth. Ostrac. p. 82; Linnæus, 1758, Systema, ed. 10, p. 725; Lamarck, Prodrome, 1799, p. 75; *id.* Histoire, 1822, VI. pt. 2, p. 116; Adams, Genera, II. 1854, p. 15.)—*Opisthobr.-Bullida*.

<i>B.? sp. ind.</i>	Murray River Series.	Sturt, Two Exped. Int. S. Austr. 1832, II. t. 2, f. 2.	Murray R. Cliffs, S. Australia.
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## (Gasteropoda.)

(Tertiary.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
Genus <b>Calcar</b> , <i>Montfort</i> , 1810 (Conch. Syst. II. p. 135; <i>Stoliczka</i> , Pal. Indica, II. p. 357) = <i>Stella</i> (Klein), H. and A. Adams, 1854; ? <i>Turboidea</i> , <i>Seeley</i> , 1861. <i>Prosobr.-Turbinidæ</i> .			
C. <i>Flindersi</i> , <i>Tenison-Woods</i> .	Table Cape Series.	*Notes, Tertiary Foss. Tas. 1876, p. 43.	Table Cape, <i>Tas.</i>
C. <i>ornatissimum</i> , <i>Tenison-Woods</i> .	Table Cape Series.	*Notes, Tertiary Foss. Tas. 1876, p. 44.	Table Cape, <i>Tas.</i>
Genus <b>Cassidaria</b> , <i>Lamarck</i> , 1812. (Cours de Zool. I.; Histoire, 1822, VII. p. 214; <i>Stoliczka</i> , Pal. Indica, II. p. 453.)— <i>Prosobr.-Cassididæ</i> .			
C. <i>reticulospira</i> , <i>M'Coy</i> .	Schnapper Pt. Series = Oligocene (L. Ter.). Table Cape Series (L. or M. Ter.?).	Exhib. Essay, 1861, p. 169; <i>Annals Nat. Hist.</i> 1862, IX. p. 146; <i>ibid.</i> 1867, XX. p. 194; <i>Smyth's Progress Report</i> , 1874, p. 35; <i>Tenison-Woods</i> , Proc. R. Soc. Tas. for 1875 (1876), p. 17.	Schnapper Point, <i>Vict.</i> Table Cape, <i>Tas.</i>
Genus <b>Cassis</b> , <i>Lamarck</i> , 1799. (Prodrome, p. 72; Histoire, 1822, VII. p. 218; <i>Adams</i> , Genera, I. 1853, p. 214.)— <i>Prosobr.-Cassididæ</i> .			
C. <i>sufflatus</i> , <i>Tenison-Woods</i> .	Table Cape Series.	*Notes, Tertiary Foss. Tas. 1876, p. 41.	Table Cape, <i>Tas.</i>
Genus <b>Cerithium</b> , <i>Adanson</i> , 1757 (see p. 114).			
C. <i>Flemingtonensis</i> , <i>M'Coy</i> .	Flemington Series (L. Pliocene?).	*Geol. Survey, <i>Vict.</i> Dec. III. 1876, p. 28, t. 26, f. 3—9.	Flemington, <i>Vict.</i>
Genus <b>Columbella</b> , <i>Lamarck</i> , 1799. (Prodrome, p. 70; Système, 1801, p. 75; Histoire, VII. 1822, p. 292; <i>Adams</i> , Genera, 1853, I. p. 181.) <i>Prosobr.-Columbellinæ</i> .			
C. <i>Cainozoica</i> , <i>Tenison-Woods</i> .	Table Cape Series.	*Notes, Tertiary Foss. Tas. 1876, p. 58.	Table Cape, <i>Tas.</i>
C. <i>Oxleyi</i> , <i>Tenison-Woods</i> .	Table Cape Series.	*Notes, Tertiary Foss. Tas. 1876, p. 59.	Table Cape, <i>Tas.</i>
Genus <b>Cominella</b> , <i>J. E. Gray</i> , 1853. ( <i>Adams</i> , Genera, I. p. 110; <i>Guide Moll.</i> Brit. Mus. 1857, p. 15.)— <i>Prosobr.-Buccinidæ</i> .			
C. <i>cancelata</i> , <i>Tenison-Woods</i> .	Table Cape Series.	*Notes, Tertiary Foss. Tas. 1876, p. 55.	Table Cape, <i>Tas.</i>
C. <i>lyræcostata</i> , <i>Tenison-Woods</i> .	Table Cape Series.	*Notes, Tertiary Foss. Tas. 1876, p. 56.	Table Cape, <i>Tas.</i>



(Gasteropoda.)		(Tertiary.)	
Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
Genus <b>Conus</b> , <i>Linnaeus</i> , 1758. (Systema, ed. 10, p. 712; Lamarck, 1799, Prodrome, p. 69; Adams, Genera, 1853, i. p. 247.)— <i>Prosobr.-Conidae</i> .			
<i>C.?</i> <i>sp. ind. (a).</i>	Murray River Series.	Sturt, Two Expeds. Int. S. Austr. 1832, ii. p. 256, t. 2, f. 3.	Murray R. Cliffs, <i>S. Australia</i> .
<i>C.?</i> <i>sp. ind. (b).</i>	Murray River Series (L. or M. Ter.?).	Sturt, Two Expeds. Int. S. Austr. 1832, ii. p. 256, t. 3, f. 26; Woods, Geol. Obs. S. Austr. 1862, p. 78.	Murray R. Cliffs, <i>S. Australia</i> .
Genus <b>Cylichna</b> , <i>Lovèn</i> , 1846. (Index Moll. Scand. !; Adams, Genera, 1854, ii. p. 9; Stoliczka, Pal. Indica, ii. p. 478.)— <i>Opisthobr.-Cylichnidae</i> .			
<i>C. arachis</i> , <i>Quoy</i> and <i>Gaimard</i> .	Table Cape Series (L. or M. Ter.?).	<i>Bulla</i> , Voy. de l'Astrolabe, Zoologie, ii. p. 361, Atlas, t. 26, f. 28—30; Sowerby, *Thes. Conch. ii. p. 590, t. 125, f. 133 and 134; Angas, Proc. Zool. Soc. 1867, p. 226; <i>Cylichna</i> , Johnston, Notes, Tertiary Beds, Table Cape, Tas. 1876, p. 36; <i>id.</i> Tenison-Woods, <i>ibid.</i> p. 50.	Table Cape, <i>Tas.</i>
Genus <b>Cypræa</b> , <i>Linnaeus</i> , 1758. (Systema, ed. 10, p. 718; Lamarck, Prodrome, 1799, p. 69; <i>id.</i> Histoire, 1822, vii. p. 372; Adams, Genera, 1854, i. p. 264; Stoliczka, Pal. Indica, ii. p. 49.)— <i>Prosobr.-Cypræidae</i> .			
<i>C. Archeri</i> , <i>Tenison-Woods</i> .	Table Cape Series.	*Proc. R. Soc. Tas. for 1875 (1876), p. 23, f. 9.	Table Cape, <i>Tas.</i>
<i>C. eximia</i> , <i>G. B. Sowerby</i> .	Schnapper Pt. Series = Oligocene (L. Ter.), &c.	Strzelecki's *Phys. Deser. N. S. Wales, 1845, p. 296, t. 19, f. 1—3; Woods, Quart. Jour. Geol. Soc. 1865, xxi. p. 391; M'Coy, Smyth's Progress Report, 1874, p. 35; <i>C. (Cyprovula)</i> , Gray, Proc. Zool. Soc. 1849, p. 125; <i>Cypræa</i> , R. Gunn, <i>ibid.</i> p. 124; <i>id.</i> Gray, Proc. R. Soc. V. D. Land, ii. p. 197; <i>C. (Aricia) eximia</i> , M'Coy, *Geol. Survey, Vict. Dec. iii. p. 35, t. 28, t. 29, f. 2; <i>Cypræa</i> , Woods, Proc. R. Soc. Tas. for 1875 (1876), p. 15.	Schnapper Point; Reilley's Creek, near Hamilton, <i>Vict.</i> Table Cape, <i>Tas.</i>
<i>C. gastroplax</i> , <i>M'Coy</i> .	Schnapper Pt. Series = Oligocene (L. Ter.).	Annals Nat. Hist. 1867, xx. p. 194; Smyth's Progress Report, 1874, p. 35; *Geol. Survey, Vict. Dec. ii. 1875, p. 20, t. 16, f. 1, t. 17 and t. 18, f. 2.	Schnapper Point, <i>Vict.</i>
<i>C. gigas</i> , <i>M'Coy</i> .	Schnapper Pt. Series = Oligocene (L. Tert.), &c.	Annals Nat. Hist. 1867, xx. p. 194, and p. *438; Smyth's Progress Report, 1874, p. 35; <i>C. (Aricia) gigas</i> , *Geol. Survey, Vict. Dec. ii. 1875, p. 19, t. 15, t. 16, f. 2, t. 17 and 18, f. 1; <i>id. ibid.</i> Dec. iii. 1876, p. 35, t. 28, t. 29, f. 1.	Schnapper Point; Muddy Ck. <i>Vict.</i>

## (Gasteropoda.)

## (Tertiary.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
<i>C. oviformis</i> , <i>Tenison-Woods</i> .	Mt. Gambier Series.	Geol. Obs. S. Austr. 1862, p. 83 (? = <i>C. oviformis</i> , J. Sow. Min. Con. i. p. 17, t. 4).	Mount Gambier, S. Australia.
<i>C. platypyga</i> , <i>M'Coy</i> .	Schnapper Pt. Series = Oligocene (L. Ter.).	Smyth's Progress Report, 1874, p. 35; <i>C. (Aricia)</i> , *Geol. Survey, Vict. Dec. III, 1876, p. 39, t. 30, f. 1—1 c; <i>Cypræa</i> , Johnston, Notes, Tertiary Beds, Table Cape, Tas. 1876, p. 33.	Schnapper Point, Vict. Table Cape, Tas.
<i>C. platyrhyncha</i> , <i>M'Coy</i> .	M. Ter. (Miocene?); Table Cape Series (L. or M. Ter.?).	Smyth's Progress Report, 1874, p. 35; <i>C. (Aricia)</i> , *Geol. Survey, Vict. Dec. III, 1876, p. 40, t. 30, f. 2—2 c; <i>Cypræa</i> , Johnston, Notes, Tertiary Beds, Table Cape, Tas. 1876, p. 33.	Bird Rock Point, Vict. Table Cape, Tas.

Genus *Cypræovula*, *Gray*, 1824. (Zool. Jour. i. p. 75; Adams, Genera, 1854, p. 267; Gray, Guide Brit. Mus. 1857, pt. 1, p. 73.)—*Prosobr.-Cypræidæ*.

*C. eximia*, *G. B. Sowerby*. | Vide *Cypræa eximia*.

Genus *Daphnella*, *Hinds*, 1844. (Zool. Voy. H.M.S. Sulphur, II. Mollusca, p. 25; Adams, Genera, 1853, i. p. 97.)—*Prosobr.-Turritidæ*.

<i>D. columbelloides</i> , <i>Tenison-Woods</i> .	Table Cape Series.	*Notes, Tertiary Foss. Tas. 1876, p. 53.	Table Cape, Tas.
<i>D. gracillima</i> , <i>Tenison-Woods</i> .	Table Cape Series.	*Notes, Tertiary Foss. Tas. 1876, p. 54.	Table Cape, Tas.
<i>D. tenuisculpta</i> , <i>Tenison-Woods</i> .	Table Cape Series.	*Notes, Tertiary Foss. Tas. 1876, p. 54.	Table Cape, Tas.

Genus *Delphinula*, *Lamarck*, 1804 (see p. 114).—*Prosobr.-Turbinidæ*.

*D. tetragonostoma*, *Tenison-Woods*. | Table Cape Series. | \*Notes, Tertiary Foss. Tas. 1876, p. 44.

Genus *Dentalium*, *Linnaeus*, 1740 (see p. 81).—*Prosobr.-Dentaliidæ*.

<i>D. Kickxii</i> , <i>Nyst</i> .	Table Cape Series (L. or M. Ter.?).	*Descrip. Coq. Polyp. Foss. Terr. Tert. Belg. 1843, pt. 2, p. 342, t. 36, f. 1; Bull. Soc. Geol. xiv. p. 454; <i>D. Mississippensis</i> (Conrad), M'Coy, Annals Nat. Hist. 1865, xvi. p. 114; <i>D. Kickxii</i> (Nyst), et <i>D. Mississippensis</i> (Conrad), <i>id. ibid.</i> 1867, xx. p. 193; <i>D. Kickxii</i> , M'Coy, Smyth's Progress Report, 1874, p. 36; <i>id.</i> Woods, *Proc. R. Soc. Tas. for 1875 (1876), p. 15; <i>id.</i> Deshayes, *Descrip. Anim. sans Vertèbres, II. p. 207, Atlas, t. 3, f. 1—4.	Table Cape, Tas. Victoria.
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## (Gasteropoda.)

(Tertiary.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
<i>D. lacteum</i> , <i>Deshayes</i> .	Table Cape Series (L. or M. Ter.?).	* <i>Mon. Dentalium</i> , p. 42, t. 2, f. 28; <i>Deshayes and Edwards, Lamarck's Histoire Nat. Anim. s. Vert.</i> 1838, v. p. 597; <i>Catlow and Reeve, Conch. Nomenclator</i> , 1845, p. 91; <i>Tenison-Woods, *Proc. R. Soc. Tas. for 1875</i> (1876), p. 17.	Table Cape, <i>Tas.</i>
<p>Genus <b>Emarginula</b>, <i>Lamarck</i>, 1801. (<i>Système</i>, p. 67; <i>Histoire</i>, 1822, vi. p. 5; <i>Adams, Genera</i>, 1854, i. p. 452; <i>Stoliczka, Pal. Indica</i>, ii. p. 391.) <i>Prosobr.-Fissurellidæ</i>.</p>			
<i>E. transenna</i> , <i>Tenison-Woods</i> .	Table Cape Series (L. or M. Ter.?).	* <i>Notes, Tertiary Foss. Tas.</i> 1876, p. 51; ? <i>E. dilecta</i> , <i>Angas</i> (non <i>A. Adams</i> ), <i>Proc. Zool. Soc.</i> 1867, p. 219.	Table Cape, <i>Tas.</i>
<p>Genus <b>Eulima</b>, <i>Risso</i>, 1826. (<i>Hist. Nat. Europe Mérid.</i> iv. p. 123; <i>Adams, Genera</i>, 1853, i. p. 236.)—<i>Prosobr.-Eulimidæ</i>.</p>			
<i>E. subulata</i> , <i>Donovan</i> .	Table Cape Series; Hamilton Series (L. or M. Ter.?).	<i>Turbo</i> , <i>Nat. Hist. Brit. Shells</i> , 1803, v. t. 172; <i>Helix</i> , <i>Montagu, Test. Brit., Supp.</i> 1808, p. 142; <i>Phasianella</i> , <i>Fleming, Brit. Animals</i> , 1828, p. 301; <i>Eulima</i> , <i>Catlow and Reeve, Conch. Nomenclator</i> , 1845, p. 209; <i>id.</i> <i>Deshayes and M. Edwards, Lamarck's Hist. Nat. Anim. s. Vertéb.</i> 1838, viii. p. 455; <i>id.</i> <i>Searles Wood, *Mon. Crag. Moll.</i> 1848, pt. 1, p. 97; <i>id.</i> <i>Forbes and Hanley, *Hist. Brit. Moll.</i> 1853, iii. p. 235, t. 92, f. 7 and 8; <i>id.</i> <i>Hörnes, *Foss. Moll. Tert.-Beckens Wien</i> , 1856, 1 Bd. p. 547, t. 49, f. 20, a-c; <i>id.</i> <i>Gwyn-Jeffreys, *Brit. Conch.</i> 1867, iv. p. 208; <i>Eulimella</i> , <i>Tenison-Woods, Notes, Tertiary Foss. Tas.</i> 1876, p. 50.	Table Cape, <i>Tas.</i> Muddy Creek, near Hamilton, <i>Vict.</i>
<p>Genus <b>Fissurella</b>, <i>Bruguière</i>, 1789. (<i>Encycl. Méthod.</i> i. p. xiv.; <i>Lamarck, Prodrôme</i>, 1799, p. 78; <i>id.</i> <i>Système</i>, 1801, p. 69; <i>id.</i> <i>Histoire</i>, 1822, vi. pt. 2, p. 8; <i>Stoliczka, Pal. Indica</i>, ii. p. 392; <i>Adams, Genera</i>, 1854, i. p. 445.) <i>Prosobr.-Fissurellidæ</i>.</p>			
<i>F. concatenata</i> , <i>Crosse</i> .	Table Cape Series (L. or M. Ter.?).	* <i>Jour. de Conchy.</i> 1864, xii. p. 348; <i>Woods, Notes, Tertiary Foss. Tas.</i> 1876, p. 50.	Table Cape, <i>Tas.</i>

## (Gasteropoda.)

(Tertiary.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
Genus <b>Fusus</b> , <i>Klein</i> , 1753. (Tent. Meth. Ostrac. pt. 1, p. 60; Lamarck, Prodrôme, 1799, p. 73; <i>id.</i> Système, 1801, p. 82; <i>id.</i> Histoire, 1822, vii. p. 121; Adams, Genera, 1853, i. p. 78; Stoliczka, Pal. Indica, ii. p. 117.) <i>Prosobr.-Muricidæ.</i>			
<i>F. gracillimus</i> , <i>Tenison-Woods</i> .	Table Cape Series.	*Proc. R. Soc. Tas. for 1875, p. 22.	Table Cape, <i>Tas.</i>
<i>F. Johnstonii</i> , <i>Tenison-Woods</i> .	Table Cape Series.	*Notes, Tertiary Foss. Tas. 1876, p. 42.	Table Cape, <i>Tas.</i>
<i>F. Meredithii</i> , <i>Tenison-Woods</i> .	Table Cape Series.	*Proc. R. Soc. Tas. for 1875 (1876), f. 6.	Table Cape, <i>Tas.</i>
<i>F. pagodoides</i> , <i>M'Coy</i> (ms.).	Table Cape Series.	Smyth's Progress Report, 1874, p. 35.	Schnapper Point, <i>Vict.</i>
<i>F. Roblini</i> , <i>Tenison-Woods</i> .	Table Cape Series.	*Proc. R. Soc. Tas. for 1875 (1876), p. 22, f. 7.	Table Cape, <i>Tas.</i>
<i>F. Tateana</i> , <i>Tenison-Woods</i> .	Table Cape Series.	*Notes, Tertiary Foss. Tas. 1876, p. 42.	Table Cape, <i>Tas.</i>
<i>F. transenna</i> , <i>Tenison-Woods</i> .	Table Cape Series.	*Notes, Tertiary Foss. Tas. 1876, p. 42.	Table Cape, <i>Tas.</i>

Genus **Gibbula** (*Leach*), *Risso*, 1826. (Hist. Nat. Europe Mérid. iv. p. 134; Adams, Genera, 1854, i. p. 431; Stoliczka, Pal. Indica, ii. p. 361.)  
*Prosobr.-Turbinidæ.*

<i>G. æquisulcata</i> , <i>Tenison-Woods</i> .	Table Cape Series.	*Notes, Tertiary Foss. Tas. 1876, p. 46.	Table Cape, <i>Tas.</i>
<i>G. Clarkei</i> , <i>Tenison-Woods</i> .	Table Cape Series.	*Notes, Tertiary Foss. Tas. 1876, p. 62.	Table Cape, <i>Tas.</i>
<i>G. crassigranosa</i> , <i>Tenison-Woods</i> .	Table Cape Series.	*Notes, Tertiary Foss. Tas. 1876, p. 46.	Table Cape, <i>Tas.</i>

Genus **Haliotis**, *Linnaeus*, 1758. (Systema, ed. 10, p. 779; Lamarck, Système, 1801, p. 96; Histoire, 1822, vi. pt. 2, p. 212; Adams, Genera, 1854, i. p. 440.)  
*Prosobr.-Haliotidæ.*

<i>H. Flemingtonensis</i> , <i>M'Coy</i> (ms.).	Flemington Series (= L. Pliocene?).	Geol. Survey, Vict. Dec. iii. 1876, p. 25.	Flemington, <i>Vict.</i>
<i>H. Mooraboolensis</i> , <i>M'Coy</i> .	M. Ter. (Miocene?).	*Geol. Survey, Vict. Dec. iii. p. 25, t. 25, f. 3—3 b.	Moorabool River, near Maud, <i>Vict.</i>
<i>H. nævosoides</i> , <i>M'Coy</i> .	Flemington Series (= L. Pliocene?).	*Geol. Survey, Vict. Dec. iii. p. 27, t. 26, f. 1—2 a.	Flemington, <i>Vict.</i>
<i>H. ovinoides</i> , <i>M'Coy</i> .	M. Ter. (Miocene?).	*Geol. Survey, Vict. Dec. iii. p. 24, t. 25, f. 2—2 b.	Moorabool River, near Maud, <i>Vict.</i>

Genus **Infundibulum**, *Montfort*, 1810 (Coneh. Syst. ii. p. 166; Stoliczka, Pal. Indica, ii. p. 316) = *Trochita*, *Schum.* 1817.—*Prosobr.-Calyptreidæ.*

<i>I. calyptreiformis</i> , <i>Deshayes</i> .	Table Cape Series (L. or M. Ter.?).	<i>Trochita</i> , Johnston, Notes, Tertiary Beds, Table Cape, Tas. for 1876, p. 34.	Table Cape, <i>Tas.</i>
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## (Gasteropoda.)

(Tertiary.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
Genus <i>Liotia</i> , <i>J. E. Gray</i> , 1842. (Synop. Contents Brit. Mus. p. 57; Adams, Proc. Zool. Soc. 1850, p. 50; <i>id.</i> Genera, 1854, i. p. 404; Stoliczka, Pal. Indica, ii. p. 350.)— <i>Prosobr.-Liotidæ</i> .			
<i>L. discoidea</i> , <i>Reeve</i> .	Table Cape Series (L. or M. Ter.?).	Adams, Genera, 1854, i. p. 404; Woods, Notes, Tertiary Foss. Tas. for 1876, p. 50.	Table Cape, <i>Tas.</i>
<i>L. lamellosa</i> , <i>Tenison-Woods</i> .	Table Cape Series.	*Notes, Tertiary Foss. Tas. 1876, p. 44.	Table Cape, <i>Tas.</i>
Genus <i>Mangelia</i> ( <i>Leach</i> ), <i>Risso</i> , 1826. (Hist. Nat. Europe Mérid. iv. p. 219; Adams, Genera, 1853, i. p. 99.)— <i>Prosobr.-Pleurotomidæ</i> .			
<i>M. gracililirata</i> , <i>Tenison-Woods</i> .	Table Cape Series.	*Notes, Tertiary Foss. Tas. 1876, p. 54.	Table Cape, <i>Tas.</i>
Genus <i>Margarita</i> , <i>Leach</i> , 1819. [Jour. Phys. LXXXVIII. p. 464; Stoliczka, Pal. Indica, ii. p. 368; Adams, Genera, 1854, i. p. 433 (non Leach, 1814).]— <i>Prosobr.-Turbinidæ</i> .			
<i>M. Kekwickii</i> , <i>Tenison-Woods</i> .	Table Cape Series.	*Notes, Tertiary Foss. Tas. 1876, p. 45.	Table Cape, <i>Tas.</i>
Genus <i>Marginella</i> , <i>Lamarck</i> , 1799. (Prodrome, p. 70; Système, 1801, p. 75; Histoire, 1822, vii. p. 354; Adams, Genera, 1853, i. p. 190.)— <i>Prosobr.-Volutidæ</i> .			
<i>M. octoplicata</i> , <i>Tenison-Woods</i> .	Table Cape Series.	*Notes, Tertiary Foss. Tas. 1876, p. 57.	Table Cape, <i>Tas.</i>
<i>M. strombiformis</i> , <i>Tenison-Woods</i> .	Table Cape Series.	*Notes, Tertiary Foss. Tas. 1876, p. 57.	Table Cape, <i>Tas.</i>
<i>M. Wentworthii</i> , <i>Tenison-Woods</i> .	Table Cape Series.	*Notes, Tertiary Foss. Tas. 1876, p. 57.	Table Cape, <i>Tas.</i>
Genus <i>Mitra</i> , <i>Lamarck</i> , 1799. (Prodrome, p. 70; Système, 1801, p. 74; Histoire, 1822; vii. p. 297; Adams, Genera, 1853, i. p. 168.)— <i>Prosobr.-Volutidæ</i> .			
<i>M. sp. ind. (a)</i> .	Murray River Series, &c.	Sturt, Two Expds. Int. S. Austr. 1832, ii. p. 255, t. 3, f. 23; Woods, Geol. Obs. S. Austr. 1862, p. 78.	Murray R. Cliffs, and Mount Gambier, <i>S. Austr.</i>
<i>M. sp. ind. (b)</i> .	Murray River Series, &c.	Sturt, <i>loc. cit.</i> f. 24.	Murray R. Cliffs, <i>S. Australia</i> .
Genus <i>Murex</i> , <i>Linnaeus</i> , 1758. (Systema, ed. 10, p. 746; Lamarck, 1801; Système, p. 81; <i>id.</i> Histoire, 1822, vii. p. 155; Adams, Genera, 1853, i. p. 70.)— <i>Prosobr.-Muricidæ</i> .			
<i>M. asper</i> , <i>Tenison-Woods</i> .	Mt. Gambier Series (L. or M. Ter.?).	Geol. Obs. S. Austr. 1862, p. 83, fig. (? = <i>M. asper</i> , Brander, Foss. Hantomensia, 1766, p. 35, t. 3, f. 77—79).	Mount Gambier, <i>S. Australia</i> .

## (Gasteropoda.)

## (Tertiary.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
M. Eyeri, <i>Tenison-Woods</i> .	Table Cape Series.	*Notes, Tertiary Foss. Tas. 1876, p. 41.	Table Cape, <i>Tas.</i>
M.? <i>sp. ind.</i>	Murray River Series (L. or M. Ter.?).	Sturt, Two Expeds. Int. S. Austr. 1832, II. p. 255, t. 3, f. 21; Woods, Geol. Obs. S. Austr. 1862, p. 78, fig.	Murray R. Cliffs, and Mount Gambier, <i>S. Austr.</i>

Genus *Natica*, *Adanson*, 1757 (see p. 114).—*Prosobr.-Naticidæ*.

N. ovata, <i>Hutton</i> .	Table Cape Series (L. or M. Ter.?).	*Cat. Tert. Moll. N. Zealand, 1873, p. 9; Woods, Proc. R. Soc. Tas. for 1875 (1876), p. 17.	Table Cape, <i>Tas.</i>
N. polita, <i>Tenison-Woods</i> .	Table Cape Series.	*Proc. R. Soc. Tas. for 1875 (1876), p. 23.	Table Cape, <i>Tas.</i>
N. vixumblicata, <i>Tenison-Woods</i> .	Table Cape Series.	*Notes, Tertiary Foss. Tas. 1876, p. 59.	Table Cape, <i>Tas.</i>
N. Wintlei, <i>Tenison-Woods</i> .	Table Cape Series.	*Proc. R. Soc. Tas. for 1875 (1876), p. 23.	Table Cape, <i>Tas.</i>
N. <i>sp. ind. (a)</i> .	Murray River Series.	Sturt, Two Expds. Int. S. Austr. 1832, II. p. 255, t. 3, f. 17.	Murray R. Cliffs, <i>S. Australia</i> .
N. <i>sp. ind. (b)</i> .	Murray River Series.	Sturt, Two Expds. Int. S. Austr. 1832, II. p. 255, t. 3, f. 18.	Murray R. Cliffs, <i>S. Australia</i> .

Genus *Pleurotoma*, *Lamarck*, 1799. (Prodrome, p. 73; Système, 1801, p. 84; Histoire, 1822, VII. p. 90; Stoliczka, Pal. Indica, II. p. 67.)*Prosobr.-Pleurotomidæ*.

P. Johnstonii, <i>Tenison-Woods</i> .	Table Cape Series.	*Notes, Tertiary Foss. Tas. 1876, p. 53.	Table Cape, <i>Tas.</i>
P. paracantha, <i>Tenison-Woods</i> .	Table Cape Series.	*Notes, Tertiary Foss. Tas. 1876, p. 53.	Table Cape, <i>Tas.</i>
P. pullulascens, <i>Tenison-Woods</i> .	Table Cape Series.	*Notes, Tertiary Foss. Tas. 1876, p. 52.	Table Cape, <i>Tas.</i>
P. sandleroides, <i>Tenison-Woods</i> .	Table Cape Series.	<i>Pleurot. (? Mangelia)</i> , *Notes Tertiary Foss. Tas. 1876, p. 52.	Table Cape, <i>Tas.</i>

Genus *Pleurotomaria*, *DeFrance*, 1824 (see p. 85).

P. Australis, <i>M' Coy (ms.)</i> .	Schnapper Pt. Series = Oligocene (L. Ter.).	Annals Nat. Hist. 1867, xx. p. 194; Smyth's Progress Report, 1874, p. 35.	Schnapper Point, <i>Vict.</i>
P. Tertiaria, <i>M' Coy</i> .		*Annals Nat. Hist. 1875, xvi. p. 101; *Geol. Survey, <i>Vict.</i> Dec. III. 1876, p. 23, t. 25, f. 1—1 b.	Moorabool R. <i>Vict.</i>

Genus *Pyramidella*, *Lamarck*, 1799 (Prodrome, p. 76; Stoliczka, Pal. Ind. II. p. 172; Adams, Genera, 1853, I. p. 228) = *Pyramidellus*, *Montfort*.*Prosobr.-Pyramidellidæ*.

P. Roberti, <i>Tenison-Woods</i> .	Table Cape Series (L. or M. Ter.?).	*Notes, Tertiary Foss. Tas. 1876, p. 62.	Table Cape, <i>Tas.</i>
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## (Gasteropoda.)

## (Tertiary.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
Genus <b>Pyrula</b> , <i>Lamarck</i> , 1799. (Prodrome, p. 73; Système, 1801, p. 82.)— <i>Prosobr.</i>			
<i>P.?</i> <i>sp. ind.</i>	Murray River Series (L. or M. Ter.?).	? <i>Cypræa</i> , Sturt, Two Expds. Int. S. Austr. 1832, II. p. 255, t. 3, f. 25; <i>Pyrula</i> , Woods, Geol. Obs. S. Austr. 1862, p. 78, fig.	Murray R. Cliffs, S. Australia.
Genus <b>Rissoa</b> , <i>Fréminville</i> , 1814. (Bull. Soc. Philomatique, IV.; Adams, Genera, 1854, I. p. 329; Stoliczka, Pal. Indica, II. p. 277.)— <i>Prosobr.-Rissoïdæ.</i>			
<i>R. Stevensiana</i> , <i>Tenison-Woods</i> .	Table Cape Series.	*Notes, Tertiary Foss. Tas. 1876, p. 48.	Table Cape, Tas.
Genus <b>Rissoina</b> , <i>d'Orbigny</i> , 1840 (see p. 114.)— <i>Prosobr.-Rissoïdæ.</i>			
<i>R. Johnstoni</i> , <i>Tenison-Woods</i> .	Table Cape Series.	*Notes, Tertiary Foss. Tas. 1876, p. 49.	Table Cape, Tas.
<i>R. Tateana</i> , <i>Tenison-Woods</i> .	Table Cape Series.	*Notes, Tertiary Foss. Tas. 1876, p. 62.	Table Cape, Tas.
<i>R. varicifera</i> , <i>Tenison-Woods</i> .	Table Cape Series.	*Notes, Tertiary Foss. Tas. 1876, p. 49.	Table Cape, Tas.
Genus <b>Syrnola</b> , <i>A. Adams</i> , 1860. (Annals Nat. Hist. v. p. 405; Proc. Zool. Soc. 1862, p. 233; Stoliczka, Pal. Indica, II. p. 173.)— <i>Prosobr.-Pyramidellidæ.</i>			
<i>S. bifasciata</i> , <i>Tenison-Woods</i> .	Table Cape Series.	*Proc. R. Soc. Tas. for 1875 (1876)!, Notes, Tertiary Foss. Tas. 1876, p. 47.	Table Cape, Tas.
Genus <b>Tenagodus</b> , <i>Guetlard</i> , 1774 (or 1770? Mem. Sci. et Arts, III. p. 128; Mörch, Proc. Zool. Soc. 1860, pp. 400 and 402; Adams, Genera, 1854, I. p. 360). <i>Prosobr.-Vermetidæ.</i>			
<i>T. oclusus</i> , <i>Tenison-Woods</i> .	Table Cape Series.	*Notes, Tertiary Foss. Tas. 1876, p. 48.	Table Cape, Tas.
Genus <b>Terebra</b> , <i>Adanson</i> , 1757. (Hist. Nat. Sénégal, 1er. pt. p. 49; Lamarck, Prodrome, 1799, p. 71; Adams, Genera, I. 1853, p. 226.) <i>Prosobr.-Terebridæ.</i>			
<i>T. additoides</i> , <i>Tenison-Woods</i> .	Table Cape Series.	*Notes, Tertiary Foss. Tas. 1876, p. 43.	Table Cape, Tas.
<i>T. simplex</i> , <i>Tenison-Woods</i> .	Table Cape Series.	*Proc. R. Soc. Tas. for 1875 (1876), p. 21.	Table Cape, Tas.
Genus <b>Thala</b> , <i>H. and A. Adams</i> , 1853. (Genera of Shells, I. p. 178.) <i>Prosobr.-Mitridæ.</i>			
<i>T. marginata</i> , <i>Tenison-Woods</i> .	Table Cape Series.	*Notes, Tertiary Foss. Tas. 1876, p. 56.	Table Cape, Tas.

## (Gasteropoda.)

## (Tertiary.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
Genus <b>Thalotia</b> , <i>J. E. Gray</i> , 1840. (Synop. Contents Brit. Mus. !; Adams, Genera, 1854, i. p. 420.)— <i>Prosobr.-Turbinidæ</i> .			
T. alternata, <i>Tenison-Woods</i> .	Table Cape Series.	*Notes, Tertiary Foss. Tas. 1876, p. 45.	Table Cape, <i>Tas.</i>
Genus <b>Torinia</b> , <i>J. E. Gray</i> , 1840. (Synop. Contents Brit. Mus. !; Adams, Genera, 1854, i. p. 242; Stoliczka, Pal. Indica, ii. p. 249.)— <i>Prosobr.-Solaridæ</i> .			
T. gibbuloides, <i>Tenison-Woods</i> .	Table Cape Series.	*Notes, Tertiary Foss. Tas. 1876, p. 45.	Table Cape, <i>Tas.</i>
Genus <b>Triton</b> , <i>Montfort</i> , 1810. (Conch. Syst. ii. p. 587.) Vide <i>Tritonium</i> , <i>Link</i> .			
T. Abboti, <i>Tenison-Woods</i> .		Vide <i>Tritonium</i> .	
T. minimum, <i>Tenison-Woods</i> .		Vide <i>Tritonium</i> .	
Genus <b>Tritonium</b> , <i>Link</i> , 1807 (Adams, Genera, 1853, i. p. 101) = <i>Triton</i> , <i>Montfort</i> . <i>Prosobr.-Tritoniidæ</i> .			
T. Abboti, <i>Tenison-Woods</i> .	Table Cape Series.	<i>Triton</i> . *Proc. R. Soc. Tas. for 1875 (1876), p. 24, f. 8.	Table Cape, <i>Tas.</i>
T. minimum, <i>Tenison-Woods</i> .	Table Cape Series.	<i>Triton</i> . *Notes, Tertiary Foss. Tas. 1876, p. 55.	Table Cape, <i>Tas.</i>
Genus <b>Trivia</b> , <i>Gray</i> , 1832. (Descrip. Cat. Shells, Cowries, p. 13; Adams, Genera, 1854, i. p. 268.)— <i>Prosobr.-Cypræidæ</i> .			
T. avellanoides, <i>M'Goy</i> .	Schnapper Pt. Series = Oligocene (L. Ter.). Hamilton Series (L. or M. Ter.?).	Exhib. Essay, 1861, p. 169; <i>Annals Nat. Hist.</i> 1862, ix. p. 146; <i>ibid.</i> 1867, xx. p. 194; <i>Cypræa</i> , <i>ibid.</i> id. p. 436; <i>Trivia</i> , <i>Smyth's Progress Report</i> , 1874, p. 35; <i>Cypræa</i> , <i>Geol. Survey, Vict.</i> Dec. iii. 1876, p. 36, t. 28, f. 3 a—c.	Schnapper Point, and Muddy Ck. <i>Vict.</i>
T. Europea, <i>Montagu</i> .	Table Cape Series (L. or M. Ter.?).	*Test. Brit. 1808, p. 88; <i>Cypræa coccinella</i> , <i>Lamarek</i> , * <i>Ann. Museum</i> , 1810, xvi. p. 104; <i>C. Europea</i> , <i>Gray</i> , <i>Zool. Jour.</i> 1827, iii. p. 366; <i>C. coccinella</i> , <i>Nyst</i> , * <i>Descrip. Coq. Foss. Terr. Tert. Belgique</i> , 1843, p. 609; <i>C. Europea</i> , <i>Searles Wood</i> , * <i>Mon. Crag. Moll.</i> 1848, pt. 1, p. 17, t. 2, f. 6; <i>ibid.</i> <i>Hörnes</i> , * <i>Foss. Moll. Tert.-Beckens Wien</i> , 1856, 1 Bd. p. 73, t. 8, f. 15; <i>ibid.</i> <i>Fleming</i> , * <i>Brit. Animals</i> , 1828, p. 330; <i>ibid.</i> <i>Forbes</i>	Table Cape, <i>Tas.</i>



(Gasteropoda.)

(Tertiary.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
		and Hanley, *Hist. Brit. Moll. 1853, III. p. 495, t. 114 a, f. 6—9, t. N. N. f. 5—7; <i>ibid.</i> Gwyn-Jeffreys, *Brit. Con. 1867, IV. p. 403; <i>Trivia</i> , H. and A. Adams, Genera, 1854, I. p. 268; <i>ibid.</i> Woods, Notes, Tert. Foss. Tas. 1876, p. 57.	

Genus **Trochita**, Schumacher, 1817. (Essai Nouv. Syst. Hab. Vers. Test. 1817, p. 184.) Vide *Infundibulum*, Montfort.—*Prosobr.-Calyptreidæ*.

<i>T. calyptraformis</i> , Deshayes.		Vide <i>Infundib. calyptraformis</i> .	
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Genus **Trochus**, Linnæus, 1758 (see p. 87).—*Prosobr.-Turbinidæ*.

<i>T. Josephi</i> , Tenison-Woods.	Table Cape Series.	*Notes, Tertiary Foss. Tas. 1876, p. 45.	Table Cape, Tas.
<i>T. ? sp. ind.</i>	Murray River Series, &c. (L. or M. Ter.?).	Sturt, Two Expds. Int. S. Austr. 1832, II. p. 255, t. 3, f. 19; Woods, Geol. Obs. S. Austr. 1862, p. 77, fig.	Murray R. Cliffs, and Mount Gambier, S. Austr.

Genus **Turbo**, Linnæus, 1758 (see p. 87).—*Prosobr.-Turbinidæ*.

<i>T. Etheridgei</i> , Tenison-Woods.	Table Cape Series.	*Notes, Tertiary Foss. Tas. 1876, p. 46.	Table Cape, Tas.
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Genus **Turbonilla** (Leach), Risso, 1826 (Hist. Nat. Europe Merid. IV. p. 224; Stoliczka, Pal. Indica, II. p. 174; Meek, Cret. Invert. Foss. Up. Missouri, 1876, p. 337) = *Chemnitzia*, d'Orb. 1839.—*Prosobr.-Pyramidellidæ*.

<i>T. liracostata</i> , Tenison-Woods.	Table Cape Series.	*Notes, Tertiary Foss. Tas. 1876, p. 49.	Table Cape, Tas.
<i>T. pagoda</i> , Tenison-Woods.	Table Cape Series.	*Notes, Tertiary Foss. Tas. 1876, p. 49.	Table Cape, Tas.

Genus **Turritella**, Lamarck, 1799 (see p. 88).—*Prosobr.-Turritellidæ*.

<i>T. Sturtii</i> , Tenison-Woods.	Table Cape Series.	*Notes, Tertiary Foss. Tas. 1876, p. 47.	Table Cape, Tas.
<i>T. Tasmania</i> , Tenison-Woods.	Table Cape Series.	*Proc. R. Soc. Tas. for 1875 (1876), p. 17.	Table Cape, Tas.
<i>T. Warburtonii</i> , Tenison-Woods.	Table Cape Series.	*Notes, Tertiary Foss. Tas. 1876, p. 47.	Table Cape, Tas.
<i>T. sp. ind. (a)</i> .	Murray River Series, &c. (L. or M. Ter.?).	Sturt, Two Expds. Int. S. Austr. 1832, II. p. 255, t. 3, f. 20; <i>T. terebralis</i> , Woods, Geol. Obs. S. Austr. 1862, p. 83, fig.	Murray R. Cliffs, and Mount Gambier, S. Austr.
<i>T. sp. ind. (b)</i> .	"Turritella limestone."	Johnston, Notes, Tertiary Beds, Table Cape, Tas. 1876, p. 36.	Flinders' Island, Bass' Straits.

## (Gasteropoda.)

## (Tertiary.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
Genus <i>Typhis</i> , <i>Montfort</i> , 1810. (Conch. Syst. II. p. 615; Adams, Genera, 1853, I. p. 76; Stoliczka, Pal. Indica, II. p. 128.)— <i>Prosobr.-Muricidæ</i> .			
T. M <sup>c</sup> Coyi, <i>Tenison-Woods</i> .	Table Cape Series.	*Proc. R. Soc. Tas. for 1875 (1876), p. 22.	Table Cape, <i>Tas.</i>
Genus <i>Vermetus</i> , <i>Adanson</i> , 1757. (Hist. Nat. Sénégal, p. 160; Mörch. Proc. Zool. Soc. 1861, p. 334; Lamarck, Histoire, 1822, VII. p. 224; Adams, Genera, 1854, I. p. 357; Stoliczka, Pal. Indica, II. p. 239.)— <i>Prosobr.-Vermetidæ</i> .			
V. conohelix, <i>Tenison-Woods</i> .	Table Cape Series.	*Notes, Tertiary Foss. Tas. 1876, p. 48.	Table Cape, <i>Tas.</i>
Genus <i>Voluta</i> , pars, <i>Linnaeus</i> , 1758. (Systema, ed. 10, p. 729; Lamarck, Prodrôme, 1799, p. 70; Adams, Genera, 1853, I. p. 164.)— <i>Prosobr.-Volutidæ</i> .			
V. anticingulata, <i>M<sup>c</sup>Coy</i> .	Schnapper Pt. Series = Oligocene (L. Ter.), &c.	*Annals Nat. Hist. 1866, XVIII. p. 379; <i>ibid.</i> 1867, XX. p. 193; Smyth's Progress Report, 1874, p. 35; *Geol. Survey, Vict. Dec. I. 1874, p. 24, t. 6, f. 2—4; Johnston, Notes, Tertiary Beds, Table Cape, Tas. 1876, p. 33.	Schnapper Point, and Bird Rock, near Geelong, <i>Vict.</i> Table Cape, <i>Tas.</i>
V. antiscalaris, <i>M<sup>c</sup>Coy</i> .	Schnapper Pt. Series = Oligocene (L. Ter.), &c.	*Annals Nat. Hist. 1866, XVIII. p. 378; <i>ibid.</i> 1867, XX. p. 194; Smyth's Progress Report, 1874, p. 35; *Geol. Survey, Vict. Dec. I. 1874, p. 26, t. 6, f. 5; Woods, Proc. R. Soc. Tas. for 1875 (1876), p. 16.	Mount Martha; Moolap; Fyan's Ford, <i>Vict.</i> Table Cape, <i>Tas.</i>
V. Hannafordi, <i>M<sup>c</sup>Coy</i> .	Schnapper Pt. Series = Oligocene (L. Ter.), &c.	*Annals Nat. Hist. 1866, XVIII. p. 375; <i>ibid.</i> 1867, XX. p. 194; Smyth's Progress Report, 1874, p. 35; *Geol. Survey, Vict. Dec. I. 1874, p. 23, t. 6, f. 1; *Dec. IV. 1876, p. 25, t. 37, f. 1; Woods, Proc. R. Soc. Tas. for 1875 (1876), p. 16.	Mounts Martha and Eliza; Fyan's Ford; Muddy Ck.; Port Fairy, <i>Vict.</i>
V. M <sup>c</sup> Coyi, <i>Tenison-Woods</i> .	Table Cape Series.	*Notes, Tertiary Foss. Tas. 1876, p. 43.	Table Cape, <i>Tas.</i>
V. macroptera, <i>M<sup>c</sup>Coy</i> .	M. Ter. (Miocene?). Table Cape Series (L. or M. Ter.?).	*Annals Nat. Hist. 1866, XVIII. p. 375; <i>ibid.</i> 1867, XX. p. 194; Smyth's Progress Report, 1874, p. 35; *Geol. Survey, Vict. Dec. I. 1874, p. 29, t. 7, figs. 1—4; Woods, Proc. R. Soc. Tas. for 1875 (1876), p. 16.	Bird Rock, near Geelong, <i>Vict.</i> Table Cape, <i>Tas.</i>
V. strophodon, <i>M<sup>c</sup>Coy</i> .	Schnapper Pt. Series = Oligocene (L. Ter.).	Smyth's Progress Report, 1874, p. 35; *Geol. Survey, Vict. Dec. IV. 1876, p. 25, t. 37, f. 2—4 c.	Schnapper Point, <i>Vict.</i>
V. Weldii, <i>Tenison-Woods</i> .	Table Cape Series.	*Proc. R. Soc. Tas. for 1875 (1876), p. 24, f. 2.	Table Cape, <i>Tas.</i>

## (Cephalopoda—Pisces.)

## (Tertiary.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
Genus <i>Ziziphinus</i> ( <i>Leach</i> , ms. 1819). <i>Gray</i> , 1840. (Fig. <i>Moll. Animals</i> , iv. p. 145; <i>Stoliczka</i> , <i>Pal. Indica</i> , ii. p. 365; <i>Adams</i> , <i>Genera</i> , 1854, i. p. 421.) <i>Prosobr.-Turbinida</i> .			
<i>Z. Blaxlandii</i> , <i>Tenison-Woods</i> .	Table Cape Series.	*Notes, Tertiary Foss. Tas. 1876, p. 44.	Table Cape, <i>Tas</i> .

## Class—Cephalopoda. Orders—Di- and Tetrabranchiata.

Genus *Aturia*, *Bronn*, 1838 (*Lethæa*, *Geog.* ii. p. 1122; *F. E. Edwards*, *Mon. Eocene Moll.* pt. 1, 1849, *Ceph.* p. 51) = *Megasiphonia*, *d'Orb.*—*Nautilida*.

<i>A. Australis</i> , <i>M'Coy</i> .		Vide <i>A. ziczac</i> , <i>J. Sow</i> .	
<i>A. ziczac</i> , <i>J. Sowerby</i> .	Mt. Gambier Series (L. or M. Ter.?). M. Ter. (Miocene?).	<i>Nautilus</i> , * <i>Min. Con.</i> i. p. 12, t. 1, lower fig.; <i>Aturia</i> , <i>Edwards</i> , * <i>Mon. Eocene Moll.</i> pt. 1, <i>Ceph.</i> 1849, p. 52, t. 9, f. 1; <i>Nautilus</i> , <i>Tenison-Woods</i> , <i>Geol. Obs.</i> S. Austr. 1862, p. 83, fig.; <i>A. Australis</i> , <i>M'Coy</i> , <i>Annals Nat. Hist.</i> 1867, xx. p. 192; <i>id.</i> <i>Smyth's Progress Report</i> , i. 1874, p. 36; <i>A. ziczac</i> , var. <i>Australis</i> , <i>M'Coy</i> , * <i>Geol. Survey</i> , <i>Vict.</i> Dec. III. 1876, p. 21, t. 24, f. 1—5.	Mount Gambier, <i>S. Australia</i> . Bird Rock Point; Point Addis; Flemington; Mordialloc, &c. <i>Vict.</i>

Genus *Belemnites* (*Agricola*).—*Belemnitida*.

<i>B. senescens</i> , <i>Tate</i> .	M. Ter. (Miocene?).	* <i>Quart. Jour. Geol. Soc.</i> 1877, xxxiii. p. 257, f. 1.	Aldinga, <i>S. Austr.</i>
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Genus *Nautilus*, *Breynius*, 1732 (see p. 90).—*Nautilida*.

<i>N. ziczac</i> , <i>J. Sowerby</i> .		Vide <i>Aturia</i> .	
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## Sub-kingdom—Vertebrata. Class—Pisces.

## Order—Elasmobranchii or Placoidei.

Genus *Carcharodon* (*A. Smith*), *L. Agassiz*, 1843. (*Pois. Foss.* iii. p. 245; *Henle and Corda*, *Systemat. Beschreibung Plagios.* 1841, p. 70; *Gunther*, *Cat. Fishes*, *Brit. Mus.* 1876, vii. p. 391.)—*Selachii*.

<i>C. angustidens</i> , <i>Agassiz</i> .	M. Ter. (Miocene?). Table Cape Series (L. or M. Ter.?).	* <i>Poiss. Foss.</i> iii. p. 225, t. 28, figs. 20—25, t. 30, f. 3; <i>M'Coy</i> , <i>Annals Nat. Hist.</i> 1865, xvi. p. 113; <i>ibid. id.</i> 1867, xx. p. 192; <i>ibid.</i> <i>Smyth's Progress Report</i> , i. 1874, p. 35; <i>ibid.</i> * <i>Geol. Survey</i> , <i>Vict.</i> 1875, Dec. ii. p. 8, t. 11, figs. 2 and 3; <i>Johnston</i> , <i>Notes, Tertiary Beds</i> , Table Cape, <i>Tas.</i> 1876, p. 34.	Bird Rock, near Geelong, <i>Vict.</i> Table Cape, <i>Tas.</i>
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## (Pisces—Mammalia.)

## (Tertiary.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
<i>C. megalodon</i> , <i>Agassiz</i> .	M. Ter. (Miocene?).	*Poiss. Foss. III. p. 247, t. 29; M'Coy, Annals Nat. Hist. 1865, xvi. p. 113; <i>ibid. id.</i> 1867, xx. p. 192; <i>ibid.</i> Smyth's Progress Report, I. 1874, p. 35; <i>ibid.</i> *Geol. Survey, Vict. 1875, Dec. II. p. 9, t. 11, f. 4.	Bird Rock, near Geelong, Vict.

Genus *Lamna*, Cuvier, 1817. (Règne Animal, II. p. 126; Agassiz, Poiss. Foss. 1843, III. p. 287.)—*Selachii*.

<i>L. contortidens</i> , <i>Agassiz</i> .		*Poiss. Foss. III. p. 294, t. 37 a, figs. 17—32; M'Coy, Annals Nat. Hist. 1867, xx. p. 192; <i>ibid.</i> Smyth's Progress Report, I. 1874, p. 35.	Victoria.
<i>L. denticulata</i> , <i>Agassiz</i> .		*Poiss. Foss. III. p. 291, t. 37 a, figs. 51—53; M'Coy, Annals Nat. Hist. 1867, xx. p. 192; <i>ibid.</i> Smyth's Progress Report, I. 1874, p. 35.	Victoria.
<i>L. elegans</i> , <i>Agassiz</i> .	Table Cape Series.	*Poiss. Foss. III. p. 289, t. 35, figs. 1—7, t. 37 a, figs. 58 and 59; M'Coy, Annals Nat. Hist. 1867, xx. p. 192; <i>ibid.</i> Smyth's Progress Report, I. 1874, p. 35; Johnston, Notes, Tertiary Beds, Table Cape, Tas. 1876, p. 34.	Table Cape, Tas. Victoria.

Genus *Otodus*, *Agassiz*, 1843. (Poiss. Foss. III. p. 266.)—*Selachii*.

<i>O. Desori</i> , <i>Agassiz</i> .		M'Coy, Annals Nat. Hist. 1867, xx. p. 192; <i>ibid.</i> Smyth's Progress Report, I. 1874, p. 35.	Victoria.
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Genus *Oxyrhina*, *Agassiz*, 1843. (Poiss. Foss. III. p. 276.)—*Selachii*.

<i>O. trigonodon</i> , <i>Agassiz</i> .		*Poiss. Foss. III. p. 279, t. 37, figs. 17 and 18; M'Coy, Annals Nat. Hist. 1867, xx. p. 192; <i>ibid.</i> Smyth's Progress Report, I. 1874, p. 35.	Victoria.
<i>O. Woodsii</i> , <i>M'Coy</i> .	Mt. Gambier Series (M. or L. Ter.?).	Woods, Geol. Obs. S. Austr. 1862, p. 80, fig.	Mount Gambier, S. Australia.

Class—Mammalia. Section—Implacentalia. Order—Marsupialia.

Genus *Bettongia*, Gray, 1837. (Annals Nat. Hist. I. p. 584.)—*Papthaga-Macropodidae*.

<i>B. cuniculoides</i> , <i>M'Coy</i> .		Geol. Survey, Vict. Section $\frac{1}{2}$ sheet, 14 N. W. note 12.	Loddon River, near Dunolly, Vict.
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(Mammalia.)

(Tertiary.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
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Genus **Nototherium**, Owen, 1845. (Brit. Ass. Rept. for 1844, p. 231.)  
*Carpophaga-Phalangistidae.*

N. sp. ind.	U. Ter. (Miocene?).	M'Coy, in Smyth's Progress Report, i. 1874, p. 35.	
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Genus **Phascolomys**, Geoffroy, 1803. (Ann. Museum, ii. p. 365.)  
*Rhizophaga-Phascolomydæ.*

P. Pliocenus, M'Coy.	Gold Drift (Pliocene?).	Ex. Essay, 1861, p. 168; Annals Nat. Hist. 1862, ix. p. 145; <i>ibid.</i> 1867, xx. p. 190; Smyth, Geol. Mag. 1872, ix. p. 336; M'Coy in Smyth's Progress Report, i. 1874, p. 36; <i>id.</i> *Geol. Survey, Vict. Dec. i. 1874, p. 21, t. 3, 4 and 5; <i>id.</i> Couchman's Progress Report, 1877, iv. p. 156.	Dunolly; Loddon Riv. nr. Dunolly; Bet-Bet Creek, Vict.
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Genus **Sarcophilus**, F. Cuvier, 1838. (Hist. Nat. Mammif. vii. 70me Livre, p. 2.)  
*Sarcophaga.*

S. ursinus, Harris.	Gold Drift (Pliocene?).	<i>Didelphis</i> , *Trans. Linn. Soc. ix. p. 176, t. 19, f. 2; <i>Sarcophilus</i> , M'Coy, Geol. Survey, Vict. Section $\frac{1}{2}$ sheet, 14 N.W. note 12; <i>id.</i> Annals Nat. Hist. 1867, xx. p. 191.	Loddon River, near Dunolly, Vict.
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## Section—Placentalia. Order—Cetacea.

Genus **Squalodon**, Grateloup, 1840 (Actes Soc. Linn. Bordeaux, no. 56, p. 346)  
? = *Phocodon*, Ag.—*Zeuglodontidae.*

S. Wilkinsoni, M'Coy.	M. Ter. (Miocene?).	*Geol. Mag. 1864, rv. p. 145, t. 8, f. 1; <i>Seals Tooth</i> , Wilkinson, Geol. Rept. C. Otway, Dist. 1865, p. 23; <i>Phocodon</i> , M'Coy, Annals Nat. Hist. 1867, xx. p. 191; <i>ibid.</i> <i>id.</i> Smyth's Progress Report, 1874, p. 36; <i>Squalodon</i> , <i>ibid.</i> *Geol. Survey, Vict. 1875, Dec. ii. p. 7, t. 11, f. 1; <i>id.</i> v. Beneden and P. Gervois, Ostéogr. Cétacés viv. et foss. liv. xiii. p. 442.	W. of Aire River, near Cape Otway, Vict.
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## Order—Carnivora.

Genus **Arctocephalus**, F. Cuvier, 1824. (Mém. du Mus. d'Hist. Nat. xi. p. 205; Dict. Sci. Nat. 1826, xxxix. p. 553; J. E. Gray, Cat. Seals and Whales, Brit. Mus. 2nd ed. 1866, p. 47; Supp. Cat. *ibid.* 1871, p. 17; Hand List, *ibid.* 1874, p. 32.)—*Phocidæ.*

A. Williamsi, M'Coy.	U. Ter. (Pliocene?).	*Geol. Survey Vict. Dec. v. 1877, p. 7, t. 41 and 42.	Queenscliff; Cape Otway, Vict.
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POST TERTIARY.





## (Brachiopoda—Gasteropoda.)

## (Post Tertiary.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
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*Sub-kingdom*—Mollusca. *Section*—Molluscoïda. *Class*—Brachiopoda.

Genus *Terebratella*, *d'Orbigny*, 1847 (see p. 151).—*Clistenterata-Terebratulidæ*.

<i>T. compta</i> , <i>G. B. Sowerby</i> .	Raised beach.	<i>Terebratula</i> , Strzelecki's *Phys. Deser. N. S. Wales, p. 297, t. 19, f. 4 (see <i>ante</i> , p. 151, for <i>synonymy</i> ).	Port Fairy.
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*Section*—Mollusca proper. *Class*—Pelecypoda (Conchifera).

Genus *Venus*, *Linnaeus*, 1758 (see p. 79).—*Veneracea-Veneridæ*.

<i>V. exalbata</i> , <i>Woods</i> .	P. T. Lime-stone.	Geol. Obs. S. Austr. 1862, p. 190 (? = <i>V. exalbata</i> , Chemnitz. Neues System Conchylum, Cab. xi. 1795, p. 225, t. 20, f. 1974).	Coorong, <i>S. Austr.</i>
<i>V. strigosa</i> , <i>Woods</i> .	Quaternary Deposits.	Trans. R. Soc. Vict. 1868, viii. p. 46 (? = <i>V. strigosa</i> , Lamarek, Hist. Nat. des Anim. s. Vertéb. v. 1818, p. 605).	Guichen Bay, <i>Vict.</i>

*Class*—Gasteropoda.

Genus *Bulimus*, *Scopoli*, 1777. (Introd. Hist. Nat. p. 392; Lamarek, Système, 1801, p. 90; Histoire, 1822, vi. pt. 2, p. 116; Adams, Genera, 1855, ii. p. 146.)  
*Pulmonifera-Helicidæ*.

<i>B. Gunnii</i> , <i>G. B. Sowerby</i> .	Yellow Lime-stone of Hobart Town.	Strzelecki's *Phys. Deser. N. S. Wales, 1845, p. 298, t. 19, f. 5.	Hobart Town, <i>Tas.</i>
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Genus *Bulla*, *Klein*, 1753 (see p. 159).—*Opisthobranchiata-Bullidæ*.

<i>B. Australis</i> , <i>Quoy</i> .	Quaternary Deposits.	Woods, Trans. R. Soc. Vict. viii. p. 46; Quoy, Voy. de l'Astrolabe, Zoologie, ii. p. 357, Atlas, t. 26, f. 38, 39; Deshayes and M. Edwards, Lamarek's Histoire Nat. Anim. s. Vertéb. 1836, viii. p. 673.	Perth, <i>W. Austr.</i>
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Genus *Cerithium*, *Adanson*, 1757 (see p. 114).—*Prosobranchiata-Cerithiadæ*.

<i>C. sp. ind.</i>	P. T. Lime-stone.	Woods, *Geol. Obs. S. Austr. 1862, p. 190 fig.	Coorong, <i>S. Austr.</i>
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## (Gasteropoda—Reptilia.)

(Post Tertiary.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
Genus <i>Cypræa</i> , <i>Linnaeus</i> , 1758 (see p. 161).— <i>Prosobranchiata-Cypræidæ</i> .			
<i>C. eximia</i> , <i>G. B. Sowerby</i> .	Blown Sand (?).	Strzelecki's *Phys. Deser. N. S. Wales and V. D. Land, 1845, p. 296, t. 19, figs. 1—3 (see <i>ante</i> , p. 161, for synonymy).	Franklin's Village, <i>Tas.</i>
Genus <i>Fusus</i> , <i>Klein</i> , 1758 (see p. 164).			
<i>F. colosseus</i> , <i>Tenison-Woods</i> .	Quaternary Deposits.	Trans. R. Soc. Vict. 1868, viii. p. 45 (? = <i>F. colosseus</i> , Lamarek, Histoire Anim. s. Vertéb. 1822, vii. p. 122).	Perth, <i>W. Austr.</i>
Genus <i>Helix</i> , <i>Linnaeus</i> , 1758. (Systema, ed. 10, p. 768; Adams, Genera, 1855, ii. p. 188.) <i>Pulmon.-Helicidæ</i> .			
<i>H. Tasmaniensis</i> , <i>G. B. Sowerby</i> .	Yellow Limestone of Hobart Town.	Strzelecki's *Phys. Deser. N. S. Wales, 1845, p. 298, t. 19, f. 6.	Hobart Town, <i>Tas.</i>
Genus <i>Truncatella</i> , <i>Risso</i> , 1826. (Europe Mérid. iv. p. 124; Adams, Genera, 1856, ii. p. 310; Pfeiffer, Brit. Mus. Cat. 1857, p. 129).— <i>Pulmon.-Truncatellidæ</i> .			
<i>T. flosa</i> , <i>?M' Coy</i> (ms.).	P. Ter. fresh-water Limestone.	In Taylor's $\frac{1}{2}$ sheet 2, S. W. Geol. Survey, Vict. <i>note</i> .	Moonee Ponds Ck. <i>Vict.</i>

## Sub-kingdom—Vertebrata. Class—Reptilia.

Genus *Chlamydosaurus*, *J. E. Gray*, 1827. (King's Survey, Coasts of Australia, ii. p. 424; Dumbriil et Bibron, Erpét. Générale, 1837, iv. p. 440; Gray, Brit. Mus. Cat. Lizards, 1845, p. 248.)—*Lacertilia-Agamidæ*.

<i>C. Bennettii</i> , <i>Owen</i> (ms.).	Quaternary Deposits.	G. Bennett, Proc. R. Soc. Tas. for 1875 (1876) p. 57.	Gowree Station, Darling Downs. <i>Qu.</i>
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Genus *Megalania*, *Owen*, 1858. (Proc. R. Soc. ix. p. 273; Phil. Trans. 1860, cxliv.)  
*Lacertilia*.

<i>M. prisca</i> , <i>Owen</i> .	Quaternary Deposits.	Proc. R. Soc. ix. p. 273; Phil. Trans. 1860, cxliv. p. 43, t. 7, f. 1—4, t. 8, f. 1—4; d'Archiac, Faune Quaternaire, 1865, p. 273; Clarke, Remarks Sed. Forms, N. S. Wales, 3rd ed. 1875, p. 52.	Condamine River, Moreton Bay, <i>Qu.</i>
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*Notes*.—Order, CHELONIA. The carapace of a fresh-water form, about 8 in. in length, has been obtained from the bone caves of Wellington Valley, N. S. Wales. (Krefft, *Australian Vert.* p. 39.)

SAURIAN REPTILES. From the same caves have also been obtained bones of the following genera: *Hydrosaurus*, *Cyclodus*, *Trachydosaurus*, *Tropidolepisma*, and *Grammatophora*. (Krefft, *l. c.* p. 49.)

Order, CROCODYLIA. Fossil Crocodile teeth appear to have been first found in Australia by Mr S. Stutchbury. Examples were also found by Mr E. Daintree, in the *Diprotodon*-breccia of Maryvale Creek, N. Q. (*Quart. Jour. Geol. Soc.* xxviii. p. 274.)

(Aves—Marsupialia.)

(Post Tertiary.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
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Class—Aves.

Genus **Dromornis**, Owen, 1872. (Proc. Zool. Soc. p. 682; Trans. *id.* 1873, viii. pt. 4, p. 381.)—*Struthionidæ*.

<p><b>D. Australis</b>, Owen.</p>	<p>Quaternary Deposits (Drift 188 ft. from surface).</p>	<p><i>Femur of Bird</i>, Mitchell's *Three Exped. Int. of E. Australia, 1838, ii. t. 32, f. 12 and 13; <i>Dinornis</i>, <i>sp.</i> Clarke, Geol. Mag. 1869, vi. p. 383; <i>id. ibid.</i> American Jour. Sc. 1870, XLIX. p. 273; <i>Dromornis Australis</i>, Owen, Proc. Zool. Soc. 1872, p. 682; <i>id.</i> *Trans. <i>ibid.</i> 1873, viii. pt. 4, pp. 381—384, t. 62, f. 1 and 2; <i>Dromornis</i>, <i>sp.</i> Clarke, Remarks Sed. Form. N. S. Wales, 1875, 3rd ed. p. 53; <i>id.</i> Smyth's Progress Report, 1876, iii. p. 47; ?<i>Moa</i>, Krefft, Australian Vertebrata, 1871, p. 37.</p>	<p>Peak Downs, Qu.</p>
<p><b>D. sp. ind.</b></p>		<p>Owen, Proc. Zool. Soc. 1877, pt. 1, p. 95.</p>	<p>Canadian Lead, Phillip Co., N. S. Wales. Mt. Gambier Cave, S. Australia.</p>

Class—Mammalia. Section—Implacentalia.

Orders—Monotremata and Marsupialia.

Genus **Belideus**, Waterhouse, 1838. (Pro. Zool. Soc. pt. vi. p. 149; Nat. Hist. Mam. 1846, ii. p. 325.)—*Carpophaga-Phalangistidæ*.

<p><b>B. breviceps</b>, Waterhouse.</p>		<p><i>Petaurus</i>, *Nat. Hist. Mam. 1846, i. p. 334; <i>Belideus</i>, Krefft, Austr. Vert. 1871, p. 18.</p>	<p>N. S. Wales.</p>
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Genus **Bettongia**, J. E. Gray, 1837 (see p. 172).—*Pæphaga-Macropodidæ*.

<p><b>B. rufescens</b>, Gray.</p>	<p>Cave-breccia.</p>	<p>*Annals Nat. Hist. 1837, i. p. 584; Gould, Mon. Macropodidæ, 1841, pt. 1, t. 13; <i>Hypsiprymnus</i>, Waterhouse, *Nat. Hist. Mam. 1846, i. p. 196; <i>Bettongia</i>, Krefft, Austr. Vert. 1871, p. 20.</p>	<p>Caves of Wellington Valley, N. S. Wales.</p>
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(Marsupialia.)

(Post Tertiary.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
Genus <b>Dasyurus</b> , <i>Geoffroy</i> , 1804. (Ann. Museum, III. p. 355; Waterhouse, Nat. Hist. Mam. 1846, I. p. 432.)— <i>Sarcophaga-Dasyuridae</i> .			
<i>D. affinis</i> , <i>M'Coy</i> .	Cave Deposit.	Geol. Survey, Vict. $\frac{1}{4}$ sheet 7, N. W. note.	Mt. Macedon Caves, Vict.
<i>D. lanarius</i> , <i>Owen</i> .		Vide <i>Sarcophilus</i> .	
<i>D. maculatus</i> , <i>Shaw</i> .	Cave-breccia.	<i>Viverra</i> , *General Zool. 1800, I. pt. 2, p. 433; <i>Dasyurus</i> , Waterhouse, *Nat. Hist. Mam. 1846, I. p. 439; <i>ibid.</i> Krefft, Austr. Vert. 1871, p. 21.	Caves of Wellington Valley, N. S. Wales.
<i>D. viverrinus</i> , <i>Shaw</i> .	Cave-breccia, &c.	<i>Didelphis</i> , *General Zool. 1800, I. pt. 2, p. 491, t. 111; <i>Dasyurus</i> , Waterhouse, *Nat. Hist. Mam. 1846, I. p. 442; <i>ibid.</i> M'Coy, Geol. Survey, Vict. $\frac{1}{4}$ sheet 7, N. W. note; <i>id.</i> Krefft, Austr. Vertebrata, 1871, p. 21; <i>id. ibid.</i> Mams. of Australia, 1871, t. 13.	Caves of Wellington Valley, N. S. Wales. Mt. Macedon Cave, Vict.

Genus **Diabolus**, *J. E. Gray*, 1841. (In Grey's Jour. Two Expeds. N. and N. W. Australia, pp. 400 and 411.)—Vide *Sarcophilus*.

*D. ursinus*, *Harris*. | Vide *Sarcophilus*. |

Genus **Diprotodon**, *Owen*, 1838. (Mitchell's Three Expeds. Int. E. Austr. II. p. 362; Waterhouse, Nat. Hist. Mam. 1846, I. p. 233.)—*Carpophaga-Phalangistidae*.

<i>D. Australis</i> , <i>Owen</i> .	Cave-breccia, and Quaternary Deposits.	* <i>loc. cit.</i> p. 362, t. 31, f. 1 and 2; Proc. Zool. Soc. 1839, VII. p. 19; Trans. <i>id.</i> 1841, II. p. 332; <i>Mastodontoid Pachyderm.</i> *Annals Nat. Hist. 1843, XI. p. 9, cuts, f. 2 and 3 (non f. 1); <i>Dinotherium</i> , * <i>ibid.</i> <i>id.</i> p. 329, f. 1, p. 330, f. 2; <i>Diprotodon</i> , *Brit. Assoc. Rep. 1844, p. 227; *Odontography, I. p. 399, Atlas, t. 90, f. 1—3; <i>D. Australis</i> , Annals Nat. Hist. 1844, XIV. p. 268; <i>id.</i> *Descrip. Cat. Mammalia and Aves R. Coll. Surgeons, 1845, pp. 291—313, nos. 1460—1504, t. 6, f. 1—5, t. 7, t. 10, f. 5—8; <i>id.</i> Strzelecki's *Phys. Descrip. N. S. Wales, 1845, p. 299; <i>id.</i> Waterhouse, Nat. Hist. Mammalia, 1846, I. p. 233; <i>id.</i> d'Archiac, Progrès de la Géol. 1848, II. pt. 1, p. 419; <i>id.</i> Macleay, Parl. Blue Book, Dec. 1854, p. 40; <i>id.</i> Leichhardt, <i>ibid.</i> p. 42; <i>id.</i> Owen,	Wellington Valley Caves, &c., N. S. Wales. Portland, &c., Vict. Welcome Springs and Hergot Springs, 500 m. N. of Adelaide, S. Australia. Condamine River; King's Creek, Darling Downs; Maryvale Creek, &c., Qu.
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(Marsupialia.)

(Post Tertiary.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
		<p>Encycl. Brit. 1859, xvii. p. 175, f. 43; <i>id. ibid.</i> Quart. Jour. Geol. 1859, xv. t. 9, f. 6; <i>id. ibid.</i> Palæontology, 1860, p. 394, f. 139; <i>id. ibid. id.</i> 2nd ed. p. 430, f. 171; <i>id.?</i> Huxley, Quart. Jour. Geol. Soc. 1862, xviii. t. 21, f. 1—3; <i>id.</i> Woods, *Geol. Obs. S. Austr. 1862, p. 381; <i>id.</i> Hochstetter, Verhandl. Jahrb. K.K. Geol. Reichsanstalt, 1864, xiv. pp. 36 and 37; <i>id.</i> Krefft, Geol. Mag. 1865, II. p. 573; <i>id.</i> d'Archiac, Faune Quaternaire, 1865, p. 271; <i>id.</i> Murray, Geograph. Dist. Mam. 1866, p. 363; <i>id.</i> Owen, Proc. R. Soc. 1870, xviii. p. 196; <i>id. ibid.</i> *Phil. Trans. 1870, clx. p. 519; <i>id.</i> Daintree, Quart. Jour. Geol. Soc. 1872, xxviii. p. 274; <i>id.</i> Owen, *Extinct Mam. Austr. 1877, pp. 189—244, 507—512, t. 19, f. 1—4, t. 20, t. 21, t. 22, t. 23, t. 24, f. 1—13, 16—18; t. 25, t. 26, t. 27, t. 28, t. 29, t. 30, t. 31, t. 32, t. 33, t. 34, t. 35, t. 122, f. 1—3, 7—10, t. 123, t. 124, and Frontispiece, <i>cuts</i>, f. 1 and 1 a, p. 189, f. 2, p. 204, f. 3 and 4, p. 209, f. 5, p. 212, f. 6, p. 219.</p>	
D. <i>Bennettii</i> , Owen.		*Extinct Mam. of Australia, 1877, pp. 510—511.	Mandoona, N. S. Wales.
D. <i>longiceps</i> , M <sup>c</sup> Coy.		*Trans. R. Soc. Vict. vi. p. 25; <i>ibid.</i> 1869, ix. pt. 2, p. 78; Annals Nat. Hist. 1867, xx. p. 191; Smyth's Progress Rept. 1874, i. p. 36; *Geol. Survey, Vict. Dec. 4, 1876, pp. 7—11, t. 31, t. 32, t. 33, <i>cut</i> , p. 11.	Colac; Limeburner's Point, Geelong, Vict.
D. <i>minor</i> , Huxley.		*Quart. Jour. Geol. Soc. 1862, xviii. p. 422, t. 21, f. 4—6; ? <i>Nototherium</i> , <i>sp.</i> Owen, Extinct Mam. of Australia, 1877, p. 511.	Gowrie, Darling Downs, Qu.

Genus **Echidna**, Cuvier, 1797 (Tabl. Élémentaire, p. 143; Waterhouse, Nat. Hist. Mam. 1846, i. p. 40) = *Trachyglossus*, Illiger.—*Monotremata*.

E. <i>Owenii</i> , Krefft.	Cave-breccia.	*Annals Nat. Hist. 1868, i. p. 113, f. 1—5; Austr. Vertebrata, 1871, p. 22.	Wellington Valley Caves, N. S. Wales.
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## (Marsupialia.)

## (Post Tertiary.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
Genus <i>Halmaturus</i> , Illiger, 1811. (Prod. Syst. Mam. et Avium, p. 80; Waterhouse, Nat. Hist. Mam. 1846, i. p. 94.)— <i>Pephaga-Macropodidæ</i> .			
<i>H. Bennettii</i> , Waterhouse.	Subfossil?.	<i>Macropus</i> , *Proc. Zool. Soc. 1837, p. 103; <i>id.</i> Owen, Trans. Zool. Soc. ii. 1841, t. 71, f. 5; <i>M. ruficollis</i> , var. <i>Bennettii</i> , Waterhouse, *Nat. Hist. Mam. 1846, i. p. 130; <i>M. Bennettii</i> , Owen, *Descrip. Cat. Osteol. Series R. Coll. Surgeons, 1853, i. pp. 324, 325, nos. 1740—1743; <i>Halmaturus</i> , Murie and Bartlett, Proc. Zool. Soc. 1866, pp. 28, 31, and 32; <i>id.</i> Krefft, Trans. R. Soc. N. S. Wales for 1867 (1868), i. p. 30.	Glenorchy Cave, Tas.
<i>H. Scottii</i> , Krefft (ms.).		Austr. Vert. 1871, p. 20.	
<i>H. Thomsonii</i> , Krefft (ms.).		Austr. Vert. 1871, p. 20.	
<i>H. sp. ind.</i> (1).	Cave-breccia.	Owen, in Mitchell's *Three Expeds. Int. E. Austr. 1838, ii. p. 361, t. 30, f. 1 and 2, no. 6; Krefft, Geol. Mag. 1865, ii. p. 572; Woods, *Geol. Obs. S. Austr. 1862, p. 380.	Wellington Valley Caves, N. S. Wales.
<i>H. sp. ind.</i> (2).	Cave-breccia.	Owen, in Mitchell's *Three Expeds. Int. E. Austr. 1838, ii. p. 361, t. 30, f. 3, no. 6 a; Woods, *Geol. Obs. S. Austr. 1862, p. 380; Krefft, Geol. Mag. 1865, ii. p. 572.	Wellington Valley Caves, N. S. Wales.
Genus <i>Hypsiprymnus</i> , Illiger, 1811. (Prod. Syst. Mam. et Avium, p. 79; Waterhouse, Nat. Hist. Mam. 1846, i. p. 190.)— <i>Pephaga-Macropodidæ</i> .			
<i>H. spelæus</i> , Owen.	Cave-breccia.	*Descrip. Cat. Mam. Aves, R. Coll. Surgeons, 1845, pp. 332, 333, nos. 1536—1539; Waterhouse, *Nat. Hist. Mam. 1846, i. p. 60; d'Archiac, Faune Quaternaire, 1865, p. 270; Murray, Geogr. Dist. Mam. 1866, p. 364.	Wellington Valley Caves, N. S. Wales.
<i>H. trisulcatus</i> , M'Coy.	Cave Deposit.	Geol. Survey, Vict. $\frac{1}{4}$ sheet 7, N. W. note.	Mt. Macedon Cave, Vict.
Genus <i>Leptosiagon</i> , Owen, 1873. (Pro. Roy. Soc. xxi. p. 386.)— <i>Pephaga-Macropodidæ</i> .			
<i>L. gracilis</i> , Owen.	Quaternary Deposits.	*Phil. Trans. clxiv. pt. 2, p. 785, t. 76, figs. 11—15; *Extinct Mam. of Australia, 1877, pp. 450, 451, t. 89, f. 11—15.	Queensland.

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(Post Tertiary.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
Genus <i>Macropus</i> , <i>Shaw</i> , 1800. (Gen. Zoology, i. pt. 2, p. 505.)— <i>Pæphaga-Macropodidæ</i> .			
<i>M. affinis</i> , <i>Owen</i> .	Quaternary Deposits.	*Descrip. Cat. Mammalia and Aves, R. Coll. Surgeons, 1845, p. 328; Waterhouse, *Nat. Hist. Mam. 1846, i. p. 59; d'Archiac, Faune Quatern. 1865, p. 270; Murray, Geogr. Dist. Mam. 1866, p. 363; Owen, Proc. R. Soc. 1873, xxi. p. 128; <i>ibid.</i> *Phil. Trans. 1874, clxiv. p. 260, t. 23, figs. 10 and 11; Phil. Trans. clxvi. p. 217, t. 29, f. 6, t. 30, f. 7—9; *Extinct Mam. Australia, 1877, pp. 411, 412, 498, t. 83, f. 10 and 11, t. 116, f. 6, t. 117, f. 7—9.	Condamine River, <i>Qu.</i>
<i>M. Ajax</i> , <i>Owen</i> .		Quart. Jour. Geol. Soc. 1859, xv. p. 158, <i>note</i> .	Darling Downs, <i>Qu.</i>
<i>M. Anak</i> , <i>Owen</i> .		Vide <i>Protemnodon Anak</i> , <i>Owen</i> .	
<i>M. Atlas</i> , <i>Owen</i> .		Vide <i>Sthenurus Atlas</i> , <i>Owen</i> .	
<i>M. Ferragus</i> , <i>Owen</i> .		Vide <i>Pachystagon Ferragus</i> , <i>Owen</i> .	
<i>M. Goliath</i> , <i>Owen</i> .		Vide <i>Procoptodon Goliath</i> , <i>Owen</i> .	
<i>M. Titan</i> , <i>Owen</i> .	Cave-breccia; Lacustrine, Quaternary and River Deposits.	*Mitchell's Three Expds. Int. E. Austr. 1838, ii. p. 359, t. 29, figs. 3, 6, and 8; *Brit. Assoc. Rept. 1844, p. 236; Odontog. i. p. 392, ii. t. 101, figs. 1 and 2; *Deser. Cat. Mam. Aves, R. Coll. Surgeons, 1845, p. 324, <i>et seq.</i> t. 6, f. 7; Waterhouse, *Nat. Hist. Mams. 1846, i. p. 58; ?Hobson, Tas. Jour. ii. p. 208; d'Archiac, Hist. Progrès de la Géol. 1848, ii. pt. 1, p. 47; Owen, *Palæontology, 1860, p. 394; M'Coy, Ex. Essay, 1861, p. 168; Woods, *Geol. Obs. S. Austr. 1862, p. 378; M'Coy, Annals Nat. Hist. 1862, ix. p. 145, <i>id. ibid.</i> 1867, xx. p. 191; d'Archiac, Faune Quaternaire, 1865, p. 270; Murray, Geogr. Dist. Mam. 1866, p. 364; Daintree, Quart. Jour. Geol. Soc. 1872, xxviii. p. 274; Owen, Proc. R. Soc. 1873, xxi. p. 128; <i>ibid.</i> *Phil. Trans. 1874, clxiv. pt. 1, p. 248, t. 20, f. 29; t. 21, figs. 6—18; t. 22, figs. 10—18; t. 23, figs. 2 and 3, 12 and 13; t. 26, figs. 9—15; <i>ibid.</i> pt. 2, p. 783, t. 76, figs. 1—6; M'Coy, Smyth's Progress Rept. 1874, p. 36; <i>id. ibid.</i> 1876, iii.	Wellington Valley Caves, N. S. <i>Wales</i> . Lake Timboon; Duck Ponds, <i>Vict.</i> Mt. Burr Caves, S. <i>Australia</i> . Condamine River; Darling Downs; Maryvale Creek, <i>Qu.</i>

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Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
<i>M. sp. ind.</i> (1).	Cave-breccia.	p. 74; Owen, Phil. Trans. CLXVI. pp. 204—209, t. 25, f. 1 and 4, t. 26, f. 1 and 2, t. 27; McCoy, in Couchman's Progress Report, 1877, iv. p. 156; Owen, Extinct Mam. of Australia, 1877, pp. 400—411, 435—439, 489—490, 498, Atlas, t. 76, f. 1—4, t. 77, f. 1 and 2, t. 78, f. 1 and 2, t. 79, f. 1 and 2, t. 80, f. 29, t. 81, f. 6—18, t. 82, f. 10—18, t. 83, f. 2 and 3, 12 and 13, t. 86, f. 9—15, t. 89, f. 1—6, t. 112, t. 113, t. 118, f. 1—7. Owen, *Mitchell's Three Expds. Int. E. Austr. 1838, II. p. 360, nos. III. a, b; Woods, *Geol. Obs. S. Austr. 1862, p. 379; Krefft, Geol. Mag. 1865, II. p. 572.	Wellington Valley Caves, N. S. Wales.
<i>M. sp. ind.</i> (2).	Cave-breccia.	Owen, Mitchell's Three Expds. Int. E. Austr. 1838, II. p. 360, no. 4; ? <i>Halmaturus</i> , Krefft, Geol. Mag. 1865, II. p. 572; Woods, *Geol. Obs. S. Austr. 1862, p. 379.	Wellington Valley Caves, N. S. Wales.
<i>M. sp. ind.</i> (3).	Quaternary Deposits.	Owen, *Descrip. Cat. Mam. and Aves, R. Coll. Surgeons, 1845, p. 326, no. 1517 (? = <i>Macropus laniger</i> , Q. and G.).	Condamine River, Qu.
<i>M. sp. ind.</i> (4—6).	Cave-breccia.	Owen, *Descrip. Cat. Mam. and Aves, R. Coll. Surgeons, 1845, p. 328, nos. 1521—1523.	Wellington Valley Caves, N. S. Wales.
<i>M. sp. ind.</i> (7).	Cave Deposit.	McCoy, Geol. Surv. Vict. $\frac{1}{2}$ sheet 7, N. W. note.	Mt. Macedon Cave, Vict.
<i>M. sp. ind.</i> (8).		Owen, Extinct Mam. of Australia, 1877, t. 114.	

Genus *Nototherium*, Owen, 1845 (see p. 173).—*Carpophaga-Phalangistidæ*.

<i>N. inerme</i> , Owen.	Quaternary Deposits.	*Brit. Assoc. Rept. for 1844, p. 231; Odontog. I. p. 396, II. t. 90, f. 4; Strzelecki's *Phys. Descr. N. S. Wales, 1845, p. 303; *Descr. Cat. Mam. Aves, R. Coll. Surgeons, 1845, pp. 314—323, t. 8; Waterhouse, *Nat. Hist. Mam. 1846, I. p. 237; Owen, *Quart. Jour. Geol. Soc. 1859, xv. p. 176—185, t. 9, f. 3; Hochstetter, Sitz. K. Akad. Wissensch. Wien, 1859, xxxv. p. 351; <i>id.</i> Verhandl. Jahrbuch, K. K. Geol. Reichsanstalt, 1864, xiv. p. 37; d'Archiac, Faune Quaternaire, 1865, p. 272;	Condamine River; King's Creek, Darling Downs, Qu.
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Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
N. <i>Mitchelli</i> , Owen.	Quaternary Deposits.	<p>Murray, Geogr. Dist. Mam. 1866, p. 363; Owen, Proc. R. Soc. xix. p. 494; <i>ib.</i> *Phil. Trans. 1872, clxii. pp. 41 and 63, t. 8, t. 9, f. 5; <i>id.</i> Extinct Mam. of Australia, 1877, pp. 271—272, &amp;c. p. 514, t. 42, t. 43, f. 5, t. 88, f. 15—17, t. 125.</p> <p>*Brit. Assoc. Report, 1844, p. 232; Odontography, i. p. 396; *Descrip. Cat. Mam. and Aves, R. Coll. Surgeons, 1845, p. 316, no. 1506, t. 9; Waterhouse, *Nat. Hist. Mam. i. p. 239; ?<i>N. Mitchelli</i>, Owen, *Quart. Jour. Geol. Soc. 1859, xv. pp. 176—185, t. 9, f. 1, 2, 4 and 5; Hochstetter, Sitz. K. Akad. Wissen. Wien, 1859, xxxv. p. 35; <i>id.</i> Verhandl. Jahrbuch, K. K. Geol. Reichsanstalt, 1864, xiv. pp. 36 and 37; Murray, Geogr. Dist. Mam. 1866, p. 363; ?<i>Thylacoleo carnifex</i>, M'Coy (non Owen), *Annals Nat. Hist. 1865, xvi. p. 448; <i>N. Mitchelli</i>, d'Archiac, Faune Quaternaire, 1865, p. 272; <i>id.</i> Owen, *Annals Nat. Hist. 1866, xviii. p. 475, t. 16; <i>id.</i> <i>ibid.</i> Proc. R. Soc. xix. p. 494; <i>id.</i> <i>ibid.</i> *Phil. Trans. 1872, clxii. p. 41, t. 2, f. 1 and 2, t. 3, f. 1 and 3, t. 4, f. 5 and 6, t. 9, f. 1—4, 6—8, t. 10, f. 1—3, 7 and 8, t. 11; <i>id.</i> <i>ibid.</i> *Extinct Mam. of Australia, 1877, pp. 249—269, p. 272 <i>et seq.</i> p. 514, <i>cut.</i> f. 1, p. 250, <i>cut.</i> f. 2, p. 269, Atlas, t. 36, f. 1 and 2, t. 37, f. 1—3, t. 38, t. 39, t. 40, t. 43, f. 1—4, 6—8, t. 44, f. 1—3, 7 and 8, t. 45, t. 88, f. 11—14.</p>	King's Creek; Condamine River; Gowrie Creek; Darling Downs, Qu.
N. <i>Victoriae</i> , Owen.	Lacustrine Deposits.	<p>*Phil. Trans. 1872, clxii. p. 61, t. 7, t. 10, f. 4—6; *Extinct Mam. of Australia, 1877, pp. 269—71, p. 513, Atlas, t. 41, t. 44, f. 4—6.</p>	Lake Victoria, S. Australia.

Genus *Osphranter*, Gould, 1841. (Proc. Zool. Soc. pt. ix. p. 80.)  
*Pephaga-Macropodidae*.

O. <i>Cooperi</i> , Owen.		<p>Proc. R. Soc. 1873, xxi. p. 128; *Phil. Trans. 1874, clxiv. p. 261, t. 24, f. 17 and 18; *Extinct Mam. of Australia, 1877, p. 412, t. 84, f. 17 and 18.</p>	Darling Downs, Qu.
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(Post Tertiary.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
O. Gouldii, Owen.		Proc. R. Soc. 1873, xxi. p. 128 ; *Phil. Trans. 1874, clxiv. p. 261, t. 23, f. 15 and 16 ; *Extinct Mam. of Australia, 1877, pp. 413—414, t. 83, f. 15 and 16.	

Genus **Pachysiagon**, Owen, 1873. (Proc. R. Soc. xxi. p. 386 ; Phil. Trans. clxiv. p. 784.)—*Pæphaga-Macropodidæ*.

P. Ferragus, Owen.	Quaternary Deposits.	<i>Macropus</i> , *Phil. Trans. clxiv. pt. 2, p. 784, t. 81, f. 4, t. 82, f. 3 and 4, t. 83, f. 3 ; <i>Pachysiagon</i> , *Extinct Mam. Australia, 1877, pp. 449—450, t. 96, f. 4, t. 97, f. 3 and 4, t. 105, f. 3.	
P. Otuel, Owen.		*Phil. Trans. clxiv. pt. 2, p. 784, t. 76, f. 7—10.	

Genus **Palorchestes**, Owen, 1873. (Proc. R. Soc. xxi. 386 ; Phil. Trans. clxiv. p. 797.)—*Pæphaga-Macropodidæ*.

P. Azael, Owen.	Quaternary Deposits.	*Phil. Trans. clxiv. pt. 2, p. 798, t. 81, f. 1 and 2, t. 82, f. 1 and 2, t. 83, f. 1 ; * <i>ibid.</i> clxvi. p. 197, t. 19, t. 20, t. 21, t. 22, f. 1—4, t. 23, f. 1, 2, and 5, t. 24, t. 29, f. 1—3 ; *Extinct Mam. of Australia, 1877, pp. 466—470, p. 500, t. 96, f. 1 and 2, t. 97, f. 1 and 2, t. 105, f. 1, t. 106, t. 107, t. 115, f. 1, 2 and 5, t. 116, f. 1—3, t. 129, t. 130, f. 1—4, t. 131.	
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Genus **Peragalea**, J. E. Gray<sup>1</sup>, 1841. (In Grey's Jour. Two Expeds. N. and N. W. Australia, ii. p. 401 ; *Macrotis*, Waterhouse, Nat. Hist. Mam. 1846, i. p. 358.)  
*Entomophaga-Peramelidæ*.

P. <i>sp. ind.</i>	Cave-breccia.	Kreffit, Aust. Vertebrata, 1871, p. 21.	Wellington Valley Caves, N. S. Wales.
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Genus **Perameles**, Geoffroy, 1804 (Ann. Muséum, iv. pp. 56 and 59 ; Waterhouse, Nat. Hist. Mam. 1846, i. p. 256) = *Isodon*, Desmarest.  
*Entomophaga-Peramelidæ*.

P. <i>nasuta</i> , Geof.	Cave-breccia.	* <i>l. c.</i> p. 62, t. 44 ; Waterhouse, *Nat. Hist. Mam. 1846, i. p. 374 ; <i>P. nasuta</i> ? Kreffit, Australian Vert. 1871, p. 21.	Wellington Valley Caves, N. S. Wales.
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<sup>1</sup> Written by Gray *Paragalia*.

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Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
<i>P. obesula</i> , Shaw.	Cave-breccia.	<i>Didelphis</i> , *General Zool. 1800, i. pt. 2, p. 490; <i>Perameles</i> , Geoffroy, Ann. Muséum, iv. p. 64, t. 45; <i>id.</i> Waterhouse, *Nat. Hist. Mam. 1846, i. p. 368; <i>id.</i> M'Coy, Geol. Survey, Vict. $\frac{1}{2}$ sheet 7, N. W. note; <i>P. obesula?</i> Krefft, Austr. Vert. 1871, p. 21.	Wellington Valley Caves, N. S. Wales.
<i>P. sp. ind.</i>	Cave-breccia.	Krefft, Geol. Mag. 1865, ii. p. 573.	Wellington Valley Caves, N. S. Wales.

Genus *Phalangista*, Cuvier, 1799 or 1800? (Leçons d'Anatomie Comparée, i. Tab. Général; Waterhouse, Nat. Hist. Mam. 1846, i. p. 265.)  
*Carpophaga-Phalangistidae.*

<i>P. fuliginosa</i> , Ogilby.	Subfossil?	*Proc. Zool. Soc. 1831, p. 135, Waterhouse, *Nat. Hist. Mam. 1846, i. p. 288; Krefft, Trans. R. Soc. N. S. Wales, for 1867 (1868), i. p. 32.	Glenorchy Cave, Tas.
<i>P. vulpina</i> , Shaw.	Cave-deposit.	<i>Didelphis</i> , *General Zool. 1800, i. pt. 2, p. 503; <i>Phalangista</i> , Temminck, Mon. Mammologie, 1827, i. p. 5; <i>id.</i> Owen, Odontog. i. p. 383, ii. t. 100, f. 1; <i>id.</i> Waterhouse, *Nat. Hist. Mam. 1846, i. p. 284; <i>id.</i> M'Coy, Geol. Survey, Vict. $\frac{1}{2}$ sheet 7, N. W. note; <i>id.</i> Krefft, Austr. Vert. 1871, p. 18; <i>id. ibid.</i> Mam. of Australia, 1871, t. 8.	Mt. Macedon Cave, near Gisborne, Vict.
<i>P. sp. ind.</i>	Cave-breccia.	Owen, Mitchell's *Three Expds. Int. E. Austr. 1838, ii. p. 361, nos. 7, <i>a</i> and <i>b</i> (2 <i>sp.</i> ); Waterhouse, *Nat. Hist. Mam. 1846, i. p. 353; Woods, Geol. Obs. S. Austr. 1862, p. 380; Krefft, Geol. Mag. 1865, ii. p. 572.	Wellington Valley Caves, N. S. Wales.

Genus *Phascologus*, Owen, 1873. (Pro. Roy. Soc. xxi. p. 128.)  
*Pophaga-Macropodidae.*

<i>P. altus</i> , Owen.	Cave-breccia and Quaternary Deposits.	<i>Macropus Titan</i> , Owen, Mitchell's *Three Expds. Int. E. Austr. 1838, ii. t. 29, figs. 4 and 5 (non figs. 3, 6 and 8); <i>P. altus</i> , Owen, *l. c. p. 128; <i>id.</i> *Phil. Trans. 1874, clxiv. p. 261, t. 22, figs. 1 and 2; * <i>id. ibid.</i> clxvi. p. 218, t. 30, f. 1—6; * <i>id.</i> Extinct Mam. of Australia, 1877, pp. 414 and 498, t. 82, f. 1 and 2, t. 111, t. 117, f. 1—6.	Wellington Valley Caves, N. S. Wales; also in Queensland.
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(Post Tertiary.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
Genus <i>Phascolomys</i> , <i>Geoffroy</i> , 1803 (Ann. Muséum, Hist. Nat. ii. p. 365 ; Waterhouse, Nat. Hist. Mam. 1846, i. p. 242) = <i>Vombatus</i> , <i>Geoff.</i> <i>Rhizophaga-Phascolomidae</i> .			
<i>P. gigas</i> , <i>Owen</i> .	Quaternary Deposits.	<i>Extinct Wombat</i> , Trans. Zool. Soc. III. p. 306 ; <i>P. gigas</i> , Encyclop. Brit. 1859, xvii. p. 175, f. 114 ; <i>id.</i> Palæontology, 1860, p. 395, f. 140 ; <i>id. ibid.</i> 2nd ed. 1861, p. 431, f. 172 ; <i>id.</i> d'Archiæ, Faune Quaternaire, 1865, p. 271 ; <i>id.</i> Owen, Proc. R. Soc. 1872, xx. p. 306 ; <i>P. (Phascolonus)</i> Owen, Phil. Trans. 1872, CLXII. pp. 248—254, t. 36, t. 38, f. 1, 3 and 4 ; <i>id. ibid.</i> Extinct Mam. of Australia, 1877, pp. 346—353, t. 61, t. 62, t. 63, f. 1, 3 and 4, t. 64, f. 1—3, t. 65.	Eton Vale ; Drayton Station ; Clifton Plains, &c., <i>Qu.</i>
<i>P. Krefftii</i> , <i>Owen</i> .	Cave-breccia.	Proc. R. Soc. 1872, xx. p. 66 ; *Phil. Trans. 1872, CLXII. p. 178, t. 17, f. 2 and 6, t. 19, f. 3, t. 20, f. 2 ; t. 22, f. 6 and 7, t. 23, f. 4 and 5 ; *Extinct Mam. of Austr. 1877, p. 319, p. 353, t. 50, f. 2 and 6, t. 52, f. 6 and 7, t. 53, f. 3, t. 54, f. 2, t. 56, f. 4 and 5.	Wellington Valley Caves, N. S. Wales.
<i>P. latifrons</i> , <i>Owen</i> .	Cave-breccia.	*Proc. Zool. Soc. 1845, p. 82 ; *Trans. <i>ibid.</i> 1849, III. p. 303, t. 37, f. 4—7 ; Osteol. Cat. R. Coll. Surgeons, 1853, i. p. 334 ; <i>Lasiorhinus</i> , <i>McCoyii</i> , Gray, *Annals Nat. Hist. 1863, xi. p. 458 ; <i>P. latifrons</i> , Murie, Proc. Zool. Soc. 1865, p. 844, f. 1 ; <i>Lasiorhinus (Phas.) id. ibid.</i> p. 854, t. 47 ; <i>Phascolomys, id. ibid.</i> 1867, p. 807, f. 2, p. 811, f. 4 ; <i>id.</i> Krefft, Proc. Zool. Soc. 1872, p. 795 ; <i>id.</i> Owen, *Phil. Trans. 1872, CLXII. pp. 176, 179, 180, 191, t. 19, f. 4, t. 20, f. 1, t. 21, f. 3 and 4, t. 22, f. 3—5, t. 23, f. 3—9, <i>cuts</i> , f. 4, f. 6 and f. 8 ; <i>id.</i> Trans. Zool. Soc. 1873, VIII. pt. 6, pp. 346—358, t. 50, f. 4 and 7, t. 51, f. 5, t. 52, f. 5, t. 53, f. 1—5, t. 54, f. 3 and 5, t. 55, f. 3 and 4, t. 56, f. 3 and 5, t. 57, f. 3, 5 and 7 ; <i>id. ibid.</i> 1874, VIII. pt. 7, pp. 483—497, t. 69, f. 1, 2, 5—12, t. 70, f. 1, 2, 5—10, t. 71, f. 1—3 and 7, t. 72, f. 1, 2, 5—9 and 11, t. 73, f. 1, 3, 5 and 7, t. 74 ; <i>id.</i> *Extinct Mam. of Australia,	Wellington Valley Caves, N. S. Wales.

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Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
		1877, pp. 317—332, p. 353, <i>cuts</i> , f. 4, p. 318, f. 6, p. 320, f. 8, p. 321, Atlas, t. 52, f. 3—5, t. 53, f. 4, t. 54, f. 1, t. 55, f. 3 and 4, t. 56, f. 3 and 9, t. 57, f. 1; t. 63, f. 2, t. 98, f. 1, 2, 5 and 12; t. 99, f. 1 and 2, 5—10, t. 100, f. 1—3 and 7, t. 101, f. 1 and 2, 5—9 and 11, t. 102, f. 1, 3, 5 and 7, t. 103, t. 127, f. 7.	
<i>P. magnus</i> , Owen.	Quaternary Deposits.	Proc. R. Soc. 1872, xx. p. 306; Murie, Proc. Zool. Soc. 1865, pp. 851—854; Owen, *Extinct Mam. of Austr. 1877, pp. 344, 346, 353, t. 60, f. 1—6.	Eton Vale and Drayton Station, Darling Downs, Qu.
<i>P. medius</i> , Owen.	Quaternary Deposits and Cave-breccia.	Proc. R. Soc. 1872, xx. p. 306; *Phil. Trans. 1872, CLXII. p. 241, t. 32, f. 2—7; t. 33, f. 2—6, t. 34, t. 35, f. 7; Owen, *Extinct Mam. of Austr. 1877, pp. 339—344, p. 353, Atlas, t. 57, f. 2—7, t. 58, f. 2—6, t. 59, t. 60, f. 7.	Eton Vale and Drayton Station, Darling Downs, Qu. Wellington Valley Caves, N. S. Wales.
<i>P. Mitchelli</i> , Owen.	Cave-breccia, and Quaternary Deposits.	Mitchell's *Three Expeds. Int. E. Austr. 1838, II. p. 362, t. 30, f. 4—6, nos. 8 <i>a—c</i> ; *Descrip. Cat. Mam. and Aves, R. Coll. Surgeons, 1845, pp. 333—334, nos. 1540, 1541, and 1542; Waterhouse, *Nat. Hist. Mam. 1846, I. p. 244; Woods, Geol. Obs. S. Austr. 1862, p. 381; <i>Phascolumys platyrhinus</i> (pars), Murie, Proc. Zool. Soc. 1865, p. 853; <i>P. Mitchelli</i> , d'Archiac, Faune Quaternaire, 1865, p. 271; <i>id.</i> Krefft, Geol. Mag. 1865, II. p. 573; <i>id.</i> Murray, Geogr. Distrib. Mam. 1866, p. 363; <i>id.</i> Owen, Proc. R. Soc. 1872, xx. p. 67; <i>id.</i> <i>ibid.</i> *Phil. Trans. 1872, CLXII. pp. 177—179, 181, 182, 191, t. 17, f. 1—3 and 5, 7 and 8, t. 18, f. 1—7, t. 19, f. 5, t. 21, f. 5 and 6; <i>id.</i> <i>ibid.</i> *Extinct Mam. of Australia, 1877, pp. 318, 320, 322, 324, 332, 353, t. 50, f. 1, 3—5, 7 and 8, t. 51, f. 1—7, t. 53, f. 5, t. 55, f. 5.	Wellington Valley Caves, N. S. Wales. Gowrie, Darling Downs, Qu.
<i>P. parvus</i> , Owen.	Quaternary Deposits.	Proc. R. Soc. 1872, xx. p. 67; *Phil. Trans. 1872, CLXII. p. 193, t. 19, f. 6 and 7, t. 20, f. 6—8, t. 23, f. 6 and 7, t. 38, f. 5; *Extinct Mam. of Austr. 1877, pp. 334—335, 353, Atlas, t. 53, f. 6 and 7, t. 54, f. 6—8, t. 56, f. 6 and 7, t. 63, f. 5 and 6.	King's Ck., Darling Downs, Qu.

(Marsupialia.)

(Post Tertiary.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
<i>P. platyrhinus</i> , Owen.	Quaternary Deposits.	*Osteol. Cat. R. Coll. Surgeons, 1853, i. p. 334; Murie, Proc. Zool. Soc. 1865, p. 844, f. 3, p. 853; <i>id. ibid.</i> 1867, p. 799, t. 35, p. 806, f. 1, p. 811, f. 6; Krefft, Proc. Zool. Soc. 1872, p. 796; Owen, Proc. R. Soc. 1872, xx. p. 67; *Phil. Trans. 1872, clxii. pp. 175, 180, 193, 197, t. 19, f. 2, t. 20, f. 3—5, t. 21, f. 2, t. 23, f. 1—8, <i>cuts</i> , f. 3, 5 and 7; <i>id.</i> Trans. Zool. Soc. 1873, viii. pt. 6, pp. 346—358, t. 50, f. 1, 2 and 5, t. 51, f. 1 and 2, t. 52, f. 1—3, t. 53, f. 6, t. 54, f. 2 and 4, t. 55, f. 2, t. 56, f. 1 and 4, t. 57, f. 1, 4 and 6; <i>id. ibid.</i> 1874, viii. pt. 7, pp. 483—497, t. 69, f. 3, 4 and 13, t. 70, f. 3 and 4, t. 71, f. 4—6 and 8, t. 72, f. 3, 4 and 10, t. 73, f. 2, 4 and 6; <i>id.</i> *Extinct Mam. of Australia, 1877, pp. 328—334, 353, <i>cuts</i> , f. 3, p. 316, f. 5, p. 320, f. 7, p. 321, Atlas, t. 52, f. 2, t. 53, f. 2, t. 54, f. 3—5, t. 55, f. 2, t. 56, f. 1 and 8, t. 58, f. 1, t. 98, f. 3, 4 and 13, t. 99, f. 3 and 4, t. 100, f. 4—6, t. 101, f. 3, 4 and 10, t. 102, f. 2, 4 and 6.	Eton Vale, Darling Downs, and Condamine R. Qu.
<i>P. Pliocenus</i> , M'Coy.	Quaternary Deposits?	<i>Phascolomys</i> , sp. Exhib. Essay, 1861, p. 168; <i>id.</i> Annals Nat. Hist. 1862, ix. p. 145; <i>P. pliocenus</i> , <i>id.</i> 1867, xx. p. 190; Smyth's Progress Report, 1874, i. p. 36; *Geol. Survey, Vict. Dec. i. 1874, p. 21, t. 3, 4 and 5; Smyth's Progress Report, 1876, iii. p. 74.	Bet-Bet Ck. Vict.
<i>P. Thomsoni</i> , Owen.	Quaternary Deposits.	Proc. R. Soc. 1872, xx. p. 67; *Phil. Trans. 1872, clxii. p. 192, t. 18, f. 8 and 9, t. 21, f. 7; *Extinct Mam. of Australia, 1877, pp. 333 and 353, Atlas, t. 51, f. 8 and 9, t. 55, f. 7.	Drayton Station, Darling Downs, Qu.

Genus *Plectodon*, Krefft, 1871?—*Carpophaga-Phalangistidæ*.

<i>P. sp. ind.</i>	Krefft, Australian Vertebrata, 1871, p. 19.
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Genus *Procoptodon*, Owen, 1873. (Proc. R. Soc. xxi. p. 386; Phil. Trans. clxiv. p. 786.)—*Pæphaga-Macropodidæ*.

<i>P. Goliath</i> , Owen.	<i>Macropus</i> , in Waterhouse's *Nat. Hist. Mam. 1846, i. p. 59;	Darling Downs, Qu.
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(Marsupialia.)

(Post Tertiary.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
<i>P. pusio</i> , <i>Owen</i> .		Murray, Geogr. Dist. Mam. 1866, p. 363; <i>Procoptodon</i> , Owen,*Phil. Trans. clxiv. pt. 2, p. 791, t. 79, t. 80; <i>id. ibid.</i> * <i>id.</i> clxvi. p. 222, t. 22, f. 5, t. 23, f. 3 and 4; <i>id. ibid.</i> *Extinct Mam. of Australia, 1877, pp. 460—465, 494, 502, Atlas, t. 92, f. 1—5, t. 94, t. 95, t. 115, f. 3 and 4, t. 118, f. 8—10, t. 121, t. 130, f. 5? *Phil. Trans. clxiv. pt. 2, p. 788, t. 77, f. 2—7; * <i>ibid.</i> clxvi. p. 222, t. 31, f. 1—5, 10—12; *Extinct Mam. of Australia, 1877, pp. 454—457, Atlas, t. 89, f. 7—10, t. 90, f. 2—7, t. 91, t. 119, f. 1—5, 10—12.	
<i>P. Rapha</i> , <i>Owen</i> .		*Phil. Trans. clxiv. pt. 2, p. 788, t. 77, f. 8—12, t. 78; * <i>ibid.</i> clxvi. p. 222, t. 31, f. 6—9; *Extinct Mam. of Australia, 1877, pp. 457—460, 483—485, 494, 502, Atlas, t. 90, f. 8—12, t. 93, t. 123, t. 119, f. 6—9.	

Genus **Protemnodon**, *Owen*, 1873. (Proc. R. Soc. xxi. p. 128.)  
*Pæphaga-Macropodidae*.

<i>P. Anak</i> , <i>Owen</i> .	Cave-breccia; Quaternary Deposits.	<i>Macropus Atlas</i> , *Descrip. Cat. Mam. and Aves, R. Coll. Surgeons, 1845, pp. 325 and 327 (nos. 1513 and 1519); <i>Macropus Anak</i> , Quart. Jour. Geol. Soc. 1859, xv. p. 185; <i>Protemnodon</i> , Proc. R. Soc. 1873, xxi. p. 128; <i>id.</i> *Phil. Trans. 1874, clxiv. p. 275, t. 23, f. 4—9, t. 25, f. 1—4, 7—10 and 14; <i>id.</i> *Extinct Mam. of Australia, 1877, pp. 428—430, 449, 498, Atlas, t. 83, f. 4—9, t. 85, f. 1—4, 7—10, and 14, t. 120, f. 1—6.	Wellington Valley Caves, N. S. Wales. Eton Vale, Darling Downs, Qu.
<i>P. Antæus</i> , <i>Owen</i> .		*Extinct Mam. of Australia, 1877, p. 448, t. 88, f. 13, t. 110.	
<i>P. Mimas</i> , <i>Owen</i> .	Cave-breccia; Quaternary Deposits.	Proc. R. Soc. 1873, xxi. p. 128; *Phil. Trans. 1874, clxiv. p. 278, t. 24, f. 13—16, t. 26, f. 1—8, t. 27, f. 1—4 and 14; *Extinct Mam. of Australia, 1877, pp. 431—434, 447, 448, Atlas, t. 84, f. 13—16, t. 86, f. 1—8, t. 87, f. 1—4 and 14.	Wellington Valley Caves, N. S. Wales. Gowrie Creek, and Eton Vale, Dar- ling Downs, Qu.

(Marsupialia.)

(Post Tertiary.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
<i>P. Og, Owen.</i>		Proc. R. Soc. 1873, XXI. p. 128; *Phil. Trans. 1874, CLXIV. p. 277, t. 25, f. 5—6, 11—13; *Extinct Mam. of Australia, 1877, p. 430, t. 85, f. 5 and 6, 11—13.	
<i>P. Rhæchus, Owen.</i>	Quaternary Deposits.	Proc. R. Soc. 1873, XXI. p. 128; *Phil. Trans. 1874, CLXIV. p. 281, t. 27, f. 10—13; *Ex- tinct Mam. of Australia, 1877, p. 434, t. 87, f. 10—13.	Clifton Station, Darling Downs, Qu.
<i>P. sp. ind.</i>		Owen, Extinct Mam. of Australia, 1877, t. 120, f. 7 and 8.	

Genus *Sarcophilus*, F. Cuvier, 1838 (see p. 173).—*Sarcophaga-Dasyuridæ*.

<i>S. lanarius, Owen.</i>	Cave-breccia.	<i>Dasyurus</i> , Mitchell's *Three Expeds. Int. E. Australia, 1838, II. p. 363, t. 31, f. 3—6; <i>id.</i> Odontography, I. p. 374; <i>id.</i> *Descrip. Cat. Mam. and Aves, R. Coll. Surgeons, 1845, p. 334—335, nos. 1543—1547; <i>id.</i> Waterhouse, *Nat. Hist. Mam. 1846, I. p. 452; <i>id.</i> Woods, Geol. Obs. S. Australia, 1862, p. 382; <i>id.</i> d'Archiac, Faune Quaternaire, 1865, p. 269; <i>id.</i> Murray, Geogr. Dist. Mam. 1866, p. 362; <i>Sarcophilus</i> , Owen, *Extinct Mam. of Australia, 1877, p. 105, t. 5, f. 1—6.	Wellington Valley Caves, N. S. Wales.
<i>S. ursinus, Harris.</i>	Cave-breccia.	<i>Didelphis</i> , *Trans. Linn. Soc. IX. p. 176, t. 19, f. 2; <i>Dasyurus</i> , Temmink, Mon. d. Mammologie, 1827, I. p. 68, t. 68; <i>Diabolus</i> , Gray, in Grey's Jour. Two Expeds. N. W. and W. Australia, 1841, II. p. 400; <i>Dasyurus</i> , Waterhouse, *Nat. Hist. Mam. 1846, I. p. 448; <i>Dasyurus</i> , Gould, Mam. of Australia, 1863, I. p. 55; <i>id.</i> d'Archiac, Faune Quaternaire, 1865, p. 269; <i>Diabolus</i> , M'Coy, in Geol. Survey, Vict. $\frac{1}{4}$ sheet 7, N. W. note; <i>Dasyurus</i> , Owen, *Osteol. Cat. R. Coll. Surgeons, 1853, I. p. 346; <i>Sarcophilus</i> , Krefft, Australian Vert. 1871, p. 21; <i>id.</i> Owen, *Extinct Mam. Australia, 1877, p. 105, Atlas, t. 13, f. 2, t. 14, f. 2, t. 15, f. 2, cut, f. 20, p. 103.	Wellington Valley Caves, N. S. Wales. Mt. Macedon Cave, near Gisborne, Vict.



(Marsupialia.)

(Post Tertiary.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
<i>S. sp. ind.</i>	Cave-breccia.	Kreffit, Geol. Mag. 1865, II. p. 573 (1 or more species).	Wellington Valley Caves, N. S. Wales.
Genus <i>Sthenurus</i> , Owen, 1873. (Proc. R. Soc. XXI. p. 123.)— <i>Pœphaga-Macropodidæ</i> .			
<i>S. Atlas</i> , Owen.	Cave-breccia, and Quaternary Deposits.	<i>Macropus</i> , *Mitchell's *Three Expeds. Int. E. Australia, 1838, II. p. 359, t. 29, f. 1; <i>id.</i> Odontography, I. p. 392, Atlas, t. 101, f. 3—5; <i>id.</i> *Brit. Assoc. Rep. 1844, p. 236; <i>id.</i> *Descrip. Cat. Mam. and Aves, R. Coll. Surgeons, 1845, p. 325; <i>id.</i> Waterhouse, *Nat. Hist. Mam. 1846, I. p. 57; <i>id.</i> d'Archiac, Hist. Progrès de la Géol. 1848, II. pt. 1, p. 417; <i>id.</i> Owen, Palæontology, 1860, p. 394; ? <i>M. Athos</i> , Woods, Geol. Obs. S. Australia, 1862, p. 378; <i>M. Atlas</i> , d'Archiac, Faune Quaternaire, 1865, p. 270; <i>id.</i> Murray, Geogr. Dist. Mam. 1866, p. 363; <i>id.</i> M'Coy, Annals Nat. Hist. 1867, XX. p. 191; <i>Sthenurus</i> , Owen, Proc. R. Soc. 1873, XVI. p. 128; <i>id.</i> <i>ibid.</i> *Phil. Trans. 1874, CLXIV. p. 265, t. 20, f. 30, t. 22, f. 3—9, t. 24, f. 4—9; <i>Macropus</i> , M'Coy, in Smyth's Progress Report, I. 1874, p. 36; <i>Sthenurus</i> , Owen, *Phil. Trans. CLXVI. p. 210, t. 25, f. 2 and 3, t. 26, f. 4; <i>Macropus</i> , M'Coy, in Couchman's Progress Report, IV. 1877, p. 158; <i>Sthenurus</i> , Owen, *Proc. Zool. Soc. 1877, p. 352, t. 38, f. 5—11; <i>id.</i> <i>ibid.</i> *Extinct Mam. of Australia, 1877, pp. 416—424, 439—442, 446, Atlas, t. 76, f. 2 and 3, t. 77, f. 4 and 5, t. 79, f. 4, t. 80, f. 30, t. 82, f. 3 and 9, t. 84, f. 4—9, t. 88, f. 1—4.	Wellington Valley Caves, N. S. Wales. Condamine River, Darling Downs, Qu. Duck Ponds, near Geelong, Vict.
<i>S. Brehus</i> , Owen.	Cave-breccia.	Proc. R. Soc. 1873, XXI. p. 128; *Phil. Trans. 1874, CLXIV. p. 272, t. 27, f. 5—9; * <i>id.</i> CLXVI. p. 213, t. 28; *Proc. Zool. Soc. 1877, p. 352, t. 38, f. 12—17; *Extinct Mam. of Australia, 1877, pp. 424—427, 442—446, 494, Atlas, t. 87, f. 5—9; t. 88, f. 5—10, t. 92, f. 6 and 7, t. 108, t. 109, and t. 77, f. 7?	Wellington Valley Caves, N. S. Wales.
<i>S. minor</i> , Owen.		*Proc. Zool. Soc. 1877, p. 353, t. 37, t. 38, f. 1—4.	

(Marsupialia.)

(Post Tertiary.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
Genus <b>Thylacinus</b> , <i>Temminck</i> , 1827. (Mon. d. Mammologie, i. p. 60; Waterhouse, Nat. Hist. Mam. 1846, i. p. 453).— <i>Sarcophaga-Dasyuridæ</i> .			
<b>T. cynocephalus</b> , <i>Harris</i> .	Cave-breccia.	<i>Didelphis</i> , *Trans. Linn. Soc. ix. p. 174, t. 19, f. 1; <i>Thylacinus Harrisii</i> , Temminck, loc. cit. p. 63; <i>Thylacinus cynocephalus</i> , Waterhouse, *Nat. Hist. Mam. 1846, i. p. 456; <i>id.</i> Owen, *Osteol. Cat. R. Coll. Surgeons, 1853, i. p. 347; <i>Dasyurus</i> , Gould, *Mam. of Australia, 1863, i. p. 61; <i>Thylacinus</i> , Krefft, Australian Vertebrata, 1871, p. 21; <i>id. ibid.</i> *Mam. of Australia, 1871, t. 12; <i>id.</i> Owen, *Extinct Mam. of Australia, 1877, p. 106, t. 12, f. 2, t. 13, f. 3, t. 15, f. 3, cut, f. 5, p. 74.	Wellington Valley Caves, N. S. Wales.
<b>T. spelæus</b> , <i>Owen</i> .	Cave-breccia.	<i>Dasyurus lanianus</i> (pars), Owen, Mitchell's *Three Expeds. Int. E. Australia, 1838, ii. p. 363, t. 31, f. 7; <i>T. spelæus</i> , <i>ilid.</i> *Descrip. Cat. Mam. and Aves, R. Coll. Surgeons, 1845, pp. 335, 336, nos. 1548 and 1549; <i>id.</i> Waterhouse, *Nat. Hist. Mam. 1846, i. p. 455; d'Archiac, Faune Quaternaire, 1865, p. 269; Murray, Geogr. Dist. Mam. 1866, p. 362.	Wellington Valley Caves, N. S. Wales.
<b>T. sp. ind.</b>	Cave-breccia.	Krefft, Geol. Mag. 1865, ii. p. 573 (1 or more sp.).	Wellington Valley Caves, N. S. Wales.

Genus **Thylacoleo**, *Owen*, 1858 (Proc. R. Soc. ix. p. 565) = *Schizodon*, Stutchbury (non Agassiz, nec Waterhouse).—*Carpophaga-Phalangistidæ*.

<b>T. carnifex</b> , <i>Owen</i> .	Cave-breccia, and Lacustrine Deposits.	<i>Schizodon</i> , sp. Stutchbury, Parl. Blue Book, Dec. 1854, p. 52, cuts, p. 54; <i>T. carnifex</i> , Owen, Proc. R. Soc. 1858, ix. p. 585; *Phil. Trans. 1859, CXLIX. pp. 309—322, t. 11, figs. 1—6, t. 13, figs. 1, 4 and 5, t. 14, f. 1, t. 15, f. 1; Encyclop. Brit. 1859, xvii. p. 175, f. 115; *Palæontology, 1860, p. 396, f. 141; <i>ibid.</i> 2nd ed. 1861, p. 432, f. 173; Falconer, *Quart. Jour. Geol. Soc. 1862, xviii. pp. 353 and 368, figs. 16—19; Krefft, Geol. Mag. 1865, ii. p. 574; d'Archiac, Faune Quaternaire, 1865, p. 269; Owen, Proc. R. Soc. 1865, xiv. p. 343;	Wellington Valley Caves, N. S. Wales. Lake Columboolac, 80 miles S. W. of Melbourne, Vict. Gowrie, Darling Downs, Qu.
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(Marsupialia.)

(Post Tertiary.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
<i>T. sp. ind.</i>		<p>*Phil. Trans. 1866, clvi. p. 73, t. 2, 3 and 4; Krefft, *Annals Nat. Hist. 1866, xviii. p. 148, t. 11, f. 1; Flower, *Quart. Jour. Geol. Soc. 1868, xxiv. p. 307; Falconer, *Pal. Mem. 1868, ii. p. 437; Krefft, Quart. Jour. Geol. Soc. 1870, xxvi. p. 415; Owen, Proc. R. Soc. 1870, xix. p. 95; <i>id.</i> *Phil. Trans. 1870, clx. p. 224; <i>id. ibid.</i> 1871, clxi. p. 213, t. 11, 12, 13, 14; Krefft, *Annals Nat. Hist. 1872, x. pp. 169 and 181, t. 11, f. 1—4, t. 12; M'Coy, *Geol. Survey, Vict. 1876, Dec. iii. p. 7, t. 21; *Extinct Mammals of Australia, 1877, pp. 107—188, <i>cuts</i>, f. 1, p. 149, f. 2 and 3, p. 150, f. 4, p. 151, f. 5, p. 152, f. 6—8, p. 153, f. 9 and 10, p. 154, f. 11 and 12, p. 155, f. 13, p. 165, f. 14 and 15, p. 168, f. 16—18, p. 170, f. 19, p. 174; Atlas, t. 6, f. 1, 6, 9, 10 and 12, t. 7, f. 1—14, t. 8, f. 1—6, t. 9, f. 1—9, t. 10, t. 11, t. 13, f. 1, 4—8, t. 14, f. 1, t. 15, f. 1, t. 16, t. 17, t. 18.</p> <p>Krefft, Austr. Vert. 1871, p. 19.</p>	

Genus *Zygomaturus*, *Macleay*, 1857? (Cat. Donations Australian Mus. Sydney, Aug. 1857?!)—*Carpophaga-Phalangistidæ*.

<i>Z. trilobus</i> , <i>Macleay</i> .	<p>*<i>loc. cit.</i>!; in Owen, Quart. Jour. Geol. Soc. 1858, xiv. p. 542; <i>id. ibid.</i> 1859, xv. p. 168; Macdonald, in Owen, <i>loc. cit.</i> p. 169; Owen, <i>loc. cit.</i> p. 170; ?<i>Nototherium Mitchelli</i>, Owen, <i>loc. cit.</i> t. 7, f. 1—4; Huxley, Quart. Jour. Geol. Soc. 1862, xviii. pp. 423 and 424, <i>note</i>; Krefft, Annals Nat. Hist. 1872, x. p. 180.</p>	King's Creek, Darling Downs, <i>Qu.</i>
<i>Z. Macleayi</i> , <i>Krefft</i> (ms.).	Austr. Vert. 1871, p. 19.	

Genus *Phascalomys*. Mr Krefft states that at least twenty species of Wombat existed in Australia during Post Pliocene times (*Austr. Vert.* p. 18).

(Edentata—Rodentia.)

(Post Tertiary.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
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## Section—Placentalia. Order—Edentata.

Genus *Mylodon*, Owen, 1840. (Zool. Voy. Beagle, pt. I. Foss. Mams. p. 68.)  
*Bradypodidæ*.

M.? Australis, <i>Kreffl.</i>	Austr. Vert. 1871, p. 17; <i>Mylo-</i> <i>don?</i> sp. Annals Nat. Hist. 1872, x. p. 180.
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## Order—Carnivora.

Genus *Canis*, Linnæus, 1735. (Syst. Nat.!)—*Digitigrada-Canidæ*.

C. Dingo, <i>Blumen-</i> <i>bach.</i>	Cave-breccia.	Handbuch, p. 103! Shaw, *Gene- ral Zool. 1800, I. pt. 2, p. 277, t. 76; <i>C. familiaris</i> , var. <i>Aus-</i> <i>traliasæ</i> , Gray, in Grey's Jour. Two Expeds. N. and N. W. Australia, 1841, I. p. 400; <i>C.</i> <i>dingo</i> , Owen, *Osteol. Cat. R. Coll. Surgeons, II. pp. 692—694; Gray, List Mammalia Brit. Mus. 1843, p. 57; M'Coy, Exhib. Essay, 1861, p. 168; <i>id.</i> Annals Nat. Hist. 1862, IX. p. 145; <i>id.</i> Geol. Survey, Vict. $\frac{1}{2}$ sheet 7, N. W. note; <i>id.</i> Krefft, Trans. R. Soc. N. S. Wales, 1862—65, p. 3; Gould, *Mam. of Austr. 1863, III. pp. 51 and 52; <i>left</i> <i>lower canine of Dingo?</i> Krefft, Geol. Mag. 1865, II. p. 574; Mivart, Proc. Zool. Soc. 1865, p. 579, f. 9; Krefft, Trans. R. Soc. N. S. Wales, 1868, I. pp. 32 and 34; Gray, Proc. Zool. Soc. 1868, p. 509; Krefft, *Mam. of Austr. 1871, t. 2; <i>Teeth of</i> <i>Dingo?</i> <i>id.</i> Australian Vert. 1871, p. 17.	Wellington Valley Cave, N. S. Wales. Mt. Macedon Cave, near Gisborne, Vict.
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## Order—Rodentia.

The bones and teeth of six or more species of *Hapalitis* and *Mus* have been found in the Wellington Valley Caves, and exhibit characters by which they may be distinguished from the living forms of the same genera (Krefft, *Aust. Vert.* p. 17).

(Incertæ Sedis.)

(Incertæ Sedis.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
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## Incertæ Sedis

(including species to which either no definite geological horizon, locality, or systematic position can be assigned).

## Plantæ.

Genus **Austrella**, Dana, 1849. (Geol. U. S. Explor. Exped. p. 720.)

A. rigida, Dana.		*loc. cit. p. 720, Atlas, t. 14, f. 7 and 8.	Newcastle, N. S. Wales.
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## Class—Actinozoa.

Corallites Wiltoni, Leichhardt.		In Clarke, Quart. Jour. Geol. Soc. 1848, iv. p. 62.	Newcastle, N. S. Wales.
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## Class—Crustacea (Malacostraca).

Genus **Thalassina**, Latreille, 1806. (Gen. Crust. et Insect. i. p. 51.)  
*Decapoda-Macrura.*

T. Emerii, Bell.		Proc. Geol. Soc. 1844, iv. p. 360, cut; T. antiqua, Bell, Annals Nat. Hist. 1844, xiv. p. 455; T. Emerii, *Quart. Jour. Geol. Soc. 1845, i. p. 93, cut; id. et T. antiqua, Bronn, Index Pal. (Nomen), p. 1265.	New Holland.
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## Class—Reptilia (Amphibia).

Genus **Bothriceps**, Huxley, 1859. (Quart. Jour. Geol. Soc. xv. p. 647.)  
*Labyrinthodontia?*

B. Australis, Huxley.		*l. c. p. 647.	Australia.
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(Incertæ Sedis.)

(Incertæ Sedis.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
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## Class—Mammalia.

Genus **Mastodon**, Cuvier, 1806. (Ann. Museum, viii. p. 270.)—*Proboscidea*.

M. Australis, Owen. |

| Vide *Trilophodon*. |Genus **Trilophodon**, Falconer, 1857. (Quart. Jour. Geol. Soc. xiii. pp. 313, 316.)  
*Proboscidea*.

T. Australis, Owen. |

*Mastodon*, \*Annals Nat. Hist. 1814, xiv. p. 269, figs. 1 and 2; *id.* Hobson, Tas. Jour. ii. p. 208; *id.* Owen, Calcutta, Jour. Nat. Hist. 1845, v. p. 573, f. 1; *id.* d'Archiac, Progrès de la Géol. 1848, ii. pt. 1, p. 417; *id.* Strzelecki, Phys. Descr. N. S. Wales, 1845, p. 312; *Trilophodon Humboldtii*, Falconer (pars), Quart. Jour. Geol. Soc. 1857, xiii. p. 319 (Synop. table); *T. Andium* (Cuv.), *id.* Nat. Hist. Review, 1863, p. 96; *Mastodon Australis*, d'Archiac, Faune Quaternaire, 1865, p. 267; *T. Andium* (Cuv.), Falconer, Pal. Mem. 1868, ii. pp. 14 and 15, Synop. Table, note 1, p. 275, note 2; *M. Australis*, *ibid.* i. pp. 64 and 105.

## APPENDIX.

*Giving Species or References which have been published whilst the preceding pages have been passing through the press, and too late for insertion in their proper places; or, those which have been previously overlooked.*

(Plantæ.)			(Appendix.)
Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
Plantæ.			
Genus <b>Clasteria</b> , Dana, 1847. (Geol. U. S. Expl. Exped. p. 719.) Vide <i>Vertebraria</i> .			
C. Australis, Dana.		Vide <i>Vertebraria Australis</i> , M <sup>c</sup> Coy.	
Genus <b>Glossopteris</b> , Brongniart (see pp. 30 and 96).			
G. Browniana, Brong.		See pp. 30 and 96; Feistmantel, Records Geol. Survey, India, 1877, x. pt. 3, p. 140, pt. 4, p. 203; <i>id.</i> Pal. Indica, 1877, ser. xi. No. 2, p. 9.	
Genus <b>Tasmanites</b> , E. T. Newton, 1875 (Geol. Mag. Dec. 2, II. p. 341) = <i>Sporangites</i> (in part), Dawson.— <i>Cryptogamia-Lycopodiaceæ</i> .			
T. punctatus, Newton.	Devonian or Carboniferous?	Milligan, Proc. R. Soc. V. D. Land, 1852, II. pp. 96 and 97; Archer, <i>ibid.</i> p. 511; <i>Particles or flakes</i> , Penny, <i>ibid.</i> 1855, III. p. 108; Moore, <i>ibid.</i> p. 177; <i>Discs</i> , Lee, <i>ibid.</i> p. 187; <i>Sporangia</i> , Balfour, Trans. R. Soc. Edinb. 1857, XXI. p. 193, Expl. pl. 2; <i>Resinous particles</i> , Gould, Report on Resinous Shales, R. Mersey, 1861, p. 3; Church, Chem. News, 1862, VI. p. 122; <i>Algæ</i> , Ralph, Trans. R. Soc. Viet. 1865, VI. p. 7; <i>Discs</i> , Carruthers, Geol. Mag. 1865, II. p. 439; <i>Scales</i> , Church, Phil. Mag. pp. 465, 466, f. 1—6; <i>Spores</i> , &c. Dawson, American Jour. Sc. 1871, CI. p. 257; <i>id.</i> Canadian	R. Mersey, Tas.

(Animalia.)

(Appendix.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
		Nat. and Geol. 2nd ser. v. 1871, p. 371; <i>Spores</i> , &c. Huxley, Critiques and Addresses, no. 5, 1873, p. 103; <i>Sporangia</i> , Lyell, Student's Elements, 2nd ed. 1874, p. 405, f. 448 C and D; <i>Tasmanites punctatus</i> , E. T. Newton, *Geol. Mag. 1875, Dec. 2, II. pp. 337—342, t. 10, f. 1—9; <i>T. Australis</i> , Johnston, On <i>Tasmanite</i> , or Mersey Yellow Coal, &c., 1877, p. 6; Newton, Proc. R. Soc. Tas. for 1876 (1877), p. 4.	

Genus **Vertebraria** (Royle), M'Coy (see p. 101) = *Clasteria*, Dana.

V. Australis, M'Coy.

See p. 101; *Clasteria Australis*, Dana, Geol. U. S. Expl. Exped. p. 719, Atlas, t. 14, f. 3—5; Clarke, S. Goldfields, 1860, 2nd ed. p. 285; *V. Australis* + *C. Australis*, Feistmantel, Records Geol. Survey, India, 1877, x. pt. 4, p. 199.

Genus **Zeugophyllites**, Brong. (see p. 101).

Z. elongatus, Morris.

See p. 101; Feistmantel, Records Geol. Survey, India, 1877, x. pt. 4, p. 200.

### Animalia.

Genus **Purisiphonia**, Bowerbank, 1869. (Proc. Zool. Soc. 1869, p. 342; see p. 104.)  
*Rhizopoda-Spongida*.

P. Clarkei, Bowerbank.

See p. 104; \*Proc. Zool. Soc. 1869, p. 342, t. 25, f. 6 and 7; Carter, \*Annals Nat. Hist. 1878, I. p. 376.

Genus **Goniograptus**, M'Coy, 1876. (Annals Nat. Hist. XVIII. p. 130.)  
*Hydrozoa-Graptolitidae*.

G. Thureaui, M'Coy.

L. Sil. (Lland. Flags).

*Didymograptus* (*Goniograptus*), \*loc. cit. p. 189, fig.; *Graptolites* (*Didymograptus*), \*Geol. Survey, Vict. Dec. v. 1877, p. 39, t. 50, f. 1—4.

Sandhurst (Bendigo), Vict.



## (Animalia.)

## (Appendix.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
Genus <b>Ceratotrochus</b> , <i>Edwards and Haime</i> , 1848. (Ann. Sc. Nat. 3rd ser. ix. p. 248; Edwards, Hist. Nat. Corall. II. p. 73.)— <i>Actinozoa-Aporosa-Turbinolidæ</i> .			
C. fenestratus, <i>Tenison-Woods</i> .	Tertiary.	Fide Tenison-Woods ( <i>in lit.</i> ).	
Genus <b>Graphularia</b> , <i>Edwards and Haime</i> , 1850. (Mon. Brit. Foss. Corals, Introd. p. lxxxiii.; Edwards, Hist. Nat. Corall. I. p. 216.)— <i>Actinozoa-Alcyonaria-Pennatulidæ</i> .			
G. Robinæ, <i>M'Coy</i> .		*Geol. Survey, Vict. Dec. v. 1877, p. 32, t. 48, f. 2—4 (compare <i>Belemnite senescens</i> , Tate.)	Waurin Ponds, nr. Geelong, Vict.
Genus <b>Platyrochus</b> , <i>Edwards and Haime</i> , 1848. (Ann. Sc. Nat. 3rd ser. ix. p. 246; Edwards, Hist. Nat. Corall. II. p. 71.)— <i>Actinozoa-Aporosa-Turbinolidæ</i> .			
P. fissicostatus, <i>Tenison-Woods</i> .	Tertiary.	Fide Tenison-Woods ( <i>in lit.</i> ).	
P. planicostatus, <i>Tenison-Woods</i> .	Tertiary.	Fide Tenison-Woods ( <i>in lit.</i> ).	
Genus <b>Salenia</b> , <i>Wright</i> (see p. 143).— <i>Echinodermata</i> .			
S. Tertiaria, <i>Tate</i> .		See p. 143; Duncan, Annals Nat. Hist. 1878, II. p. 60.	
Genus <b>Buskia</b> , <i>Tenison-Woods</i> <sup>1</sup> , 1876. (Notes, Tertiary, Foss. Tas. p. 63.) <i>Polyzoa-Cheilostomata</i> .			
B. typica, <i>Tenison-Woods</i> .	Table Cape Series (L. or M. Ter.?).	<i>loc. cit.</i> p. 63.	Table Cape, Tas.
Genus <b>Atrypa</b> , <i>Dalman</i> (see p. 18).— <i>Brachiopoda</i> .			
A. reticularis, <i>Linn.</i>	Up. Sil.	See p. 18; M'Coy, *Geol. Survey, Vict. Dec. v. p. 25, t. 47, f. 1 and 2.	Yering, Vict.
Genus <b>Nucleospira</b> , <i>Hall</i> (see p. 20).— <i>Brachiopoda</i> .			
N. Australis, <i>M'Coy</i> .		See p. 20; *Geol. Survey, Vict. Dec. v. 1877, p. 27, t. 47, f. 7 and 8.	
Genus <b>Pentamerus</b> , <i>J. Sowerby</i> (see p. 20).— <i>Brachiopoda</i> .			
P. Australis, <i>M'Coy</i> .	Up. Sil. (May Hill Sandstone).	See p. 20; *Geol. Survey, Vict. Dec. v. 1877, p. 28, t. 47, f. 9—12.	Yering, Vict.

<sup>1</sup> I have already pointed out in the *Geological Magazine* (Dec. 2, 1877, iv. p. 417 note), that Prof. Busk's name has been previously used in a generic sense by the late Mr Alder for a recent Polyzoan (see Alder, *Trans. Tyneside Nat. Field Club*, III. p. 156). It will in consequence be necessary for the author of the above genus to make some alteration in his name.

## (Animalia.)

## (Appendix.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
<b>Genus Rhynchonella, Fischer (see p. 21).</b>			
<i>R. decemplicata, J. de C. Sowerby.</i>	Up. Sil. (May Hill Sandstone).	<i>Terebratula</i> , Sil. System, 1839, p. 641, t. 21, f. 17; <i>Rhynchonella</i> , Salter, *Mem. Geol. Survey, Gt. Brit. 1866, III. p. 278; <i>R. (Hemithyris)</i> , M'Coy, *Geol. Survey, Vict. Dec. v. 1877, p. 26, t. 47, f. 3—6.	Wallan, &c., Vict.

**Genus Spirifera, J. Sowerby (see p. 22).**

<i>S. plicatella, Linn.</i>	Up. Sil. (Wenlock).	See p. 22; <i>S. plicatella</i> , var. <i>macropleura</i> (Conrad), M'Coy, *Geol. Survey, Vict. Dec. v. 1877, p. 22, t. 46, f. 7 and 8.	
<i>S. sulcata, Hisinger.</i>	Up. Sil. (Wenlock).	<i>Delthyris</i> , *Lethæa Suecica, 1837, p. 73, t. 21, f. 6; <i>Spirifera</i> , Davidson, *Mon. Brit. Sil. Brach. p. 91, t. 10, f. 4—6; <i>id.</i> M'Coy, *Geol. Survey, Vict. Dec. v. 1877, p. 23, t. 46, f. 9 and 10.	Yering, Vict.

**Genus Strophomena, Blainville (see p. 22).—Brachiopoda.**

<i>S. rhomboidalis, Wilckens.</i>	Up. Sil. (Wenlock).	See p. 22; <i>Leptæna (Leptagonia)</i> , M'Coy, *Geol. Survey, Vict. Dec. v. 1877, p. 19, t. 46, f. 1.	Yering, Vict.
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**Genus Trematospira, Hall (see p. 23).—Brachiopoda.**

<i>T. formosa, Hall.</i>		See p. 23; M'Coy, *Geol. Survey, Vict. Dec. v. 1877, p. 22, t. 46, f. 7 and 8.	
<i>T. liopleura, M'Coy.</i>		See p. 23; M'Coy, *Geol. Survey, Vict. Dec. v. 1877, p. 21, t. 46, f. 2—5.	

**Genus Pecten, O. F. Müller (see p. 76).—Pelecypoda.**

<i>P. asperrimus, Lamarck.</i>	Pliocene.	Histoire Anim. sans Vertèb. VI. p. 174; G. B. Sowerby, jun. Thesaurus Conchyl. I. p. 75, no. 94; Reeve, Conch. Iconica, 1855, VIII. Mon. Genus Pecten, no. 75, t. 20, f. 75; Adams, Genera, 1858, II. p. 551; Tenison-Woods, Census, Marine Shells of Tasmania, p. 33; ? = <i>P. Australis</i> , G. B. Sowerby, jun. loc. cit. p. 76, t. 19, f. 210 and 220; <i>id.</i> Angus, Proc. Zool. Soc. 1865, p. 656.	Government House Quarry, Adelaide, S. Australia.
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(Animalia.)

(Appendix.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
<i>P. Foulcheri</i> , <i>Tenison-Woods</i> .		Fide Tenison-Woods ( <i>in lit.</i> ).	
<i>P. Gambierensis</i> , <i>Tenison-Woods</i> .		Fide Tenison-Woods ( <i>in lit.</i> ).	

Genus *Bulla*, *Klein* (see p. 159).

<i>B. oblonga</i> , <i>A. Adams</i> .	Raised Beaches.	Angas, Proc. Zool. Soc. 1867, p. 226; Hutton, *Cat. Marine Moll. N. Zealand, 1873, p. 52; Tenison-Woods, Census, Marine Shells of Tasmania, p. 24 (= <i>B. Australis</i> , of some authors, non Q. and G.).	Guichen Bay, and Lake Eliza, S. Australia.
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Genus *Cypræa*, *Linnaeus* (see p. 161).—*Gasteropoda*.

<i>C. consobrina</i> , <i>M. Coy.</i>	Oligocene, or L. Miocene?	<i>Cypræa (Aricia)</i> , *Geol. Survey, Vict. Dec. v. 1877, p. 36, t. 49, f. 2.	Moorabool R., Vict.
<i>C. contusa</i> , <i>M. Coy.</i>	Oligocene.	<i>Cypræa (Luponia)</i> , *Geol. Survey, Vict. Dec. v. 1877, p. 37, t. 49, f. 3 and 4.	Mounts Eliza and Martha, Vict.
<i>C. leptorhyncha</i> , <i>M. Coy.</i>	Oligocene.	<i>Cypræa (Luponia)</i> , *Geol. Survey, Vict. Dec. v. 1877, p. 35, t. 49, f. 1.	Mounts Eliza and Martha, Vict.

Genus *Lunella*, *Bolten*, 1798. (Adams, Genera, Recent Moll. 1854, i. p. 54.)

<i>L. undulata</i> , <i>Chemnitz</i> .	Raised Beaches.	<i>Turbo</i> , Conch. Cab. x. t. 169, f. 1640—41!; Reeve, Conch. Iconica, 1847, iv. Mon. Genus <i>Turbo</i> , no. 3, t. 1, f. 3 a and b; <i>Lunella</i> , Adams, Genera, 1854, i. p. 324; <i>id.</i> Angas, Proc. Zool. Soc. 1865, p. 177; <i>id. ibid. id.</i> 1867, p. 213; <i>Turbo</i> , Hutton, Cat. Marine Moll. N. Zealand, 1873, p. 34; <i>id. v.</i> Martens, Critical List, Moll. N. Zealand, 1873, p. 30; <i>id.</i> Tenison-Woods, Census, Marine Shells of Tasmania, p. 15.	Australia.
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Genus *Natica*, *Adanson* (see p. 114).—*Gasteropoda*.

<i>N. polita</i> , <i>Tenison-Woods</i> .		Fide Tenison-Woods ( <i>in lit.</i> ).	
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Genus *Pleurotomaria*, *DeFrance* (see p. 85).—*Gasteropoda*.

<i>P. Woodsii</i> , <i>Johnston</i> .	Devonian or Carboniferous?	On Tasmanite, or Mersey Yellow Coal, 1877, p. 8.	River Mersey, Tas.
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(Animalia.)

(Appendix.)

Genus and Species.	Strat. Subdivision.	References.	Localities, &c.
Genus <i>Rissoina</i> , <i>d'Orbigny</i> (see p. 114).— <i>Gasteropoda</i> .			
<i>R. concatenata</i> , <i>Tenison-Woods</i> .	?Table Cape Series (L. or M. Ter.?).	Proc. R. Soc. Tas. for 1876 (1877), p. 155.	Table Cape?, <i>Tas.</i>
Genus <i>Ceratodus</i> , <i>Agassiz</i> , 1838. ( <i>Poissons Foss.</i> iii. pp. 129 and 166; <i>Gunther</i> , <i>Phil. Trans.</i> 1871, <i>CLXI.</i> pt. 2, p. 514; <i>Miall</i> , <i>Mon. Sirenoid and Crossop. Ganoids</i> , 1872, p. 18.)— <i>Ganoidei</i> .			
<i>C. sp. ind.</i>	River Gravels? (P. Tertiary.)	Clarke, <i>Remarks Sed. Formations N. S. Wales</i> , 1875, p. 60; <i>id.</i> <i>Mines and Min. Statistics</i> , N. S. Wales, 1875, p. 205; <i>Miall</i> , <i>Pal. Indica</i> , 1878, iv. no. 2, p. 17.	Darling Downs, <i>Queensland</i> .
Genus <i>Thylacinus</i> , <i>Temminck</i> (see p. 194).— <i>Marsupialia</i> .			
<i>T. major</i> , <i>Owen</i> .	Cave-breccia.	<i>Dasyurus</i> , <i>sp.</i> <i>Mitchell's Two Expeds. Int. E. Austr.</i> 1838, p. 363, t. 31, f. 7; <i>Thylacinus</i> , <i>Foss. Mam. Australia</i> , p. 106, t. 5, f. 7—9.	Wellington Valley Caves, <i>N. S. Wales</i> .

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<sup>1</sup> The note appended (p. 215) to one of Mr R. M. Johnston's papers, also applies here. The full paper will be found as above, pp. 91—116. R. E. JUN.

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