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## BRYOZOA

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### Abstract

The survey collections contained 114 species which are discussed; 95 of these are determined to species level, and the remaining 19 have been placed in their appropriate genera. Appended is a list of the 300 species with their localities recorded by MacGillivray in his monograph; 153 of these are recorded from Port Phillip Heads, and 78 of them were taken on the present Survey.

### Introduction

The Bryozoa of the original Port Phillip Survey set up by the Royal Society of Victoria in July 1888 were included in P. H. MacGillivray's monograph of the Victoria Bryozoa published in McCoy's Prodromus of Zoology 1879-89. Port Phillip Heads is a locality listed for 153 of the 300 species discussed, and is the only one for 125 of these species; 81 species are listed for Queenscliff, 42 for Portland and 22 for Warrnambool, W. Victoria.

The present Survey Bryozoan collections have been worked in detail, and it has been possible to identify 95 species, while a further 19 have been identified to genus level only. These are discussed in the present paper. A table of the species discussed by MacGillivray in McCoy's Prodromus of Zoology is included together with their authors, dates, currently accepted nomenclature, and localities as listed in the Prodromus. The 78 species collected in this survey are marked with an asterisk.

Last century Bryozoologists proposed several new families, genera and species. However, Professor Raymond C. Osburn 1952: 284) frankly admitted that where to place several species still puzzled him greatly. He quoted Shakespeare, 'They fool me to the top of my bent', and continued '*The Lichenopores* have always been "a thorn in the flesh" to those who have attempted to work with them.' Likewise several times in this study the question arose as to whether one genus is congeneric with another. In several species a great deal of varia-

tion in most of the characters has been recorded. One species may resemble another species from the coast of Europe, so transfer by ship cannot be excluded.

It is necessary that the Bryozoan collections in the National Museum of Victoria be revised. They have been put in order recently both systematically and alphabetically, but not revised.

Subphylum ECTOPROCTA Nitsche, 1869

Class GYMNOLAEMATA Allman, 1856

Order CTENOSTOMATA Busk, 1852

Suborder CARNOSA Gray, 1841

Family FLUSTRELLIDRIDAE Bassler, 1953

*Elzerina* Lamouroux, 1816

*Elzerina blainvillii* Lamouroux, 1816

*Elzerina blainvillii* Lamouroux, 1816: 123, Pl. 2, figs. 3a-b.

*Farciminaria dichotoma* Busk, 1861: 155, Pl. 35, figs. 1-1b.

*Flustrella dichotoma* Hincks, 1884: 366, Pl. 14, figs. 2-2b.

*Verrucularia dichotoma* Busk, 1884: 48.

*Verrucularia dichotoma*, MacGillivray, 1890: 348-349, figs. 6-7a.

Survey area 58 (88), 59 (36), MacGill. Coll. area 58 Port Phillip Heads

Suborder VESICULARINA Johnston, 1847

Family VESICULARIIDAE Hincks, 1880

*Bowerbankia* Farre, 1837

*Bowerbankia* sp.

Survey area 10 (103-5).

Growing on *Mytilus planulatus* in association with *Membranipora papulifera*, *Bugula neritina* and *Celleporella hyalina*.

**Amathia** Lamouroux, 1812

This genus is well represented on the Australian coast.

**Amathia australis** (Tenison-Woods, 1878)

*Serialaria australis* Tenison-Woods, 1878: 83, plate. *Amathia australis*, MacGill., 1889A: 310, Pl. 185, figs. 5-5a.

Survey area 59 (225), MacGill. Coll. area 58 Port Phillip Heads.

**? Amathia biseriata** Krauss, 1837

*Amathia biseriata* Krauss, 1837: 23.

Survey area 59 (36).

**Amathia inarmata** MacGill., 1887

*Amathia inarmata* MacGill. 1887A: 184, 1889A: 309, Pl. 185, figs. 4-4a.

Survey Area 60 (215), 61 (242), MacGill. Coll. area 58 Port Phillip Heads.

**Amathia tortuosa** Tenison-Woods, 1880

*Amathia tortuosa* MacGill., 1889A: 308, Pl. 185, figs. 3-3a.

Survey area 10 (193), 11 (212), 12 (196), 13 (210), 25 (299), 37 (297-8), MacGill. Coll. area 58 Port Phillip Heads.

**Amathia** sp.

Survey areas 59 (87), 61 (241).

Order CYCLOSTOMATA Busk, 1852

Suborder ARTICULATA Busk, 1859

Family CRISHIDAE Johnston, 1847

**Crisia** Lamouroux, 1812**Crisia acropora** Busk, 1852

*Crisia acropora* Busk, 1852: 351; 1875: 6, Pl. 5, figs. 3-4, MacGillivray, 1879A: 38-39, Pl. 39, figs. 3-3c.

Survey areas 58 (150-4), (290), 59 (36), 66 (291-2), MacGill. Coll. areas 6 Williamstown, 58 Queenscliff,

**Crisia edwardsiana** (d'Orbigny, 1839)

*Crisia edwardsiana*, d'Orbigny, 1839: 7, Pl. 1, figs. 4-8.

*Crisia edwardsiana*, Busk, 1875: 5, Pl. 2, figs. 5-8;

MacGillivray, 1879A: 37, Pl. 39, figs. 2-2c.

Survey area 58 (290), 66 (291-2), MacGill. Coll. area 6 Williamstown.

**Crisia tenuis** MacGill., 1879

*Crisia tenuis* MacGill., 1879A: 39-40, Pl. 39, figs. 5-5d.

Survey area 59 (24), MacGill. Coll. area 59 Queenscliff, growing on roots of algae. Growing on *Celleporaria prolifera* in association with *Conopeum reticulum*, *Bugula dentata* and *Scrupocellaria diadema*.

**Crisia geniculata** (Milne-Edwards, 1838)

*Crisia geniculata* Milne-Edwards, 1838: 197, Pl. 6, figs. 1-1c.

*Crisida cornuta* var. *geniculata* Busk, 1875: 3, Pl. 1, figs. 1-4.

Survey area 59 (36).

**Crisia** sp.

Survey area 58 (88) (150-4), 59 (36) (79).

Suborder TUBULIPORINA Milne-Edwards, 1838

Family DIASTOPORIDAE Gregory, 1899

**Berenicea** Lamouroux, 1821**? Berenicea sarniensis** (Norman, 1864)

*Diastopora sarniensis* Norman, 1864: 89, Pl. 11, figs. 4-6; MacGillivray, 1887: 181, Pl. 147, figs. 4-4b.

*Plagioecia sarniensis*: Osburn, 1953: 632, Pl. 73, fig. 3.

Survey area 57 (294), MacGill. Coll. area 58 Port Phillip Heads.

'There is much resemblance to *P. patina* in the zoarial form . . . *P. sarniensis* has now been found in so many parts of the world that its distribution must be considered cosmopolitan' (Osburn 1953: 623-633). MacGillivray (1887C) lists both *Diastopora sarniensis* (Norman) and *Diastopora patina* (Lamarck) from Port Phillip Heads.

Family ONCOUSOECIIDAE Canu, 1918

**Stomatopora** Bronn, 1825**? Stomatopora geminata**, MacGill., 1886

*Stomatopora geminata* MacGill., 1886: 2, Pl. 2, fig. 3; 1889: 279, Pl. 176, fig. 1.

Survey areas 58 (150-4), 59 (36), MacGill. Coll. area 59 Port Phillip Heads.

Family TUBULIPORIDAE Johnston, 1838

**Idmidronea** Canu and Bassler, 1920**? Idmidronea australis** (MacGill., 1884)

*Idmonea australis* MacGill., 1884: 30, Pl. 68, figs. 2-2b.

Survey area 58 (150-4), MacGill. Coll. area 58 Port Phillip Heads.

'This species may prove to be a form of *I. atlantica*, but at present I think it better to describe it as a distinct species' (MacGillivray 1884: 30). 'It appears to me quite distinct' (Harmer 1915: 125).

Suborder CANCELLOTA Gregory, 1896

Family HORNERIDAE Smitt, 1867

**Hornera** Lamouroux, 1821**Hornera foliacea** MacGill., 1869

*Hornera foliacea* MacGill., 1869: 143; 1886: 71-72, Pl. 118, figs. 1-5.

Survey area 59 (36), MacGill. Coll. area 58 Port Phillip Heads.

**Hornera** sp.

Survey areas 59 (36), 60 (268).

Suborder RECTANGULATA Waters, 1887

Family LICHENOPORIDAE Smitt, 1887

**Lichenopora** Defrance, 1823

**Lichenopora** sp.

Survey area 66 (292).

MacGillivray (1889: 280-281) lists two species for Victoria, both of which were taken in the vicinity of Port Phillip Heads (Area 58).

Order CHEILOSTOMATA Busk, 1852

Suborder ANASCA Levinsen, 1909

Division INOVICELLATA Jullien, 1888

Family AETEIDAE Smitt, 1867

**Aetea** Lamouroux, 1812

**Aetea anguina** (Linnaeus, 1758)

*Sertularia anguina* Linnaeus, 1758: 816.

*Aetea anguina*, MacGillivray, 1887B: 143, Pl. 137, figs. 7-7a.

Survey area 58 (88), 59 (36), MacGill. Coll. area 58 Port Phillip Heads.

'This little creeping species is practically cosmopolitan and has been listed in nearly every paper dealing with shorewise Bryozoa in the temperate and tropical regions' (Osburn 1953: 11).

**Aetea sica** (Couch, 1844)

*Aetea sica* Couch, 1844: 102.

*Aetea recta* Hincks, 1880: 6, Pl. 1, figs. 6-7; MacGillivray 1889: 287, Pl. 178, fig. 1.

Survey area 58 (150-4), MacGill. Coll. area 58 Port Phillip Heads.

A widely distributed species, recorded from Europe and America.

**Aetea** sp.

Survey area 59 (36).

Division MALACOSTEGA Levinsen, 1909

Family SCRUPARIIDAE (Busk, 1852), Harmer, 1926

**Scruparia** Oken, 1815

**Scruparia ambigua** (d'Orbigny, 1841)

*Eucrates ambigua* d'Orbigny, 1841, Pl. 3, figs. 13-17; 1847: 11.

? *Scruparia chelata* McGill., 1889 (non Linnaeus 1758): 287-288, Pl. 178, figs. 2-2a, 3.

Survey area 53 (253), 58 (150-4) (290), 59 (36), MacGill. Coll. area 58 Port Phillip

Heads on algae and zoophytes. This species has been much confused with *S. chelata* (Linnaeus) and Dr Anna B. Hastings has pointed out the differences (1941), she shows that it has a very wide distribution around the world (Osburn 1953: 16).

Family MEMBRANIPORIDAE Busk, 1854

**Membranipora** de Blainville, 1830

**Membranipora membranacea** (Linnaeus, 1767)

*Flustra membranacea* Linnaeus, 1767: 1301.

*Membranipora membranacea*, MacGill., 1879: 29, Pl. 25, figs. 1-1b.

Survey areas 6 (137), 58 (80), 59 (36).

On *Macrocytis* at station 36. 'Of frequent occurrence everywhere on our shores, creeping over broad seaweeds' (MacGillivray 1879, Pl. 29). It has been reported from various regions around the world.

**Membranipora perfragilis** (MacGill., 1881)

*Biflustra fragilis* MacGill., 1869: 138.

*Biflustra perfragilis* MacGill., 1881A: 27, Pl. 57, figs. 1-1e.

*Membranipora crassimarginata* var. *erecta* Busk, 1884: 63, Pl. 14, figs. 3-3a.

*Acanthodesia perfragilis*, Hastings, 1945: 98.

Survey 59 (Portsea Pier intertidal coll. 27 Mar. 1960), MacGill. Coll. area 58 Port Phillip Heads.

The figured specimen of *Membranipora crassimarginata* var. *erecta* of the Challenger Report is from Bass Strait, and Waters (1898: 658) identifies it with *Biflustra perfragilis* MacGillivray, which was described from the same locality.

(?) **Membranipora papulifera** (MacGill., 1882)

*Membranipora papulifera* MacGill., 1882: 116, fig. 9.

Survey area 10 (103-5), McGill. Coll. area 58 Port Phillip Heads.

Growing on *Mytilus planulatus* in association with *Bugula neritina*, *Celleporella hyalina* and *Bowerbankia* sp.

**Conopeum** Gray, 1848

**Conopeum reticulum** (Linnaeus, 1767)

*Millepora reticulum* Linnaeus, 1767: 1284.

*Membranipora lacroixii* MacGillivray (non Savigny), 1879: 35, Pl. 26, figs. 5-5a, 6-6a.

Survey area 17 (172), 29 (174), 30 (130), 59 (24) (36), MacGill. Coll. area 10 Point Cook, area 7 Brighton, area 58 Queenscliff.

At (24) growing on *Celleporaria prolifera* in association with *Crisia tenuis*, *Bugula dentata*

and *Scrupocellaria diadema* and at (130) growing on *Mytilus planulatus* in association with *Rhynchozoon tubulosum* and at (174) again on *Mytilus* in association with *Celleporaria verrucosa*.

A cosmopolitan species generally confused with *lacroixii* Audouin.

Family FLISTRIDAE Smitt, 1867

*Spiralaria* Busk, 1861

*Spiralaria denticulata* (Busk, 1852)

*Flustra denticulata* Busk, 1852: 380; MacGillivray, 1880: 27, Pl. 45, figs. 1-1g.

*Flustra denticulata* var. *inermis*, Busk, 1852A, Pl. 49, figs. 3-4.

Survey area 57 (294), 58 (88), (291-2, 59 (36), 66 (291-2), MacGill. Coll. area 58 Queenscliff.

'A very variable species, the only constant character being the minute denticles within the inner edge of the margin of the cells' (MacGillivray 1880: 27).

*Bugularia* Levinson, 1909

*Bugularia dissimilis* (Busk, 1852)

*Carbasea dissimilis*, Busk, 1852A: 51, Pl. 50, figs. 4-7; MacGillivray, 1880: 28-29, Pl. 45, figs. 3-3d.

*Bugularia dissimilis*, Levinson, 1909: 109, Pl. 5, figs. 2a-2d.

Survey area 59 (36), MacGill. Coll. area 58 Queenscliff.

Family ALDERINIDAE Canu and Bassler, 1927

*Amphiblestrum* Gray, 1848

*Amphiblestrum* sp.

*Pyrulella* Harmer, 1926

*Pyrulella pyrula* (Hincks, 1881)

*Membranipora lineata* (MacGill., 1879 (non Linnaeus): 34, Pl. 26, figs. 3-3a.

*Membranipora pyrula* Hincks, 1881: 3; MacGillivray, 1886A, Pl. 126, figs. 1-1b, 2.

Survey area 59 (36), MacGill. Coll. area 58 Port Phillip Heads.

Family HIANTOPORIDAE MacGill., 1895

*Hiantopora* MacGill., 1887

*Hiantopora ferox* (MacGill., 1869)

*Lepralia ferox* MacGill., 1869: 132; 1879: 34, Pl. 38, figs. 8-8c.

Survey areas 59 (36), MacGill. Coll. areas 6 Williamstown, 59 Queenscliff.

On algae.

Family ARACHNOPODIIDAE Harmer, 1957

*Arachnopusia* Jullien, 1888

*Arachnopusia monoceros* (Busk, 1854)

*Lepralia monoceros* Busk, 1854: 72, Pl. 93, figs. 5-6. *Cribrina monoceros* Busk, 1884: 133-134, Pl. 19, figs. 8-8c.

*Lepralia monoceros* MacGill., 1879: 32, Pl. 38, figs. 1-2.

Survey areas 66 (291-2), MacGill. Coll. area 58 Port Phillip Heads.

Division COELOSTEGA Levinson, 1909

Family MICROPORIDAE Hincks, 1880

*Caleschara* MacGill., 1880

*Caleschara denticulata* (MacGill., 1869)

*Eschara denticulata* MacGill., 1869: 138.

Survey area 58 (88), MacGill. Coll. area 55 Schnapper Point.

Family STEGANOPORELLIDAE Hincks, 1884

*Steganoporella* Smitt, 1873

*Steganoporella magnilabris* Busk, 1854

*Membranipora magnilabris* Busk, 1854: 62, Pl. 65, fig. 4.

*Steganoporella magnilabris*, MacGill., 1885: 43-44, Pl. 60, fig. 1-1c.

Survey areas 55 (149), 59 (23) (36).

Type species, *Steganoporella* (*Steginoporella elegans* Smitt (= *Membranipora magnilabris* Busk) according to Osburn 1950: 107.

Family THALAMOPORELLIDAE Levinson, 1902

*Thairopora* MacGill., 1882

*Thairopora cincta* (Hutton, 1878)

*Membranipora cincta* Hutton, 1878: 23.

*Diplopora cincta*, MacGill., 1881: 15, figs. 1-1c.

*Diploporella cincta*, MacGill., 1885: 98.

*Thalamoporella cincta*, Levinson, 1909: 179, 192-193, Pl. 22, figs. 7a-7d.

Survey areas 50 (229), 58 (150-4).

'Of this species I have examined two dry colonies from Port Phillip found in the collections of Algae at the Botanical Museum' (Levinson 1909: 193).

*Thairopora mamillaris* (MacGill., 1860)

(?) Lamouroux, 1816

(?) *Flustra mamillaris* Lamouroux 1816: 110, Pl. 1, figs. 6a-b.

*Membranipora mamillaris* MacGill., 1860A: 165, Pl. 2, fig. 3, Queenscliff (Vict.); 1879: 30, Pl. 25, figs. 4-4a.

*Thairopora mamillaris* MacGill., 1882A: 118, figs. 7-7a; 1890A: 351, Pl. 196, fig. 2.

*Thalamoporella mamillaris* Levinson, 1909: 178-179, 194-195, Pl. 6a, figs. 5-5e.

Survey area 58 (293), MacGill. Coll. area 58  
Queenscliff, on seaweed.  
An Australian species.

**Thairopora** sp.  
Survey area 59 (36).

Division PSEUDOSTEGA Levinsen, 1909  
Family CELLARIIDAE Hincks, 1880  
**Cellaria** Ellis and Solander, 1786  
**Cellaria punctata** (Busk, 1852)

*Salicornaria punctata* Busk, 1852: 366.  
*Salicornaria gracilis* Busk, 1852A: 17, Pl. 63, fig. 3;  
Pl. 65 (bis), fig. 2.  
*Cellaria gracilis*, MacGill., 1880: 50, Pl. 49, fig. 4-4c;  
1885: 94, Pl. 1, fig. 8.

Survey area 59 (36), MacGill. Coll. area  
58 Queenscliff.

Harmer (1926: 338) states that 'In his  
British Museum Catalogue Busk (1852A: 17)  
substituted *Salicornaria gracilis* for *S. punctata*  
of his earlier work (1852: 366) of the same  
year.'

**Cellaria hirsuta** (MacGill., 1869)

*Salicornaria hirsuta* MacGill., 1869: 129.  
*Cellaria hirsuta* MacGill., 1880: 48-49, Pl. 49, figs.  
2-2b.

Survey areas 58 (3) (290), 59 (36), Mac-  
Gill. Coll. area 58 Queenscliff.

MacGillivray (1880: 49) simply states it  
is frequent.

**Cellaria tenuirostris** (Busk, 1852)

*Salicornaria tenuirostris* Busk, 1852A: 17-18, Pl. 63,  
fig. 4.  
*Cellaria tenuirostris*, MacGill., 1880: 49-50, Pl. 49,  
figs. 3-3c.

Survey area 59 (36), MacGill. Coll. area  
58 Queenscliff.

Division CELLULARINA Smitt, 1867

Family FARCMINARIIDAE Busk, 1852

**Didymozoum** Harmer, 1923

**Didymozoum simplex** (Busk, 1852)

*Didymia simplex* Busk, 1852: 35, Pl. 39.  
*Didymia simplex* MacGill., 1880: 34-35, Pl. 46, fig. 6.

Survey area 59 (36), MacGill. Coll. area 58  
Port Phillip Heads.

*Didymozoum* was proposed by Harmer  
(1923: 306-307) to replace *Didymia* Busk  
(pre-occupied by *Didymia* Le Peletier and Ser-  
ville, 1828), and with the same type species  
*Didymia simplex* Busk, 1852 (p. 384).

Family BICELLARIELLIDAE Levinsen, 1909

Various authors have separated this family  
into three, viz. Bicellariellidae, Bugulidae and  
Beaniidae. Harmer (1926: 409-410) only ac-  
cepts Bicellariellidae.

**Beania** Johnston, 1840

**Beania crotali** (Busk, 1852)

*Diachoris crotali* Busk, 1852: 54, Pl. 66, figs. 1-2.  
*Beania crotali*, MacGill., 1886: 68-69, Pl. 117, figs.  
4-5.

Survey area 55 (149), MacGill. Coll. area  
58 Port Phillip Heads.

**Beania magellanica** (Busk, 1852)

*Diachoris magellanica* Busk, 1852: 382; 1852A: 54,  
Pl. 67, figs. 1-3; MacGillivray, 1880: 32, Pl. 46,  
fig. 2.

Survey area 59 (23), MacGill. Coll. Port-  
land.

'This species is distributed around the world  
in the southern hemisphere and as far north as  
the Mediterranean Sea and Japan. In American  
waters it has hitherto been noted only at the  
Straits of Magellan (Busk), and Terra del  
Fuego and the Falkland Islands (Calvet).'  
Osburn 1953: 172.

**Beania spinigera** (MacGill., 1860)

*Diachoris spinigera* MacGill., 1860A: 9, Pl. 2, figs.  
1-2; MacGill., 1880: 32-33, Pl. 46, fig. 3.

Survey area 59 (23), MacGill. Coll. area  
58 Queenscliff.

**Dimetopia** Busk, 1852

**Dimetopia cornuta** Busk, 1852

*Dimetopia cornuta* Busk, 1852: 384; 1852A: 35-36,  
Pl. 29, figs. 2-3.

*Dimetopia cornuta* MacGill., 1880: 34, Pl. 46, fig. 5.  
Survey area 59 (36), MacGill. Coll. area 58  
Queenscliff.

**Dimetopia spicata** Busk, 1852

*Dimetopia spicata* Busk, 1852: 384; 1852A: 35, Pl.  
29, fig. 1.

*Dimetopia spicata*, MacGill., 1880: 33, Pl. 46, fig. 4.

Survey area 59 (36), MacGill. Coll. area 58  
Port Phillip Heads.

**Cornucopina** Levinsen, 1909

**Cornucopina grandis** (Busk, 1852)

*Bicellaria grandis* Busk, 1852: 374; 1852A: 42, Pl. 44,  
figs. 1-3.

*Bicellaria grandis* MacGill., 1881A: 38, Pl. 59, figs.  
2-3.

Survey areas 57 (294), 58 (150-4) (290),

59 (36), 66 (291-2), MacGill. Coll. area 58  
Queenscliff.

**Cornucopina tuba** (Busk, 1852)

*Bicellaria tuba* Busk, 1852: 373; 1852A: 42, Pl. 31,  
figs. 1-4.  
*Bicellaria tuba* MacGillivray, 1880: 37, Pl. 59, fig.  
1a-d.

Survey area 58 (290), MacGill. Coll. area  
58 Queenscliff.

Harmer (1926: 422) stated that in addition  
to *Bicellaria grandis*, inter alia *Bicellaria tuba*  
may be referred to *Cornucopina*.

**Bugula** Oken, 1815

**Bugula dentata** (Lamouroux, 1816)

*Acamarchis dentata* Lamouroux, 1816: 135, Pl. 3,  
fig. 3.  
*Bugula dentata*, Busk, 1852: 46, Pl. 35, figs. 1-5.  
*Bugula dentata*, MacGill., 1885A: 31, fig. 3.

Survey areas 58 (89), 59 (24), 61 (239),  
MacGill. Coll. area 6 Hobson Bay, area 58  
Queenscliff.

At Station 24 growing on *Cellepora prolifera*  
in association with *Crisia tenuis*, *Conopeum*  
*reticulum* and *Scrupocellaria diadema*. *Bugula*  
*dentata* appears to have a wide distribution,  
from S. Africa up the W. coast to the Cape  
Verde Is. and Madeira, as well as on the Aus-  
tralian and Japanese coasts (Harmer 1926:  
441).

**Bugula neritina** (Linnaeus, 1758)

*Sertularia neritina* Linneaus, 1758: 815.  
*Bugula neritina*, MacGill., 1881A: 41, Pl. 59, fig. 7.  
Survey areas 10 (103-5), 12 (196), Mac-  
Gill. Coll. area 6 Hobson Bay, area 58 Queens-  
cliff, Warrnambool.

At Station 103-5 growing on *Mytilus planu-  
latus* in association with *Biflustra papillifera*,  
*Celleporella bougainvillei* and *Bowerbankia* sp.  
This, the type species of the genus, is also  
the best known. It appears to be distributed  
everywhere in warmer waters along the shores  
(Harmer 1953: 154). It might be introduced  
by ships.

**Bugula** sp.

Survey area 12 (196).  
Family SCRUPOCELLARIIDAE Levinsen, 1909  
**Scrupocellaria** van Beneden, 1845  
**Scrupocellaria cyclostoma** Busk, 1852  
*Scrupocellaria cyclostoma* Busk, 1852A: 24-25, Pl. 28,  
figs. 4-5.

*Scrupocellaria cyclostoma* MacGill., 1886: 99-100,  
Pl. 126, fig. 3-3b.

Survey area 58 (88), MacGill. Coll. area 58.  
Port Phillip Heads.

Harmer (1926: 369) indicated that he had  
no satisfactory evidence that an allied species,  
*Scrupocellaria ferox* Busk, 1825 (Busk 1852A:  
25, Pl. 22, figs. 1-2, 5) occurred in S. Australia  
where it seemed to be replaced by *Scrupocel-  
laria cyclostoma* Busk, 1852.

**Scrupocellaria diadema** Busk, 1852

*Scrupocellaria diadema* Busk, 1852: 370; 1852A: 24,  
Pl. 28, figs. 1-3.

*Scrupocellaria cervicornis* Busk, 1852: 370; 1852: 24,  
Pl. 62, figs. 1-4; MacGill., 1886: 101, Pl. 126,  
figs. 6-7.

*Scrupocellaria diadema*, Harmer, 1926: 375-378, Pl.  
25, figs. 20-25.

Survey area 59 (24), MacGill. Coll. area  
58 Port Phillip Heads.

On *Cellepora prolifera* in association with  
*Crisia tenuis*, *Conopeum reticulum* and *Bugula*  
*dentata*.

**Scrupocellaria ornithorhynchus** Wyville  
Thomson, 1858

*Scrupocellaria ornithorhynchus* Wyville Thomson,  
1858: 144, Pl. 12, fig. 2.

Survey area 59 (36), MacGill. Coll. area 58  
Port Phillip Heads.

*Scrupocellaria ornithorhynchus* was described  
from Bass Strait by Wyville Thomson as having  
4-5 long spines, a well-developed proximal  
cryptocyst, and a narrow, curved distal lobe in  
its scutum. The lobe appears to be variable in  
Victorian specimens (Harmer 1926: 373).

**Scrupocellaria scruposa** Busk, 1852

*Scrupocellaria scruposa* Busk, 1852A: 24, Pl. 21, figs.  
1-2.

*Scrupocellaria scruposa* MacGill., 1886A: 101, Pl. 126,  
fig. 8.

Survey areas 11 (212), 12 (196), 35 (71),  
53 (253), 55 (149), 58 (290), 59 (36), 66  
(291-2), MacGill. Coll. areas 58 Port Phillip  
Heads.

**Scrupocellaria scruposa** (Linnaeus, 1758)

*Sertularia scruposa* Linnaeus, 1758: 815.  
*Scrupocellaria scruposa* Busk, 1852, Pl. 22, figs. 3-4.  
Survey areas 7 (123), 11 (212), 12 (196),  
21 (115), 35 (71), 55 (39), 57 (294), 58  
(Ocean Beach, Point Nepean intertidal coll.  
29 June 1963) 59.

A very widely distributed species.

**Amastigia** Busk, 1852

**Amastigia rufis** (Busk, 1852)

*Cabera rufis* Busk, 1852: 377; 1852A: 38, Pl. 46, figs. 1-3; MacGill., 1887B: 137, Pl. 136, fig. 1. *Amastigia rufis*, Harmer, 1923: 332, Pl. 17, figs. 26-27; Pl. 19, figs. 49, 52; 1926: 349-351, Pl. 23, figs. 9-13.

Survey area 58 (150-4), MacGill. Coll. area 58 Port Phillip Heads.

This species is common and widely distributed in the W. Pacific from Japan to Australia, where it is known to extend from Victoria, through to Queensland. It has not been reported from the E. Pacific region (Harmer 1926: 350; Osburn 1953: 127).

**Bugulopsis cuspidata** (Busk, 1852)

*Cellularia cuspidata* Busk, 1852: 19.

Survey areas 58 (88) (290), 59 (36) (87), 66 (291-2).

**Caberea Lamouroux** 1816

**Caberea darwinii** Busk, 1852

*Caberea darwinii*, Busk 1884: 29, Pl. 32, fig. 6.

Survey area 59 (36), MacGill. Coll. area 58 Port Phillip Heads.

**Caberea glabra** MacGillivray, 1886

*Caberea glabra* MacGill., 1887: 142, Pl. 137, figs. 2-4.

Survey area 59 (36), MacGill. Coll. area 58 Port Phillip Heads.

*Caberea transversa* Harmer, 1926 resembles *Caberea grandis* Hincks, 1881 (see next species), which differs from it in being pluriserial and in having occasional gigantic frontal avicularia. It appears to be also related to *Caberea glabra* MacGillivray, 1886, which differs from it in its larger spines and in the larger size of the frontal avicularia.

**Caberea grandis** Hincks, 1881

*Caberea grandis* Hincks, 1881: 2.

Survey area 59 (36), MacGill. Coll. area 58 Port Phillip Heads.

There is only a slight serration in Victorian specimens.

**Caberea** sp.

Survey areas 56 (295), 59 (24).

**Canda** Lamouroux, 1816

**Canda arachnoides**, Lamouroux, 1816

*Canda arachnoides*, Lamouroux, 1816: 131.

Survey area 58 (88), MacGill. Coll. area 58 Port Phillip Heads.

**Canda tenuis** MacGillivray, 1885

*Canda tenuis* MacGill., 1885: 108, Pl. 4, fig. 1; MacGill., 1887: 139-140, Pl. 136, figs. 4-4b.

Survey area 58 (88), MacGill. Coll. area 58 Port Phillip Heads.

Readily distinguished from *C. arachnoides* by its much smaller size, more slender and straggling branches, which do not grow so much in one plane, narrower and more pointed avicularian mandible, and especially by the vibracular grooves for the lodgment of the setae extending across the median line on the surface of a cell of the other series (MacGillivray: 139-140).

**Menipea** Lamouroux, 1812

**Menipea crystallina** Gray, 1843

*Menipea crystallina* Gray, 1843, Dieffenbach, New Zealand, 2, p. 293; MacGillivray, 1881A: 31-32, Pl. 58, figs. 2-2b.

Survey areas 57 (295), 58 (88), 59 (36), MacGill. Coll. area 58 Queenscliff.

**Menipea** sp.

Survey area 59 (225).

Suborder ASCOPHORA Levinsen, 1909

Family HIPPOTHOIDAE Levinsen, 1909

**Celleporella** Gray, 1848

**Celleporella hyalina** (Linnaeus, 1767)

*Cellepora hyalina*, Linnaeus, 1767: 1286.

*Schizoporella hyalina* MacGill., 1889A: 314-315, Pl. 186, figs. 7-9.

Survey areas 10 (103-5), 58 (88), 61 (239), 69 (221), MacGill. Coll. area 6 Williamstown, area 58 Queenscliff.

At (103-5) growing on *Mytilus planulatus* in association with *Biflustra papillifera*, *Bugula neritina* and *Bowerbankia* sp. It is a truly cosmopolitan species, occurring around the world and from the Arctic, where it is often excessively abundant, to the tropics (Osburn 1952: 277).

Family EUTHYROIDIDAE Levinsen, 1909

**Ethyroides** Harmer, 1903

**Ethyroides episcopalensis** (Busk, 1852)

*Carbasea episcopalensis* Busk, 1852: 379; 1852A: 52, Pl. 48, figs. 1-2; Pl. 55, fig. 3.

*Carbasea episcopalensis* MacGill., 1880: 28, figs. 2-2c.

Survey area 58 (150-4), MacGill. Coll. area 58 Queenscliff.

The ovicells are very peculiar, presenting a

curious resemblance to a bishop's mitre (MacGillivray 1880:28).

Family SCHIZOPORELLIDAE Jullien, 1883

*Schizoporella* Hincks, 1877

*Schizoporella biturrita* Hincks, 1884

*Schizoporella biturrita* Hincks, 1884: 280; MacGill., 1889A: 313, Pl. 186, figs. 5-5b.

Survey areas 58 (88), 59 (36), MacGill. Coll. area 58 Port Phillip Heads.

MacGillivray (1889: 313) was prompted to state, 'This very peculiar and striking species is readily distinguished. It forms thick, calcareous layers, usually surrounding the stems of small dark algae'.

*Schizoporella* sp.

Survey areas 57 (294), 58 (150-4).

Family MICROPORELLIDAE Hincks, 1879

*Microporella* Hincks, 1877

*Microporella ciliata* (Pallas, 1766)

*Eschara ciliata* Pallas, 1766: 38.

*Lepralia ciliata*, Busk, 1854: 73, Pl. 74, figs. 1-2, Pl. 77, figs. 3-5.

*Lepralia ciliata* MacGill., 1879A: 28, Pl. 37, figs. 1-1b.

Survey areas 5 (57), 11 (190), 35 (71), MacGill. Coll. area 58 Queenscliff; Port Fairy, Warrnambool.

At station 57 growing on *Mytilus planulatus* in association with *Mucopetraliela watersi* and *Celleporaria foliata*. A cosmopolitan species in which Osburn (1952: 375) encountered such a remarkable degree of variation from the Pacific Coast of America that he was prompted to state, 'The question of what is a "good species" rises again and again in this genus, as most of the differential characters are subject to variation' (Powell 1967: 289 also has quoted this last sentence).

*Fenestrulina* Jullien, 1888

*Fenestrulina malusii* (Audouin, 1826)

*Cellepora malusii* Audouin, 1826: 239; 1828: 66; Savigny, De, Pl. 8, fig. 8.

*Lepralia malusii*, Busk, 1854: 83, Pl. 103, figs. 1-4; MacGillivray, 1879A: 27, figs. 8-8b.

Survey areas 6 (137), 58 (88), 66 (291-2), MacGill. Coll. area 58 Queenscliff on shell and algae. It apparently occurs around the world in tropical and temperate waters (Osburn 1952: 388).

*Fenestrulina* sp.

Survey area 66.

Family PETRALIELLIDAE Harmer, 1957

*Mucopetraliella* Stach, 1936

*Mucopetraliella ellerii* (MacGill., 1869)

*Lepralia ellerii* MacGillivray, 1869: 135; 1879A: 31, Pl. 37, figs. 8-8b.

Survey areas 5 (51-58), 42 (38), MacGill. Coll. area 6 Williamstown on algae and shells.

Stach (1936) has chosen *Mucopetraliella ellerii* as type species, and Harmer (1957) has described the species under two Sections (A, B) characterized respectively by the absence or presence of oral spines. Oral spines are wanting in *Mucopetraliella ellerii* (Section A).

*Mucopetraliella serrata* (Livingstone, 1926)

*Petralia vultur* var. *serrata* Livingstone, 1926: 95, Pl. 6, figs. 7-10.

Survey area 58 (293), MacGill. Coll. area 58 Port Phillip Heads.

Oral spines present (Section B).

*Mucopetraliella watersi* Harmer, 1957

*Petralia vultur* var. *armata* Waters, 1913: 518, Pl. 70, figs. 15-20.

*Mucopetraliella watersi* Harmer 1957: 721, Pl. 46, fig. 9, Fig. 67.

Survey area 5 (57).

Growing on *Mytilus planulatus* in association with *Microporella ciliata* and *Celleporaria foliata*.

*Mucopetraliella* sp.

Survey area 66 (294).

Family SMITTINIDAE Levinsen, 1909

*Parasmittina* Osburn, 1952

*Parasmittina trispinosa* (Johnston, 1838)

*Discopora trispinosa* Johnston, 1838: 222.

Survey area 59 (36).

Osburn (1952: 412) comments, 'If all the varieties which have been described under this species really belong here, it is probably the most variable species known. It has been given cosmopolitan distribution'.

*Parasmittina macphersonae* Powell, 1957

*Smittia reticulata* MacGillivray, var. *spatulata* MacGillivray, 1883: 135, Pl. 3, figs. 14-14a.

Survey area 11 (212).

From the description by Powell (1957: 381, Pl. 17, fig. c), it is quite clear that the species intended by him is identical with *Smittia reticulata spathulata*.

**Smittina** Norman, 1903  
**Smittina** sp.

Survey area 10.

Family MARGARETTIDAE Harmer, 1957  
**Margareta** Gray, 1843

**Margareta hirsuta** (Lamouroux, 1816)

*Cellaria hirsuta* Lamouroux, 1816: 126, Pl. 2, figs. 4a, B "Amérique".  
*Tubucellaria hirsuta* MacGill., 1880: 52, Pl. 49, figs. 6-6a, Vict.

Survey area 58 (150-4), MacGill. Coll. area 58 Queenscliff.

*Margareta* has been recognized as a valid generic name. 'On the assumption that *Tubucellaria* is a synonym of *Margareta*, Tubucellariidae should be replaced by Margarettidae' (Harmer 1957: 824).

Family RETEPORIDAE Smitt, 1867  
**Retepora** Lamarck, 1801

**Retepora avicularis** MacGill., 1884

*Retepora avicularis*, MacGill., 1884: 288, Pl. 2, fig. 6; 1885C: 16, Pl. 94, fig. 16; Pl. 95, figs. 7-11.  
*Retepora jacksoniensis*, Busk, 1884: 125, Pl. 27, fig. 4.

Survey areas 58 (89) (150-4) (290), 59 (36), MacGill. Coll. area 58 off Port Phillip Heads.

At (89) on sponge.

**Retepora** sp.

Survey areas 57 (294), 59 (87).

**Rhynchozoon** Hincks, 1895

**Rhynchozoon tubulosum** (Hincks, 1880)

*Mucronella* (?) *tubulosa* Hincks, 1880: 383, Pl. 17, fig. 7.

*Rhynchopora profunda*, MacGill., 1883: 193, Pl. 2, figs. 8-8b.

*Rhynchopora longirostris* MacGill., 1890: 356, Pl. 196, figs. 13-13b.

Survey area 30 (13), MacGill. Coll. area 58 Port Phillip Heads.

Growing on *Mytilus planulatus* in association with *Conopeum reticulum* and *Celleporaria foliata*. Osburn (1952: 454) remarks that the species of the genus *Rhynchozoon* often are difficult to determine, as secondary calcification, which is very heavy, obscures the primary characters and these can be found only on the

young zooecia at the edge of the colony. It is one of the genera that 'try men's souls'.

**Schizoretepora** Gregory, 1893

**Schizoretepora tessellata** (Hincks, 1878)

*Retepora tessellata* Hincks, 1878: 358, Pl. 19, figs. 9-12; MacGillivray, 1885C: 29-30, Pl. 99, figs. 4-8.

Survey area 57 (294), 58 Point Nepean intertidal coll. (ocean beach) 29 June 1963, 59 (36), MacGill. Coll. area 58 Port Phillip Heads.

**Triphyllozoon** Canu and Bassler, 1917

**Triphyllozoon monilifera** (MacGillivray, 1860)

*Retepora monilifera* MacGillivray, 1860A: 168, Pl. 3, figs. 6-9.

*Retepora monilifera* form. *monilifera* MacGill., 1885, pp. 20-21; Pl. 96, figs. 1-3, Pl. 94, fig. 1.

Survey areas 57 (294), 58 (80) (290) (intertidal collecting ocean beach Point Nepean, 29 June 1963), 59 (23) (24) (36), MacGill. Coll. area 59 Queenscliff.

Type species selected by Canu and Bassler (1917) *Retepora monilifera* MacGill., 1860: 168 = *Retepora monilifera* forma *moniliferae* MacGill., 1885: 20-21 (Harmer 1934: 590). 'This common form is confined to shallow water. On the framework of the wooden pier at Queenscliff it forms large masses, almost dry at low tide' (MacGillivray 1885: 20).

Family ADEONIDAE Jullien, 1903

**Adeona** Lamouroux, 1812

**Adeona grisea** Lamouroux, 1816

*Adeona grisea*, Lamouroux, 1816. Exposition Méthodique, p. 40, t.70, fig. 5.

*Dictyopora grisea* MacGill., 1882: 23-24, figs. 1-1e.

Survey areas 56 (295), 58 (290), 59 (36), MacGill. Coll. area 58 Port Phillip Heads.

**Adeona** sp.

Survey area 69 (24).

**Adeonella** Busk, 1884

**Adeonella cellulosa** (MacGill., 1869)

*Dictyopora cellulosa*, MacGill., 1869: 140; 1880: 37-38, Pl. 47, figs. 1-1d.

Survey areas 56 (295), 69 (221), MacGill. Coll. area 58 Queenscliff.

**Adeonella gracilis** (Lamouroux, 1824)

*Eschara gracilis* Lamouroux, 1824: 375; Busk, 1854: 91, Pl. 108, figs. 5-7; MacGill., 1880: 40-41, Pl. 48, figs. 3-3c.

Survey area 58 (290), MacGill. Coll. area 58 Queenscliff.

MacGillivray (1887: 190) may be considered to have accepted *Eschara gracilis* as the type species of *Porina* (Harmer 1957: 843).

**Adeonellopsis** MacGillivray, 1886

**Adeonellopsis mucronata** (MacGill., 1869)

*Lepralia mucronata* MacGill., 1869: 134.  
*Eschara mucronata*, 1880: 43-44, Pl. 48, figs. 6-6c, 7-7d.

Survey area 58 (88), MacGill. Coll. area 58 Queenscliff on shell, area 55 Schnapper Point.

**Adeonellopsis** sp.

Survey area 56 (295), 58 (150-4).

Family CELLEPORARIIDAE Harmer, 1957

**Celleporaria** Lamouroux, 1821

'The species of *Celleporaria* are so difficult to distinguish that I think it necessary to subjoin notes on certain other species which appear to be allied to *C. fusca*' (Harmer 1957: 683).

**Celleporaria foliata** (MacGill., 1888)

*Cellepora foliata* (MacGill.), 1888A: 246, Pl. 166, figs. 2-2a; Pl. 168, fig. 10.

Survey areas 5 (57), 10 (103), 30 (130), 43 (303), 59 (24, 36).

At station 57 growing on *Mytilus planulatus* in association with *Microporella ciliata* and *Mucropetraliella watersi* and also at (130) in association with *Conopeum reticulum* and *Rhynchocoelium tubulosum*. '*C. foliata* MacGill. seems to be a distinct species' (Harmer 1957: 684).

**Celleporaria verrucosa** MacGillivray, 1880

*Cellepora verrucosa* (MacGill.) 1882; 245-246, Pl. 166, 1-1f; P. 168, fig. 15.

Survey areas 6 (65), 29 (174), 57 (294), 59 (24).

At station 174 growing on *Mytilus planulatus* in association with *Conopeum reticulum*.

**Celleporaria albirostris** (Smitt, 1873)

*Discopora albirostris* Smitt, 1873; 70, Pl. 12, figs. 234-239.

*Holoporella albirostris*, Osburn, 1952: 497, Pl. 61, figs. 3-6 = *Celleporaria tridenticulata* (Powell 1967: 374).

Survey area 62 (96), MacGill. Coll. area 58 Port Phillip Heads.

'*C. albirostris* Smitt as *Discopora albirostris* forma *typica* should be placed in *Celleporaria*'

(Harmer 1957: 684). Smitt described the species from Florida, and it is a common species in the Gulf of Mexico and the Caribbean Sea. It has been recorded from the Indian Ocean and from Australia (Osburn 1952: 498).

**Celleporaria mamillata** (Busk, 1854)

*Cellepora mamillata* Busk, 1854: 87, Pl. 120, figs. 3-5. Survey area 61 (239).

'The operculum differs so much from those of *C. fusca* that the two species may confidently be regarded as distinct' (Harmer 1957: 683).

**Celleporaria prolifera** (MacGill., 1888)

*Cellepora prolifera* (MacGill., 1888A: 247, Pl. 166, figs. 4-4b.

Survey areas 6 (65), 55 (39), 58 (290), 59 (24) (36), Maple. Coll. Portland.

At station 24 it has *Crisia tenuis*, *Conopeum reticulum*, *Bugula dentata* and *Scrupocellaria diadema* growing on it.

**Celleporaria** sp.

Survey areas 6 (137), 35 (71), 55 (39), 56 (295), 57 (294), 58 (88) (290), 59 (36), 61 (242), 66 (291-2).

At (39) growing on *Mytilus planulatus*.

Family CELLEPORIDINAE Harmer, 1957

**Celleporina** Gray, 1848

**Celleporina costazii** (Audouin, 1826)

*Cellepora costazii* Audouin, 1826: 237; 1828: 64; Savigny, Pl. 7, figs. 41-46.  
? *Cellepora costazii* MacGillivray, 1885: 116, figs. 3a-b.

Survey area 58 (290), MacGill. Coll. area 58 Port Phillip Heads.

Specimens determined as *Cellepora costazii* have been recorded from the tropical and temperate parts of all the oceans (Harmer 1957: 903).

Family VITTATICELLIDAE Harmer, 1957

'Since *Catenicella* cannot be accepted in the generally adopted sense, the Family name Catenicellidae is also invalid; and I accordingly suggest in its place the new name Vittaticellidae, *Vittaticella* being the genus which includes the largest number of species' (Harmer 1957: 765). 'The family, which is abundant in the Australian seas, is scarcely represented N. of the equator and hitherto no species has been

recorded from the W. coasts of the Americas' (Osburn 1952: 286).

**Vittaticella** Maplestone, 1901

**Vittaticella elegans** (Busk, 1852)

*Catenicella elegans* Busk, 1852: 361, Pl. 1, fig. 2; 1852A: 10, Pl. 9, figs. 3-4; MacGill., 1879: 23, Pl. 24, figs. 10-10b.

Survey areas 58 (150-4), 59 (36) (79).

MacGillivray (1879: 23) states, 'frequent', 'Occurs commonly on the S. coast of Australia and off New Zealand' (Harmer 1957: 770). 'Distributed around the world in warmer waters' (Osburn 1952: 287).

**Vittaticella buskii** (Wyville Thomson, 1858)

*Catenicella buskii* Wyville Thomson, 1859: 139, Pl. 11, fig. 2; MacGillivray, 1879: 24, figs. 13-13b.

Survey areas 58 (150-4), 59 (36) (225), MacGill. Coll.

**Vittaticella perforata** (Busk, 1852)

*Catenicella perforata*, Busk, 1852A: 10, Pl. 8, figs. 1-2; MacGillivray, 1879: 24, figs. 11-11e.

Survey area 59 (36).

**Vittaticella** sp.

Survey areas 58 ( ), 59 (87).

**Costaticella** Maplestone, 1899

**Costaticella hastata** (Busk, 1852)

*Catenicella hastata* Busk, 1852: 355; 1852A: 7, Pl. 2, figs. 3-4; MacGillivray, 1879: 19, figs. 4-4c.

Survey areas 58 (88) (290), 59 (36), MacGill. Coll. area 58 Queenscliff.

Distribution in Australia: Vict. N.S.W., Bass Strait, Tas. (Powell 1967: 243).

**Scuticella** Levinsen, 1909

**Scuticella lorica** Busk, 1852

*Catenicella lorica* Busk, 1852: 358; Busk, 1852A: 6, Pl. 1, figs. 1-3; MacGill., 1879: 24, figs. 8-8b.

Survey area 58 (150-4), MacGill. Coll. area 58 Queenscliff.

**Scuticella margaritacea** (Busk, 1852)

*Catenicella margaritacea* Busk, 1852: 356; 1852A: 9, Pl. 6, figs. 1-3; MacGill., 1879: 15-16, Pl. 24, figs. 1-1d.

*Scuticella margaritacea* Levinsen, 1909: 229-230, Pl. 20, fig. 3a, Pl. 11, figs. 5a-c.

Survey areas 58 (150-4), 59 (36).

MacGillivray (1879: 16) simply states, 'common on the Victorian coasts'.

**Scuticella plagiostoma** (Busk, 1852)

*Catenicella plagiostoma* Busk, 1852: 358; 1852A: 8-9, Pl. 5, figs. 1-2; MacGill., 1879: 17-18, Pl. 24, figs. 2-2c.

Survey area 59 (36).

'Very common' in Vict. (MacGillivray 1879: 17).

**Scuticella ventricosa** (Busk, 1852)

*Catenicella ventricosa* Busk, 1852: 357; 1852A: 7, Pl. 2, figs. 1-2; Pl. 3, figs. 1-5; MacGill., 1879: 18, Pl. 24, figs. 3-3b.

Survey area 59 (36).

S. Aust., Vict., N.S.W., Tasm. (Powell 1967: 240).

**Cornuticella** Canu and Bassler, 1927

**Cornuticella cornuta** (Busk, 1852)

*Cornuticella cornuta* Busk, 1852: 361; Busk, 1852A: 11, Pl. 10, figs. 1-3.

*Cornuticella comuta* MacGill., 1879: 27; 1885B: 34, Pl. 90, figs. 3-3c.

*Catenaria cornuta* Levinsen, 1909: 256-7, Pl. 13, figs. 5a-c; Pl. 21, fig. 1a.

Survey area 57 (294), MacGill. Coll. area 58 Queenscliff.

Victoria, Bass Strait (Powell 1967: 241).

**Pterocella** Levinsen, 1909

**Pterocella alata** (Wyville Thomson, 1858)

*Catenicella alata* Wyville Thomson, 1858: 137; Levinsen, 1909: 246-247; MacGill., 1879, Pl. 24, figs. 7-7b.

Survey areas 58 (293), 59 (87), MacGill. Coll. area 58 Queenscliff.

Australia: N.S.W., Vict., Tasm. (Powell 1967: 244).

**Claviporella** MacGill., 1895

**Claviporella aurita** (Busk, 1852)

*Catenicella aurita* Busk, 1852A: 8, Pl. 4, figs. 1-3; MacGill., 1879: 26, Pl. 24, figs. 16-16c.

Survey area 58 (150-4).

*Claviporella pulchra* (McGill.) and *Claviporella imperforata* (McGill.)—the last mentioned species closely allied to *C. aurita*—were both taken at Port Phillip Heads (MacGillivray, 1887C: 176-177) but do not occur in the Survey material.

**Claviporella geminata** (Wyville Thomson, 1858)

*Catenicella geminata* Wyville Thomson, 1858: 84, Pl. 7, figs. 3-4; MacGillivray, 1879: 26-27, Pl. 24, figs. 17-17b.

*Claviporella geminata* Levinsen, 1909: 242-243, Pl. 12, figs. 3a-b.

Survey area 58 (88), MacGill. Coll. area 58 Queenscliff.

'Of this species I have seen a few fragments from Port Phillip' (Levinsen 1909: 243).

### **Calpidium** Busk, 1852

#### **Calpidium ponderosum** (Goldstein, 1880)

*Catenicella ponderosa* Goldstein, 1880: 63, Pl. 5, figs. 1-3.

*Calpidium ponderosum* MacGill., 1885D: 31-32, Pl. 107, figs. 3-3c; Levinsen, 1909: 249-251, Pl. 21, figs. 5a-c; Pl. 13, figs. 1a-d.

Survey area 59 (36), MacGill. Coll. area 58 Port Phillip Heads.

*Calpidium ornatum* (Busk) is taken at Port Phillip Heads, 'seemingly very rare' (MacGillivray 1885: 33-34, Pl. 108, figs. 1-1b).

### Family CALWELLIIDAE MacGill., 1887

#### **Calwellia** Wyville Thomson, 1858

#### **Calwellia bicornis** Wyville Thomson, 1859

*Calwellia bicornis* Wyville Thomson, 1859: 92, Pl. 9, figs. 2-2a; MacGill., 1880: 35-36, Pl. 46, figs. 7-7b.

Survey areas 58 (88), 59 (36), MacGill. Coll. area 58 Queenscliff.

#### **Calwellia gracilis** Maplestone, 1882

*Calwellia gracilis* Maplestone, 1882: 48, Pl. 1, fig. 9.

Survey area 59 (36) MacGill. Coll. area 58 Queenscliff.

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TABLE 1

List of Species Discussed by MacGillivray in *Prodromus of Zoology* 1879-89

The species discussed by MacGillivray in McCoy's *Prodromus* are listed in alphabetical order with the author and date, followed by alterations from MacGillivray either due to generic change or change in synonymy.

Numbers 1-21 refer to the localities from which MacGillivray recorded the various species:

1. Port Phillip Heads
2. Queenscliff
3. Sorrento

4. Spring Creek near Geelong.
5. Schnapper Point, Mornington
6. Point Cook
7. Brighton
8. Williamstown
9. Hobsons Bay
10. Portland
11. Lady Bay, Portland
12. Port Fairy
13. Warrnambool
14. Cape Otway
15. Lorne
16. King Island
17. Cape Schank

18. Western Port  
 19. Wilsons Promontory  
 20. Sealers Cove  
 21. Widespread, usually common
- Species collected on the 1957-63 Port Phillip Survey are preceded by an asterisk.
- \* *Aetea anguina* (Linnaeus, 1758) 1
  - Aetea dilatata* Busk, 1852 1
  - \* *Aetea recta* Hincks, 1880 = *Aetea sica* (Couch, 1844) 1
  - \* *Amathia australis* Tenison Woods, 1877 1
  - A. bicornis* Tenison Woods, 1878 1
  - \* *A. inarmata* MacGill., 1887 1
  - A. spiralis* Lamouroux, 1816 1
  - \* *A. tortuosa* Tenison Woods, 1880 1, 20
  - Amphilestrum albispinum* MacGill., 1881 2, 10
  - A. flemingii* Busk, 1854 1
  - A. patellarium* Waters, 1879 1
  - A. permunitum* Hincks, 1881 1, 10
  - A. punctigerum* Hincks, 1881 1
  - Bathypora porcellana* MacGill., 1884 10
  - Beania conferta* MacGill., 1890 1, 10
  - \* *B. costata* (Busk, 1884) 1
  - B. crotali* (Busk, 1852) 1, 10
  - B. decumbens* MacGill., 1881 1
  - B. intermedia* Hincks, 1881 1
  - B. mirabilis* Johnston, 1840 1
  - B. radicifera* (Hincks, 1881) 1
  - B. wilsoni* MacGill., 1884 1
  - Bicellaria ciliata* (Linnaeus, 1858) 2, 10
  - \* *B. grandis* = *Corucopina grandis* (Busk, 1852) 2 14
  - \* *B. tuba* = *C. grandis tuba* (Busk, 1852) 2, 10, 18
  - B. turbinata* MacGill., 1869 2
  - Biflustra bimamillata* (MacGill., 1885) 10
  - B. delicatula* Busk, 1859 2
  - \* *B. papuifera* = *Membranipora papulifera* (MacGill., 1881) 1
  - \* *B. perfragilis* = *M. perfragilis* (MacGill., 1881) 1, 16
  - Bracebridgia pyriformis* (Busk, 1886) 21
  - Bugula avicularia* Pallas, 1766 9
  - B. cucullata* Busk, 1867 2, 10
  - \* *B. dentata* (Lamouroux, 1816) 2, 9.
  - \* *B. neritina* (Linnaeus, 1758) 2, 9, 13
  - B. robusta* MacGill., 1869 18
  - \* *Caberea darwinii* Busk, 1852 1, 10
  - \* *C. glabra* MacGill., 1886 1
  - \* *C. grandis* Hincks, 1881 1
  - \* *C. rudis* = *Amastigia rudis* (Busk, 1852) 1, 10
  - \* *Caleschara denticulata* (MacGill., 1869) 2, 5, 13
  - Calpidium ornatum* Busk, 1852 1
  - \* *C. ponderosum* (Goldstein, 1880) 1
  - \* *Cawellia bicornis* Wyville Thomson, 1859 2
  - \* *Canda arachnoides* Lamouroux, 1816 1, 10
  - C. tenuis* MacGillivray, 1885 1
  - \* *Carbasea dissimilis* = *Bugula dissimilis* (Busk, 1852) 2, 16
  - C. elegans* Busk, 1852 2, 10
  - \* *C. episcopalensis* = *Euthyroides episcopalensis* (Busk, 1852) 2, 16
  - C. indivisa* Busk, 1852 2, 10, 13-14
  - C. pisciformis* Busk, 1852 2, 10
  - \* *Catenicella alata* = *Pterocella alata* (Wyville Thomson, 1858) 2
  - \* *C. amphora* Busk, 1852 1
  - aurita* = *Claviporella aurita* (Busk, 1852) 21
  - buskii* = *Vittaticella buskii* (Wyville Thomson, 1858) 21, rare
  - \* *C. carinata* Busk, 1852 21, rare
  - cornuta* = *Cornuticella cornuta* (Busk, 1852) 2
  - C. cribalaria* Busk, 1852 2, 18, 20
  - C. crystallina* Wyville Thomson, 1858 21
  - \* *C. formosa* Busk, 1852 2, 17
  - fusca* MacGill., 1885 2
  - gemella* MacGill., 1886 1
  - geminata* = *Claviporella geminata* (Wyville Thomson, 1858) 2
  - gracilenta* MacGill., 1884 1
  - hastata* = *Costaticella hastata* (Busk, 1852) 2, 14, 18
  - hannafordii* MacGill., 1868 11
  - intermedia* MacGill., 1868 1, 2
  - lorica* = *Scuticella lorica* (Busk, 1852) 2
  - margaritacea* = *S. margaritacea* (Busk, 1852) 21
  - \* *C. perforata* = *Vitaticella perforata* (Busk, 1853) 21, rare
  - \* *C. plagiostoma* = *Scuticella plagiostoma* (Busk, 1852) 21
  - pulchella* Maplestone, 1880 1, 2
  - ringens* Busk, 1852 1
  - rufa* MacGill., 1868 21
  - umbonata* Busk, 1852 1
  - urnula* MacGill., 1886 1
  - utriculus* MacGill., 1885 13
  - ventricosa* = *Scuticella ventricosa* (Busk, 1852) 21
  - venusta* MacGill., 1886 1
  - wilsoni* MacGill., 1880 1
  - Catenicellopsis delicatula* Wilson, 1880 14
  - C. pusilla* Wilson 1880 4
  - Cellaria fistulosa* (Linnaeus, 1758) 2, 10
  - \* *C. gracilis* (Busk, 1852) = *Cellaria punctata* (Busk, 1852) 2, 20
  - \* *C. hirsuta* (MacGill., 1869) 2, 10
  - rigida* MacGill., 1884 1
  - \* *C. tenuirostris* (Busk, 1852) 2, 20
  - \* *Cellepora albirostris* = *Celleporaria albirostris* (Smit, 1873) 1
  - benemunita* MacGill., 1887 1
  - bispinata* Busk, 1854 1, 10, 13
  - cidaris* MacGill., 1888 1
  - costata* MacGill., 1868 1, 10, 13, 19
  - \* *C. costaezi* = *Celleporina costazii* (Audouin, 1826) 1
  - diadema* MacGill., 1888 1
  - \* *C. foliata* = *Celleporaria foliata* (MacGill., 1888) 10
  - fusca* Busk, 1854 10
  - glomerata* MacGill., 1887 1
  - intermedia* MacGill., 1868 2
  - lirata* MacGill., 1888 1
  - magnirostris* MacGill., 1888 1
  - megasoma* (MacGill., 1879) 1
  - platalea* MacGill., 1884 1
  - \* *C. prolifera* = *Celleporaria prolifera* (MacGill., 1888) 10
  - rota* MacGill., 1884 1

- C. serratirostris* MacGill., 1884 1  
*C. simplex* MacGill., 1888 1  
*C. speciosa* MacGill., 1886 1  
*C. spicata* MacGill., 1888 1  
*C. tiara* MacGill., 1887 1  
*C. tridenticulata* Busk, 1884 1, 13  
\* *C. verrucosa* = *Celleporaria verrucosa* MacGill., 1888 10  
*C. vitrea* MacGill., 1887 1  
\* *Cellularia cuspidata* = *Bugulopsis cuspidata* (Busk, 1852) 2  
*Chlidonia daedala* Wyville Thomson, 1858 21  
*Claviporella imperforata* MacGill., 1886 1  
*C. pulchra* MacGill., 1886 1  
*Craspedozoum ligulatum* MacGill., 1885 1  
*C. roboratum* Hincks, 1881 1  
*C. spicatum* MacGill., 1885 1  
*Cribrilina acanthoceros* MacGill., 1886 1, 10  
*C. monoceros* Busk, 1854 1, 10, 13  
*C. radiata* (Moll., 1803) 1  
*C. setirostris* MacGill., 1882 1  
\* *Crisia acropora* Busk, 1852 2, 8  
*C. biciliata* MacGill., 1869 8, 13  
\* *C. edwardsiana* (d'Orbigny, 1839) 8  
*C. setosa* MacGill., 1868 2, 8  
\* *C. tenuis* MacGillivray, 1879 2  
*Cyclopora longipora* (MacGill., 1882) 1  
*Diachoris magellanica* = *Beania magellanica* (Busk, 1852) 10  
*D. spinigera* = *B. spinigera* (MacGill., 1860) 2, 10, 19  
*Diastopora bicolor* MacGill., 1889 1  
*D. capitata* MacGill., 1886 1  
*D. patina* Lamarck, 1816 1  
*D. cristata* MacGill., 1886 1  
\* *D. sarniensis*, ? *Berenicea sarniensis* (Norman, 1864) 1  
*Dictyopora albida* *avicularis* MacGill., 1881 1  
\* *D. cellulosa* = *Adeonella cellulosa* (MacGill., 1869) 2  
\* *D. grisea* = *Adeona grisea* Lamouroux, 1816 1  
\* *D. wilsoni* MacGill., 1881 1  
\* *Didymia simplex* = *Didymozoum simplex* (Busk, 1852) 2, 10  
*Dimetopia cornuta* Busk, 1852 2, 10, 19  
*D. hirta* MacGill., 1885 1  
*D. spicata* Busk, 1852 2, 10, 14  
*Electra amplexens* (Hincks, 1881) 1  
*E. flagellum* (MacGill., 1881) 2  
*Eschara dispar* MacGill., 1869 2  
\* *E. gracilis* = *Adeonella gracilis* (Lamouroux, 1824) 2  
\* *E. mucronata* = *Adeonellopsis mucronata* (MacGill., 1869) 2, 5  
*E. obliqua* MacGill., 1869 5  
*E. platalea* Busk, 1854 2  
*E. quadrata* MacGill., 1879 2, 10  
*Escharipora stellata* Smith, 1873 1  
*Farcimnia appendiculata* Hincks, 1883 1  
*Farciminaria aculeata* Busk, 1852 1  
*F. simplex* MacGill., 1885 1  
*F. uncinata* Hincks, 1884 1  
*Fasciculipora bellis* MacGill., 1883 1  
*F. fruticosa* MacGill., 1883 1  
*F. gracilis* MacGill., 1882 1  
*F. ramosa* (d'Orbigny, 1850) 10  
*Flosculipora pygmaea* MacGill., 1886 1  
\* *Flustra denticulata* = *Spiralaria denticulata* (Busk, 1852) 2  
*Gemmellipora striatula* Smitt, 1873 1  
*Hippothoa distans* MacGill., 1869 1, 9  
*H. divaricata* Busk, 1852 1, 9  
\* *Hornera foliacea* MacGill., 1869 1, 10, 18, 20  
*H. robusta* MacGill., 1882 1  
\* *Idomea australis*, ? *Idmidronea australis* (MacGill., 1884) 1  
*I. milneana* d'Orbigny, 1847 1  
*I. radians* Lamarck, 1816 2, 8, 10  
*Lagenipora nitens* MacGill., 1886 1  
*L. tuberculata* MacGill., 1882 1  
*Lekythopora hystrix* MacGill., 1882 1  
*Lepralia anceps* MacGill., 1879 13  
*L. botryooides* MacGill., 1879 8  
*L. brogniartii* Audouin, 1826 2  
*L. canaliculata* MacGill., 1859 2  
*L. cecilii* Audouin, 1826 2, 13  
*L. cheilodon* MacGill., 1869 8  
\* *L. ciliata* = *Microporella ciliata* (Pallas, 1766) 2, 12, 13  
*L. circinata* MacGill., 1869 2  
*L. diadema* MacGill., 1869 2, 8, 13  
*L. diaphana* MacGill., 1879 2, 13  
*L. elegans* MacGill., 1859 2, 8  
\* *L. ellerii* = *Mucropetraliella ellerii* (MacGill., 1869) 8, 13  
*L. excavata* MacGill., 1860 2  
\* *L. ferox* = *Hiantopora ferox* (MacGill., 1869) 2, 8  
*L. larvalis* MacGill., 1868 8  
*L. lunata* MacGill., 1859 2  
\* *L. malusii* = *Fenestrulina malusii* (Audouin, 1826) 2  
*L. mapleshonei* MacGill., 1879 8  
*L. marsupium* MacGill., 1868 21  
*L. megasoma* MacGill., 1868 2  
\* *L. monoceros* = *Arachnopusia monoceros* (Busk, 1854) 2, 13  
\* *L. mucronata* MacGill., 1869 = *Adeonellopsis mucronata* (MacGill., 1869) 2, 5  
*L. papillifera* MacGill., 1868 8  
*L. pellucida* MacGill., 1879 2, 8  
*L. pertusa* Esper., 1790 9  
*L. schizostoma* MacGill., 1868 2, 8  
*L. subimmersa* MacGill., 1879 13  
*L. trifolium* MacGill., 1868 2, 8, 18  
*L. vitrea* MacGill., 1879 8  
*L. vittata* MacGill., 1868 18  
*Lichenopora bullata* MacGill., 1886 1, 10, 13  
*L. magnifica* MacGill., 1886 1  
*Maplestonia cirrata* MacGill., 1884 1, 10, 13  
*Membranipora cervicornis* Busk, 1854 8  
*M. ciliata* MacGill., 1868 2, 8, 10  
*M. corbula* Hincks, 1880 1, 10  
*M. dispar* MacGill., 1868 10  
*M. inarmata* Hincks, 1881 1  
\* *M. lacroixii* MacGill. (non Savigny) = *Conopeum reticulum* (Linnaeus, 1767) 2, 6, 7  
\* *M. lineata* MacGill., 1879 (non Linnaeus) = *Pyrulella pyrula* (Hincks, 1881) 2, 12  
*M. mamillaris* = *Thairopora mamillaris* (MacGill., 1860) 2  
*M. membranacea* 1879 (Linnaeus, 1767) 21

- M.* *pectinata* MacGill., 1886 1  
*M.* *perforata* MacGill., 1859 2  
*M.* *pilosa* Linnaeus, 1867 21  
*M.* *pyrula* = *Pyrulella pyrula* (Hincks, 1881) 1, 10  
*M.* *rosselii* Audouin, 1826 21  
*M.* *serrata* MacGill., 1881 1  
*M.* *spinosa* d'Orbigny, 1847 21  
*M.* *umbonata* Busk, 1854 2  
*M.* *woodsii* MacGill., 1868 10  
*Membraniporella distans* MacGill., 1882 1, 13  
*Menipea buskii* Wyville Thomson, 1858 2  
 \* *M.* *cervicornis* MacGill., 1868 2  
 \* *M.* *crystallina* Gray 1843 2  
*M.* *cyathus* Wyville Thomson, 1858 2  
*M.* *funiculata* MacGill., 1885 1  
*M.* *tricellata* Busk, 1852 2  
*Micropora coriacea* Esper., 1790 21  
*Microporella ciliata* var. *spicata* MacGill., 1889 21  
*M.* " var. *personata* Busk, 1854 21  
*M.* *diadema* MacGill., 1884 21  
*M.* *malusii* var. *personata* MacGill., 1883  
*M.* *malusii* var. *thyreophora* Busk, 1861 21  
*M.* *renipuncta* MacGill., 1882 1  
*M.* *scandens* MacGill., 1884 1  
*Mucronella laevis* MacGill., 1882 1, 3  
*M.* *tricuspid* Hincks, 1881 1, 10  
*M.* *vultur* Hincks, 1882 1, 10, 13  
*Nellia oculata* Busk, 1852 2  
*Petralia undata* MacGill., 1868 2, 10  
*Poecilopora anomola* MacGill., 1886 1  
*Pyripora catenularia* (Jameson, 1828) 1, 7  
*P.* *crassa* (MacGill., 1868) 2  
*P.* *polita* (Hincks, 1880) 2  
*Retepora aurantiacea* MacGill., 1882 1  
 \* *R.* *avicularis* MacGill., 1882 1  
*R.* *carinata* MacGill., 1883 1  
*R.* *fissa* MacGill., 1869 21  
*R.* *formosa* MacGill., 1883 1  
*R.* *granulata* MacGill., 1869 1  
 \* *R.* *monilifera* f. *monilifera* 1885, = *Triphyllozoon monilifera* (MacGill., 1860) 1, 10, 13  
*R.* *monilifera* f. *munita* Hincks, 1878 21  
*R.* *monilifera* f. *umbonata* MacGill., 1885 1  
*R.* *phaenicea* Busk, 1854 1, 10, 16  
*R.* *porcellana* MacGill., 1869 1  
*R.* *serrata* MacGill., 1882 1  
 \* *R.* *tessellata* = *Schizoretepora tessellata* (Hincks, 1878) 1  
*Rhabdozoum wilsoni* Hincks, 1882 1  
*Rhynchopora bispinosa* Johnston, 1881 1  
 \* *R.* *longirostris* Hincks, 1881 = *Rhynchocoelium tubulosum* (Hincks, 1880a) 1, 10, 13  
*Schizoporella arachnoides* MacGill., 1882 1  
*S.* *biturrita* Hincks, 1884 1  
*S.* *cryptostomata* MacGill., 1884 1  
*S.* *daedala* MacGill., 1882 21  
*S.* *hyalina* = *Celleporella hyalina* (Linnaeus, 1767) 21  
*S.* *lata* MacGill., 1882 1  
*S.* *latisinuata* Hincks, 1882 1  
*S.* *pachnoidea* MacGill., 1886 1  
*S.* *pulcherrima* MacGill., 1885 1  
*S.* *punctigera* MacGill., 1883 1  
*S.* *ridleyi* MacGill., 1882 1  
*S.* *rostrata* MacGill., 1887 1  
*S.* *subsinuata* Hincks, 1884 1  
*S.* *triangula* Hincks, 1881 1  
*S.* *woosteri* MacGill., 1886 2  
 \* *Scruparia chelata* MacGill., 1889 (non Linnaeus) = *Scruparia ambigua* (d'Orbigny, 1841) 1  
 \* *Scrupocellaria cervicornis* MacGill. = *Scrupocellaria diadema* Busk, 1852 21  
 \* *S.* *cyllostoma* Busk, 1852 1, 10  
*S.* *obtecta* Haswell, 1883 1  
*S.* *ornithorhynchus* Wyville Thomson, 1858 21  
*S.* *scrupaea* Busk, 1852 1, 10  
 \* *Smittia reticulata* Hincks, 1881 21  
 \* *S.* *reticulata spathulata* MacGill., 1883 = *Parammittina macphersonae* Powell, 1957 1  
*Spiralaria florea* Busk, 1861 2  
 \* *Stegnoporella magnilabris* (Busk, 1854) 2, 10  
*Stirparia annulata* Maplestone, 1879 10, 18  
*S.* *glabra* Hincks, 1883 15  
 \* *Stomatopora geminata* MacGill., 1886 21  
*Tessaradoma magnirostris* MacGill., 1882 1  
*Thairopora armata* MacGill., 1881 2  
*T.* *jervosii* (Hincks, 1880) 3  
 \* *T.* *mamillaris* (MacGill., 1860) 2  
*Tubucellaria cereoides* (Ellis and Solander, 1786) 1  
 \* *T.* *hirsuta* = *Margareta hirsuta* Lamouroux, 1816 2, 10, 14, 18  
*Urceolipora dentata* MacGill., 1884 1  
*U.* *nana* MacGill., 1885 1  
 \* *Verrucularia dichotoma* (Busk, 1885) = *Elzerina blainvillii* Lamouroux, 1816 1

