

ART. V.—*Tabulated List of the Fossil Cheilostomatous Polyzoa in the Victorian Tertiary Deposits.*

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[Read 9th June, 1904.]

In compiling this list of the fossil Cheilostomatous Polyzoa found in the Victorian Tertiary deposits, I have followed Dr. MacGillivray's classification as given in his "Monograph of the Tertiary Polyzoa of Victoria."<sup>1</sup> In addition to my own observations I have included Dr. MacGillivray's records in his monograph, Mr. Waters' in the Q.J.G.S. for 1881, *et seq.*, and Mr. Mulder's in the "Geelong Naturalist" for March, 1904, distinguishing Dr. MacGillivray's records by an \*, Mr. Waters by a †, and Mr. Mulder's by a ‡. These records are, however, inserted only in cases where I have not observed the species in the different localities, and I have not deemed it necessary to indicate their records where they are the same as mine. I would here note that Dr. MacGillivray, in his records of the fossil species occurring in the Muddy Creek deposits (inserted in column 6), did not discriminate between the upper and lower beds, but I have included them so as to make the list as complete as possible, and also those of Mr. Waters from the same locality for the same reason. My records in that column are of specimens from the lower beds.

The total number of species recorded is 466, of which 125, or 28 per cent., are also living, though not all in Australian waters. The following is a summary of a comparison of the fossil and recent species.

The single species of Liriozoidae and Bigemellariidae are not found living. Of the 79 species of Catenicellidae recorded as fossil, 10 are also living in Victoria, one in South Africa, and one in the South Atlantic. Of Calwelliidae there is only one fossil species, and that is different from the recent ones. In the Cellulariidae there are 15 fossil species, 3 of which are living in Australia. There is only one fossil species of Bicellariidae; it is

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not recorded as living. There are 23 fossil species of Cellariidae, 3 of which are living in Australia, and one in the North Atlantic. There is only one fossil species of Flustridae, which is also living in Australia. There are 74 species of Membraniporidae, 23 of which are living, chiefly in Australian and South Pacific waters, one is found in the Mediterranean, one in the Canaries and Florida, one in the Falkland Islands and Kerguelen Island, and one ranges from Australian to European seas. There are 7 fossil species of Steganoporellidae, 3 of which are recorded as living, one on the coast of South America, Florida, New Zealand and Australia; another in Tahiti and Torres Straits, and another in Australia, New Zealand and Japan. None of the 8 fossil species of Microporidae are recorded as living. Of Cribrilinidae 16 species are recorded as fossil, one of which is living in Victoria, one in Bass Straits, one in European Seas, and one is cosmopolitan. There are 4 fossil species of Hiantoporidae, one of which is living in Victoria. Of Microporellidae 18 are found fossil and 9 of them are living, chiefly in Australian waters, but one extends to Florida, and two are cosmopolitan.

The family Lepraliidae is represented by 46 fossil species, two of them are found living in New Zealand, and six in Australian seas, two of which also occur in northern seas, and one occurs in the North Atlantic only. There are 55 species of Schizoporellidae, 15 of which are found in Australian seas, one of which also occurs in northern seas, one is cosmopolitan, one occurs in Patagonia, and one in China. Of the others, one is living in European seas, one in the North Pacific, and one in New Guinea. Of Smittiidae there are 65 fossil species, 20 of which are found living, 14 of them in Australian seas, 3 of which are also living in the northern hemisphere, 3 are living in the northern seas only, one in the Phillipine Islands, and one in Patagonia and the Falkland Islands. There are two fossil species of Tubucellariidae, one of which is living in Australian seas. In Prostomariidae the only species is a fossil one. There are 23 species of Celleporidae, 7 of which are also living on the Australian coast, one of which is also found in Florida. There are 25 fossil species of Reteporidae, 10 of them are living, 9 in the Australian seas, one of which is also found in Florida, but one is found only in European seas.



The almost purely Australian family Catenicellidae is very numerous represented, 79 species being recorded, and the number would no doubt be still further increased if a more diligent search were made for them; though it is surprising that so many specimens have been already found when their minuteness is considered, for the material I have received from several deposits had already been washed and cleaned, and the Catenicellidae had consequently vanished; this will account for their not being recorded from some of the localities. The fossil Cellariidae are also more numerous than the recent forms, and the Membraniporidae, Lepraliidae, Schizoporellidae and Smittiidae are also very largely represented. The Calwelliidae, Cellulariidae, Bicellariidae and Flustridae, being free growing and only slightly calcified, occur much less frequently in the deposits than do the more highly calcified and encrusting forms. The number of Celleporidae are probably much greater than is recorded, because their nature is such that, although specimens can be assigned to that family, it is in comparatively few cases they are sufficiently well preserved to permit of definite description.

#### FOSSIL SPECIES NOW LIVING IN AMERICA AND AFRICA.

- Catenicella taurina, Busk, South Africa.  
 Vittaticella sacculata, Busk, South Atlantic.  
 Cellaria biseriata, Map., North Atlantic.  
 Amphiblestrum annulus, Manz., sp., Falkland I. and Kerguelen I.  
 Cupularia canariensis, Busk, Canaries and Florida.  
 Farcimia oculata, Busk, Florida.  
 Thalamoporella rosieri, Aud., sp., S. America, Florida.  
 Escharipora stellata, Smitt, Florida.  
 Lepralia mucronata, Smitt, North Atlantic.  
 L. pertusa, Esper., North America, Europe.  
 Schizoporella phymatopora, Reuss, North Pacific.  
 S. ridleyi, McG., Patagonia.  
 Porella concinna, Busk, North America and Europe.  
 Smittia nitida, Verrill, Africa, North America and Mediterranean.  
 Aspidostoma crassum, Hincks, Patagonia, Falkland I.  
 Cellepora albirostris, Smitt, sp., Florida.



FOSSIL SPECIES NOW LIVING IN NORTHERN SEAS AND  
PACIFIC OCEAN.

- Membranipora bidens, Busk, sp., Mediterranean.  
Membranipora intermedia, Kirkpatrick, Torres Straits.  
Membranipora lineata, L., Northern seas.  
Membranipora macrostoma, Reuss, Phillipines.  
Lunulites guineensis, Busk, New Guinea.  
Steganoporella lateralis, McG., Tahiti and Torres Straits.  
Steganoporella magnilabris, Bk., Japan.  
Membranipora nitida, Johnston, European seas.  
Cribrilina radiata, Moll., sp., Cosmopolitan.  
Microporella ciliata, Linn., sp., Cosmopolitan.  
Microporella malusii, Aud., sp., Cosmopolitan.  
Lepralia depressa, Busk, Northern seas.  
Schizoporella auriculata, Hassall, European seas.  
Schizoporella biaperta, Michelin, sp., Northern seas.  
Schizoporella cecilii, Aud., sp., Cosmopolitan.  
Bipora elegans, D'Orb., China.  
Smittia collaris, Norm., European seas.  
Smittia reticulata, J. McG., sp., Europe.  
Mucronella porosa, Hincks., Phillipines.  
Rhyncopora bispinosa, Johnst., sp., Europe.

NORTHERN SEAS AND PACIFIC.

- Palmicellaria skenei, Ell. and Sol., Northern seas.  
Retepora beaniana, King, European seas.







Species.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	Other Localities.
C. crux, McG.	-	-	-	-	-	6	-	8†	-	-	11	-	-	14	15	16	-	Living; Victoria.
C. daedala, McG.	-	-	-	-	-	6*	-	-	-	-	11*	-	-	14†	15	16	-	
C. dennanti, Map.	-	-	-	-	-	6†	-	-	-	-	-	-	-	14†	15	16	-	
C. elegans, Busk	-	-	-	-	-	-	-	-	-	-	-	-	-	14†	15	16	-	
C. elegantissima, Map.	-	-	-	-	-	-	-	8†	-	-	11	-	-	14†	15*	-	-	
C. elongata, McG.	-	-	-	-	-	6	-	-	-	-	-	-	-	14†	15	-	-	
C. flexuosa, Waters	-	-	-	-	-	-	-	-	-	-	-	-	-	14†	15	-	-	
C. halli, Map.	-	-	-	-	-	-	-	-	-	-	11	-	-	14†	15	16	-	Living; Victoria.
C. hastata, Busk	-	-	-	4†	5†	6	-	-	-	-	11	-	-	14	15	16	-	
C. hiulca, Map.	-	-	-	-	-	6	-	-	-	-	-	-	-	14†	15	16	-	
C. intermedia, McG.	-	-	-	-	-	6	-	-	-	-	11	-	-	14†	15	16	-	Living; Victoria.
C. latifrons, McG.	-	-	-	-	-	6	-	-	-	-	11	-	-	14†	15	16	-	Living; Australia.
C. lineata, McG.	-	-	-	-	-	-	-	-	-	-	-	-	-	14†	15	16*	-	
C. lunipora, McG.	-	-	-	-	-	6	-	-	-	-	-	-	-	14†	15	16*	-	
C. macgillivrayi, Map.	-	-	-	-	-	-	-	-	-	-	-	-	-	14†	15	16*	-	
C. marginata, Waters	-	-	-	-	-	-	-	8†	-	-	-	-	-	14†	15	16	-	
C. nobilis, McG.	-	-	-	-	-	-	-	-	-	-	-	-	-	14†	15	16	-	
C. nutans, Map.	-	-	-	-	-	-	-	-	-	-	-	-	-	14†	15	16	-	
C. orbicularis, Map.	-	-	-	-	-	-	-	-	-	-	-	-	-	14†	15	16	-	
C. ovoidea, McG.	-	-	-	-	-	6*	-	-	-	-	11	-	-	14†	15	16	-	
C. papillata, Map.	-	-	-	-	-	6	-	-	-	-	-	-	-	14†	15	16	-	







Species.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	Other Localities.
<i>V. cordata</i> , Map.	-	-	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-
<i>V. dendrina</i> , Map.	-	-	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-
<i>V. enormis</i> , Map.	-	-	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-
<i>V. grandis</i> , Map.	-	-	-	-	-	6*	-	-	-	-	-	-	-	-	-	-	-	-
<i>V. hannaforði</i> , McG., sp.	-	-	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-
<i>V. insignis</i> , McG., sp.	-	-	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-
<i>V. maculata</i> , Map.	-	-	-	-	-	6*	-	-	-	-	-	-	-	-	-	-	-	-
<i>V. praetenuis</i> , McG., sp.	-	-	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-
<i>V. rostrata</i> , Map.	-	-	-	-	-	6*	-	-	-	-	-	-	-	-	-	-	-	-
<i>V. sacculata</i> , Busk, sp.	-	-	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-
<i>V. speciosa</i> , McG., sp.	-	-	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-
<i>V. teres</i> , McG., sp.	-	-	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-
Gen. <i>Strongylopora</i> , Map.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>S. ampullacea</i> , Map.	-	-	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-
<i>S. circumcincta</i> , Waters, sp.	-	-	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-
<i>S. complanata</i> , Map.	-	-	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-
<i>S. cuneiformis</i> , Map.	-	-	-	-	-	6*	-	-	-	-	-	-	-	-	-	-	-	-
<i>S. expansa</i> , McG., sp.	-	-	-	-	-	6*	-	-	-	-	-	-	-	-	-	-	-	-
<i>S. mamillata</i> , McG., sp.	-	-	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-
<i>S. nitida</i> , Map.	-	-	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-

Living; Victoria.

Living; South Atlantic.







Species.	Other Localities.																
	Cape Otway.	Aire Coast.	Darriinman's.	Wauru Ponds.	Spring Creek.	Muddy Creek, Lower Beds.	Gellibrand.	Curdie's Creek.	Shelford.	Fyansford.	Griffins.	Filter Quarries.	Corio Bay.	Campbell's Point.	Mornington.	Mitchell River.	Flinders.
Gen. <i>Catenaria</i> , Busk.																	
<i>C. tenuis</i> , Map. - - -	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
Gen. <i>Catenariopsis</i> , Map.																	
<i>C. morningtoniensis</i> , Map. -							7								15		
Gen. <i>Ditaxipora</i> , McG.																	
<i>D. internodia</i> , Waters, sp. -			3	4†	5†	6		8†			11			14	15	16	
Fam. CALWELLIIDAE.																	
Gen. <i>Calwellia</i> , Wy. Thom.																	
<i>C. otwayensis</i> , Map.. - - -	1	2															
Fam. CELLULARIIDAE.																	
Gen. <i>Menipea</i> , Lamx.																	
<i>M. alternata</i> , McG. - - -																	
<i>M. biaviculata</i> , Map. - - -	1													14†	15*	16	
<i>M. bicellata</i> , Map. - - -														14†			
<i>M. lineata</i> , McG. - - -														14†			
<i>M. retroversa</i> , Map. - - -					5	6*					11						

Fishing Point, Cape Otway.



Species.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	Other Localities.
	Cape Otway.	Aire Coast.	Darriin's.	Wauru Ponds.	Spring Creek.	Muddy Creek, Lower Beds.	Gellibrand.	Curdie's Creek.	Shelford.	Fyansford.	Griffins.	Filter Quarries.	Corio Bay.	Campbell's Point.	Mornington.	Mitchell River.	Flinders.	
Gen. <i>Cellularia</i> , Pallas.																		
<i>C. triangulata</i> , Map.	-					6*					11			14†		16		
Gen. <i>Scrupocellaria</i> , Beneden.																		
<i>S. crenulata</i> , McG.	-																	
<i>S. glomerata</i> , Map.	-																	
Gen. <i>Caberea</i> , Lamx.																		
<i>C. darwini</i> , Busk	-					6*								14†				Living; Australia, New Zealand
<i>C. grandis</i> , Hincks	-																	and Southern Ocean.
<i>C. morningtoniensis</i> , Map.	-													14† 15				Living; Australia.
<i>C. rudis</i> , Busk	-							8†			11*			14† 15				Living; Victoria.
Gen. <i>Canda</i> , Lamx.																		
<i>C. fossilis</i> , Waters	-	2		4†		6*		8†			11	12		14 15		16	17	
<i>C. inermis</i> , McG.	-					6*								14†				
Gen. <i>Amastigia</i> , Busk.																		
<i>A. acuminata</i> , Map.	-										11							



Species.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	Other Localities.
Fam. BICELLARIIDAE.																		
Gen. <i>Bicellaria</i> , Blainv.																		
<i>B. elongata</i> , Map.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fam. CELLARIIDAE.																		
Gen. <i>Cellaria</i> , Lamx.																		
<i>C. acutimarginata</i> , McG.	-	-	3	4	5	6				10	11			14	15	16		
<i>C. angustiloba</i> , Busk	-	-	3		5	6				10	11		13*	14†	15*	16		
<i>C. australis</i> , McG.	-	-			5	6			8†	9				14†	15	16	17	Murgheboluc. Living; Australia.
<i>C. biaperta</i> , Map.	-	-				6								14†				
<i>C. biseriata</i> , Map.	-	-												14†				
<i>C. contigua</i> , McG.	-	1	2	3	4†	5	6		8†	9	10	11	12	14†	15	16		Grice's Creek. Living; North Atlantic (Waters).
<i>C. crassimarginata</i> , Map.	-										10							Beaumaris, Murgheboluc, Nhill.
<i>C. cucullata</i> , McG.	-	1	2		5	6								14†				
<i>C. dennanti</i> , McG.	-	1	2		5	6								14†				
<i>C. depressa</i> , Map.	-								9					14†				
<i>C. enormis</i> , Map.	-	2				6								14	15	16	17	
<i>C. gigantea</i> , Map.	-															16		
<i>C. globosa</i> , Waters	-							8†							15	16		
<i>C. gracilis</i> , Busk	-					6*				10	11			14†	15	16		Living; Victoria.







Species.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	Other Localities.
M. aviculifera, Map.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Living; Mediterranean.
M. bellis, Map.	-	2	-	4	-	6	-	-	-	-	-	-	-	14†	-	-	-	Fishing Point, Cape Otway.
M. bidens, Busk, sp.	-	2	-	-	-	6	-	8†	-	10	11*	-	-	-	15	16	-	Living; Australia.
M. circularis, D'Orb.	-	1	-	-	-	-	-	-	-	-	-	-	-	14†	15*	16	-	Belmont.
M. cochleare, McG.	-	-	-	-	-	-	-	-	-	-	-	-	-	14†	15*	16	-	
M. concamerata, Waters	-	1	-	-	-	6	-	-	-	-	-	-	-	14†	15	16	17	
M. concinna, McG.	-	-	-	-	-	6*	-	-	-	-	-	-	-	14†	15	-	-	
M. cyclostomata, McG.	-	-	-	-	-	-	-	-	-	-	-	-	-	14†	15*	16	-	
M. delicatula, Busk	-	-	-	-	-	-	-	-	-	-	-	-	-	14†	15*	16	-	
M. dennanti, Map.	-	-	-	-	-	-	-	-	-	-	-	-	-	14†	15	16	17	
M. depressa, McG.	-	-	-	-	5	6*	-	8†	-	10	-	-	-	14†	15*	16	-	
M. elliptica, McG.	-	-	-	-	-	-	-	-	-	-	-	-	-	14†	15*	16	-	
M. fossa, McG.	-	-	-	4	5*	6	-	8†	-	-	11*	-	-	14†	15	16	17	
M. geminata, Waters	-	-	-	-	-	6	-	-	-	-	-	-	-	14†	15	16	17	
M. globulosa, Map.	-	-	-	-	5*	6	-	-	-	-	-	-	-	14†	15	16	17	
M. gregsoni, McG.	-	-	-	-	5*	6	-	-	-	10	11	-	-	14†	15	16	17	
M. intermedia, Kirkp.	-	-	-	-	-	6*	-	-	-	-	-	-	-	14†	15	16	17	
M. ligulata, Map.	-	2	-	-	-	-	-	8†	-	-	-	-	-	14†	15	16	17	
M. lineata, L.	-	-	-	-	-	6*	-	-	-	-	-	-	-	14†	15	16	17	
M. longipes, Map.	-	-	-	-	-	6	-	-	-	-	-	-	-	14†	15	16	17	















Species.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	Other Localities.
<i>S. magnipunctata</i> , Map., sp. -						6								14†		16		Living; Canaries and Florida.
Gen. <i>Cupularia</i> , Lamx.						6										16		
<i>C. canariensis</i> , Busk -						6												
Gen. <i>Farcimia</i> , Pourtales.						6*								14†		16		Living; Australia.
<i>F. articulata</i> , Waters, sp. -						6		8†		10	11			14	15	16	17	
<i>F. lusoria</i> , Waters, sp. -	1	2		4†	5*	6								14†		16		Living; Australia and Florida.
<i>F. oculata</i> , Busk sp. -				4†		6								14†		16		
Gen. <i>Caleschara</i> , McG.																		
<i>C. denticulata</i> , McG. -	1			4*	5	6				10	11		13*	14	15	16		Belmont. Living; Victoria.
<i>C. parva</i> , Map. -																16		
Fam. STEGANOPORELLIDAE.																		
Gen. <i>Thalamoporella</i> , Hincks.																		
<i>T. gracilis</i> , Map. -																		Jimmy's Point.
<i>T. lata</i> , McG. -														14†	15*			
<i>T. patula</i> , Waters, sp. -	1		3	4		6		8†		10		12		14†	15	16	17	Fishing Point, C.O.
<i>T. rosieri</i> , Aud., sp. -						6								14†		16		Living; Australia, South America, Florida, New Zealand, etc.



Species.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	Other Localities.
Gen. <i>Steganoporella</i> , Smitt.																		
S. depressa, McG.						6*				11*				14†		16		Living; Tahiti & Torres Straits.
S. lateralis, McG.						6				10	11*	12	13	14†	15	16		Living; Australia, New Zealand, Japan, etc.
S. magnilabris, Busk			3	4	5													
Fam. MICROPORIDAE.																		
Gen. <i>Micropora</i> , Gray.																16		
M. carinata, Map.																		
M. elegans, Map.	1																	
M. lunipunctata, Map.	1																	
M. ordinata, Waters																		
M. perforata, McG.		2		4†												16†		Living; Australia.
Gen. <i>Macropora</i> , McG.																		
M. centralis, McG.						6*								14†			17	
M. clarkei, T. Woods, sp.			3	4	5	6					11*					16	17	Fishing Point, C.O.
M. cribrilifera, Map.																		
Fam. CRIBRILINIDAE.																		
Gen. <i>Membraniporella</i> , Smitt.																		
M. decorata, Map.															15			



Species.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	Other Localities.
M. distans, McG.	-	-	-	-	-	6*	-	-	-	-	-	-	-	-	-	-	-	Living; Victoria.
M. nitida, Johnst.	-	-	-	-	-	-	-	8†	9	-	11	-	13*	14	15*	16	-	Living; European seas.
M. rugosa, Map.	-	-	-	-	-	6	-	-	-	10	11	-	-	14†	15	-	-	
M. tenuicosta, McG.	-	-	-	-	-	-	-	-	-	10	-	-	-	14†	-	-	-	
Gen. <i>Cribrilina</i> , Gray.																		
C. cornuta, McG.	-	-	-	-	5	6	7*	-	-	-	-	-	-	-	-	-	-	
C. dentipora, Waters	-	-	-	-	-	6	-	-	-	10	11	-	-	14†	15	16	17	
C. elevata, McG.	-	-	-	-	-	6	-	-	9	-	-	-	-	14†	15*	16	-	North Shore, Geelong.
C. orbicula, McG.	-	-	-	-	-	6	-	-	-	-	-	-	-	14†	-	-	-	
C. radiata, Moll., sp.	-	-	-	-	-	6	-	-	-	-	-	-	-	14†	15*	16	-	Living; Cosmopolitan.
C. suggerens, Waters	-	-	-	-	-	6	-	8†	-	-	-	-	-	14†	15	16*	-	
C. terminata, Waters	-	-	-	-	5	6	-	8†	-	10	11	12	13	14†	15	16	17	Lake Bullenmerri.*
C. tubulifera, Hincks	-	-	-	-	-	6†	-	-	-	-	-	-	-	-	-	-	-	Living; Bass Straits.
C. turgida, Map.	-	-	3	4*	-	-	-	-	-	-	-	-	-	-	-	-	-	
Gen. <i>Corbulipora</i> , McG.																		
C. ampulla, Map.	-	-	-	-	5	6	-	-	-	-	-	-	-	14†	15	-	-	
C. ornata, McG.	-	-	-	-	-	-	-	-	-	-	-	-	-	14†	15	16	-	



Species.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	Other Localities.
	Cape Otway.	Aire Coast.	Darriman's	Wauru Ponds.	Spring Creek.	Muddy Creek, Lower Beds.	Gellibrand.	Curdie's Creek.	Shelford.	Fyansford.	Griffins.	Filter Quarries.	Corio Bay.	Campbell's Point.	Mornington.	Mitchell River.	Flinders.	
Fam. Hiantoporidae.																		
Gen. <i>Hiantopora</i> , McG.																		
<i>H. halli</i> , McG.	-	-	-	-	-	6*		8+		10			13*	14†	15	16	17	
<i>H. liversidgei</i> , T. Woods, sp.	-	2				6								14†	15			
<i>H. magna</i> , McG.	-					6								14†		16		Living; Victoria.
<i>H. monoceros</i> , Busk, sp.	-					6								14†	15	16		
Fam. Microporellidae.																		
Gen. <i>Microporella</i> , Hincks.																		
<i>M. ciliata</i> , Linn., sp.	-	1												14†		16†		Living; Cosmopolitan.
<i>M. didema</i> , McG.	-													14†		16*		Living; Australia and Zealand.
<i>M. macropora</i> , Stol.	-																17	
<i>M. malusii</i> , Aud., sp.	-													14†	15*	16		Living; Cosmopolitan.
<i>M. marginata</i> , Map.	-													14†	15*			
<i>M. rudis</i> , McG.	-																	
<i>M. rugosa</i> , Map.	-					6												
Gen. <i>Tessaradoma</i> , Norman.																		
<i>T. elevata</i> , Waters, sp.	-					6		8+		10	11	12		14†	15*	16		Lake Gnotuk.
<i>T. magnirostris</i> , McG.	-					6*									15*			Living; Australia.



[illegible]



Species.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	Other Localities.
	Cape Otway.	Aire Coast.	Darriin's.	Wauru Ponds.	Spring Creek.	Muddy Creek, Lower Beds.	Gellibrand.	Curdie's Creek.	Shelford.	Fyansford.	Griffins.	Filter Quarries.	Corio Bay.	Campbell's Point.	Mornington.	Mitchell River.	Flinders.	
<i>L. bisinuata</i> , Map.	-	-	-	-	5	6	-	-	-	-	11	-	-	14†	15	16	17	Nhill.
<i>L. burlingtoniensis</i> , Waters	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Lake Bullenmerri.*
<i>L. calopora</i> , Map.	-	-	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-
<i>L. cava</i> , McG.	-	-	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-
<i>L. clavata</i> , Map.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>L. cleidostoma</i> , Smitt	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>var. rotunda</i> , Waters	-	-	-	-	-	-	-	8†	-	-	-	-	-	-	-	-	-	-
<i>L. continua</i> , McG.	-	-	-	-	-	6*	-	-	-	11	-	-	-	-	-	-	-	-
<i>L. corrugata</i> , Waters	-	-	-	-	-	6*	-	8†	-	11	-	-	13*	14	15	16	-	-
<i>L. costata</i> , Map.	-	-	-	-	-	6	-	-	-	11	-	-	-	-	-	-	-	-
<i>L. crassatina</i> , Waters, sp.	-	-	-	4†	-	6	-	-	-	11*	-	-	-	-	-	-	-	-
<i>L. cribrosa</i> , Map.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>L. depressa</i> , Busk	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16†	-	-
<i>L. duplex</i> , McG.	-	-	-	-	5	6*	-	-	-	11*	-	-	-	14†	15*	16*	17	-
<i>L. elongata</i> , McG.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>L. filiformis</i> , Waters, sp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>L. gippslandii</i> , Waters	-	-	-	-	-	-	-	-	-	-	-	-	-	14†	15*	16*	-	-
<i>L. graysoni</i> , McG.	-	-	-	-	-	-	-	-	-	11*	-	-	-	-	-	-	-	-
<i>L. hamiltoniensis</i> , McG.	-	-	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-
<i>L. hebetata</i> , Waters, sp.	-	-	-	-	-	-	-	-	-	11*	-	-	-	14†	-	-	-	-



Species.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	Other Localities.
	Cape Otway.	Aire Coast.	Darriin's.	Wauru Ponds.	Spring Creek.	Muddy Creek, Lower Beds.	Gellibrand.	Curdie's Creek.	Shelford.	Fyansford.	Griffins.	Filter Quarries.	Corio Bay.	Campbell's Point.	Mornington.	Mitchell River.	Flinders.	
<i>L. mamillifera</i> , Map.	-	-	-	-	-	6	-	8+	-	-	-	-	-	14†	-	16	-	Living; North Atlantic.
<i>L. monilifera</i> , Milne, Ed., sp.	1	-	-	-	-	6	-	-	-	-	-	-	-	14†	-	16	-	Living; Australia.
<i>L. mucronata</i> , Smitt	-	-	-	-	5*	6*	-	-	-	10	-	-	-	14†	15	16	-	
<i>L. nodulosa</i> , McG.	1	-	-	-	-	6	-	-	-	-	-	-	-	14†	15*	16*	-	
<i>L. obliqua</i> , McG.	-	-	-	-	-	-	-	-	-	11*	-	-	-	14†	-	16	-	
<i>L. pachystoma</i> , McG.	-	-	-	-	-	-	-	-	-	-	-	-	-	14†	15*	16	-	
<i>L. partipunctata</i> , Map.	-	-	-	-	-	-	-	-	-	-	-	-	-	14†	-	16	-	
<i>L. perforata</i> , McG.	-	-	-	-	-	6*	-	-	-	-	-	-	-	-	-	-	-	Living; Australia, Europe, North America.
<i>L. pertusa</i> , Esper., sp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>L. praeclara</i> , McG.	-	-	-	-	5*	-	-	-	-	-	-	-	-	-	15*	16	-	Living; Australia.
<i>L. quadrata</i> , McG.	-	-	-	-	-	6	-	-	-	10	-	-	-	-	-	16	-	
<i>L. quadratipunctata</i> , Map.	-	-	-	-	-	6	-	-	-	-	11*	-	-	-	-	-	-	Living; New Zealand.
<i>L. radiata</i> , Map.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Lake Bullenmerri.*
<i>L. rectilineata</i> , Hincks	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>L. rotundata</i> , McG.	-	-	-	-	-	6	-	8+	-	-	-	-	-	-	15*	16	-	Living; Australia.
<i>L. spatulata</i> , Waters	-	-	-	-	-	-	-	-	-	-	11*	-	-	-	-	16	-	
<i>L. subimmersa</i> , McG.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16*	-	
<i>L. vagans</i> , McG.	-	-	-	-	-	-	-	-	-	-	11*	-	-	14†	-	-	-	
<i>L. vallata</i> , McG.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Living; Australia.
<i>L. vermicularis</i> , McG.	-	-	-	-	5	-	-	-	-	10	-	-	-	-	-	16	-	



Species.	Cape Otway.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	Other Localities.
Gen. <i>Bulbipora</i> , McG.																			
<i>B. areolata</i> , McG. - - -							6								14†				
Gen. <i>Plagiopora</i> , McG.																			
<i>P. disticha</i> , McG. - - -	1					5	6				11				14†	15	16		Murgheboluc.
Gen. <i>Ovaticella</i> , Map.																			
<i>O. turbinata</i> , Map. - - -																	16		
Gen. <i>Trigonopora</i> , Map.																			
<i>T. vermicularis</i> , Map. - -	1	2																	
Fam. SCHIZOPORELLIDÆ.																			
Gen. <i>Schizoporella</i> , Hincks.																			
<i>S. acuminata</i> , Hincks - - -																			
<i>S. alata</i> , McG. - - -							6	7								15	16†	17	Living; Bass Straits.
<i>S. ambigua</i> , Map. - - -									8†								16		
<i>S. amphora</i> , Waters - - -																			
<i>S. arachnoides</i> , McG. - - -							6								14†				Living; Australia.
<i>S. auriculata</i> , Hassall - - -						5*	6				11				14†		16†		Living; European seas.
<i>S. australis</i> , T. Woods - -						5*	6		8†		10	11			14†	15	16		



Species.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	Other Localities.
S. biaperta, Michelin, sp.	-					6*												Living; Northern seas, Bass Straits and New Zealand.
S. bombycina, Waters	-															16*		Living; Cosmopolitan.
S. cecili, Audouin, sp.	-					6		8†								16		
S. chithridiata, Map.	-					6*								14†	15	16	17	
S. conservata, Waters	-													14†	15*	16	17	
S. convexa, McG.	-													14†	15	16	17	
S. crenulata, McG.	-					6					11*			14†	15*	16	17	Nhill. Living; Australia.
S. daedala, McG.	-																	
S. excubans, Waters	-							8†										
S. fenestrata, Waters	-				5	6		8†		10	11		13*		15	16	17	Fishing Point, C.O.
S. flabellata, Map.	-															16		
S. foveata, McG.	-														15*	16*		
S. granulata, McG.	-					6												
S. hispida, Map.	-					6								14†		16		Living; Australia. Jimmy's Point.
S. lata, McG.	-													14†	15			
S. mamillata, Map.	-					6*												
S. nitens, McG.	-																	
S. nitidissima, Map.	-																	
S. ovalis, Map.	-																	
S. phymotopora, Reuss	-		3		5	6		8†	9	10	11		13	14†	15	16	17	Living; North Pacific.







Species.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	Other Localities.
Gen. <i>Haswellia</i> , Busk.																		
<i>H. longirostris</i> , McG.	-																	
<i>H. producta</i> , McG.	-	2				6*				10	11		13	14† 15	15*	16	17	
Gen. <i>Gemellipora</i> , Smitt.																		
<i>G. auriculata</i> , Map.	-															16		
<i>G. elegantissima</i> , McG.	-					6							14†				17	
<i>G. polita</i> , McG.	-	1																
Gen. <i>Characodoma</i> , Map.										10				14† 15	15	16		Living; Australia.
<i>C. halli</i> , Map.	-					6												
Gen. <i>Bipora</i> , Whitelegge.																		
<i>B. cancellata</i> , Busk, sp.	-													14† 15	15	16*		Living; Phillipine Islands and New Guinea.
<i>B. elegans</i> , D'Orb.	-																	Jimmy's Point. Living; N.S.W. and China.
<i>B. phillipensis</i> , Busk, sp.	-					6		8†						14† 15	15	16		Lake Gnotuk. Living; N.S.W.
Gen. <i>Trypocella</i> , Map.					5													
<i>T. excavata</i> , Map.	-																	



Species.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	Other Localities.
	Cape Otway.	Aire Coast.	Darriin's	Wauru Ponds.	Spring Creek.	Muddy Creek, Lower Beds.	Gellibrand.	urdie's Creek.	Shelford.	Ryanford.	Griffins.	Filter Quarries.	Corio Bay.	Campbell's Point.	Mornington.	Mitchell River.	Flinders.	
Fam. SMITHIIDÆ.																		
Gen. <i>Porella</i> , Gray.																		
<i>P. angustata</i> , Map.	-				5	6					11			14†	15*	16		Living; Europe, North America and Australia.
<i>P. areolata</i> , Map.	-																	
<i>P. concinna</i> , Busk, sp.	-										11*			14†		16		
<i>P. dennanti</i> , Map.	-							8†										
<i>P. denticulata</i> , Stol.	-																	
<i>P. flabellaris</i> , McG.	-																	
<i>P. innocua</i> , McG.	-										11*			14†		16*		
<i>P. marsupium</i> , McG.	-																	
<i>P. minutissima</i> , Map.	-																	
<i>P. otwayensis</i> , Map.	-																	
<i>P. punctata</i> , McG.	-										11*			14†	15	16*		Living; Australia.
<i>P. rhomboidalis</i> , Map.	-																	
Gen. <i>Smithia</i> , Hincks.																		
<i>S. anceps</i> , McG.	-																	
<i>S. areolata</i> , McG.	-							8†		10					15*	16		Living; Victoria.
<i>S. bi-incisa</i> , Waters	-				5	6*		8†	9						15*	16		



Species.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	Other Localities.
<i>S. centralis</i> , var. <i>laevigata</i> , Waters -								8†								16		Living; European seas.
<i>S. collaris</i> , Norm. -																		
<i>S. cribraria</i> , McG. -				4†	5	6*								14†		16*		
<i>S. depressa</i> , McG. -						6*										16*		
<i>S. intermedia</i> , McG. -						6*					11*	12				16		
<i>S. lateralis</i> , McG. -					5*	6				10	11			14†		16		
<i>S. macgillivrayi</i> , Map., sp. -			3													16		
<i>S. modesta</i> , McG. -																16		
<i>S. napierii</i> , Waters -				4†														Living; N.S. Wales.
<i>S. nitida</i> , Verrill -																16†		Living; North America, Africa and Mediterranean.
<i>S. oculata</i> , McG. -															15*			Living; Victoria.
<i>S. ordinata</i> , McG. -			3		5*	6*				10	11*			14†	15*	16	17	
<i>S. porinoides</i> , McG. -																		
<i>S. reticulata</i> , J. McG., sp. -						6*					11*			14†	15	16†	17	
<i>S. reticulata</i> , var. <i>nitida</i> , McG. -																16		
<i>S. tatei</i> , T. Woods, sp. -	1	2	3		5	6		8†		10	11	12		14†	15	16	17	Nhill. Living; Europe & Australia.
Gen. <i>Cucullipora</i> , McG. -	1								9	10	11			14	15	16		Murgheboluc.
<i>C. tetrasticha</i> , McG. -					5	6												



Species.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	Other Localities.
Gen. <i>Pachystomaria</i> , McG.																		
<i>P. parvipuncta</i> , McG.	-					6*					11			14†		16		Flinders.
Gen. <i>Phylactella</i> , Hincks.																		
<i>P. cribrosa</i> , Map.	-	2			5						11*				15		17	Mitchell River.
<i>P. porosa</i> , McG.	-															16*		
Gen. <i>Mucronella</i> , Hincks.																		
<i>M. aivensis</i> , Map.	-	2																
<i>M. apiculata</i> , McG.	-																	
<i>M. conica</i> , Map.	-											12					17	
<i>M. duplicata</i> , Waters	-																	
<i>M. elegans</i> , McG. var.	-																	
<i>M. irregularis</i> , Map.	-																	
<i>M. lata</i> , McG.	-																	
<i>M. mooraboolensis</i> , McG.	-									10								
<i>M. personata</i> , Map.	-										11*							
<i>M. porosa</i> , Hincks	-																	
<i>M. praestans</i> , Hincks	-		3			6	7	8†										
<i>M. proboscoides</i> , Map.	-																	
																		Living; Phillipine Islands. Living; Australia and New Zealand.



[illegible]



Species.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	Other Localities.
	Cape Otway.	Aire Coast.	Darriiman's	Wauru Ponds.	Spring Creek.	Muddy Creek, Lower Beds.	Gellibrand.	urdie's Creek.	Shelford.	Fyansford.	Griffins.	Filter Quarries.	Corio Bay.	Campbell's Point.	Mornington.	Mitchell River.	Flinders.	
<i>P. cribraria</i> , McG.	-	-	-	-	-	6	7	8+	9	10	11	12	13	14+	15*	16	17	Belmont.* Living; Australia.
<i>P. gracilis</i> , Milne, Ed., sp.	-	-	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-	Living; Victoria.
<i>P. larvalis</i> , McG.	-	-	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-	
<i>P. tuberculata</i> , Map.	-	-	-	-	-	6	7	-	-	-	-	-	-	-	-	-	-	
Gen. <i>Palmicellaria</i> , Alder.																		
<i>P. quadrifrons</i> , Map.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>P. skenei</i> , Ell. and Sol.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
<i>P. uniseriatis</i> , Map.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Living; Northern seas.
Fam. TUBUCELLARIIDAE.																		
Gen. <i>Tubucellaria</i> , D'Orb.																		
<i>T. cereoides</i> , Ell. and Sol.	-	-	3	-	-	6	-	-	-	10	11*	-	-	14+	16	-	-	Living; Victoria & Lord Howe's Island.
<i>T. marginata</i> , McG.	-	-	-	-	-	6	-	-	-	10	-	-	-	14	15*	16	17	
Fam. PROSTOMARIIDAE.																		
Gen. <i>Prostomaria</i> , McG.																		
<i>P. gibbercollis</i> , McG.	-	-	-	-	-	6*	-	-	-	10	11	-	-	14+	15	-	-	



[illegible]







Species.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	Other Localities.
<i>R. beaniana</i> , King -						6†				10				14†	15	16		Living; Europe.
<i>R. complanata</i> , Map.													13	14†		16		
<i>R. corioensis</i> , McG.																		
<i>R. delicatula</i> , Map.																		
<i>R. deserta</i> , Waters -																		
<i>R. fissa</i> , McG. -						6*		8†	9	10	11		13*	14	15*	16*	16†	Living; Florida and Australia.
<i>R. formosa</i> , McG. -																		Living; Victoria.
<i>R. granulata</i> , McG.																		Living; Australia.
<i>R. impar</i> , McG. -																		
<i>R. lineata</i> , McG. -														14†	15*			
<i>R. monilifera</i> , McG.						6*								14†	15*			Living; Australia.
<i>R. permunita</i> , McG.						6*												
<i>R. porcellana</i> , McG.													13*	14†	15*			Living; Victoria.
<i>R. producta</i> , Busk -						6*							13*		15*	16*		Living; Australia.
<i>R. rimata</i> , Waters -						6*		8†				12	13	14†	15*	16	17	
<i>R. schnapperensis</i> , McG.																		
<i>R. sinuosa</i> , McG. -														14†	15	16*		
<i>R. subimmersa</i> , McG.														14†	15*	16*		Living; Australia.
<i>R. tessalata</i> ,																		
<i>var. benemunita</i> , Hincks -																		
<i>R. uniserialis</i> , Map.										10				14†	15*	16		Living; Victoria.



## ADDENDUM.

Since the tabulated list was set up I have received from Mr. Waters a copy of his report upon the Polyzoa collected during the voyage of the "Belgica" in the Antarctic Circle, from which it appears that the following of our fossil species are living there:—*Schizoporella ridleyi*, McG.; *Smittia reticulata*, J. McG.; *Smittia* (*Porella*) *marsupium*, McG.; and *Cellaria dennanti*, McG. This last species has not been found living anywhere else, and it is included by Mr. Waters in the list of "common" species.

## APPENDIX.

## REMARKS ON THE DEPOSITS.

BY T. S. HALL.

The marine tertiaries of Southern Australia cover a considerable area, and are rich in fossils, though at present probably not more than half of even the known species are described, these being chiefly mollusca. No very full description of the beds as they are displayed at the various localities as a whole has hitherto been published, nor indeed is as yet possible. The most complete is a series of three papers on their correlation, by the late Professor R. Tate and Mr. J. Dennant, in the Transactions of the Royal Society of South Australia. A large series of papers by various authors on the beds and their fossils will be found chiefly in the same publication and in the Proceedings of this Society. The general sequence is fairly well agreed upon, but there are differences of opinion in individual instances, even where the fauna of these is well known. A valuable census of the fossils, by Messrs. J. Dennant and A. E. Kitson, has been published by the Department of Mines of this State, but it may as well be pointed out again that not half of the fauna is as yet named, so that far-reaching conclusions based on a few simple arithmetical calculations as to percentages and distribution are not likely to be of any value at all.

As to the age of the beds in European terms, differences of opinion exist among those who have given attention to the subject. We are able to recognise three faunas. The most recent



of those containing any extinct forms is of but local distribution. Older than this we have two series which are widely spread, and of these the earlier is the richer in fossils. It is to this lowest series that Mr. Maplestone's fossils, as recorded in this list, belong. Whether or not this oldest set of beds belongs to one geological age or two is still unsettled. Professor Tate, in his later years, divided it into an upper and lower, which he called oligocene and eocene. Most other workers are disinclined to regard the differences as being so fundamental, and think that both belong to the same series, whatever may be its age.

As regards the equivalence of this series to European and North American ones, considerable diversity of opinion exists. The late Professor Tate held, as has just been stated, that the great proportion of the beds was eocene; McCoy, that they were oligocene in the main, and in part miocene. Mr. Pritchard and myself, to escape the confusion thus caused, have called them Barwonian, from the River Barwon, in the basin of which types of most of the deposits occur. Personally, I doubt if correlation with European standards is possible. As regards the localities given by Mr. Maplestone, all are agreed that the beds about Cape Otway and the Aire coastal sections are the oldest. With these some authorities group those at Darriman's Creek, Waurn Ponds and Spring Creek. The latter is, however, the type of Tate's oligocene, and thus, according to his view, quite distinct from the Otway beds. The remaining localities probably all belong to one series as the community of their molluscan contents is considerable.

Mr. Maplestone's specimens came in the main from parcels of earth supplied to him by various collectors, and I have every confidence in the correctness of their localisation.

It may as well be stated that the beds at Darriman's Creek, Waurn Ponds, the Filter Quarries and Flinders consist of limestone, in which the fossils stand out clearly from one another as a rule, though the rock is compact enough to be used extensively in building. The other deposits are grey or blue marls, sometimes of very tough consistency, while at others containing a varying proportion of sand. Differences in the fauna due to these differences in sediment must, of course, exist.

Mr. Maplestone's list will throw light on questions of correlation between the beds themselves and those at a distance.





Maplestone, C M. 1904. "Tabulated list of the fossil Cheilostomatous Polyzoa in the Victorian Tertiary deposits." *Proceedings of the Royal Society of Victoria* 17(1), 182–219.

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