V.—*A List of Western Australian Fossils (systematically arranged),*

BY

LUDWIG GLAUERT, F.G.S.,

Field Geologist.

General Introduction.

This list is an attempt to catalogue all the Western Australian Fossils that have been collected in the State up to the end of 1908.

Whilst every care has been taken to make it as complete as possible, it is felt to be far from perfect owing to the vagueness of some of the localities, the uncertainty of various names, and the disappearance of many of the specimens.

Although Western Australian Palæontology is still in its infancy several attempts have been made to catalogue the forms then known.

In 1870 Chas. Moore compiled a list of the Mesozoic Fossils (*vide* Q. J. G. S., Vol. XXVI., 1870, p. 232), which was the authority for Mr. Etheridge's "Catalogue of Australian Fossils" of 1878—as far as the Western Australian Fauna was concerned. Some five years later W. H. Hudleston gave a list of the Palæozoic Fossils that had been submitted to him for examination and description (*vide* Q. J. G. S., Vol. XXXIX., 1883, p. 590). The next list compiled was that published in the Annual General Report for 1890, by Mr. H. Page Woodward, at that time Government Geologist. This was the first attempt to classify all the Western Australian Fossils, and is the most comprehensive Catalogue that is known to this Department at the present time. In order to show the advances made in Western Australian Palæontology since that date, all the species then recorded are prefixed with the letter "W" in the following pages. Since 1891, untabulated lists have appeared in the following Government publications and in the presidential address, Section "C," Geology, at the Adelaide meeting of the Australasian Association for the Advancement of Science, 1907, all over the signature of Mr. A. Gibb Maitland, the present Government Geologist of this State. Although up to date, they do not claim to be complete or systematically arranged, and so do not fill the place that this present catalogue is intended to occupy.

Bulletin No. 4.—The Mineral Wealth of Western Australia, Chapter I, 1900.

Bulletin No. 26, part 7.—Recent Advances in the Knowledge of the Geology of Western Australia, 1907.

Year Book.—Western Australian Year Book (article "Salient Geological Features"), from Bulletin No. 4, 1902–4.

It was the original intention to include all the Western Australian Fossils in this present list, but more careful investigation of the specimens and their labels show that almost all the Cainozoic examples were badly preserved casts, which did not permit an exact determination. As it would be useless to include such very doubtful records, it was thought more advisable to confine the list to the Palæozoic and Mesozoic Times only, and to leave the Cainozoic and more recent examples till better preserved specimens came to hand, or circumstances permitted more time being spent upon them, so that some definite result might be obtained.

Again, the known fossil flora of Western Australia is so small and insignificant that it was considered the wiser plan to confine it to a separate article.

The plan adopted is to a great extent similar to that of Mr. Etheridge: the animal remains are in zoological order (after Zittel), and occupy the first longitudinal subdivision; in the second subdivision the localities are placed in geographical sequence from North to South; the third column is reserved for references to publications, which are indicated by letters of the alphabet, *see* page 73 (when the letters represent works containing figures or illustrations of the species they are printed in capitals); then follows the subdivision containing the names of the Museums known to contain Western Australian Fossils, here the presence of a species is recorded by means of a ×. As this list is designed chiefly for use in this State it was considered an advantage to distinguish species represented in the Geological Gallery of the Western Australian Museum by printing the names in a **heavier type**. Species exhibited in other Museums, and not in the National Collection, have their names printed in ordinary type, whilst the name of specimens that are recorded but cannot be traced to any collection are printed in *italics*.

In compiling this work the first Bulletin issued by the Department, The Bibliography of the Geology of Western Australia, by A. Gibb Maitland, 1898, was freely used, and all its references consulted wherever possible.

For articles of later date, manuscript notes made by the Government Geologist were found of great assistance. The Assistant Keeper of the Geological Department of the British Museum (Natural History), the Assistant Secretary of the Geological Society of London; the Directors of the Western Australian Museum; the Australian Museum, Sydney; the National Museum, Mel

bourne ; the Public Library, Museum, and Art Gallery, Adelaide ; the Museum of the Geological Survey of New South Wales, Sydney ; the Curator of the Bath Museum (England), and the Department of Agriculture and Technical Instruction, Dublin, have given useful and valuable information which is gratefully acknowledged.

The task has proved most interesting and instructive to me, and has suggested many problems and possibilities, so that it is hoped that in the near future it may be possible to amplify the present list.

REFERENCES.

(*a.*) **Clarke, Rev. W. B.** " Marine Fossiliferous Secondary Formations in Australia," Quart. Jour. Geol. Soc., Vol. XXIII.—1867

(*b.*) **Moore, Chas.** " Australian Mesozoic Geology and Palæontology." Quart. Journ. Geol. Soc., Vol. XXVI.—1870.

(*c.*) **Etheridge, R.** " Catalogue of Australian Fossils."—1878.

(*d.*) **Hudleston, W. H.** " On a Collection of Fossils and of Rock specimens from West Australia, North of the Gascoyne River." Quart. Journ. Geol. Soc., Vol. XXXIX.—1883.

(*e.*) **Hardman, E. T.** " Report on the Geology of the Kimberley District, Western Australia," Perth, by Authority—1884 and 1885.

(*f.*) **Woodward, Dr. H.** " On a remarkable Ichthyodorulite from the Carboniferous Series, Gascoyne, Western Australia." Geol. Mag., Dec. III., Vol. III.—1886.

(*g.*) **Etheridge, R.** " Remarks on Fossils of Permo-Carboniferous Age from North-Western Australia in the Macleay Museum." Proc. Lin. Soc., N.S. Wales, Vol. IV., part 2—1889.

(*h.*) **Etheridge, R.** " On Permo-Carboniferous Fossils from the Irwin River Coalfield, Western Australia." Appendix C. to the Annual Report of the Department of Mines, N.S. Wales, for 1889—1890.

(*i.*) **Foord, A. H., Nicholson, H. A., Hinde, Geo. J.** " Notes on the Palæontology of Western Australia " (two parts). Geol. Mag., Dec. III., Vol. VII.—1890.

(*j.*) **Newton, R. B.** " On the Occurrence of Chonetes Pratti (Davidson) in the Carboniferous Rocks of Western Australia." Geol. Mag., Dec. III., Vol. IX.—1892.

(*k.*) **Howchin, W.** " A Census of the Fossil Foraminifera of Australia." Austr. Assoc. Adv. Sci.—1893.

(*l.*) **Crick, G. C.** " On a Collection of Jurassic Cephalopoda from Western Australia." Geol. Mag., Dec. IV., Vol. I.—1894.

(*m.*) **Howchin, W.** " Carboniferous Foraminifera of Western Australia, with descriptions of new species." Trans. Royal Soc., South Austr., Vol. XIX., part 2—1895.

(*n.*) **Maitland, A. Gibb.** " Annual Progress Reports of the Geological Survey for the years 1897-1908."

(*o.*) **Maitland, A. Gibb.** " The Mineral Wealth of Western Australia " (Bulletin 4)—1900.

(*p.*) **Etheridge, R.** " Palæontological Contributions to the Geology of Western Australia I." (Bulletin 10)—1903.

(*q.*) **Chapman, F.** (1.) " Foraminifera and Ostracoda from the Jurassic Strata near Geraldton, Western Australia."

(2.) " On a Collection of Palæozoic and Mesozoic Fossils from Western Australia." Proc. Royal Soc., Vict., Vol. XVI.—1904.

(*r.*) **Maitland, A. Gibb.**" Recent Advances in the Knowledge of the Geology of Western Australia." Austr. Assoc. Adv. Sci. (Adelaide). 1907, and Bulletin No. 26.—1907.

(*s.*) **Etheridge, R. Chapman, F., Howchin, W.** " Palæontological Contributions to the Geology of Western Australia II." Bulletin 27. 1907.

(*t.*) **Hinde, G. J., Newell, Arber E. A., Etheridge, R., Glauert, L.** " Palæontological Contributions to the Geology of Western Australia." III. (Bulletin 36)—1910.

(*u.*) **Maitland, A. Gibb.** " Geological Investigations in the Country lying between 21° 30′ and 25° 30′ S. Lat., and 118° 30′ E. Long., embracing parts of the Gascoyne, Ashburton, and West Pilbara Goldfields" (Bulletin 33)—1909.

(*v.*) **Campbell, W. D.** The Irwin River Coalfield, Bulletin 38.

NOTE.—Figured specimens are indicated by capital letters in the column of References throughout the Tables.

PART I.

PALÆOZOIC FOSSILS.

The greater portion of Western Australia consists of Igneous or Metamorphic rocks of great antiquity, but in the " Kimberleys," the " North-West " to the " Gascoyne," large stretches of country consist of Palæozoic Rocks which have been recognised by most competent authorities as being chiefly of Carboniferous Age. A strip, running down between the Darling Ranges and the coast, is met with in the Victoria District, and may possibly be exposed at Bullsbrook, near Midland Junction, and further South along the

base of the Darling Ranges, but of this no definite Palæontologica evidence has yet been discovered. Still further South the Collie Coal Basin is the extreme outpost of the beds of this coal-bearing age so far as is yet known.

As regards Devonian Rocks, there is but very scanty information. Hardman (1) recognised Devonian strata in the Kimberley area and obtained fossils which are true Devonian types

In 1906, Mr. H. P. Woodward, in the course of an extended trip in the West Kimberley District, collected a number of specimens from the Barker Gorge in the Napier Range, which London authorities have classified as of undoubted Devonian age.

Some of the older writers, Hudleston, etc., determined possible Devonian forms from the "Gascoyne" and the "Irwin" localities, which the latter researches of this Department have failed to verify.

Rocks of greater antiquity are present in Western Australia, for Hardman obtained undoubted Cambrian fossils from Kimberley, but our knowledge is very restricted as it is not even definitely known where Hardman collected his specimens. It is also supposed that the Stirling Ranges in the extreme South of the State are Silurian and, according to Hardman, that Lower Silurian, or Cambro-Silurian strata, are exposed in the country he examined in the North. It is needless to enter more fully into the matter here as all information can be obtained from Bulletin 26, part 7, of 1907, where the Government Geologist goes into the Geology of the State in detail.

The lithological character of the Palæozoic rocks is not striking, the Carboniferous representations are mainly grey crystalline limestone with occasional ironstained areas, but associated with these are carbonaceous and micaceous shales, sandstones and conglomerates, as well as Glacial beds and series of volcanic lavas and ashes. The Nullagine Beds may be either Cambrian or Devonian: they are not Carboniferous. The Devonian Beds are mostly grey limestones, whilst the older Palæozoic strata consist chiefly of more or less altered sedimentary rocks and crystalline limestones. For further information in this connection reference may be made to the publication of this Department, to which attention has just been drawn.

In the following portion of the list the pages have been divided into four main columns, as explained in the Introduction.

Locality.—Roughly speaking there are four chief districts, Kimberley, Gascoyne, Irwin and Collie. Of these, the second is subdivided into the Valleys of the Lyons, Wyndham, Gascoyne,

(1.) Hardman: "Report on the Geology of the Kimberley District" (two reports), dated 1884 and 1885.

and Wooramel Rivers ; whilst the third is split up into Irwin River Coal seam and Mingenew.

It has been thought advisable to consider Mingenew as one of the more important sections, as it is chiefly there that fossils homotaxial with the Permo-Carboniferous of the Eastern States have been obtained. (1.)

(1.) *Vide* G.S., W.A., Bulletin No. 27, page 19.

CAMBRIAN.

	Genus and Species.	Locality.				Reference.	Exhibited.					
		Kimberley.					Geol. Surv. Museum.	Australian Museum.	Victorian Museum.	Dept. of Mines, N.S.W. Museum.	British Museum.	Geol. Soc. Lond. Museum.
	Sub-Kingdom MOLLUSCA. Class Gastropoda. Sub-Class Euthyneura. Order Opisthobranchia. Sub-Order Conularida.											
W	**Salterella Hardmani** (Eth. fil.)	×	..	..	..	L.o.r. ..	×	×	..	..	×	..
	Sub-Kingdom ARTHROPODA Class Crustacea. Sub-Class Trilobita. Order Opisthoparia.											
W	Olenellus (?) Forresti (Eth. fil.)	×	..	..	..	L.o.r. ..	..	..	..	..	×	..

DEVONIAN.

	Genus and Species.	Locality.				Reference.	Exhibited.					
	Sub-Kingdom COELENTERATA. Sub-Branch Cnidaria. Class Hydrozoa. Stromatoporoidea.	Kimberley.	Barker Gorge, Napier Range.	Gascoyne River.			Geol. Surv. Museum.	Australian Museum.	Victorian Museum.	Dept. of Mines, N.S.W. Museum.	British Museum.	Geol. Soc. Lond. Museum.
	Actinostroma clathratum (Nich.)	×	..	..	..	l.o. ..	..	..	..	..	×	..
(?)	Stromatoporella Eifeliensis (Nich.)	×	..	×	..	l.o. ..	..	..	..	..	×	..
	Class Anthozoa. Sub-class Tetracoralla.											
(?)	Cyathophyllum depressum (Hinde)	×	..	×	..	l.o. ..	..	..	..	..	×	..
	„ **virgatum** (Hinde)	×	..	×	..	l.o. ..	×	..	..	..	×	..
(?)	**Phillipsastræa (Smithia) sp.**	..	×	..	..	t. ..	×	..	..	..	..	..
	Sub-Class Hexacoralla. Order Madreporaria. Sub-Order Tabulata.											
	Aulopora repens (Knorr & Walch)	×	..	..	..	l.o. ..	..	..	..	..	×	..
	Favosites Goldfussi (Edw. & Haime) (1)	×	..	×	..	.. ..	×	..	..	..	..	..
	Pachypora tumida (Hinde)	×	..	..	..	l.o. ..	..	..	..	..	×	..
	„ **sp.**	..	×	..	..	t. ..	×	..	..	..	..	..
(?)	**Syringopora reticulata** *var.* **patula** (Hinde)	..	..	×	..	.. ..	×	..	..	..	×	..

	Sub-Kingdom ECHINODERMATA. Sub-Branch Pelmatozoa. Class Crinoidea.													
	Stems and arms of Crinoids	×	..	×	..	i. ..	×	..	..	..	..	..		
	Sub-Kingdom VERMES. Sub-Order Tubicola (Sedentaria.)													
(?)	*Spirorbis omphalodes* (Goldf.)	×	..	×	..	i.o. ..	..	..	..	..	..	..		
	Sub-Kingdom MOLLUSCOIDEA. Class Brachiopoda. Order Protremata.													
	Productus *sp.*	×	..	..	..	.. ..	×	..	..	..	..	..		
	Order Telotremata.													
W	**Atrypa reticularis** (Linn.)	×	..	..	..	l.o.r. ..	×	..	..	..	×	..		
	Rhynchonella cuboides (J. de C. Sowerby)..	×	..	..	..	l.o. ..	×	..	..	..	×	..		
W	,, (**Hypothyris**) **pugnus** (Martin)	×	..	..	..	l.o.r. ..	×	..	..	..	×	..		
	,, (**Uncinulus**) *c.f.* **Timorensis** (Beyr.)	..	×	..	..	t. ..	×	..	..	..	..	..		
	Spirifera Musakheylensis *var.* **Australis** (Foord)	×	..	..	..	.. ..	×	..	..	..	..	..		
(?)	,, *c.f.* Verneuili (Murch)	×	.	..	..	.. ..	..	.	..	..	×	..		
	,, sp.	×	..	..	..	l.o.r. ..	..	..	..	..	×	..		
	Sub-Kingdom MOLLUSCA. Class Pelecypoda. Order Prionodesmacea.													
(?)	**Aviculopecten limæformis** (Morris) (2)	..	..	..	..	.. ..	×	..	..	..	..	..		
	,, **multiradiatus** (Eth. Sen.) (3)	..	..	×	..	.. ..	×	..	..	..	..	..		

(1.) Favosites gothlandica (Lamarck) *fide* Eth. fil Geol. and Pal., Queensland, p. 50. (2.) In a list of Fossils identified by the British Museum authorities and returned to Perth, 11th March, 1892, this shell is reported from Dandaraga, near Gingin. (3.) In the list referred to in the above foot-note an example of this species is reported from the South Coast, near Eucla.

DEVONIAN—*continued.*

	Genus and Species.	Locality.				Reference.	Exhibited.					
		Kimberley.	Barker Gorge, Napier Range.	Gascoyne River.			Geol. Surv. Museum.	Australian Museum.	Victorian Museum.	Dept. of Mines, N.S.W. Museum.	British Museum.	Geol. Soc. Lond. Museum.
	Class Gastropoda. Sub-Class Streptoneura. Order Aspidobranchia. Sub-Order Rhipidoglossa.											
	Euomphalus sp.	..	×	..	..	.. ..	×	..	..	..	..	..
	Loxonema sp.	..	×	..	..	.. ..	×	..	..	..	..	..
	Class Cephalopoda. Sub-Class Tetrabranchia. Order Nautiloidea. Sub-Order Orthochoanites.											
	Goniatites (Brancoceras) *c.f.* **rotatorius** (De Kon.)	×	..	..	..	.. ..	×	..	..	..	..	..
W	„ **sp.**	×	×	..	..	I.o.r. ..	×	..	..	..	..	..
W	*Orthoceros spp*	×	..	..	..	I.o.r. ..	..	..	..	..	..	..
	Sub-Kingdom ARTHROPODA. Class Crustacea. Sub-Class Trilobita. Order Opisthoparia.											
	Proetus *sp. nov.*	..	×	..	..	t. ..	×	..	..	..	..	..

NOTE.—A fragment of bone of a coccostean fish was found associated with these Barker Gorge fossils, but it was too fragmentary to permit Dr. A. Smith-Woodward, F.R.S., to whom the specimen was submitted, to say more than that it belonged to a Coccostean fish, probably a new species allied to Coccosteus, and a new record for Australia,

CARBONIFEROUS.

	Genus and Species.	Locality											Reference.	Exhibited.						
	Sub-Kingdom PROTOZOA. Class Rhizopoda. Order Foraminifera. Sub-Order Porcellanea.	Kimberley.	Gascoyne.	Minilya River.	Lyons River.	Wyndham River.	Gascoyne River.	Wooramel River.	Irwin.	Irwin River Coal.	Mingenew P.C.	Collie Coalfield.		Geol. Surv. Museum.	Australian Museum.	Victorian Museum.	Dept. of Mines, N.S.W. Museum.	British Museum.	Geol. Soc. Lond. Museum.
*	Cornuspira Schlumbergi (Howchin)	..	..	..	..	..	..	..	×	×	..	..	k.M. ..	..	..	..	..	..	..
*	**Nubecularia Stephensi** (Howchin)	..	..	..	..	..	..	..	×	×	..	..	k.M.r.S.v.	×	×	..	..	..	..
	Sub-Order Vitro-Calcarea.																		
	Bulimina (?) sp.	..	..	..	..	..	..	..	..	..	..	×	n.r.S. ..	..	..	×	..	..	..
	Endothyra (?) sp.	..	..	..	..	..	..	..	..	..	..	×	n.r.S. ..	..	..	×	..	..	..
*	Frondicularia Woodwardi (Howchin)	..	..	..	..	..	..	..	×	×	..	..	k.M. ..	..	..	..	..	..	..
*	Nodosaria Irwinensis (Howchin)	..	..	..	..	..	..	..	×	×	..	..	k.M. ..	..	..	..	..	..	..
	Pulvinulina exigua (?) (Brady)	..	..	..	..	..	..	..	..	..	..	×	n.r.S. ..	..	..	×	..	..	..
	Truncatulina Haidingeri (D'Orb.)	..	..	..	..	..	..	..	..	..	..	×	n.r.S. ..	..	..	×	..	..	..
	Valvulina plicata (Brady) ..	..	..	..	..	..	..	..	..	..	..	×	n.r.S. ..	..	..	×	..	..	..

* These species are represented in the collection of Mr. Walter Howchin of the Adelaide University.

CARBONIFEROUS—*continued.*

	Genus and Species.	Locality.											Reference.	Exhibited.					
		Kimberley.	Gascoyne.	Minilya River.	Lyons River.	Wyndham River.	Gascoyne River.	Wooramel River.	Irwin.	Irwin River Coal.	Mingenew P.C.	Collie Coalfield.		Geol. Surv. Museum.	Australian Museum.	Victorian Museum.	Dept. of Mines, N.S.W. Museum.	British Museum.	Geol. Soc. Lond. Museum.
	Sub-Kingdom COELENTERATA. Sub-Branch Cnidaria. Class Hydrozoa, Stromatoporoidea.																		
W(?)	Actinostroma clathratum (Nich.)	×	..	..	..	..	..	..	..	..	..	..	I. ..	..	..	..	..	×	..
	Stromatopora concentrica (Goldf.)	×	..	..	..	..	..	..	..	..	..	..	e.o.r. ..	..	..	..	..	..	..
	,, *placenta* (Phil.)	×	..	..	..	..	..	..	..	..	..	..	e.o.r. ..	..	..	..	..	..	..
	,, *sp.*	×	..	..	..	..	..	..	..	..	..	..	e. ..	..	..	..	..	..	..
W(?)	Stromatoporella Eifeliensis (Nich.)	..	×	..	..	..	..	..	..	..	..	..	I. ..	..	..	..	..	×	..
	Class Anthozoa. Sub-Class Tetracoralla.																		
W	*Amplexus nodulosus* (Phil.) ...	..	×	..	×	..	..	..	..	..	..	..	d.o. ..	..	..	..	..	..	..
W	,, **pustulosus** (Hudl.) ..	..	×	×	×	..	×	..	×	..	..	..	D.I.n.o.p.	×	..	..	×	×	..
	,, **Selwyni** (de Kon.) ..	..	..	..	..	..	..	..	×	..	..	..	.. ..	×	..	..	..	..	..
W	**Cyathophyllum depressum** (Hinde)	×	×	..	..	..	..	..	..	..	..	..	I.o.r. ..	×	..	..	..	..	..
W	,, **virgatum** (Hinde)	×	×	..	..	..	..	..	..	..	..	..	I.o.r. ..	×	..	..	..	..	..
	,, *sp.* ..	×	..	..	..	..	..	..	..	..	..	..	d.e.o.r...	..	..	..	..	..	..

	Lithostrotion (*Lithodendron*) *affine* (Flem.)	×	..	..	..	..	..	..	..	..	..	..	e.o.r. ..	..	..	..	..	..	..
	,, *sp.*	×	..	..	..	..	..	..	..	..	..	..	e. ..	..	..	..	..	..	..
W	**Pleurophyllum** (1) **Australe** (Hinde)	..	×	×	..	×	×	..	×	×	..	..	I.j.n.o.p.r.S.	×	×	..	×	×	..
W	,, **sulcatum** (Hinde)	..	×	..	..	..	×	..	×	×	..	..	I.j.o.s. ..	×	..	..	×	..	..
W	**Zaphrentis** *sp.*	×	×	..	×	..	..	..	..	..	..	..	d.e.o.r. ..	×	..	..	..	..	..
	Sub-Class Hexacoralla. Order Madreporaria. Sub-Order Tabulata.																		
W	**Alveolites obscurus** (de Kon.) ..	..	×	..	..	..	..	×	..	..	..	..	.. ..	×	..	..	..	..	..
	Chætetes tumidus (Phill.) ..	×	×	..	×	..	..	..	..	..	..	..	e.o.r. ..	..	..	..	..	..	..
	Favosites sp.	..	..	..	..	..	..	..	..	..	..	..	.. ..	..	..	..	..	..	..
W	**Hexagonella** (**Evactinopora**) **crucialis** (Hudl.)	×	×	..	×	×	×	×	×	..	..	..	D.n.o.P.r.	×	×	..	×	..	..
W	,, ,, **dendroidea** (Hudl.)	×	×	..	×	×	×	×	×	..	..	..	D.I.n.p.r.	×	×	..	×	×	..
	,, ,, sp.	×	..	..	..	..	..	..	..	..	..	..	g. ..	..	..	..	(?)	..	..
W	*Pachypora tumida* (Hinde) ..	×	×	..	..	..	..	..	..	..	..	..	I.o.r. ..	..	..	..	..	..	..
	,, *sp. nov.*	..	×	..	×	..	..	..	..	..	..	..	d. ..	..	..	..	..	..	..
	,, **sp.**	×	×	..	×	..	..	..	..	..	..	..	.. ..	×	..	..	..	..	..
	Stenopora Leichardti (Nich. & Eth.)	..	..	..	..	..	..	..	×	..	..	..	q. ..	..	..	×	..	..	..
W	,, *Tasmaniensis* (Lonsd.)	×	×	..	×	..	×	..	..	..	..	..	d.e.o.r. ..	..	..	..	..	..	..
	,, sp.	×	..	..	..	..	..	..	..	..	..	..	g. ..	..	..	..	(?)	..	..
W	**Syringopora reticulata** *var.* **patula** (Hinde)	..	×	..	..	..	..	..	..	..	..	..	I.o.r. ..	×	..	..	..	..	..
	,, *sp.*	×	×	..	..	..	..	..	..	..	..	..	e.i.o.r. ..	..	..	..	..	..	..

(1) In the original article by Dr. G. J. Hinde the word is spelt Plerophyllum. All subsequent authorities quote the name as given in this list.

	Genus and Species.	Locality.											Reference.	Exhibited.					
	Sub-Kingdom ECHINODERMATA. Sub-Branch Pelmatozoa. Class Crinoidea. Order Larviformia.	Kimberley.	Gascoyne.	Minilya River.	Lyons River.	Wyndham River.	Gascoyne River.	Wooramel River.	Irwin.	Irwin River Coal.	Mingenew P.C.	Collie Coalfield.		Geol. Surv. Museum.	Australian Museum	Victorian Museum.	Dept. of Mines, N.S.W. Museum.	British Museum.	Geol. Surv. Lond. Museum.
	Symbathocrinus sp. (*fide* F. A. Bather)	..	..	..	..	..	..	..	×	..	..	..	.. ..	..	..	..	..	×	..
	Order Camerata.																		
	Actinocrinus (?) *sp.*	×	×	..	..	..	..	..	×	×	..	..	e.l.o.q.r.v.	×	..	×	..	..	..
	Platycrinus *sp.*	×	×	..	..	..	..	..	..	×	..	..	e.o.r.v...	×	..	..	..	..	..
W	*Poteriocrinus crassus* (Miller) ..	×	×	..	×	..	×	..	..	..	..	..	d.e.o.r...	..	..	..	..	..	..
	Rhodocrinus (?) *sp.*	×	×	..	..	..	..	..	..	..	..	..	l. ..	..	..	..	..	..	..
	Order Fistulata.																		
W	*Cyathocrinus sp.*	..	×	..	×	..	×	..	..	..	..	..	d.o. ..	..	..	..	..	..	..
	Crinoid head	..	×	..	..	×	..	..	..	..	..	..	.. ..	×	..	..	..	..	..
	.. **stems, etc.**	×	×	×	×	×	×	×	×	×	..	..	n.r.s.u.v.	×	×	×	×	×	×

	Class Blastoidea. Order Regulares.																		
	Pentremites sp.	×	..	..	..	..	..	..	..	..	..	..	e.o.r. ..	..	..	..	..	..	..
	Sub-Kingdom VERMES. Sub-Order Tubicola (Sedentaria).																		
	Serpula spp.	×	..	..	..	..	..	..	..	..	..	..	e.o.r. ..	..	..	..	..	..	..
	Spirorbis ambiguus (Flem.) ..	..	×	..	..	×	..	..	..	..	..	..	P. ..	×	..	..	..	..	..
(?)	,, *omphalodes* (Goldf.)	..	×	..	..	..	..	..	..	..	..	..	i. ..	..	..	..	..	..	..
	,, *spp.*	×	..	..	..	..	..	..	..	..	..	..	e.o.r. ..	..	..	..	..	..	..
	Sub-Kingdom MOLLUSCOIDEA. Class Bryozoa. Order Gymnolæmata. Sub-Order Cyclostomata.																		
	Ceriopora sp.	×	..	..	..	..	..	..	..	..	..	..	e.o.r. ..	..	..	..	..	..	..
	Sub-Order Cryptostomata.																		
W	**Fenestella plebeia** (McCoy)	×	×	..	×	..	×	..	×	×	..	..	d.e.o.r.S.v.	×	..	..	..	..	..
	,, **fossula** (Lonsd.)																		
	,, **plebeia** *var.* **densa** (Eth. fil.)	..	..	..	..	..	..	..	..	..	×	..	.. ..	×	..	..	..	..	..
	,, **spp.**	×	×	..	..	..	..	×	×	×	×	..	o.r. ..	×	..	..	..	..	..
W	**Polypora Australis** (Hinde) ..	..	×	..	..	..	..	..	..	..	..	..	I.o. ..	×	..	..	..	..	..
W	**Protoretepora ampla** (Lonsd.) ..	..	×	..	×	..	×	×	×	×	×	..	d.i.o. ..	×	..	..	..	..	..
	,, *antiqua* (Lonsd.)	×	×	..	..	..	..	..	..	..	..	..	e. ..	..	..	..	..	..	..
W	Rhombopora tenuis (Hinde) ..	..	×	..	..	×	×	..	..	..	..	..	I.n.o.r.u.	..	..	..	..	×	..

	Genus and Species.	Locality.											Reference.	Exhibited.					
	Class Brachiopoda. Order Neotremata.	Kimberley.	Gascoyne.	Minilya River.	Lyons River.	Wyndham River.	Gascoyne River.	Woorrmel River.	Irwin.	Irwin River Coal.	Mingenew P.C.	Collie Coalfield.		Geol. Surv. Museum.	Australian Museum	Victorian Museum.	Dept. of Mines, N.S.W. Museum.	British Museum.	Geol. Soc. Lond. Museum.
	Crania sp.	×	..	..	..	..	..	..	..	..	..	..	e. ..	..	..	..	..	..	..
	Discina sp.	×	..	..	..	..	..	..	..	..	..	..	e.o.r. ..	..	..	..	..	..	..
	Order Protremata.																		
	Aulosteges Baracoodensis (Eth. fil.)	..	×	..	..	..	×	×	×	×	..	..	n.P.r.u.v.	×	..	..	×	..	..
	Chonetes Hardrensis (Phil.) ..	×	..	..	..	..	..	..	..	..	..	..	e.o.r. ..	..	..	..	..	..	..
W	„ **Pratti** (Davidson) ..	..	×	×	×	×	×	..	×	×	..	..	J.n.o.p.r.S. u.v.	×	..	..	×	×	..
W	„ **spp.** (*non* **pratti**) ..	×	..	..	..	..	..	..	..	..	×	..	h.I.n.o.r.S. v.	×	..	..	(?)	×	×
	Derbyia sp. *c.f.* **senilis** (Phil.) (1)	..	..	..	..	..	..	..	×	×	..	..	q. ..	×	..	×	..	..	..
	Orthis resupinata (Martin) ..	×	..	..	..	..	..	..	..	..	..	..	e.o.r. ..	..	..	..	..	..	..
	„ *c.f.* **Michelini** (Martin) ..	..	×	..	..	..	..	×	..	..	..	..	.. ..	×	..	..	..	..	..

W	„ **spp.**	×	×	..	×	..	..	×	..	..	×	..	d.e. ..	×	..	..	..	..	..
W	**Orthotetes (Streptorhynchus) (2) senilis** (Phill.)	×	×	..	..	..	..	..	×	×	..	..	e.i.j.o.p.r.v	×	..	×	..	..	..
W	**Productus brachythærus** (Sowerby)	×	×	..	×	..	..	..	×	×	×	..	d.g.h.r.s.	×	×	..	(?)	..	..
	„ „ *var.* (Eth. fil.)	..	..	..	..	..	..	..	×	×	..	..	s. ..	×	..	..	..	..	..
	„ Cora (d'Orb.) ..	..	..	..	..	..	..	..	×	×	..	..	.. ..	..	..	×	..	..	..
	„ *c.f.* **Cora** (d'Orb.) ..	..	×	..	..	..	×	..	..	..	..	..	.. ..	×	..	..	×	..	..
	„ *giganteus* (Mart.) ..	×	..	..	..	..	..	..	..	..	..	..	e.o.r. ..	..	..	..	..	..	..
	„ *longispinus* (Sowerby)	×	..	..	..	..	..	..	..	..	..	..	e.o.r. ..	..	..	..	..	..	..
	„ *c.f.* **margaritaceus** (Phill.)	..	..	..	..	..	..	..	×	×	..	..	.. ..	×	..	..	..	..	..
	„ **scabriculus** (Mart.) ..	..	..	..	..	..	..	..	×	×	..	..	.. ..	×	..	..	..	..	..
	„ **semireticulatus** (Mart.)	×	×	×	×	×	×	..	×	×	..	..	e.n.o.P.r. s.u.v.	×	..	..	×	..	..
	„ „ *var.* **pugilis** (Phill.)&	..	..	..	..	..	..	..	×	..	..	..	.. ..	×	..	..	..	..	..
	„ *c.f.* **spiralis** (Waagen) and **subcostatus** (Waagen)	..	×	..	..	..	×	..	..	..	..	..	.. ..	×	..	..	..	..	..
W	„ **subquadratus** (Morris)	..	..	..	..	..	..	×	×	×	×	..	I.j.n.o.r. S.v.	×	×	..	×	×	..
W	„ **tenuistriatus** (De Vern.)	..	×	..	..	×	..	..	×	×	..	..	I.j.o.r.s.u.	×	×	..	×	×	..
	„ „ *var.* **Foordi** (Eth. fil.)	..	×	..	..	×	..	..	×	×	..	..	n.P.r.S.v.	×	×	..	..	..	..
W	„ **undatus** (Defr.) ..	..	×	..	..	..	..	..	×	×	..	..	I.j.o.q.r.s. v.	×	×	×	×	×	..
	„ **spp.**	×	×	..	×	..	×	..	×	×	..	..	d.e.g.n.u.v.	×	..	..	(?)	..	×
	Strophalosia Clarkei (Eth. fil.)	×	×	×	..	..	..	..	×	×	..	..	I.n.o.q.r.	×	..	×	..	×	..
	„ *c.f.* Gerardi (King)	..	..	..	..	..	..	..	×	..	..	..	h. ..	..	..	..	(?)	..	..
	„ **sp.**	..	×	×	×	..	..	..	..	..	..	..	d.P. ..	×	×	..	..	..	..
	Strophomena **analoga** (Phil.) ..	..	..	..	..	..	..	..	×	..	..	..	h. ..	×	..	..	(?)	..	..
	„ **sp.**	..	×	×	..	..	..	..	×	×	..	..	u.v. ..	×	..	..	..	..	..

(1) *Vide* also Orthotetes below and Chapman, Proc. Royal Soc. Vict., Vol. XIII., p. 323, 1904.

(2) Sometimes quoted as Streptorhynchus crenistria, or O. crenistria.

	Genus and Species.	Locality.											Reference.	Exhibited.					
	Order Telotremata.	Kimberley.	Gascoyne.	Minilya River.	Lyons River.	Wyndham River.	Gascoyne River.	Wooramel River.	Irwin.	Irwin River Coal.	Mingenew P.C.	Collie Coalfield.		Geol. Surv. Museum.	Australian Museum	Victorian Museum.	Dept. of Mines, N.S.W. Museum.	British Museum.	Geol. Soc. Lond. Museum.
	Actinoconchus *c.f.* **planosulcatus** (Phill.)	..	..	..	..	..	..	..	×	×	..	..	.. ..	×	..	..	..	..	..
	„ **sp.** (*or* **Cleiothyris** sp.)	..	..	..	..	..	..	..	×	×	..	..	.. ..	×	..	..	..	..	..
	Atrypa sp.	×	..	..	..	..	..	..	..	..	..	..	e.						
	„ (?) **sp.**	..	..	..	..	..	..	..	×	..	..	..	.. ..	×	..	..	..	..	..
	Athyris ambigua (Sowerby) ..	×	..	..	..	..	..	..	..	..	..	..	e. ..	..	..	..	..	..	..
	„ **sp.**	..	×	..	×	..	..	..	..	..	..	..	u. ..	×	..	..	..	..	..
W	**Cleiothyris (Athyris) Macleayana** (Eth. fil.)	×	×	×	..	×	×	×	×	×	×	..	G.L.m.o.P. r.s.u.v.	×	×	..	×	×	..
	„ „ *var.* **Baracoodensis** (Eth. fil.)	..	×	..	..	..	×	..	..	..	..	..	P. ..	×	×	..	..	..	..
	„ „ **sp.** *near* **Macleayana** (Eth. fil.)	..	..	..	..	..	..	..	×	×	..	..	.. ..	×	..	..	..	..	..
W	„ „ **Roysii** (Lev.)	..	×	..	×	..	..	×	..	..	..	..	d.o. ..	×	..	..	..	..	..
	„ „ **sp.** ..	×	..	..	..	..	..	..	×	..	..	..	e.n. ..	×	..	..	..	..	..

	Cyrtina carbonaria *var.* **Australasica** (Eth. fil.)	×	..	..	..	..	..	..	..	..	×	..	G.n.r.s.v.	×	..	..	(?)	..	..
	Dielasma (Terebratula) nobilis (Eth. fil.)	..	..	..	..	..	..	..	..	..	×	..	n.r.S.v.	×	×	..	..	..	..
	,, ,, **sacculus** (Martin)	×	..	..	..	..	..	..	..	..	..	..	e.o.r. ..	×	..	..	..	..	..
	,, ,, **hastata** (Sowerby)	×	..	..	..	..	..	..	..	..	×	..	e.o.r.v...	×	..	..	..	..	..
	,, ,, **amygdala** (Dana) (?)	..	..	..	..	..	..	..	..	..	×	..	.. ..	×	..	..	..	..	..
	,, ,, **cymbæformis** (Morris) (?)	..	..	..	..	..	..	..	..	..	×	..	.. ..	×	..	..	..	..	..
	,, ,, ,, **var** (?)	..	..	..	..	..	..	..	..	..	×	..	.. ..	×	..	..	..	..	..
	,, ,, **sp.** ..	×	×	..	..	..	×	×	×	×	×	..	e.r.S.u.v.	×	..	..	..	..	..
	,, ,, **sp. ind.**	..	×	..	..	..	×	..	..	..	..	..	n.r. ..	×	..	..	..	..	..
W	**Reticularia crebristria** (Morris)..	..	..	..	..	..	..	..	×	..	..	..	i.j.o.v. ..	×	..	..	..	..	..
W	,, **lineata** (Martin) ..	..	×	..	..	×	..	..	×	×	..	..	i.j.n.o.p.r. s.u.v.	×	..	..	×	..	..
	Retzia sp.	..	..	..	..	..	..	..	×	..	..	..	.. ..	×	..	..	..	..	..
	Rhynchonella (Hypothyris) cuboides (J. de C. Sowerby.)	×	..	..	..	..	..	..	..	..	..	..	e.o.r. ..	×	..	..	..	..	..
	,, ,, **pleurodon** (Phill.)	×	..	..	..	..	..	..	×	..	..	..	e.o.r. ..	×	..	..	..	..	..
	,, ,, **pugnus** (Mart.)	×	..	..	..	..	..	..	..	..	..	..	e.o.r. ..	×	..	..	..	..	..
	Seminula subtilita (Hall) (?) ..	×	×	..	..	..	×	..	×	×	..	..	P.r.S.v.	×	×	×	..	..	..
	,, **sp.**	..	×	..	..	..	×	..	..	..	..	..	.. ..	×	..	..	..	..	..
	Spirifera avicula (Sowerby) ..	..	..	..	..	..	..	..	..	..	×	..	r. ..	×	×	..	..	..	..
W	,, **convoluta** (Phill.) ..	..	×	..	..	..	×	×	×	..	..	..	.. ..	×	..	..	..	×	..
W	,, *c.f.* **convoluta** (Phill.)	..	×	..	..	..	×	..	×	..	..	..	d.o. ..	×	..	×	..	..	..
W	,, *c.f.* **crassus** (De Kon.)	..	×	..	×	..	×	..	..	..	..	..	d.o. ..	×	..	..	..	..	..
	,, **disjuncta** (Sowerby) ..	..	..	..	..	..	..	..	×	×	..	..	.. ..	..	..	..	..	..	×
	,, **(Martinia) glabra** (Martin)	..	..	..	..	..	..	..	×	×	..	..	.. ..	×	..	..	..	..	..

	Genus and Species.	Locality.											Reference.	Exhibited.						
	Order Telotremata—*continued.*	Kimberley.	Gascoyne.	Minilya River.	Lyons River.	Wyndham River.	Gascoyne River.	Wooramel River.	Irwin.	Irwin River Coal.	Mingenew P.C.	Collie Coalfield.		Geol. Surv. Museum.	Australian Museum.	Victorian Museum.	Dept. of Mines, N.S.W. Museum.	British Museum.	Geol. Soc. Lond. Museum.
W	**Spirifera Hardmani** (Foord) ..	×	×	..	..	×	×	..	×	×	..	..	I.n.o.P.r. u.v.	×	×	..	×	×	..
W	„ **Kimberleyensis** (Foord)	..	×	..	..	..	×	..	×	..	..	..	I.o. ..	×	..	..	..	..	..
W	„ **lata** (McCoy) ..	..	×	..	×	×	×	×	×	..	..	..	I n.o.r.u.v.	×	..	..	..	..	..
	„ „ **var.** with ribbed sulcus	..	×	..	..	×	..	..	..	..	..	..	P. ..	×	..	..	..	..	..
W	„ **Musakheylensis** *var.* **Australis** (Foord)	..	×	..	..	×	×	×	×	×	..	..	I.j.n.o.P.r. u.v.	×	×	..	..	..	..
W	„ **striata** (Martin) ..	×	×	..	×	×	×	..	..	..	..	..	d.e.o. ..	×	..	..	..	..	..
	„ *c.f.* **striata** (Martin) ..	..	..	..	..	..	..	..	×	..	..	..	.. ..	×	..	..	×	..	..
	„ **Stutchburyi** (?) (Eth. fil.)	..	..	..	..	..	..	..	..	..	×	..	p. ..	×	×	..	..	..	..
	„ (Martinopsis) subradiata (Sowerby)	..	×	..	..	..	..	..	..	..	..	..	.. ..	..	..	×	..	..	..
	„ **trigonalis** (Martin) ..	..	×	..	×	...	×	×	×	×	..	..	.. ..	×	..	..	×	..	×
W	„ **vespertilio** (G. Sowerby)	..	×	..	..	..	×	..	..	..	..	..	d.o. (?)	×	..	..	..	..	..
	„ **spp.**	×	×	..	..	×	×	×	×	×	×	..	e.g.n.P.r. S.u.v.	×	×	..	(?)	..	..
	„ **sp.** (*or* **Martinopsis sp.**)	×	..	..	..	..	..	..	×	..	..	..	.. ..	×	..	..	..	..	..
W	**Syringothyris exsuperans** (De Kon.)	..	×	..	..	..	×	..	×	×	..	..	i.j.o.v. ..	×	..	×	×	×	..

	Sub-Kingdom MOLLUSCA. Class Pelecypoda. Order Prionodesmacea.																		
	Anthracoptera sp.	..	×	..	..	..	×	..	..	..	..	..	r.u. ..	×	×	..	..	..	..
	Arca (?) **sp.**	..	..	..	..	..	..	..	×	×	..	..	.. ..	×	..	..	..	..	..
	Aviculopecten granosus (J. de C. Sowerby.)	×	..	..	..	..	..	..	..	..	..	..	e. ..	..	..	..	..	..	..
	„ **multiradiata** (Eth. sen.)	..	×	..	..	..	..	..	..	..	..	..	.. ..	×	..	..	..	..	..
	„ **Sprenti** (Johnst.)	..	..	..	..	..	..	..	×	×	..	..	r.S.v. ..	×	×	..	..	..	..
W	„ **tenuicollis** (Dana)	×	×	×	..	×	×	..	×	×	..	..	g.I.P.r.u.v	×	..	..	..	×	..
	„ **spp.**	..	×	×	..	×	×	×	×	×	×	..	e.h.i.n.o.r. S.v.	×	..	..	..	..	..
	Cardiomorpha oblonga (Sowerby)	×	..	..	..	..	..	..	..	..	..	..	e. ..	..	..	..	..	..	..
	Chænomya (?) **sp.**	..	..	..	..	..	..	..	×	×	..	..	.. ..	×	..	..	..	..	..
	Conocardiam (Pleurorhynchus) sp.	×	..	..	..	..	..	..	×	×	..	..	e.r.s.v.	×	..	..	..	..	..
	„ „ (?) **sp.**	..	..	..	..	..	..	..	×	×	..	..	.. ..	×	..	..	..	..	..
	Conocardiam Hibernicum (?) (Sowerby)	×	..	..	..	..	..	..	..	..	..	..	e. ..	..	..	..	..	..	..
W	**Deltopecten (Aviculopecten) Illawarensis** (Morris) (?)	..	×	..	..	..	×	×	..	..	..	..	d.o. ..	×	..	..	..	..	..
	„ „ **leniusculus** (Dana)	..	×	..	..	..	..	..	..	..	..	..	.. ..	×	..	..	..	..	..
W	„ „ **limæformis** (Morris)	..	×	..	×	..	×	..	..	..	..	..	d.o. ..	×	..	..	..	..	..
	„ „ **subquinque lineatus** (McCoy)	..	..	..	..	..	..	..	..	..	×	..	n.r.S.v.	×	×	..	..	..	..
	„ **spp.**	..	..	..	..	..	..	..	..	×	×	..	h. ..	×	..	..	×(?)	..	..
W	**Edmondia spp.**	×	..	..	..	..	..	..	×	×	×	..	g.i.o.v.	×	..	..	..	..	..
W	**Modiola spp.**	×	..	..	..	..	..	..	×	×	×	..	i.n.o.r.S.v	×	..	..	..	..	..
	Myalina (?) **Mingenewensis** (Eth. fil.)	..	..	..	..	..	..	..	..	..	×	..	n.r.S.v.	×	×	..	..	..	..
	„ **spp.**	..	×	..	..	..	×	×	..	..	×	..	.. ..	×	×	..	..	..	..
	Mytilops (?) **sp.**	..	..	..	..	..	..	..	..	..	×	..	.. ..	×	..	..	..	..	..

	Genus and Species.	Locality.											Reference.	Exhibited.					
	Order Prionodesmacea—*contd.*	Kimberley.	Gascoyne.	Minilya River.	Lyons River.	Wyndham River.	Gascoyne River.	Wooramel River.	Irwin.	Irwin River Coal.	Mingenew P.C.	Collie Coalfield.		Geol. Surv. Museum.	Australian Museum	Victorian Museum.	Dept. of Mines, N.S.W. Museum.	British Museum.	Geol. Soc. Lond. Museum.
	Mytilus spp.	×	..	..	..	..	..	..	..	..	×	..	e. ..	×	..	..	..	..	..
	„ **sp.** (*or* **Modiomorpha**)	..	..	..	..	..	..	..	..	..	×	..	.. ..	×	×	..	..	..	..
	Parallelodon (**Palæarca**) **subarguta** (De Kon.)	×	..	..	..	..	..	..	×	..	..	..	g.h. ..	×	..	..	(?)	..	..
	„ **sp.** (**Macrodon sp.**)	..	..	..	..	..	..	..	×	..	..	..	.. ..	×	..	..	..	..	..
	Pterinea (Merismoptera) macroptera (Morris)	×	..	..	..	..	..	..	..	..	..	..	g. ..	..	..	..	(?)	..	..
	Sanguinolites *c.f.* Hibernicus (Hind)	..	..	..	..	..	..	..	×	..	..	..	q. ..	..	..	×	..	..	..
W	„ **sp.**	..	..	..	..	..	..	..	×	×	×	..	i.o.v. ..	×	..	..	..	..	..
	Stutchburia *c.f.* **Randsi** (Eth. fil.)	..	..	..	..	..	..	..	..	×	..	..	v. ..	×	..	..	..	..	..
	„ **sp.**	..	..	..	..	..	..	..	..	×	..	..	r.S.v. ..	×	..	..	..	..	..
	Order Anomalodesmacea.																		
	Allorisma *c.f.* curvatum (Morris)	...	..	..	..	..	...	..	×	..	..	..	q. ..	..	..	×	..	..	..
	„ *c.f.* maximum (Portl.)	..	..	..	..	..	..	..	×	..	..	..	q. ..	..	..	×	..	..	..

	Order Teleodesmacea.																		
	Curtonotus elegans (Salter) ..	×	..	..	..	..	..	..	..	..	..	..	e. ..	..	..	..	..	..	..
W	**Pleurophorus (Pachydomus) carinatus** (1) (Morris)	..	×	..	..	..	..	×	×	..	..	..	i.j.o. ..	×	..	..	..	..	..
	,, ,, **spp.**	×	..	..	..	..	..	..	×	..	..	..	g.h.v. ..	×	×	..	(?)	..	..
	Class Gastropoda. Sub-Class Streptoneura. Order Aspidobranchia. Sub-Order Rhipidoglossa.																		
	Baylea (Ivania) Levellii (De Kon.)	..	..	..	..	..	..	..	×	..	..	..	.. ..	×	..	..	..	..	..
	Bellerophon costatus (J. de C. Sowerby)	..	..	..	..	..	..	..	×	×	..	..	r.S.v. ..	×	..	..	..	..	..
W	,, **decussatus** (Flem.) (?)	..	..	..	..	..	..	..	×	..	..	..	i.j.o. ..	×	..	..	..	..	..
	,, *Urei* (Flem.)	×	..	..	..	..	..	..	..	..	..	..	*e.* ..	..	..	..	..	..	..
	,, **sp.**	×	..	..	..	..	..	..	×	×	..	..	e.v. ..	×	..	..	..	..	..
W	**Euomphalus spp.**	×	..	..	..	..	..	..	×	..	..	..	v. ..	×	..	..	..	..	..
	,, (?) **spp.**	×	..	..	..	..	..	..	×	..	..	..	I. ..	×	..	..	..	×	..
	Euphemus Orbignii (Portl.) ..	×	..	..	..	..	..	..	..	..	..	..	g. ..	..	..	..	(?)	..	..
	Mourlonia (Pleurotomaria) humilis (De Kon.)	×	..	..	..	..	..	..	..	..	..	..	g. ..	..	..	..	(?)	..	..
	Pleurotomaria spp.	×	..	..	..	..	..	..	..	×	..	..	e.o.r.v...	×	..	..	..	..	×
W	,, (?) **sp.** ..	×	..	..	..	..	..	..	..	..	..	..	e.I.o.r...	..	..	..	..	×	..
	Ptychomphalina Maitlandi (Eth. fil.)	..	×	×	..	..	..	..	..	..	×	..	n.P.u. ..	×	..	..	..	..	..
	,, **sp.**	..	..	..	..	..	..	..	..	..	×	..	.. ..	×	..	..	..	..	..

(1) Or Mæonia carinata (Morris) fide Eth. fil. Geol. and Pal., Queensl., p. 283.

	Genus and Species.	Locality.											Reference.	Exhibited.					
	Order Ctenobranchia. Sub-Order Platypoda.	Kimberley.	Gascoyne.	Minilya River.	Lyons River.	Wyndham River.	Gascoyne River.	Wooramel River.	Irwin.	Irwin River Coal.	Mingenew P.C.	Collie Coalfield.		Geol. Surv. Museum.	Australian Museum.	Victorian Museum.	Dept. of Mines, N.S.W. Museum.	British Museum.	Geol. Soc. Lond. Museum.
	Acroculia (Platyceras) sp. ..	..	..	..	..	..	..	..	×	×	..	..	v. ..	×	..	..	..	..	..
	Loxonema sp.	×	..	..	..	..	..	..	..	..	..	..	e.o.r. ..	..	..	..	..	..	..
	Natica sp.	×	..	..	..	..	..	..	..	..	..	..	e.o.r. ..	..	..	..	..	..	..
	Class Cephalopoda. Sub-Class Tetrabranchiata. Order Nautiloidea. Sub-Order Orthochoanites.																		
	Cæloanutilus Chesterensis (De Kon.)	..	..	..	..	..	..	..	..	×	..	..	.. ..	×	..	..	..	..	..
W	**Discites** *c.f.* **Omalianus** (De Kon.)	..	..	..	..	..	..	..	×	..	..	..	i.j.o. ..	×	..	..	..	..	..
	,, **sp.**	..	..	..	..	..	..	..	×	..	..	..	i.j.o. ..	×	..	..	..	..	..
	Nautilus (?) **sp.** (*Mesozoic* ?) ..	..	..	..	..	..	..	..	..	×	..	..	.. ..	..	..	..	..	..	×
W	**Orthoceras spp.**	×	..	..	..	..	..	..	×	×	..	..	e.i.j.o.v.	×	..	..	..	×	..

	Sub-Order Cyrtochoanites.																						
	Actinoceras sp.	×	..	..	..	..	..	..	..	..	..	..	..	..	..	×	..	..	..	..	..		
	Order Ammonoidea. Sub-Order Eurycampyli.																						
	Gastrioceras Jacksoni (Eth. fil.)	..	..	..	..	..	..	..	×	..	..	..	r.S.	..	×	..	..	..	..	..				
	Glyphioceras sphæricum (Goldf.)	×	..	..	..	..	..	..	..	..	..	..	e.	..	×	..	..	..	..	..				
	„ **sp.**	×	..	..	..	..	..	..	..	..	..	..	e.	..	×	..	..	..	..	..				
	„ (?) sp.	×	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	×	..			
	Sub-Order Phyllocampyli.																						
W	**Agathiceras micromphalum** (Morris)	×	..	..	..	..	..	..	×	..	..	..	l.q.	..	×	..	×	..	×	..				
	Sub-Order Pachycampyli.																						
	Brancoceras sp.	×	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	×	..			
	Sub-Kingdom ARTHROPODA. Class Crustacea. Sub-Class Trilobita. Order Opisthoparia.																						
	Phillipsia grandis (Eth. fil.) ..	..	×	..	..	..	×	..	..	..	..	..	..	..	..	..	..	..	×	..	..			

CARBONIFEROUS—*continued.*

	Genus and Species.	Locality.											Reference.	Exhibited.					
	Super-Order Ostracoda.	Kimberley.	Gascoyne.	Minilya River.	Lyons River.	Wyndham River.	Gascoyne River.	Wooramel River.	Irwin.	Irwin River Coal.	Mingenew P.C.	Collie Coalfield.		Geol. Surv. Museum.	Australian Museum	Victorian Museum.	Dept. of Mines, N.S.W. Museum.	British Museum.	Geol. Soc. Lond. Museum.
	Various species	..	× ..	..	..	..	×	..	..	..	..	..	.. ..	×	..	..	..	..	..
	Crustacean tracks (?)	..	×	×	..	..	..	..	..	..	..	..	n.P. ..	×	..	..	..	..	..
	VERTEBRATA. Class Pisces. Sub-Class Selachii.																		
W	**Edestus Davisii** (H. Woodw.) ..	..	× ..	..	..	..	×	..	..	..	..	..	F.o. ..	×	..	..	..	..	..
	Pœcilodus Jonesi (Ag.) ..	×	.. ..	..	..	..	..	..	..	..	..	..	c. ..	..	..	..	..	..	..
	Small tooth	×	.. ..	..	..	..	..	..	..	..	..	..	c.v. ..	×	..	..	..	..	..

PART II.

Mesozoic Fossils.

Rocks containing animal remains of Mesozoic age cover a fair percentage of the sedimentary area of the State. The beds consist for the most part of yellowish, reddish, or brownish ferruginous sandstones, occasionally containing a large amount of calcareous matter, and even passing into yellowish limestone bands that are highly crystalline and full of fossils, all showing a typically Jurassic facies. Naturally the sandstones, though often very fossiliferous, are not remarkable for the good state of preservation of the animal remains they contain. Still, numerous excellent specimens have been obtained by the officers of this Department and have been incorporated in the Geological Survey Collection, now on exhibit in the Geological Gallery of the Western Australian Museum.

One of the earliest geological observers in the colony, F. T. Gregory, reported the presence of the Cretaceous strata near Gin Gin, in the form of chalk, and records the collection of Ammonites, etc., from the beds, thus giving them a truly Mesozoic facies. Subsequent authorities seem to have placed little faith in this discovery, reported in the Q. J. G. S., Vol. XVI. 1861, pp. 475–483, especially as one of the Lamellibranchs (Pelecypods) was found to be a truly Jurassic form, *Trigonia Moorei* (Lycett). There seems little doubt, however, that these beds are homotaxial with the Cretaceous of Europe when the whole of the known Gingin fauna is considered. (*Vide* Article VIII., p. 115, *et. seq*).

In this portion of the list, the same general plan adopted in Part 1 has been followed, but it has been thought advisable to introduce a column for doubtful or vague localities which are distinguished as under :—

"Western Australia"	1
Champion Bay	2
Gascoyne River District	3

JURASSIC ONLY.

Genus and Species.	Locality.										Reference.	Exhibited.					
Sub-Kingdom PROTOZOA. Class Rhizopoda. Order Foraminifera.	Shark Bay.	Moresby Range.	Greenough R.	Tibraddon.	Moonyoonooka.	Sandspring.	Woolanooka.	Snake Farm.	Mount Hill.	Doubtful Locs.		Geol. Surv. Museum.	Australian Museum	Victorian Museum.	Bath Museum.	British Museum.	Geol. Soc. Lond. Museum.
Bulimina Gregorii (Chapm.)	..	..	×	..	..	..	..	..	..	..	Q.	..	..	×	..	..	..
Cristellaria costata *var.* compressa (Chapm.)	..	..	×	..	..	..	..	..	..	..	Q.	..	..	×	..	..	..
„ „ *var.* seminuda (Chapm.)	..	..	×	..	..	..	..	..	..	..	Q.	..	..	×	..	..	..
„ cultrata *var.* radiata (Moore)	..	..	..	..	..	..	..	..	..	1	b.(c.)o.	..	..	..	×	..	..
„ Daintreei (Chapm.) ..	..	..	×	..	..	..	..	..	..	..	Q.	..	..	×	..	..	..
„ decipiens (Wisnow.) ..	..	..	×	..	..	..	..	..	..	..	Q.	..	..	×	..	..	..
„ *c.f.* limata (Schw.) ..	..	..	×	..	..	..	..	..	..	..	Q.	..	..	×	..	..	..
„ prominula (Reuss) ..	..	..	×	..	..	..	..	..	..	..	Q.	..	..	×	..	..	..
„ rotulata (Lamarck) ..	..	..	×	..	..	..	..	..	..	..	Q.	..	..	×	..	..	..
„ subalata (Reuss)	..	..	×	..	..	..	..	..	..	..	Q.	..	..	×	..	..	..
Discorbina rosacea (D'Orb.)	..	..	×	..	..	..	..	..	..	..	Q.	..	..	×	..	..	..
Flabellina dilatata (Wisnow.) ..	..	..	×	..	..	..	..	..	..	..	Q.	..	..	×	..	..	..
Haplophragmium neocomianum (Chapm.)	..	..	×	..	..	..	..	..	..	..	Q.	..	..	×	..	..	..
Marginulina compressa (D'Orb.) ..	..	..	×	..	..	..	..	..	..	..	Q.	..	..	×	..	..	..
„ solida (Terquem) ..	..	..	×	..	..	..	..	..	..	..	Q.	..	..	×	..	..	..
Polymorphina burdigalensis (D'Orb.)..	..	..	×	..	..	..	..	..	..	..	Q.	..	..	×	..	..	..
„ compressa (D'Orb.) ..	..	..	×	..	..	..	..	..	..	..	Q.	..	..	×	..	..	..
„ gutta (D'Orb.) ..	..	..	×	..	..	..	..	..	..	..	Q.	..	..	×	..	..	..

	Textularia crater (Chapm.)	..	..	×	..	..	..	..	..	..	..	Q.	..	..	×	..	..	..
	Truncatulina Wuellerstorfi (Schw.) ..	..	..	×	..	..	..	..	..	..	..	Q.	..	..	×	..	..	..
	Vaginulina intumescens (Reuss) ..	..	..	×	..	..	..	..	..	..	..	Q.	..	..	×	..	..	..
	„ lata (Corn.)	..	..	×	..	..	..	..	..	..	..	Q.	..	..	×	..	..	..
	„ Schloenbachi *var.* interrupta (Reuss)	..	..	×	..	..	..	..	..	..	..	Q.	..	..	×	..	..	..
	„ strigillata (Reuss.) ..	..	..	×	..	..	..	..	..	..	..	Q.	..	..	×	..	..	..
	Sub-Kingdom ECHINODERMATA. Sub-Branch Pelmatozoa. Class Crinoidea. Order Articulata.																	
	Pentacrinus spp.	..	×	..	..	..	..	..	..	..	1	b.	..	..	..	×	..	..
	Sub-Branch Echinozoa. Class Echinoidea.																	
W	*Spines of Echini*	..	..	..	..	..	..	..	..	..	1	b.	..	..	..	..	..	..
	Sub-Kingdom VERMES. Sub-Order Tubicola (Sedentaria).																	
W	**Serpula conformis** (Goldf.)	..	..	..	×	..	..	..	..	..	..	T.	×	..	..	..	..	..
W	„ spp.	..	×	..	..	..	..	..	..	..	..	a.b.	..	..	..	×	..	..
	Sub-Kingdom MOLLUSCOIDEA. Class Bryozoa.																	
W	*Bryozoa*	×	×	..	..	..	..	..	..	..	..	b.	..	..	..	..	..	..

	Genus and Species.	Locality.										Reference.	Exhibited.					
	Class Brachiopoda. Order Telotremata.	Shark Bay.	Moresby Range.	Greenough R.	Tibraddon.	Moonyoonooka.	Sandspring.	Woolanooka.	Snake Farm.	Mount Hill.	Doubtful Locs.		Geol. Surv. Museum.	Australian Museum	Victorian Museum.	Bath Museum.	British Museum.	Geol. Soc. Lond. Museum.
W	**Rhynchonella variabilis** (Schl.) ..	×	×	..	..	×	..	..	×	×	1	a.B.c.o.T.	×	..	..	×	..	..
	„ *c.f.* solitaria (Moore) ..	..	×	..	..	..	..	..	..	..	..	.. ..	..	..	×	..	..	..
	„ spp.	..	×	×	..	..	..	..	..	..	1	a.b. ..	..	..	..	×	..	..
	Sub-Kingdom MOLLUSCA. Class Pelecypoda. Order Prionodesmacea.																	
	Arca sp.	..	×	..	..	..	..	..	..	..	..	a. ..	..	..	..	..	..	..
W	**Alectryonia (Ostrea) Marshii** (Sowerby)	×	×	×	×	×	×	×	..	×	..	a.b.c.o.T.	×	×	..	..	..	..
	„ „ c.f.Marshii (Sowerby)	..	×	×	..	..	..	..	..	..	..	.. ..	..	..	×	..	..	..
	Avicula æqualis (Moore)	..	×	..	..	..	..	..	..	..	..	(c.) ..	×	..	..	×	..	..
	„ (Maccoyella) Barklyi (Moore)	..	..	..	..	..	..	..	..	..	1	B.(c.) ..	..	..	..	×	×	..
W	„ *echinata* (Sowerby)	..	×	×	..	..	..	..	..	..	..	b.c.o. ..	..	..	..	..	..	..
W	„ *inæquivalvis* (Sowerby) ..	..	×	..	..	..	..	..	..	..	1	b.c.o. ..	..	..	..	..	..	..
W	„ *Munsteri* (Bronn.)	..	×	..	..	..	..	..	..	..	..	a.b.c.o.	..	..	..	..	..	..
	„ spp.	..	×	..	..	..	..	..	..	..	..	a. ..	..	..	..	..	..	..
	Ctenostreon (Lima) pectiniformis (Schl.)	..	×	×	×	×	×	×	..	×	2	r.Q.T. ..	×	×	×	×	..	..
	Cucullæa inflata (Moore)	..	..	×	..	..	..	..	..	..	..	B.c.o. ..	..	..	..	×	..	..
	„ *c.f.* **inflata** (Moore).. ..	..	..	..	..	..	×	..	..	..	..	T. ..	×	×	..	..	..	..

W	„ oblonga (Sowerby)	..	×	×	..	..	..	..	..	..	..	1	b.c.o.	..	..	..	..	×	..	..
W	„ **semistriata** (Moore)	..	..	×	×	×	×	×	×	..	×	2	B.c.o.q.r.T	×	×	×	×	..	..
	„ *c.f.* **semistriata** (Moore)	..	..	..	..	..	..	..	..	..	×	..	.. ..	×	..	..	..	..	..
	„ **tibraddonensis** (Eth. fil.)	..	..	..	..	×	..	×	..	..	..	..	T. ..	×	×	..	..	..	..
	„ **spp.**	..	×	×	×	..	×	×	..	..	×	1	a.b.T. ..	×	..	..	×	..	..
	Gryphæa spp.	..	..	×	×	..	×	..	..	..	..	2	r. ..	×	..	×	..	..	..
	Hinnites sp.	..	..	×	..	..	..	..	..	..	..	..	a. ..	..	..	..	..	..	..
	Lima Gordonii (Moore) ..	..	..	..	..	..	..	..	..	..	..	1	B. ..	..	..	..	..	×	..
W	„ proboscidea (Sowerby)	..	×	×	..	..	..	..	..	..	..	1	a.b.c.o.	..	..	..	×	..	..
W	„ punctata (Sowerby) ..	..	×	..	..	..	..	..	..	..	..	1	b.c.o. ..	..	..	..	×	..	..
	„ *spp.*	..	..	×	×	..	..	..	..	..	×	2	a.b.r. ..	..	..	..	..	..	..
	Modiola Maitlandi (Eth. fil.) ..	..	..	..	..	×	×	×	..	..	×	..	T. ..	×	×	..	..	..	..
	Mytilus c.f. gygerensis (D' Orb.)	..	..	..	..	..	..	..	..	..	..	2	a.r. ..	..	..	..	..	..	..
	„ *sp.*	..	..	×	..	..	..	..	..	..	..	..	a. ..	..	..	..	..	..	..
	Nucula sp.	..	..	×	..	..	..	..	..	..	..	..	a. ..	..	..	..	..	..	..
	Ostrea tholiformis (Eth. fil.) ..	..	..	..	..	×	×	×	×	×	×	..	T. ..	×	×	..	..	..	..
	„ *c.f.* **tholiformis** (Eth. fil.)	..	..	..	..	..	×	..	..	×	×	..	.. ..	×	..	..	..	..	..
	„ **spp.**	..	..	..	×	×	×	×	..	..	×	..	b.T. ..	×	..	..	..	..	..
	„ **sp.** (very small) ..	..	..	×	..	..	..	..	..	..	×	..	a. ..	×	..	..	..	..	..
W	Pecten calvus (Goldf.) ..	..	×	×	..	..	..	..	..	..	..	1	b.c.o. ..	..	..	..	×	..	..
W	„ **cinctus** (Sowerby) ..	..	×	×	×	×	×	×	×	×	×	1	b.c.o.q.T.	×	×	×	×	..	..
	„ *c.f.* **frontalis** (Dum.) ..	..	..	..	×	..	×	..	..	..	..	..	r. ..	×	..	..	..	..	..
	„ **Greenoughiensis** (Moore)	..	..	..	×	..	..	..	..	..	×	..	B.c.o. ..	×	..	..	..	..	..
	„ **valoniensis** (Defr.) ..	..	..	..	..	..	..	..	..	..	..	3	.. ..	×	..	..	..	..	..
	„ *c.f. vesicularis* ..	..	..	×	..	..	..	..	..	..	..	..	a. ..	..	..	..	..	..	..
	„ **spp.**	..	..	×	..	×	×	×	..	..	..	..	a.T. ..	×	×	..	..	..	×
	„ **sp.** (*or* **Ctenostreon sp.**)	..	..	..	..	×	..	..	..	..	..	..	.. ..	×	..	..	..	..	..
	Perna sp. (*or* **Inoceramus sp.**) ..	..	..	..	..	×	..	..	..	..	..	..	.. ..	×	..	..	..	..	..
W	*Plicatula sp.*	..	..	×	..	..	..	..	..	..	..	1	b. ..	..	..	..	..	..	..
W	**Radula (Lima) duplicata** (Sowerby) ..	..	..	×	..	×	..	×	..	×	×	1	b.c.T. ..	×	..	..	×	..	..
	„ „ *sp.*	..	..	×	..	..	..	..	..	..	×	..	a. ..	..	..	..	..	..	..
W	**Trigonia Moorei** (Lycett)		×	×	×	×	×	×	×	×	×	3	B.c.o.q.r. T.	×	×	×	×	×	..
	„ *costata* (Clarke) (? *Moorei*) (Lyc)	..	×	..	..	..	..	..	..	..	..	..	a. ..	..	..	..	..	..	..
	„ sp.	..	×	..	..	..	..	..	..	..	..	..	a. ..	..	..	..	..	..	×

	Genus and Species.	Locality.										Reference.	Exhibited.					
	Order Anomalodesmacea.	Shark Bay.	Moresby Range.	Greenough R.	Tibraddon.	Moonyoonooka.	Sandspring.	Woolanooka.	Snake Farm.	Mount Hill.	Doubtful Locs.		Geol. Soc. Lond. Museum.	Australian Museum	Victorian Museum.	Bath Museum.	British Museum.	Geol. Soc. Lond. Museum.
W	Gresslya donaciformis (Phill.) ..	×	..	×	..	..	..	..	..	..	1	b.c.o. ..	..	..	..	×	..	..
	,, *sp.*	..	..	..	..	..	..	..	..	..	2	b.r. ..	..	..	..	..	..	..
	,, (?) sp.	..	..	..	..	..	..	..	..	..	1	.. ..	..	..	..	×	..	..
	Homomya (?) sp,.	..	..	..	..	..	..	..	..	..	1	b.(c.) ..	..	..	..	×	..	..
W	**Myacites liassianus** (Quenst.)	×	..	..	..	..	..	..	..	..	1, 2	b.c.o. ..	×	..	..	×	..	..
W	,, **Sanfordii** (Moore)	..	..	×	..	×	..	..	..	×	1, 2	B.c.o.r.	×	×	..	×	..	..
	,, spp.	×	×	×	..	..	..	..	..	..	..	a.b. ..	..	..	..	×	..	..
W	**Pholadomya ovulum** (Agassiz) ..	×	..	×	..	..	..	..	..	..	1	b.c.o. ..	×	..	..	..	..	..
	,, *sp.*	..	×	..	..	..	..	..	..	..	..	a.b. ..	..	..	..	..	..	..
	Pleuromya sp. (?)	..	..	×	..	×	..	..	..	..	2	r. ..	×	..	..	..	..	..
	Order Teleodesmacea.																	
W	*Astarte apicalis* (Moore)	..	..	×	..	..	..	..	..	..	..	B.c.o. ..	..	..	..	..	..	..
W	,, **Cliftoni** (Moore)	×	..	×	×	×	..	×	..	×	2	B.c.o.q.r. T.	×	×	×	..	..	..
	,, **spp.**	×	×	×	..	..	..	..	..	×	2	a.b. ..	×	..	..	×	..	..

W	*Cardium sp.*	..	×	..	..	..	..	..	..	..	..	a.b.o.	..	..	..	..	..	..
W	Cypricardia sp.	×	..	..	..	..	..	..	..	..	..	b.o.	..	..	..	×	..	..
W	Isocardia sp.	×	..	..	..	..	..	..	..	..	..	b.o.	..	..	..	×	..	..
	Lucina sp. (? *Pseudavicula*, Eth. fil.)	..	×	..	..	..	..	..	..	..	..	a.	..	..	..	..	..	..
	Opis sp.	..	×	..	..	..	..	..	..	..	..	a.	..	..	..	..	..	..
	Panopæa (Glycimeris) rugosa (Moore)	..	..	..	..	..	..	..	..	..	2	..	..	×	..	..	..	..
	„ **sp. nov.**	..	..	..	..	..	..	..	..	..	2	..	..	×	..	..	..	..
	„ **sp.**	..	×	..	..	..	..	..	..	..	3	..	..	×	..	..	..	..
W	Tancredia plana (?) (Moore)	..	×	×	..	×	..	..	..	..	..	b.(c.)o.	..	×	..	..	..	..
W	Teredo (Pholas) Australis (Moore)	×	×	..	..	..	..	..	..	..	1	a.B.c.o.	..	..	..	×	..	..
W	*Unicardium sp.*	..	×	..	..	..	..	..	..	..	..	b.o.	..	..	..	..	..	..
	„ (?) sp.	..	×	..	..	..	..	..	..	..	..	*b.*	..	..	..	..	..	..
	Class Scaphopoda. Family Dentaliidæ.																	
	Dentalium sp.	..	×	..	..	..	..	..	..	..	..	a.	..	..	..	..	..	..
	Class Gastropoda. Order Aspidobranchia. Sub-Order Rhipidoglossa.																	
W	*Amberleya sp.*	..	×	..	..	..	..	..	..	..	..	b.o.	..	..	..	..	..	..
W	Phasianella sp.	×	..	..	..	..	..	..	..	..	1	b.o.	..	..	..	×		..
	Pleurotomaria Greenoughiensis (Eth. fil.)	..	..	..	..	..	×	..	..	..	..	T.	..	×	..	..	..	..
	„ **sp.**	..	..	..	×	..	..	..	..	..	..	..	..	×	..	..	..	..
W	*Trochus sp.*	..	×	..	..	..	..	..	..	..	..	b.o.	..	..	..	..	..	..
	Turbo Australis (Moore)	×	..	×	..	..	..	..	..	..	..	B.c.o.	..	..	..	×	..	..
W	„ *lævigatus* (Sowerby)	..	×	×	..	..	..	..	..	..	..	b.c.o.	..	..	..	..	..	..
	„ *sp.*	..	×	..	..	..	..	..	..	..	..	a.b.	..	..	..	..	..	..

	Genus and Species.	Locality.										Reference.	Exhibited.					
	Order Ctenobranchiata. Sub-Order Platypoda.	Shark Bay.	Moresby Range.	Greenough R.	Tibradden.	Moonyoonooka.	Sandspring.	Woolanooka.	Snake Farm.	Mount Hill.	Doubtful Locs.		Geol. Surv. Museum.	Australian Museum	Victorian Museum.	Bath Museum.	British Museum.	Geol. Soc. Lond. Museum.
W	*Cerithium Greenoughiensis* (Moore) ..	×	..	×	..	..	..	..	..	..	..	B.c.o. ..	..	..	..	..	..	..
	,, *sp.*	..	×	..	..	..	..	..	..	..	..	b. ..	..	..	..	..	..	..
	Chemnitzia sp.	..	×	..	..	..	..	..	..	..	..	a. ..	..	..	..	..	..	..
W	*Eulima* (?) *sp.*	..	×	..	..	..	..	..	..	..	..	b.o. ..	..	..	..	..	..	..
	Nerinæa sp.	..	×	..	..	..	..	..	..	..	..	a. ..	..	..	..	..	..	..
W	Rissoina Australis (Moore)	×	..	×	..	..	..	..	..	..	..	B.c.o. ..	..	..	..	×	..	..
	Order Opisthobranchia. Sub-Order Tectibranchiata.																	
	Actæon depressus (Moore)	×	..	..	..	..	..	..	..	..	..	B. ..	..	..	..	×	..	..
	Class Cephalopoda. Sub-Branch Tetrabranchiata. Order Nautiloidea. Sub-Order Orthochoanites.																	
W	**Nautilus perornatus** (Crick) (1) ..	×	×	×	×	×	..	..	×	×	2	b.c.L.o.r.t.	×	×	..	..	×	..
	,, *sinuatus* (Sowerby) (?) ..	..	×	..	..	..	..	..	..	..	1	a.c.o. ..	..	..	..	..	..	..
	,, spp.	×	×	..	..	..	..	..	..	..	..	a. ..	..	..	..	×	×	×

	Order Ammonoidea.																	
	Ammonites lautus	..	..	×	..	..	..	..	..	..	..	.. ..	..	..	..	..	..	×
W	„ Walcottii (Sowerby) ..	×	..	×	..	..	..	..	..	..	..	b.c.o. ..	..	..	..	×	..	..
W	„ **(Dorsetensia) Clarkei** (Crick) (2)	×	×	×	×	×	..	×	×	×	2	a.B.c.L.O., r.T.	×	×	×	..	×	..
	„ **(Dorsetensia) sp.** ..	..	..	..	..	..	..	..	×	..	..	.. ..	×	..	..	..	..	..
W	„ (Dumortieria) Moorei (Lycett)	×	×	×	..	..	..	..	..	..	..	a.B.c.l.o.	..	..	..	×	..	..
	„ (Macrocephalites) macrocephalus (3) (Schlot)	×	×	×	×	..	..	..	..	..	..	B.c. ..	..	..	..	×	..	..
	„ (Macrocephalites) sp. ..	..	..	×	..	..	..	..	..	..	..	.. ..	..	..	..	×	..	..
	„ **(Perisphinctes) Championensis** (Crick)	..	..	×	×	×	..	..	..	×	2	L.o.Q.r.t.	×	..	×	..	×	..
	„ (Perisphinctes) robiginosus (Crick)	..	..	..	..	..	..	..	..	..	2	L.o.r. ..	..	..	..	..	×	..
W	„ **(Sphæroceras) semiornatus** (4) (Crick)	..	..	..	×	..	..	..	..	..	2	B.c.L.o.r. T.	×	..	..	×	×	..
	„ (Sphæroceras) (?) Woodwardi (Crick)	..	..	..	..	..	..	..	..	..	2	L.o.r. ..	..	..	..	..	×	..
	„ (Stephanoceras) Australis (Crick)	..	×	×	..	×	..	..	..	×	2	L.o.q.r.	..	×	×	×	×	..
	„ (Normannites) Australis (Crick) (*fide* Chapman)																	
	„ (Normannites) sp. ..	×	..	..	..	..	..	..	..	..	2	L. ..	..	..	..	..	×	..
	„ spp.	×	×	..	×	×	..	×	..	×	..	b. ..	×	..	..	×	..	..
	Sub-Class Dibranchiata. Sub-Order Belemnoidea.																	
W	**Belemnites canaliculatus** (Schl.) ..	×	×	×	..	..	..	×	..	×	..	a.B.c.o.	×	..	..	×	..	..
	„ **c.f. canaliculatus** (Schl.) ..	..	..	×	..	..	..	..	..	×	..	a. ..	×	..	×	..	..	..
(?)	„ **Canhami** (Tate)	..	..	..	..	..	..	..	..	..	2	.. ..	×	..	..	..	..	..
	„ **sp.**	..	..	×	×	×	×	..	×	×	2, 3	a.L.o.r.	×	×	..	..	×	..

(1.) This is the N. semistriatus of Moore; *vide* Crick. Geol: Mag., Dec. IV., Vol. 1 (1894), p. 387. (2.) This is the A. radians of Moore's paper; Crick. *op. cit.*, pp. 388-391. (3.) *Vide* Stephanoceras Australe Crick. *op. cit.* p. 391. (4.) his is the A. Brocchii of Moore's paper Crick. *op. cit.*, p. 435.

JURASSIC ONLY—*continued.*

	Genus and Species.	Locality.										Reference.	Exhibited.					
	Sub-Kingdom ARTHROPODA. Class Crustacea. Sub-Class Eucrustacea. Super-Order Ostracoda.	Shark Bay.	Moresby Range.	Greenough R.	Tibradden.	Moonyoonooka.	Sandspring.	Woolanooka.	Snake Farm.	Mount Hill.	Doubtful Locs.		Geol. Surv. Museum.	Australian Museum	Victorian Museum.	Bath Museum.	British Museum.	Geol. Soc. Lond. Museum.
	Cythere corrosa var. grossepunctata (Chapm.)	..	..	×	..	..	..	..	..	..	..	Q. ..	..	..	×	..	..	..
	,, drupacea var. fortior (Chapm.)	..	..	×	..	..	..	..	..	..	..	Q. ..	..	..	×	..	..	..
	,, lobatula (Chapm.)	..	..	×	..	..	..	..	..	..	..	Q. ..	..	..	×	..	..	..
	Cytheropteron australiense (Chapm.)	..	..	×	..	..	..	..	..	..	..	Q. ..	..	..	×	..	..	..
	Loxoconcha elongata (Chapm.) ..	..	..	×	..	..	..	..	..	..	..	Q. ..	..	..	×	..	..	..
	,, jurassica (Chapm.) ..	..	..	×	..	..	..	..	..	..	..	Q. ..	..	..	×	..	..	..
	Paradoxorhyncha foveolata (Chapm.)	..	..	×	..	..	..	..	..	..	..	Q. ..	..	..	×	..	..	..
W	*Ostracoda—Species of*	..	..	..	..	..	..	..	..	..	1	b. ..	..	..	..	..	..	..