

¹	Contents	
²	1 Cheilostome genera: range-through geologic durations	2
³	2 Text-mining references	11

1 Cheilostome genera: range-through geologic durations

Table S2: First and last appearances for cheilostome bryozoan genera. These are derived from the text-mined fossil occurrence data, and extant cheilostomes in the World Register of Marine Species. For each genus, the first appearance is the early boundary for the first time interval, and the last appearance is the late boundary of the last interval. Note that these first and last appearances have not been validated in any other way. Figs. 3 and S6 are based on the information given in this table. Ma = million years ago. $n = 337$.

Genus	First appearance (Ma)	Last appearance (Ma)
<i>Acoscinopleura</i>	83.60	72.10
<i>Actisecos</i>	17.46	0.00
<i>Adeonella</i>	8.70	0.00
<i>Aechmella</i>	100.50	66.00
<i>Aeolopora</i>	86.30	72.10
<i>Aetea</i>	41.30	0.00
<i>Akatopora</i>	86.30	0.00
<i>Alderina</i>	83.60	0.00
<i>Allantopora</i>	83.60	0.00
<i>Amphiblestrella</i>	72.10	68.03
<i>Amphiblestrum</i>	86.30	0.00
<i>Anaptopora</i>	100.50	93.90
<i>Anornithopora</i>	83.60	61.60
<i>Anoteropora</i>	20.44	0.00
<i>Anotopora</i>	100.50	93.90
<i>Antropora</i>	83.60	0.00
<i>Aplousina</i>	72.10	0.00
<i>Arachnopusia</i>	16.30	0.00
<i>Arctonula</i>	100.50	0.00
<i>Arthropoma</i>	23.03	0.00
<i>Aspidostoma</i>	83.60	0.00
<i>Bactrellaria</i>	83.60	72.10
<i>Bactridium</i>	16.30	12.80
<i>Balantiosstoma</i>	72.10	66.00
<i>Basslerinella</i>	72.10	66.00
<i>Basyaylella</i>	11.62	7.25
<i>Bathosella</i>	72.10	0.00
<i>Bathystomella</i>	83.60	72.10
<i>Batopora</i>	56.00	0.00
<i>Batrachopora</i>	72.10	61.60
<i>Beisselina</i>	83.60	61.60
<i>Beisselinopsis</i>	72.10	61.60
<i>Bellulopora</i>	100.50	0.00
<i>Biflustra</i>	72.10	0.00
<i>Biselenaria</i>	41.30	37.80
<i>Bitectipora</i>	11.62	0.00

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Genus	First appearance (Ma)	Last appearance (Ma)
<i>Boreas</i>	72.10	66.00
<i>Boreasina</i>	89.80	66.00
<i>Brydonella</i>	72.10	61.60
<i>Bryopesanser</i>	17.46	0.00
<i>Buffonellaria</i>	33.90	0.00
<i>Bullaconopeum</i>	75.93	66.00
<i>Caberea</i>	17.46	0.00
<i>Caberooides</i>	47.80	15.97
<i>Calloporina</i>	13.82	0.00
<i>Calpidopora</i>	100.50	93.90
<i>Calvina</i>	66.00	61.60
<i>Calypotheca</i>	17.46	0.00
<i>Canda</i>	17.46	0.00
<i>Castanopora</i>	86.30	66.00
<i>Catenicella</i>	47.80	0.00
<i>Cauloramphus</i>	11.62	0.00
<i>Cellaria</i>	166.10	0.00
<i>Cellarinidra</i>	100.50	93.90
<i>Celleporaria</i>	66.00	0.00
<i>Celleporella</i>	72.10	0.00
<i>Celleporina</i>	16.30	0.00
<i>Chaperia</i>	12.70	0.00
<i>Charixa</i>	132.90	0.00
<i>Cheethamia</i>	83.60	66.00
<i>Cheilopora</i>	38.00	0.00
<i>Cheiloporina</i>	38.00	0.00
<i>Chiastosella</i>	34.30	0.00
<i>Chiplonkarina</i>	113.00	66.00
<i>Cigclisula</i>	20.44	0.00
<i>Cleidochasmidra</i>	0.78	0.00
<i>Coleopora</i>	11.62	0.00
<i>Conopeum</i>	125.00	0.00
<i>Copidozoum</i>	20.44	0.00
<i>Corymboporella</i>	100.50	93.90
<i>Cosciniopsis</i>	47.80	0.00
<i>Coscinopectura</i>	66.00	61.60
<i>Costatimorpha</i>	37.80	33.90
<i>Cranosina</i>	13.82	0.00
<i>Crassimarginatella</i>	93.90	0.00

Table S2: First and last appearances for cheilostome bryozoan genera. These are derived from the text-mined fossil occurrence data, and extant cheilostomes in the World Register of Marine Species. For each genus, the first appearance is the early boundary for the first time interval, and the last appearance is the late boundary of the last interval. Note that these first and last appearances have not been validated in any other way. Figs. 3 and S6 are based on the information given in this table. Ma = million years ago. $n = 337$. (*continued*)

Genus	First appearance (Ma)	Last appearance (Ma)
<i>Craticulacella</i>	83.60	75.93
<i>Cribrilaria</i>	56.00	0.00
<i>Cribrilina</i>	93.90	0.00
<i>Criserpia</i>	168.30	166.10
<i>Crisidmonea</i>	83.60	0.00
<i>Cryptostomella</i>	83.60	66.00
<i>Ctenopora</i>	100.50	93.90
<i>Cupuladria</i>	16.30	0.00
<i>Cyclicopora</i>	38.00	0.00
<i>Cymulopora</i>	75.93	0.00
<i>Dacryoporella</i>	89.80	86.30
<i>Decurtaria</i>	66.00	61.60
<i>Diacanthopora</i>	66.00	61.60
<i>Dicasignetella</i>	41.30	37.80
<i>Dightonia</i>	21.70	19.00
<i>Dimorphomicropora</i>	72.10	66.00
<i>Dionella</i>	72.10	66.00
<i>Discoflustrellaria</i>	47.80	41.30
<i>Discopora</i>	72.10	66.00
<i>Discoporella</i>	23.03	0.00
<i>Discoradius</i>	47.80	33.90
<i>Discovibracella</i>	66.00	61.60
<i>Distelopora</i>	100.50	75.93
<i>Ditaxiporina</i>	47.80	28.10
<i>Dittosaria</i>	56.00	28.10
<i>Dysnoetocella</i>	98.30	96.10
<i>Ehrhardina</i>	100.50	93.90
<i>Ellisina</i>	72.10	0.00
<i>Emballothea</i>	8.70	0.00
<i>Encicellaria</i>	72.10	15.97
<i>Escharella</i>	72.10	0.00
<i>Escharifora</i>	75.93	66.00
<i>Escharina</i>	100.50	0.00
<i>Escharipora</i>	89.80	86.30
<i>Eucratea</i>	56.00	0.00
<i>Euritina</i>	100.50	89.80
<i>Exechonella</i>	47.80	0.00
<i>Erochella</i>	83.60	0.00

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Genus	First appearance (Ma)	Last appearance (Ma)
<i>Figularia</i>	66.00	0.00
<i>Filaguria</i>	13.82	0.00
<i>Floridina</i>	72.10	0.00
<i>Floridinella</i>	72.10	0.00
<i>Flustrellaria</i>	100.50	0.00
<i>Foratella</i>	72.10	66.00
<i>Foveolaria</i>	93.90	0.00
<i>Francopora</i>	89.80	86.30
<i>Fruirionella</i>	72.10	61.60
<i>Fusicellaria</i>	93.90	89.80
<i>Gaudryanella</i>	47.80	41.30
<i>Gemellipora</i>	16.30	0.00
<i>Gemelliporella</i>	16.30	0.00
<i>Gephyrotes</i>	15.97	0.00
<i>Gigantopora</i>	13.82	0.00
<i>Gilbertopora</i>	113.00	75.93
<i>Gontarella</i>	13.82	0.00
<i>Graptoporella</i>	86.30	83.60
<i>Hagenowinella</i>	72.10	66.00
<i>Haplocephalopora</i>	66.00	61.60
<i>Haplostoechios</i>	104.67	93.90
<i>Hapsidopora</i>	100.50	93.90
<i>Hemiphylactella</i>	20.44	15.97
<i>Hemismittoidea</i>	37.80	0.00
<i>Herentia</i>	0.26	0.00
<i>Herpetopora</i>	125.00	61.60
<i>Heteractis</i>	47.80	28.10
<i>Heteroconopeum</i>	100.50	61.60
<i>Hiantopora</i>	66.00	0.00
<i>Hippaliosina</i>	0.78	0.00
<i>Hippodiplosia</i>	20.44	2.59
<i>Hippomenella</i>	38.00	0.00
<i>Hippopleurifera</i>	16.30	0.00
<i>Hippopodina</i>	17.46	0.00
<i>Hippoporella</i>	16.30	0.00
<i>Hippoporidra</i>	37.80	0.00
<i>Hippoporina</i>	28.10	0.00
<i>Hippothoa</i>	100.50	0.00

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Genus	First appearance (Ma)	Last appearance (Ma)
<i>Hoeverella</i>	83.60	66.00
<i>Homalostega</i>	83.60	61.60
<i>Hoplitaechmella</i>	83.60	75.93
<i>Hoplocheilina</i>	100.50	61.60
<i>Houzeauina</i>	37.80	20.44
<i>Hybopora</i>	100.50	93.90
<i>Ichnopora</i>	93.90	61.60
<i>Inversaria</i>	75.93	61.60
<i>Iodictyum</i>	21.70	0.00
<i>Kionidella</i>	47.80	41.30
<i>Kleidionella</i>	72.10	61.60
<i>Kristerina</i>	83.60	72.10
<i>Kunradocella</i>	72.10	66.00
<i>Kylonisa</i>	47.80	43.47
<i>Labioporella</i>	20.44	0.00
<i>Lacrimula</i>	37.80	0.00
<i>Lagenipora</i>	37.80	0.00
<i>Lagynopora</i>	72.10	68.03
<i>Laterotecatia</i>	68.03	66.00
<i>Leieschara</i>	11.62	0.00
<i>Leptocheilopora</i>	86.30	66.00
<i>Lifuella</i>	17.46	11.62
<i>Lunulites</i>	93.90	33.90
<i>Macropora</i>	59.20	0.00
<i>Mamillopora</i>	37.80	0.00
<i>Margaretta</i>	37.80	0.00
<i>Marginaria</i>	104.67	20.44
<i>Melychocella</i>	59.20	47.80
<i>Membranipora</i>	137.50	0.00
<i>Membraniporidra</i>	66.00	0.00
<i>Metracolposa</i>	35.27	33.90
<i>Metrarabdotos</i>	20.44	0.00
<i>Metroperiella</i>	56.00	0.00
<i>Micropora</i>	132.90	0.00
<i>Microporella</i>	17.46	0.00
<i>Mollia</i>	100.50	0.00
<i>Monoceratopora</i>	93.90	61.60
<i>Monoporella</i>	83.60	0.00
<i>Multescharellina</i>	72.10	0.00

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Genus	First appearance (Ma)	Last appearance (Ma)
<i>Multescharipora</i>	83.60	72.10
<i>Myriapora</i>	11.62	0.00
<i>Mystriopora</i>	113.00	100.50
<i>Nannopora</i>	89.80	86.30
<i>Nellia</i>	72.10	0.00
<i>Ogiva</i>	86.30	83.60
<i>Ogivalina</i>	36.63	35.27
<i>Onychocellaria</i>	72.10	66.00
<i>Opisthornithopora</i>	72.10	66.00
<i>Orbiculipora</i>	17.46	15.97
<i>Ornatella</i>	100.50	93.90
<i>Ostrovskia</i>	11.62	7.25
<i>Otionellina</i>	0.34	0.00
<i>Otopora</i>	100.50	93.90
<i>Ovierechonella</i>	13.82	11.62
<i>Pachyderma</i>	72.10	61.60
<i>Pachydermopora</i>	83.60	72.10
<i>Pachythecella</i>	68.03	61.60
<i>Parantropora</i>	13.82	0.00
<i>Parasmittina</i>	47.80	0.00
<i>Parellisina</i>	13.82	0.00
<i>Parkermavella</i>	1.63	0.00
<i>Pavobeisselina</i>	66.00	61.60
<i>Pavolunulites</i>	89.80	66.00
<i>Peedeesella</i>	72.10	66.00
<i>Pelmatopora</i>	93.90	61.60
<i>Pentapora</i>	0.78	0.00
<i>Petalostegus</i>	100.50	0.00
<i>Petralia</i>	23.03	0.00
<i>Phonicosia</i>	34.30	0.00
<i>Phylactella</i>	33.90	0.00
<i>Planicellaria</i>	66.00	15.97
<i>Platyglana</i>	72.10	66.00
<i>Plesiocleidochasma</i>	17.46	0.00
<i>Pleurocodonellina</i>	20.44	0.00
<i>Pleuromucrum</i>	20.44	0.00
<i>Pliophloea</i>	83.60	0.00
<i>Porella</i>	11.62	0.00

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Genus	First appearance (Ma)	Last appearance (Ma)
<i>Poricella</i>	13.82	0.00
<i>Poricellaria</i>	72.10	0.00
<i>Porina</i>	100.50	0.00
<i>Predanophora</i>	17.46	11.62
<i>Prenantia</i>	5.33	0.00
<i>Pseudoallantopora</i>	72.10	66.00
<i>Pseudothyraella</i>	72.10	0.00
<i>Psilosecos</i>	63.07	61.60
<i>Puellina</i>	17.46	0.00
<i>Puncturiella</i>	72.10	66.00
<i>Pyripora</i>	113.00	0.00
<i>Pyriporella</i>	66.00	61.60
<i>Pyriporopsis</i>	163.50	132.90
<i>Pyrisinella</i>	72.10	66.00
<i>Quadricellaria</i>	93.90	0.00
<i>Quasitrilaminopora</i>	66.00	61.60
<i>Ramicosticella</i>	66.00	61.60
<i>Ramphonotus</i>	83.60	0.00
<i>Rectonychocella</i>	38.00	0.00
<i>Reniporella</i>	47.80	41.30
<i>Reptadeonella</i>	17.46	0.00
<i>Reptescharella</i>	89.80	86.30
<i>Reptoflustrella</i>	100.50	93.90
<i>Reptolunulites</i>	100.50	66.00
<i>Reptoporina</i>	20.44	15.97
<i>Retelepralia</i>	20.44	0.00
<i>Reussirella</i>	13.82	0.00
<i>Rhabdopora</i>	93.90	89.80
<i>Rhammatopora</i>	113.00	100.50
<i>Rhamphostomella</i>	56.00	0.00
<i>Rhiniopora</i>	83.60	66.00
<i>Rhynchozoon</i>	72.10	0.00
<i>Rosseliana</i>	34.30	0.00
<i>Saevitella</i>	17.46	0.00
<i>Sandalopora</i>	93.90	61.60
<i>Schizomavella</i>	20.44	0.00
<i>Schizoporella</i>	83.60	0.00
<i>Schizorthosecos</i>	35.27	33.90

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Genus	First appearance (Ma)	Last appearance (Ma)
<i>Schizosmittina</i>	37.80	0.00
<i>Schizotheca</i>	11.62	0.00
<i>Scorpiodinipora</i>	23.03	0.00
<i>Scrupocellaria</i>	38.00	0.00
<i>Selenaria</i>	1.63	0.00
<i>Semieschara</i>	100.50	41.30
<i>Semiescharipora</i>	86.30	15.90
<i>Semihaswellia</i>	38.00	0.00
<i>Sendinopora</i>	13.82	11.62
<i>Sertulipora</i>	0.26	0.00
<i>Setosellina</i>	56.00	0.00
<i>Setosinella</i>	72.10	13.82
<i>Smittina</i>	17.46	0.00
<i>Smittipora</i>	38.00	0.00
<i>Smittoidea</i>	34.30	0.00
<i>Solenonychocella</i>	72.10	66.00
<i>Solenophragma</i>	83.60	66.00
<i>Spinicharixa</i>	125.00	100.50
<i>Spinisinella</i>	100.50	13.82
<i>Stamenocella</i>	93.90	89.80
<i>Staurosteginopora</i>	86.30	66.00
<i>Steginopora</i>	72.10	66.00
<i>Steginoporella</i>	47.80	0.00
<i>Stenopsella</i>	38.00	0.00
<i>Stenosipora</i>	47.80	41.30
<i>Stephanollona</i>	23.03	0.00
<i>Stephanotheca</i>	0.26	0.00
<i>Stichocados</i>	72.10	66.00
<i>Stichomicropora</i>	100.50	61.60
<i>Stichopora</i>	72.10	66.00
<i>Stichoporina</i>	47.80	41.30
<i>Stictostega</i>	83.60	72.10
<i>Stylopoma</i>	13.82	0.00
<i>Systemostoma</i>	72.10	68.03
<i>Taeniocellaria</i>	72.10	66.00
<i>Taenioporina</i>	72.10	66.00
<i>Tamanicella</i>	11.62	7.25
<i>Tecatia</i>	72.10	0.00
<i>Tetraplaria</i>	38.00	0.00

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Genus	First appearance (Ma)	Last appearance (Ma)
<i>Thalamoporella</i>	47.80	0.00
<i>Therenia</i>	47.80	0.00
<i>Thoracopora</i>	100.50	93.90
<i>Thornelya</i>	13.82	0.00
<i>Tornipora</i>	72.10	61.60
<i>Trematooecia</i>	17.46	0.00
<i>Tremogasterina</i>	11.62	5.33
<i>Tricellaria</i>	0.26	0.00
<i>Tricephalopora</i>	89.80	61.60
<i>Trichinopolia</i>	83.60	66.00
<i>Triphyllozoon</i>	17.46	0.00
<i>Tripurula</i>	16.30	0.00
<i>Trypostega</i>	17.46	0.00
<i>Tubiporella</i>	17.46	0.00
<i>Turbicellepora</i>	33.90	0.00
<i>Turnerellina</i>	72.10	66.00
<i>Tyloporella</i>	100.50	93.90
<i>Ubagsia</i>	72.10	66.00
<i>Umbonula</i>	47.80	0.00
<i>Unidistelopora</i>	100.50	72.10
<i>Urceolipora</i>	21.70	0.00
<i>Vasignyella</i>	7.25	0.00
<i>Vibracella</i>	83.60	33.90
<i>Vibracellina</i>	56.00	0.00
<i>Vincularia</i>	86.30	5.33
<i>Vix</i>	20.44	0.00
<i>Voorthuyseniella</i>	23.03	20.44
<i>Wawalia</i>	139.80	113.00
<i>Wilbertopora</i>	113.00	66.00
<i>Woodipora</i>	72.10	66.00
<i>Xaveropora</i>	11.62	7.25
<i>Zimmerella</i>	83.60	72.10

2 Text-mining references

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