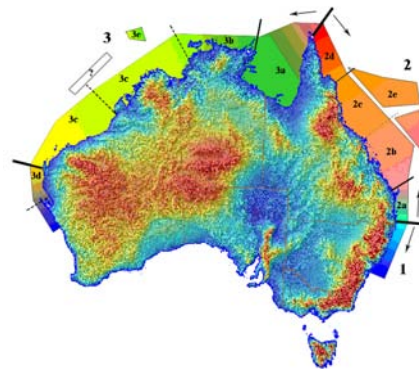


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COLLATION AND VALIDATION OF MUSEUM COLLECTION DATABASES RELATED TO THE DISTRIBUTION OF MARINE SPONGES IN NORTHERN AUSTRALIA



PART 2 OF 8

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APPENDIX 1.

List of sponge species chosen as a subset of the entire sponge database as surrogates for the present analysis, representing a collaborative study between Australian sponge collection and research institutions (QM, AIMS, MAGNT, WAM). Refer to Appendix 7 for PDF file of CAAB modelled species distributions for each of these surrogate species.

Family	Genus and Species	Author	Sp # (Mudmap #)
Petrosiidae	Neopetrosia exigua	(Kirkpatrick 1900)	2
Dysideidae	Dysidea herbacea	(Keller) 1889	3
lotrochotidae	lotrochota baculifera	Ridley 1884	4
Axinellidae	Cymbastela stipitata)	(Bergquist & Tizard, 1967	5
Tetillidae	Cinachyrella australiensis	(Carter) 1886	6
Petrosiidae	Xestospongia testudinaria	(Lamarck) 1814	7
Ianthellidae	Ianthella basta	(Pallas) 1776	8
Microcionidae	Clathria (Thalysias) reinwardti	Vosmaer, 1880	9
Aplysinidae	Aplysina ianthelliformis	(Lendenfeld) 1888	12
Isodictyidae	Coelocarteria singaporensis	(Carter) 1883	13
Raspailiidae	Trikenrion flabelliforme	Hentschel, 1912	22
Axinellidae	Reniochalina stalagmitis	Lendenfeld, 1888	23
Microcionidae	Clathria (Wilsonella) tuberosa	(Bowerbank, 1875)	24
Microcionidae	Clathria (Thalysias) vulpina	(Lamarck, 1814)	25
Axinellidae	Axinella 26		26
Thorectidae	Phyllospongia lamellosa	(Esper) 1794	28
Microcionidae	Clathria (Thalysias) lendenfeldi	Ridley & Dendy, 1886	29
Chalinidae	Haliclona cymaeformis	(Esper) 1794	30
Raspailiidae	Echinodictyum mesenterinum	(Lamarck, 1814)	31
Raspailiidae	Raspailia (Raspailia) vestigifera	Dendy, 1896	34
Axinellidae	Axinella 35		35
Halichondriidae	Halichondria stalagmites	(Hentschel) 1912	39
Thorectidae	Thorectandra excavata	(Ridley) 1884	51
Niphatidae	Gelliodes fibulatus	(Carter) 1881	53
Raspailiidae	Raspailia (Raspaxilla) compressa	Bergquist, 1970	54
Tedaniidae	Tedania anhelans	(Schmidt) 1862	56
Desmoxiidae	Myrmekioderma granulata	(Esper) 1830	63
Clionidae	Speciospongia vagabunda	Ridley 1884	78
Clionidae	Speciospongia cf. vagabunda	Ridley 1884	86
Microcionidae	Clathria (Isociella) eccentrica	(Burton, 1934)	93
Clionidae	Cliona orientalis	Thiele, 1900	97
Microcionidae	Antho_(Acarnia) ridleyi)	(Hentschel, 1912	99
Ianthellidae	Ianthella flabelliformis	(Pallas) 1766	104
Axinellidae	Phakellia carduus	(Lamarck, 1814)	107
Axinellidae	Axinella 112		112
Raspailiidae	Echinodictyum nidulus	Hentschel, 1911	120
Microcionidae	Clathria (Thalysias) abietina	(Lamarck, 1814)	121
Axinellidae	Reniochalina 122		122
Axinellidae	Phakellia 129		129
Rhabderemiidae	Rhabderemia sorokiniae	Hooper 1990	130
Axinellidae	Phakellia 131		131
Raspailiidae	Echinodictyum asperum	(Ridley & Dendy, 1886)	133
Phloeodictyidae	Oceanapia 135		135
Spirastrellidae	Spirastrella 150		150
Raspailiidae	Echinodictyum cancellatum	(Lamarck, 1814)	152
Axinellidae	Axinella aruensis	Hentschel, 1912	153

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Crellidae	Crella spinulata	(Hentschel) 1911	154
Axinellidae	Axinella 156		156
Axinellidae	Reniochalina 172		172
Druinellidae	Pseudoceratina 190		190
Ianthellidae	Ianthella cf. flabelliformis	(Pallas) 1776	196
Mycalidae	Mycale (Mycale) cf. ridleyi	(Lendenfeld) 1888	203
Microcionidae	Clathria (Thalysias) darwinensis	Hooper, 1996	208
Raspailiidae	Ectyoplasia tabula	(Lamarck, 1814)	210
Clonaidae	Pione hixonii	Lendenfeld 1886	213
Raspailiidae	Raspailia (Clathriodendron) arbuscula	(Lendenfeld, 1888)	216
Axinellidae	Axinella 217		217
Raspailiidae	Raspailia (Clathriodendron) darwinensis	Hooper, 1991	218
Darwinellidae	Dendrilla rosea	Lendenfeld, 1883	221
Darwinellidae	Aplysilla sulphurea	Schulze 1878	224
Dysideidae	Dysidea 229		229
Raspailiidae	Raspailia_(Parasyringella) nuda	Hentschel, 1911	230
Desmacellidae	Neofibularia irata	Wilkinson 1978	243
Axinellidae	Phakellia 244		244
Dictyonellidae	Rhaphoxya cf. pallida		252
Axinellidae	Axinella 254		254
Microcionidae	Clathria (Thalysias) coppingeri	Ridley, 1884	259
Spongiidae	Rhopaloeides odorabile	Thompson, Murphy, Bergquist & Evans, 1987	262
Thorectidae	Fascaplysinopsis reticulata	(Hentschel) 1912	264
Raspailiidae	Raspailia (Clathriodendron) melanorhopsa	Hooper, 1991	265
Axinellidae	Axinella 267		267
Callyspongiidae	Callyspongia (Cladochalina) cf. mannus	(Lendenfeld) 1887	268
Desmacididae	Iotrochota coccinea	(Carter) 1886	269
Mycalidae	Mycale (Arenochalina) mirabilis	(Lendenfeld) 1887	270
Chondrosiidae	Psammoclema 271		271
Microcionidae	Echinochalina (Echinochalina) intermedia	(Whitelegge, 1902)	272
Spongiidae	Hyattella intestinalis	(Lamarck) 1814	274
Axinellidae	Reniochalina 275		275
Theonellidae	Theonella swinhoei	Gray 1868	280
Axinellidae	Reniochalina 285		285
Axinellidae	Reniochalina 287		287
Raspailiidae	Thrinacophora cervicornis	Ridley & Dendy, 1887	288
Microcionidae	Clathria (Thalysias) hesperia	Hooper, 1996	292
Desmacididae	Phoriospongia 293		293
Raspailiidae	Raspailia (Clathriodendron) desmoxyiformis	Hooper, 1991	298
Microcionidae	Clathria (Thalysias) cancellaria	(Lamarck, 1814)	300
Raspailiidae	Endectyon thurstoni	(Dendy, 1887)	304
Niphatidae	Niphates 307		307
Axinellidae	Axinella 308		308
Geodiidae	Pachymatisma 311		311
Ancorinidae	Stelletta clavosa	Sollas 1888	313
Axinellidae	Reniochalina 315		315
Plakinidae	Plakortis (Dercitopsis) cf. mammillaris	(Lendenfeld) 1906	326
Microcionidae	Clathria (Thalysias) procera	(Ridley, 1884)	329
Dictyonellidae	Stylissa Flabelliformis	(Hentschel) 1912	336
Axinellidae	Phakellia dendyi	Bergquist, 1970	339
Raspailiidae	Raspailia (Raspaxilla) wardi	Hooper, 1991	341
Desmoxyidae	Higginsia scabra	Whitelegge 1907	343
Axinellidae	Axinella 346		346
Raspailiidae	Raspailia (Clathriodendron) kerontria	Hooper, 1991	350
Axinellidae	Reniochalina 352		352

Axinellidae	Reniochalina 353		353
Microcionidae	Holopsamma laminaefavosa	Carter, 1885	359
Pseudoceratinidae	Pseudoceratina 364		364
Microcionidae	Clathria (Thalysias) hallmanni	Hooper, 1996	372
Desmoxyidae	Higginsia Mixta	(Hentschel) 1912	374
Iotrochotidae	Iotrochota 377		377
Petrosiidae	Xestospongia Bergquistia	Fromont 1991	383
Callyspongiidae	Callyspongia (Callyspongia) carens	Pulitzer-Finali 1982	386
Callyspongiidae	Callyspongia (Euplacella) 387		387
Tetillidae	Cinachyrella enigmatica	(Burton 1934)	390
Microcionidae	Antho (Antho) tuberosa	(Hentschel, 1911)	393
Suberitidae	Aptos aptos	Schmidt 1864	406
Axinellidae	Axinella 412		412
Axinellidae	Phakellia stelliderma	Levi & Levi 1989	413
Raspailiidae	Raspailia (Parasyringella) australiensis	Ridley, 1884	414
Tetillidae	Cinachyrella 415		415
Raspailiidae	Raspailia (Raspaxilla) reticulata	Hooper, 1991	416
Axinellidae	Reniochalina cf.stalagmitis	Lendenfeld, 1888	417
Axinellidae	Phakellia 418		418
Raspailiidae	Echinodictyum conulosum	Kieschnick, 1900	419
Hymedesmiidae	Hamigera Strongylata	Burton 1934	426
Microcionidae	Clathria (Isociella) skia	Hooper, 1996	427
Microcionidae	Clathria (Wilsonella) australiensis	(Carter, 1885)	430
Microcionidae	Clathria (Clathria) rubens	(Lendenfeld, 1888)	431
Clonaidae	Cliona patera	(Hardwicke) 1822	432
Tedaniidae	Tedania 433		433
Microcionidae	Echinochalina (Echinochalina) barba	(Lamarck, 1814)	434
Raspailiidae	Raspailia (Raspailia) phakellopsis	Hooper, 1991	437
Microcionidae	Clathria (Clathria) conectens	(Hallmann, 1912)	440
Acanthidae	Acanthus bergquistae	Van Soest, Hooper and Hiemstra 1991	441
Chondropsidae	Psammoclema chaliniformis	(Lendenfeld) 1889	443
Axinellidae	Axinella 444		444
Axinellidae	Axinella flabellata	(Ridley & Dendy, 1886)	445
Axinellidae	Phakellia 447		447
Microcionidae	Clathria (Thalysias) hirsuta	Hooper & Levi, 1993	449
Microcionidae	Clathria (Axosuberites) canaliculata	(Whitelegge, 1906)	453
Axinellidae	Ptilocaulis 454		454
Callyspongiidae	Callyspongia 456		456
Agelasidae	Agelas gracilis	Whitelegge 1897	459
Tedaniidae	Tedania 462		462
Axinellidae	Axinella 463		463
Dictyonellidae	Rhaphoxya cf. pallida	(Dendy) 1896	465
Axinellidae	Axinella 467		467
Microcionidae	Holopsamma pluritoxa	(Pulitzer-Finali, 1982)	468
Callyspongiidae	Dactylia radix	(Lendenfeld) 1888	471
Microcionidae	Holopsamma crassa	Carter, 1885	476
Microcionidae	Echinoclathria nodosa	Carter, 1885	478
Raspailiidae	Echinodictyum austrinus	Hooper, 1991	479
Spirastrellidae	Spirastrella papillosa	Ridley & Dendy 1886	480
Microcionidae	Echinochalina (Echinochalina) tubulosa	(Hallmann, 1912)	482
Pseudoceratinidae	Pseudoceratina clavata	Pulitzer-Finali 1982	484
Microcionidae	Holopsamma macropora	(Lendenfeld, 1888)	493
Axinellidae	Cymbastela notaiina	Hooper & Bergquist, 1992	494

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Trachycladidae	Trachycladus laevispirulifer	Carter 1879	496
Thorectidae	Phyllospongia papyracea	(Esper) 1806	500
Microcionidae	Clathria (Dendrocia) pyramida	Lendenfeld, 1888	501
Microcionidae	Clathria (Clathria) noarlungae	Hooper, 1996	503
Axinellidae	Phakellia 508		508
Halichondriidae	Hymeniacion 509		509
Axinellidae	Cymbastela concentrica	(Lendenfeld, 1887)	514
Clathrinidae	Clathrina 519		519
Spongiidae	Spongia hispida	Lamarck 1814	520
Axinellidae	Axinella 521		521
Dysideidae	Euryspongia cf. arenaria	Bergquist 1961	522
Axinellidae	Cymbastela 524		524
Mycalidae	Mycale (Arenochalina) flammula	(Lamarck) 1814	526
Crellidae	Crella incrustans	(Carter) 1886	537
Microcionidae	Holopsamma ramosa	(Hallmann, 1912)	543
Microcionidae	Clathria (Thalysias) cactiformis	(Lamarck, 1814)	545
Raspailiidae	Echinodictyum clathrioides	Hentschel, 1911	546
Microcionidae	Clathria (Thalysias) major	Hentschel, 1912	547
Microcionidae	Echinoclathria leporina	(Lamarck, 1814)	549
Microcionidae	Clathria (Thalysias) styloprothesis	Hooper, 1996	551
Microcionidae	Clathria (Thalysias) spinifera	(Lindgren, 1897)	552
Raspailiidae	Amphinomia sulphurea	Hooper, 1991	554
Axinellidae	Axinella 559		559
Axinellidae	Axinella 579		579
Thorectidae	Carteriospongia foliascens	(Pallas) 1766	580
Callyspongiidae	Siphonochalina deficiens	Pulitzer-Finali 1982	582
Niphatidae	Niphates 586		586
Thorectidae	Aplysinopsis reticulata	(Lendenfeld) 1889	589
Petrosiidae	Petrosia (Petrosia) cf crassa	(Carter) 1880	590
Thorectidae	Ledenfeldia plicata	Esper 1806	591
Microcionidae	Clathria (Thalysias) toxifera	(Hentschel, 1912)	602
Raspailiidae	Echinodictyum rugosum	Ridley and Dendy, 1886	603
Phloeodictyidae	Oceanapia ramsayi	(Lendenfeld) 1888	604
Microcionidae	Clathria (Thalysias) phorbisiformis	Hooper, 1996	606
Microcionidae	Clathria (Thalysias) tingens	Hooper, 1996	610
Axinellidae	Phakellia 611		611
Axinellidae	Axinella 612		612
Raspailiidae	Raspailia_(Parasyringella) elegans	(Lendenfeld, 1887)	613
Axinellidae	Axinella 616		616
Axinellidae	Axinella 620		620
Dysideidae	Dysidea 630		630
Axinellidae	Phakellia 643		643
Axinellidae	Phakellia 646		646
Axinellidae	Phakellia 647		647
Microcionidae	Clathria (Clathria) transiens	Hallmann, 1912	650
Thorectidae	Luffariella geometrica	Kirkpatrick 1900	653
Axinellidae	Phakellia 654		654
Verticillitidae	Vaceletia crypta	Vacelet 1979	655
Astroscleridae	Astrosclera willeyana	Lister 1900	656
Acanthochaetidae	Acanthochaetetes wellsii	Hartman & Goreau 1975	657
Axinellidae	Dragmacidon 659		659
Agelasiidae	Agelas cf. mauritanus	Carter 1883	660
Agelasiidae	Agelas axifera	Hentschel 1911	661
Axinellidae	Dragmacidon australis	(Bergquist, 1970)	662
Axinellidae	Phakellia pulcherrima	(Ridley & Dendy) 1886	663

Axinellidae	Cymbastela coralliophila	Hooper & Bergquist, 1992	664
Raspailiidae	Raspailia (Raspailia) wilkinsoni	Hooper, 1991	665
Raspailiidae	Endectyon elyakovi	Hooper, 1991	666
Dictyonellidae	Acanthella constricta	Pulitzer-Finali 1982	667
Leucettidae	Pericharax heterorhaphis	(Polejaeff) 1883	668
Microcionidae	Antho (Isopenectya) chartacea	(Whitelegge, 1907)	670
Microcionidae	Clathria (Microciona) aceratoobtusa	(Carter, 1887)	671
Raspailiidae	Ectyoplasia vannus	Hooper, 1991	703
Axinellidae	Phakellia 705		705
Axinellidae	Axinella 706		706
Axinellidae	Phakellia 707		707
Raspailiidae	Ceratopsion palmata	Hooper, 1991	709
Raspailiidae	Plocamione pachysclera	(Levi & Levi) 1983	711
Axinellidae	Dragmacidon 712		712
Microcionidae	Clathria (Microciona) grisea	(Hentschel, 1911)	714
Axinellidae	Cymbastela marshae	Hooper & Bergquist, 1992	725
Axinellidae	Axinella 728		728
Axinellidae	Axinella 730		730
Microcionidae	Holopsamma favus	(Carter, 1885)	739
Microcionidae	Clathria (Axosuberites) 741		741
Microcionidae	Clathria (Axosuberites) patula	Hooper, 1996	741
Mycalidae	Mycale (Mycale) pectinicola	Hentschel 1911	747
Microcionidae	Clathria (Isociella) selachia	Hooper, 1996	754
Raspailiidae	Ceratopsion montebelloensis	Hooper, 1991	761
Axinellidae	Axinella 766		766
Axinellidae	Axinella 770		770
Axinellidae	Axinella 774		774
Plakinidae	Plakortis nigra	Levi 1959	775
Ancorinidae	Stelletta splendans	(de Laubenfels, 1954)	779
Axinellidae	Axinella 780		780
Axinellidae	Reniochalina 781		781
Raspailiidae	Ceratopsion axifera	(Hentschel, 1912)	782
Microcionidae	Clathria (Wilsonella) claviformis	Hentschel, 1912	783
Microcionidae	Clathria (Thalysias) erecta	(Thiele, 1899)	784
Axinellidae	Phakellia 785		785
Thorectidae	Carteriospongia flabellifera	(Bowerbank) 1877	788
Ancorinidae	Meloplhus sarassinorum	Thiele 1899	794
Thorectidae	Hyrtilos erecta	(Keller) 1889	796
Axinellidae	Reniochalina 798		798
Microcionidae	Clathria (Wilsonella) abrolhosensis	Hooper, 1996	807
Axinellidae	Axinella 810		810
Axinellidae	Axinella 812		812
Aplysinellidae	Aplysinella 814		814
Microcionidae	Holopsamma sp._indeterminate_816	Hooper, 1996	816
Microcionidae	Clathria (Thalysias) cf.hirsuta	Hooper & Levi, 1993	821
Microcionidae	Clathria (Dendrocia) myxilloides	Dendy, 1896	826
Desmacididae	Psammoclema 827		827
Microcionidae	Echinoclathria chalinoides	(Carter) 1885	828
Mycalidae	Mycale (Arenochalina) cf. mirabilis	(Lendenfeld) 1887	830
Callyspongiidae	Dactylia 833		833
Microcionidae	Clathria (Wilsonella) ensiae	Hooper, 1996	838
Axinellidae	Phakellia 844		844
Raspailiidae	Raspailia (Clathriodendron) 850		850
Chalinidae	Haliclona (Haliclona) 854		854
Axinellidae	Axinella 859		859

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Tethyidae	Tethya 862		862
Axinellidae	Phakellia 863		863
Axinellidae	Axinella 866		866
Axinellidae	Dragmacidon 867		867
Microcionidae	Clathria (Clathria) murphyi	Hooper, 1996	868
Microcionidae	Echinoclathria subhispida	Carter, 1885	880
Axinellidae	Axinella 882		882
Axinellidae	Cymbastela hooperi	Van Soest et al 1996	883
Microcionidae	Clathria (Wilsonella) cf. guettardi	(Topsent, 1933)	885
Microcionidae	Echinoclathria riddlei	Hooper, 1996	894
Raspailiidae	Raspailia (Clathriodendron) cacticutis	(Carter, 1885)	895
Microcionidae	Clathria (Thalysias) costifera	Hallmann, 1912	897
Microcionidae	Echinoclathria egena	Wiedenmayer, 1989	901
Chondrosiidae	Phoriospongia cf. kirki	(Bowerbank) 1841	902
Axinellidae	Phakellia 903		903
Axinellidae	Axinella 905		905
Raspailiidae	Raspailia (Clathriodendron) 910		910
Desmoxyidae	Didiscus aceratus	(Ridley & Dendy) 1886	913
Axinellidae	Cymbastela cantharella	(Levi) 1983	914
Microcionidae	Echinochalina_(Protophlitapongia) laboutei	Hooper & Levi, 1993	915
Callyspongiidae	Callyspongia 916		916
Dictyonellidae	Rhaphoxya systemma	Hooper & Levi 1993	919
Petrosiidae	Xestospongia nigricans	(Lindgren) 1897	921
Dictyonellidae	Stylissa carteri	(Dendy) 1889	922
Microcionidae	Clathria (Clathria) kylista	Hooper & Levi, 1993	923
Microcionidae	Clathria (Thalysias) corneolia	Hooper & Levi 1993	924
Dictyonellidae	Stylissa massa	(Carter, 1887)	925
Microcionidae	Clathria (Thalysias) flabellifera	Hooper & Levi 1993	926
Microcionidae	Clathria (Thalysias) araiosa	Hooper & Levi 1993	927
Desmacellidae	Neofibularia hartmani	Hooper & Levi 1993	928
Suberitidae	Homaxinella domantayi	(Levi) 1961	930
Axinellidae	Axinella 931		931
Axinellidae	Ptilocaulis 932		932
Dysideidae	Dysidea arenaria	Bergquist 1965	940
Axinellidae	Phakellia conulosa	Dendy, 1922	948
Raspailiidae	Raspailia (Parasyringella) 949		949
Chalinidae	Reniera chrysa	De Laubenfels, 1954	950
Axinellidae	Axinella 955		955
Axinellidae	Auletta 960		960
Axinellidae	Phakellia 961		961
Microcionidae	Clathria (Thalysias) 970		970
Phloeodictyidae	Oceanapia sagittaria	(Sollas) 1902	972
Raspailiidae	Raspailia (Clathriodendron) 973		973
Rhabderemiidae	Rhabderemia indica	Dendy 1905	976
Raspailiidae	Axechina raspailoides	Hentschel, 1912	977
Desmacididae	Desmacidon 980		980
Callyspongiidae	Callyspongia 981		981
Microcionidae	Clathria (Thalysias) wesselensis	Hooper 1996	982
Coelosphaeridae	Coelocartheria 988		988
Ancorinidae	Ancorina 989		989
Ianthellidae	Ianthella quadrangulata	Bergquist 1993	993
Niphatidae	Amphimedon terpensis	Fromont 1993	996
Microcionidae	Clathria (Thalysias) craspedia	Hooper, 1996	997
Coelosphaeridae	Lissodendoryx (Ectodoryx). 1001		1001
Axinellidae	Phakellia stipitata (Carter, 1881)		1004

Ancorinidae	Stelletta 1005		1005
Raspailiidae	Ceratopsion clavata	Thiele, 1898	1008
Microcionidae	Echinochalina (Protophlitaspongia) bargibanti	Hooper & Levi 1993	1011
Microcionidae	Echinochalina_(Protophlitaspongia) favulosa	Hooper, 1996	1012
Axinellidae	Phakellia 1013		1013
Axinellidae	Phakellia 1014		1014
Axinellidae	Axinella 1015		1015
Axinellidae	Axinella 1016		1016
Petrosiidae	Petrosia 1021		1021
Niphatidae	Cribrachalina 1023		1023
Chalinidae	Haliclona 1031		1031
Microcionidae	Clathria (Thalysias) aphylla	Hooper, 1996	1040
Chalinidae	Haliclona 1043		1043
Niphatidae	Gelliodes 1049		1049
Microcionidae	Clathria (Thalysias) coralliophila	(Thiele, 1903)	1051
Raspailiidae	Raspailia_(Parasyringella) 1054		1054
Axinellidae	Cymbastela vespertina	Hooper & Bergquist, 1992	1055
Niphatidae	Niphates 1056		1056
Axinellidae	Ptilocaulis epakros	Hooper & Levi 1993	1057
Microcionidae	Clathria (Clathria) menoui	Hooper & Levi 1993	1058
Axinellidae	Reniochalina condylia	Hooper & Levi 1993	1060
Microcionidae	Clathria (Clathria) bulbosa	Hooper & Levi, 1993	1061
Microcionidae	Echinochalina_(Protophlitaspongia) tuberosa	Hooper, 1996	1064
Leucettidae	Leucetta microraphis	(Haeckel) 1872	1065
Halichondriidae	Hymeniacion 1066		1066
Microcionidae	Clathria (Wilsonella) litos	Hooper & Levi 1993	1067
Axinellidae	Phakellia mauritiana	Dendy 1921	1068
Microcionidae	Clathria (Axosuberites) lambei	(Koltun) 1955	1069
Microcionidae	Clathria (Clathria) laevigata	Lambe 1893	1070
Microcionidae	Clathria (Clathria) chelifera	(Hentschel) 1911	1073
Microcionidae	Clathria (Clathria) 1074		1074
Microcionidae	Clathria (Thalysias) cervicornis	(Thiele, 1903)	1075
Thorectidae	Strepsichordaia lendenfeldi	Bergquist, Ayling & Wilkinson 1988	1077
Chondropsidae	Phoriospongia 1080		1080
Raspailiidae	Raspailia (Raspaxilla) 1081		1081
Axinellidae	Ptilocaulis fusiformis	Levi, 1967	1082
Raspailiidae	Raspailia (Raspaxilla) clathrioides	(Levi, 1967)	1084
Axinellidae	Dracmacidon debitusae	Hooper & Levi 1993	1085
Raspailiidae	Ceratopsion clavata	Thiele 1898	1088
Axinellidae	Axinella 1089		1089
Agelasidae	Agelas mauritiana	Carter 1883	1094
Ancorinidae	Rhabdastrella globostellata	Carter 1883	1100
Dysideidae	Dysidea granulosa	Bergquist 1965	1106
Tethyidae	Tethya australis	Bergquist & Kelly-Borges 1991	1115
Callyspongiidae	Callyspongia 1116		1116
Spongiidae	Hippospongia elastica	(Lendenfeld) 1889	1121
Niphatidae	Niphates 1122		1122
Hymedesmiidae	Phorbas 1134		1134
Microcionidae	Echinoclathria waldoschmitti	de Laubenfels 1954	1141
Raspailiidae	Ectyoplasia frondosa	(Lendenfeld) 1887	1152
Raspailiidae	Raspailia (Raspailia) atropurpurea	(Carter) 1885	1153
Raspailiidae	Raspailia (Raspailia) echinata	Whitelegge 1907	1154
Raspailiidae	Raspailia (Raspailia) gracilis	(Lendenfeld, 1888)	1155
Raspailiidae	Raspailia (Raspailia) pinnatifida	(Carter) 1885	1156
Raspailiidae	Raspailia (Raspailia) tenella	(Lendenfeld) 1888	1157

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Raspailiidae	Raspailia (Raspaxilla) frondula	(Whitelegge) 1907	1159
Raspailiidae	Raspailia (Parasyringella) clathrata	Ridley 1884	1160
Raspailiidae	Raspailia (Hymeraphiopsis) irregularis	Hentschel 1914	1162
Raspailiidae	Endectyon fruticosa aruensis	(Carter) 1885	1163
Raspailiidae	Endectyon xerampelina	(Lamarck) 1814	1164
Raspailiidae	Eurypon graphidiophora	Hentschel 1911	1165
Raspailiidae	Ceratopsion dichotoma	(Whitelegge) 1907	1166
Raspailiidae	Cyamon aruense	Hentschel 1912	1167
Raspailiidae	Echinodictyum arenosum	Dendy 1896	1168
Raspailiidae	Echinodictyum carlinoides	(Lamarck) 1814	1169
Raspailiidae	Echinodictyum costiferum	Ridley 1884	1170
Raspailiidae	Echinodictyum lacunosum	Kieschnick 1898	1171
Irciniidae	Psammocinia 1175		1175
Callyspongiidae	Callyspongia (Euplaccella) 1176		1176
Raspailiidae	Echinodictyum 1178		1178
Irciniidae	Psammocinia 1181		1181
Chondropsidae	Psammoclema 1183		1183
Leucettidae	Pericharax 1187		1187
Clionidae	Cliona 1189		1189
Irciniidae	Psammocinia 1191		1191
Aplysinellidae	Aplysinella 1194		1194
Clionidae	Sphaciospongia areolata	(Dendy 1897)	1195
Aplysinidae	Aplysina 1198		1198
Microcionidae	Holopsamma 1202		1202
Chalinidae	Haliclona 1205		1205
Dysideidae	Dysidea 1211		1211
Microcionidae	Clathria (Wilsonella) 1212		1212
Phloeodictyidae	Oceanapia 1220		1220
Halichondriidae	Halichondria 1227		1227
Irciniidae	Ircinia 1228		1228
Axinellidae	Dragmacidon 1239		1239
Irciniidae	Ircinia 1242		1242
Raspailiidae	Raspailia (Clathriodendron) 1245		1245
Microcionidae	Clathria (Clathria) angulifera	Dendy, 1896	1246
Irciniidae	Ircinia 1255		1255
Halichondriidae	Halichondria bergquistae	Hooper et al. 1995	1269
Axinellidae	Phakellia 1270		1270
Ancorinidae	Disyringa (Tribrachion) schmidtii	(Weltner 1882)	1274
Druinellidae	Pseudoceratina 1279		1279
Microcionidae	Clathria (Clathria) basilana	Levi 1961	1280
Axinellidae	Phakellia 1285		1285
Niphatidae	Cribrochalina 1293		1293
Irciniidae	Ircinia 1294		1294
Coelosphaeridae	Coelosphaera 1299		1299
Ancorinidae	Stelletta 1308		1308
Thorectidae	Fasciospongia 1318		1318
Raspailiidae	Ceratopsion aurantiaca	(Lendenfeld, 1888)	1328
Axinellidae	Axinella 1333		1333
Axinellidae	Axinella 1341		1341
Microcionidae	Clathria (Axosuberites) thetidis	(Hallmann, 1920)	1342
Microcionidae	Clathria (Clathria) striata	Whitelegge, 1907	1343
Microcionidae	Holopsamma arborea	(Lendenfeld, 1888)	1344
Microcionidae	Holopsamma rotunda	(Hallmann, 1912)	1358
Petrosiidae	Neopetrosia pacifica	(Kelly-Borges & Bergquist 1988)	1362
Callyspongiidae	Arenosclera 1363		1363
Spongiidae	Hyattella 1366		1366
Callyspongiidae	Dactylia 1368		1368

Phloeodictyidae	Aka 1373		1373
Callyspongiidae	Siphonochalina 1374		1374
Callyspongiidae	Dactylia 1376		1376
Sycettidae	Sycon cf. gelatinosum	Blainville, 1834	1390
Leucettidae	Leucetta chagosensis	Dendy 1913	1402
Microcionidae	Echinochalina_(Protophlitapongia) bispiculata	(Dendy, 1895)	1413
Raspailiidae	Aulospongos samariensis	Hooper et al, 1998	1422
Microcionidae	Clathria (Microcion) illawarrae	Hooper, 1996	1474
Axinellidae	Axinella 1490		1490
Axinellidae	Axinella 1491		1491
Spongiidae	Coscinoderma mathewsi	(Lindenfeld) 1886	1493
Thorectidae	Dactylospongia elegans	(Thiele) 1899	1514
Desmacididae	Liosina paradoxa	Theile, 1899	1518
Dysideidae	Dysidea 1519		1519
Dysideidae	Dysidea 1524		1524
Crellidae	Crella 1525		1525
Crambeidae	Monanchora (Ectyobatzella) 1541		1541
Dysideidae	Dysidea 1547		1547
Levinellidae	Levinella prolifera	(Dendy) 1913	1554
Callyspongiidae	Euplacella 1559		1559
Microcionidae	Antho (Isopenectya) punicea	Hooper, 1996	1571
Axinellidae	Reniochalina 1607		1607
Microcionidae	Echinochalina (Echinochalina) felixi	Hooper, 1996	1610
Raspailiidae	Echinodictyum 1620		1620
Microcionidae	Echinoclathria 1628		1628
Microcionidae	Echinoclathria bergquistae	Hooper, 1996	1629
Microcionidae	Echinoclathria digitata	(Lendenfeld, 1888)	1630
Microcionidae	Clathria (Thalysias) fusterna	Hooper, 1996	1631
Microcionidae	Clathria (Microcion) lizardensis	Hooper, 1996	1632
Axinellidae	Auletta 1638		1638
Axinellidae	Phakellia 1639		1639
Axinellidae	Axinella 1640		1640
Raspailiidae	Endectyon 1641		1641
Axinellidae	Reniochalina 1642		1642
Axinellidae	Reniochalina 1643		1643
Raspailiidae	Raspailia (Parasyringella) 1644		1644
Microcionidae	Clathria (Axosuberites) 1645		1645
Microcionidae	Clathria (Microcion) 1646		1646
Microcionidae	Clathria (Microcion) mima	(de Laubenfels, 1954)	1650
Axinellidae	Cymbastela 1655		1655
Axinellidae	Axinella 1659		1659
Microcionidae	Clathria (Microcion) 1665		1665
Microcionidae	Antho (Isopenectya) saintvincenti	Hooper, 1996	1685
Raspailiidae	Raspailia (Raspailia) 1695		1695
Raspailiidae	Raspailia (Raspaxilla) 1696		1696
Microcionidae	Echinoclathria levii	Hooper, 1996	1697
Microcionidae	Echinoclathria notialis	Hooper, 1996	1698
Microcionidae	Echinoclathria parkeri	Hooper, 1996	1699
Microcionidae	Echinoclathria inornata	(Hallmann) 1912	1700
Microcionidae	Echinoclathria confragosa	(Hallmann) 1912	1702
Microcionidae	Echinoclathria axinelloides	(Dendy, 1896)	1703
Esperiopsidae	Ulosa spongia	(de Laubenfels, 1954)	1728
Phloeodictyidae	Aka 1738		1738
Microcionidae	Echinochalina_(Protophlitapongia) isaaci	Hooper, 1996	1754
Microcionidae	Echinochalina_(Protophlitapongia) collata	Hooper, 1996	1755
Microcionidae	Clathria (Isociella) 1758		1758

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Raspailiidae	Raspailia (Raspailia) 1761		1761
Microcionidae	Clathria (Microciona) 1763		1763
Raspailiidae	Raspailia_(Parasyringella) 1765		1765
Axinellidae	Axinella 1769		1769
Axinellidae	Phakellia 1770		1770
Raspailiidae	Raspailia (Raspailia) 1772		1772
Halichondriidae	Amorphinopsis 1785		1785
Axinellidae	Reniochalina 1795		1795
Microcionidae	Clathria (Clathria) faviformis	Lehnert & van Soest, 1996	1820
Microcionidae	Holopsamma 1830		1830
Dysideidae	Eurosporgia deliculata	Bergquist, 1995	1833
Microcionidae	Clathria (Microciona) 1839		1839
Dysideidae	Dysidea 1845		1845
Chalinidae	Haliclona 1853		1853
Microcionidae	Echinoclathria 1855		1855
Esperiopsidae	Ulosa 1856		1856
Tetillidae	Cinachyrella 1870		1870
Microcionidae	Clathria (Microciona) 1875		1875
Irciniidae	Ircinia 1876		1876
Raspailiidae	Eurypon 1877		1877
Halichondriidae	Axinyssa 1878		1878
Microcionidae	Clathria (Microciona) 1882		1882
Raspailiidae	Eurypon 1889		1889
Microcionidae	Clathria (Microciona) 1890		1890
Microcionidae	Clathria (Dendrocia) dura	Whitelegge, 1901	1921
Microcionidae	Clathria (Microciona) 1940		1940
Niphatidae	Niphates 1943		1943
Irciniidae	Ircinia 1944		1944
Chalinidae	Haliclona 1954		1954
Microcionidae	Clathria (Microciona) 1957		1957
Thorectidae	Candidaspongia flabellata	Bergquist, Sorokin & Karusu, 1999	1958
Podospongiidae	Diacarnus levii	Kelly-Borges & Vacelet 1995	1960
Niphatidae	Niphates 1980		1980
Spongiidae	Spongia 1983		1983
Halichondriidae	Halichondria 1984		1984
Microcionidae	Echinochalina_(Protophlitapongia) 1991		1991
Raspailiidae	Thrinacophora 1993		1993
Raspailiidae	Echinodictyum 2001		2001
Callyspongiidae	Callyspongia 2022		2022
Druinellidae	Aplysinella rhax	(de Laubenfels, 1954)	2027
Microcionidae	Clathria (Microciona) 2033		2033
Axinellidae	Reniochalina 2036		2036
Microcionidae	Clathria (Microciona) richmondi	Hooper, Kelly-Borges and Kennedy, 2000	2055
Microcionidae	Echinochalina (Echinochalina) 2057		2057
Axinellidae	Axinella 2083		2083
Raspailiidae	Echinodictyum 2088		2088
Axinellidae	Axinella 2108		2108
Microcionidae	Clathria (Microciona) 2114		2114
Axinellidae	Auleta 2136		2136
Microcionidae	Clathria (Microciona) 2145		2145
Axinellidae	Axinella 2159		2159
Thorectidae	Fascaplysinopsis 2170		2170
Microcionidae	Clathria (Microciona) 2176		2176
Microcionidae	Clathria (Microciona) 2177		2177

Niphatiidae	Cribrochalina 2178		2178
Axinellidae	Axinella 2189		2189
Rhabderemiidae	Rhabderemia 2195		2195
Axinellidae	Phakellia 2202		2202
Axinellidae	Axinella 2205		2205
Microcionidae	Clathria (Thalysias) 2207		2207
Microcionidae	Clathria (Thalysias) 2211		2211
Raspailiidae	Raspailia (Raspaxilla) 2264		2264
Microcionidae	Clathria (Microciona) 2265		2265
Axinellidae	Axinella 2267		2267
Axinellidae	Axinella 2281		2281
Microcionidae	Clathria (Microciona) 2292		2292
Microcionidae	Clathria (Microciona) 2295		2295
Microcionidae	Clathria (Microciona) 2310		2310
Microcionidae	Clathria (Microciona) 2317		2317
Raspailiidae	Echinodictyum 2319		2319
Microcionidae	Clathria (Thalysias) 2322		2322
Raspailiidae	Aulospongos 2349		2349
Axinellidae	Phakellia 2356		2356
Raspailiidae	Raspailia (Parasyringella) 2357		2357
Microcionidae	Clathria (Thalysias) 2373		2373
Microcionidae	Clathria (Clathria) 2376		2376
Desmacididae	Iotrochota 2386		2386
Microcionidae	Clathria (Thalysias) 2413		2413
Raspailiidae	Eurypon hispida	de Laubenfels, 1954	2414
Microcionidae	Clathria (Microciona) 2431		2431
Microcionidae	Clathria (Thalysias) 2432		2432
Microcionidae	Clathria (Thalysias) 2433		2433
Microcionidae	Clathria (Thalysias) 2441		2441
Microcionidae	Clathria (Clathria) 2454		2454
Agelasidae	Agelas 2480		2480
Raspailiidae	Raspailia_(Parasyringella) 2482		2482
Microcionidae	Clathria (Microciona) 2489		2489
Microcionidae	Clathria (Thalysias) 2530		2530
Microcionidae	Clathria (Axosuberites) nidificata	Kirkpatrick, 1907	2574
Microcionidae	Clathria (Thalysias) 2583		2583
Axinellidae	Cymbastela 2606		2606
Axinellidae	Auletta 2613		2613
Raspailiidae	Echinodictyum 2627		2627
Axinellidae	Axinella 2635		2635
Axinellidae	Auletta 2636		2636
Tetillidae	Tetilla 2655		2655
Microcionidae	Echinochalina_(Protophlitapongia) 2688		2688
Microcionidae	Clathria (Thalysias) 2692		2692
Microcionidae	Clathria (Microciona) 2701		2701
Microcionidae	Clathria (Clathria) 2711		2711
Raspailiidae	Raspailia (Raspailia) 2714		2714
Microcionidae	Clathria (Microciona) 2723		2723
Microcionidae	Clathria (Axosuberites) 2731		2731
Raspailiidae	Ceratopsion cf. montebelloensis	Hooper, 1991	2732
Axinellidae	Phakellia 2755		2755
Raspailiidae	Echinodictyum 2789		2789
Axinellidae	Ptilocaulis 2791		2791
Axinellidae	Ptilocaulis 2800		2800
Raspailiidae	Raspailia_(Parasyringella) 2803		2803
Raspailiidae	Ceratopsion 2806		2806
Microcionidae	Echinochalina (Echinochalina) 2819		2819

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Microcionidae	Echinochalina (Echinochalina) 2822		2822
Axinellidae	Axinella 2823		2823
Raspailiidae	Ceratopsion 2825		2825
Microcionidae	Clathria (Microcion) 2844		2844
Raspailiidae	Ceratopsion 2846		2846
Axinellidae	Ptilocaulis 2856		2856
Axinellidae	Ptilocaulis 2866		2866
Raspailiidae	Aulospongos 2876		2876
Microcionidae	Echinochalina_(Protophlitapongia) oxeata	(Burton, 1934)	2878
Microcionidae	Clathria (Isociella) 2897		2897
Axinellidae	Axinella 2938		2938
Axinellidae	Axinella 2950		2950
Raspailiidae	Raspailia (Raspailia) 2953		2953
Microcionidae	Echinochalina (Echinochalina) 2959		2959
Axinellidae	Axinella 2962		2962
Raspailiidae	Ceratopsion 2964		2964
Chondropsidae	Psammoclema 2980		2980
Raspailiidae	Raspailia (Raspailia) 3003		3003
Axinellidae	Phakellia 3004		3004
Microcionidae	Clathria (Clathria) hispidula	(Ridley, 1884)	3005
Axinellidae	Cymbastela 3009		3009
Axinellidae	Phakellia columnata	Burton, 1928	3016
Axinellidae	Cymbastela 3052		3052
Raspailiidae	Raspailia (Raspailia) 3054		3054
Microcionidae	Echinochalina (Echinochalina) 3088		3088
Raspailiidae	Echinodictyum 3089		3089
Axinellidae	Reniochalina 3092		3092
Axinellidae	Phakellia 3096		3096
Axinellidae	Phakellia 3102		3102
Axinellidae	Axinella 3108		3108
Raspailiidae	Raspailia (Raspaxilla) clathrioides	(Levi) 1967	3115
Raspailiidae	Raspailia (Raspailia) 3189		3189
Axinellidae	Auletta 3196		3196
Microcionidae	Clathria (Dendrocia) 3197		3197
Microcionidae	Clathria (Wilsonella) 3214		3214
Axinellidae	Axinella 3249		3249
Axinellidae	Auletta 3256		3256
Axinellidae	Cymbastela 3287		3287
Raspailiidae	Raspailia (Clathriodendron)) 3311		3311
Axinellidae	new genus? 3324		3324
Microcionidae	Echinochalina_(Protophlitapongia) 3333		3333
Axinellidae	Phakellia 3356		3356
Microcionidae	Echinochalina (Echinochalina) 3446		3446
Axinellidae	Phakellia 3459		3459
Axinellidae	Axinella 3461		3461
Raspailiidae	Raspailia (Raspailia) 3463		3463
Microcionidae	Echinochalina_(Protophlitapongia) 3482		3482
Microcionidae	Clathria (Clathria) 3488		3488
Axinellidae	Ptilocaulis 3490		3490
Axinellidae	Dragmacidon 3493		3493
Raspailiidae	Ceratopsion 3496		3496
Raspailiidae	Ceratopsion 3520		3520
Raspailiidae	Raspailia (Clathriodendron) 3554		3554
Raspailiidae	Raspailia (Raspailia) 3578		3578
Microcionidae	Echinoclathria 3587		3587
Microcionidae	Clathria (Microcion) 3589		3589
Axinellidae	Axinella 3611		3611

Axinellidae	Phakellia 3612		3612
Axinellidae	Cymbastela 3613		3613
Axinellidae	Cymbastela 3614		3614
Axinellidae	Axinella 3616		3616
Microcionidae	Echinoclathria 3617		3617
Microcionidae	Echinochalina (Echinochalina) 3643		3643
Raspailiidae	Raspailia (Hymeraphiopsis) 3644		3644
Microcionidae	Clathria (Axosuberites) 3678		3678
Microcionidae	Clathria (Clathria) biclathria	Hooper, 1992.	3684
Microcionidae	Clathria (Clathria) basilana	Levi, 1961	3689
Microcionidae	Clathria (Thalysias) distincta	Thiele, 1903	3690
Microcionidae	Clathria (Clathria) echinonematissima	Carter, 1881	3691
Microcionidae	Clathria (Dendrosia) elegantula	Ridley & Dendy, 1886	3692
Microcionidae	Clathria (Axosuberites) macropora	Ledenfeld 1888	3694
Microcionidae	Clathria (Clathria) inanchorata	Ridley and Dendy, 1886	3695
Microcionidae	Clathria (Clathria) meyeri	Bowerbank 1877	3696
Microcionidae	Clathria (Clathria) multipes	Hallman 1912	3697
Microcionidae	Clathria (Clathria) nexus	Koltun 1964	3698
Microcionidae	Clathria (Clathria) oxyphila	Hallman 1912	3699
Microcionidae	Clathria (Clathria) partita	Hallman 1912	3700
Microcionidae	Clathria (Clathria) perforata	Ledenfeld 1887	3701
Microcionidae	Clathria (Clathria) piniformis	Carter 1885	3702
Microcionidae	Clathria (Clathria) raphana	Lamarck 1813	3703
Microcionidae	Clathria (Dendrocia) scabida	Carter 1885	3705
Microcionidae	Clathria (Clathria) squalorum	Wiedenmayer, 1984	3706
Microcionidae	Clathria (Clathria) wilsoni	Wiedenmayer 1989	3709
Microcionidae	Clathria (Dendrocia) imperfecta	Dendy 1896	3713
Microcionidae	Clathria (Axosuberites) cylindrica	Ridley and Dendy 1886	3714
Microcionidae	Clathria (Isociella) macropora	Ledenfeld, 1886	3715
Microcionidae	Clathria (Thalysias) arborescens	Ridley 1884	3716
Microcionidae	Clathria (Thalysias) aruensis	Hentschel 1912	3717
Microcionidae	Clathria (Thalysias) calochela	Hentschel 1913	3718
Microcionidae	Clathria (Thalysias) cratitia	Esper 1797	3719
Microcionidae	Clathria (Thalysias) dubia	Kirkpatrick 1900	3720
Microcionidae	Clathria (Thalysias) fasciculata	Wilson 1925	3721
Microcionidae	Clathria (Thalysias) juniperina	Lamarck 1814	3723
Microcionidae	Clathria (Thalysias) longitoxa	Hentschel 1912	3725
Microcionidae	Clathria (Thalysias) nuda	Hentschel 1912	3728
Microcionidae	Clathria (Thalysias) paucispina	Ledenfeld 1888	3730
Microcionidae	Clathria (Thalysias) placenta	Lamarck 1814	3731
Microcionidae	Clathria (Thalysias) ramosa	Kieschnick 1896	3732
Microcionidae	Clathria (Thalysias) topsenti	Thiele 1899	3735
Microcionidae	Clathria (Thalysias) cf. "coralliophila"	Burton, 1928	3736
Microcionidae	Clathria (Clathria) arcuophora	Whitelegge 1907	3737
Microcionidae	Clathria (Thalysias) nidificata	Kirkpatrick	3743
Microcionidae	Clathria (Clathria) paucispicula	(Burton) 1932	3744
Microcionidae	Echinochalina (Echinochalina) australiensis	Ridley, 1884	3747
Microcionidae	Holopsamma elegans	Ledenfeld 1888	3752
Microcionidae	Holopsamma simplex	Ledenfeld 1885	3753
Raspailiidae	Ceratopsion 3762		3762
Microcionidae	Echinochalina_(Protophlitapongia) 3763		3763
Axinellidae	Cymbastela 3767		3767
Axinellidae	Ptilocaulis 3816		3816
Axinellidae	Auletta 3817		3817
Axinellidae	Cymbastela 3818		3818
Axinellidae	Axinella 3832		3832

Axinellidae	Reniochalina 3833		3833
Rhabderemiidae	Rhabderemia 3834		3834
Rhabderemiidae	Rhabderemia 3835		3835
Microcionidae	Clathria (Dendrocia) 3837		3837
Raspailiidae	Raspailia (Raspailia) 3838		3838
Microcionidae	Clathria (Isociella) 3840		3840
Microcionidae	Echinochalina (Echinochalina) 3843		3843
Microcionidae	Echinochalina (Echinochalina) 3844		3844
Microcionidae	Clathria (Clathria) cf. paucispicula	Burton 1932	3946
Microcionidae	Clathria (Thalysias) rubra	Lendenfeld 1888	3947

APPENDIX 2.A.

Similarities between larger scale (ϵ -scale diversity) IMCRA bioregions, indicating pairwise comparisons in the number of species co-occurring in both bioregion (upper part of matrix), the total number of species co-occurring in both bioregion (diagonal, bold font), and percentage of species co-occurring in both bioregion (lower part of matrix).

Bio-region	NEB	CEB	NEP	NWP	W.NP	E.NP	NWB	CWP	CWB
NEB	766	280	296	83	90	96	79	36	5
CEB	10.32	791	264	66	67	66	62	32	5
NEP	10.91	9.73	548	54	65	58	58	27	5
NWP	3.06	2.43	1.99	391	138	97	112	58	16
W.NP	3.32	2.47	2.39	5.08	387	110	110	33	10
E.NP	3.54	2.43	2.14	3.57	4.05	271	84	31	7
NWB	2.91	2.28	2.14	4.13	4.05	0.31	250	29	10
CWP	1.33	1.18	0.99	2.14	1.22	1.14	1.07	145	11
CWB	0.18	0.18	0.18	0.59	0.37	0.26	0.37	0.41	33

APPENDIX 2 B. Small scale (y-scale diversity) localities sampled for sponges in northern Australia extending into temperate/ transitional faunal zones. 'Unique' species and genera refer to taxa found only within a particular locality.

Local. No.	Latitude range	Longitude range	IMCRA Bio-region name	Locality Name	No sites sampled in this locality	No. species	No. unique species	% unique species	No. Genera	No. unique genera	% unique genera
1	33°00' - 35°00' S	150°00' - 154°00' E	CEP	Sydney, Illawarra, Newcastle regions, NSW	41	178	123	69	66	4	6
2	28°05' - 29°00' S	153°30' - 154°30' E	CEB	Northern NSW – Byron Bay region, NSW	9	64	18	28	33	1	3
3	27°50' - 28°05' S	153°00' - 154°30' E	CEB	Gold Coast – Tweed River to S. Stradbroke I., Qld	9	42	12	29	22	0	0
4	26°50' - 27°50' S	153°00' - 154°00' E	CEB	Moreton Bay, Stradbroke & Moreton Islands, Qld	84	239	73	31	78	3	4
5	26°00' - 26°50' S	153°00' - 154°00' E	CEB	Sunshine Coast (Mooloolaba to Noosa), Qld	26	238	61	26	92	1	1
6	24°30' - 26°00' S	152°00' - 154°00' E	CEB	Hervey Bay – Fraser Island region, Qld	31	111	15	14	39	1	3
7	23°00' - 24°30' S	151°30' - 153°00' E	NEP	Capricorn-Bunkers to Keppel Is. Southern section GBR, Qld	72	410	157	38	118	5	4
8	21°30' - 23°00' S	151°00' - 153°00' E	NEP	Swain Reefs, outer Southern section GBR, Qld	70	329	55	17	93	1	1
9	21°30'-22°20' S	149°-151°00' E	NEP	Northumberland Islands Group, Southern section GBR, Qld	1	36	7	19	29	0	0
10	20°00' - 21°00' S	148°00' - 149°30' E	NEP	Whitsunday Is. , Central section GBR, Qld	52	189	71	38	69	0	0
11	20°30' - 21°30' S	149°50' - 151°50' E	NEP	Pompey Reefs, outer Southern section GBR, Qld	11	162	19	12	77	0	0
12	18°00' - 20°00' S	146°00' - 150°50' E	NEP	Townsville region (Orpheus, Palm, Slashers, Myrmedon, Broadhurst, Hook, Old, Stanley Rfs) – Central section GBR, Qld	127	325	95	29	77	0	0
13	16°30' - 18°00' S	145°30' - 147°00' E	NEB	Cairns region (Batt, Oyster, Sudbury, Opal Rfs) – Cairns section GBR, Qld	73	143	26	18	65	3	5
14	16°00' - 16°30' S	145°20' - 146°30' E	NEB	Low Islets – Cairns section GBR, Qld	34	157	36	23	62	1	2

Collation and validation of museum collection databases related to the distribution of marine sponges in northern Australia

15	14°00' - 16°00' S	144°30' - 146°00' E	NEB	Lizard, Direction Is, Ribbon, NoName, Yonge Rfs - Cairns section GBR, Qld	131	503	171	34	104	1	1
16	13°30' - 16°00' S	146°30' - 147°30' E	Coral Sea	Northern section Queensland Plateau, Coral Sea - Osprey, Bougainville Rfs	22	106	45	42	51	0	0
17	20°00' - 23°00' S	153°00' - 157°00' E	Coral Sea	Southern section Queensland Plateau, Coral Sea - Wreck, Cato, Saumarez Reefs	17	101	27	27	62	1	2
18	11°00' - 14°30' S	142°30' - 144°30' E	NEB	Far Northern section GBR (Cockburn, Flinders, Howick Rfs, Turtle Group, Shelburne Bay), Qld	80	196	35	18	71	1	1
19	09°30' - 11°00' S	141°30' - 143°30' E	NEB	Torres Straits region, Qld	69	150	54	36	41	0	0
20	11°00' - 15°00' S	139°00' - 142°30' E	E.NP	East Gulf of Carpentaria, Qld	49	94	13	14	56	1	2
21	15°00' - 18°00' S	135°00' - 142°00' E	E.NP	South Gulf of Carpentaria, Qld/ NT	37	85	23	27	31	0	0
22	13°00' - 15°00' S	135°00' - 139°00' E	E.NP	West Gulf of Carpentaria, NT	40	53	11	21	27	0	0
23	12°00' - 13°00' S	135°00' - 138°00' E	E.NP	Gove region, NT	17	39	0	0	25	0	0
24	10°45' - 12°00' S	135°00' - 137°00' E	E.NP	Wessel Islands, NT	133	315	69	22	116	3	3
25	10°45' - 13°00' S	130°00' - 135°00' E	W.NP	Darwin and Cobourg Peninsula regions, NT	148	418	177	42	111	1	1
26	13°00' - 15°30' S	127°00' - 130°30' E	NWB	Joseph Bonaparte Gulf, NT/WA	13	13	0	0	17	0	0
27	13°00' - 15°30' S	124°10' - 127°00' E	NWB	Bonaparte Archipelago, WA	16	26	0	0	9	0	0
28	15°25' - 18°00' S	121°00' - 125°30' E	NWB	Broome region, Northwest Shelf, WA	19	99	25	25	48	3	6
29	11°00' - 13°30' S	122°00' - 124°10' E	Sahul Shelf	N Sahul Shelf (Ashmore, Cartier, Hibernia Reefs)	30	125	39	31	77	2	3
30	17°00' - 18°00' S	118°45' - 119°45' E	Sahul Shelf	S Sahul Shelf (Rowley Shoals)	4	5	0	0	20	2	10
31	18°00' - 22°30' S	115°00' - 120°00' E	NWP	Dampier and Port Headland regions, Northwest Shelf, WA	179	380	155	41	129	6	5
32	21°00' - 23°00' S	113°00' - 115°00' E	NWP	Exmouth Gulf region, WA	34	88	44	50	16	0	0
33	23°00' - 27°00' S	112°00' - 115°00' E	CWB	Shark Bay region, WA	17	50	15	30	38	3	8
34	27°00' - 29°00' S	112°00' - 115°00' E	CWP	Houtman Abrolhos, WA	36	173	85	49	49	2	4

APPENDIX 4. List of species occurring in four or more tropical Australian bioregions.

SpeciesName	CEB	NEP	NEB	E.NP	W.NP	NWB	NWP	CWB	CWP	T o t a l bioregions
<i>Clathria</i> (Thalysias) vulpina (Lamarck, 1814)	1	1	1	1	1	1	1	1	1	9
<i>Echinodictyum mesenterinum</i> (Lamarck, 1814)	1	1	1	1	1	1	1	0	1	8
<i>Sphaciospongia papillosa</i> (Ridley & Dendy, 1886)	1	1	1	1	0	1	1	1	1	8
<i>Acanthella cavernosa</i> Dendy, 1922	1	1	1	1	1	1	1	0	0	7
<i>Cinachyrella australiensis</i> (Carter, 1886)	1	1	1	1	1	1	1	0	0	7
<i>Dysidea cf. avara</i> (Schmidt, 1862)	1	1	1	1	1	1	1	0	0	7
<i>Echinodictyum asperum</i> (Ridley & Dendy, 1886)	1	0	1	1	1	1	1	1	0	7
<i>Higginsia mixta</i> (Hentschel, 1912)	1	1	1	1	1	1	1	0	0	7
<i>Hyattella intestinalis</i> (Lamarck, 1814)	1	0	1	1	1	1	1	0	1	7
<i>lanthella basta</i> (Pallas, 1776)	1	1	1	1	1	1	1	0	0	7
<i>lanthella cf. flabelliformis</i> (Pallas, 1776)	1	1	1	1	1	1	1	0	0	7
<i>lanthella flabelliformis</i> (Pallas, 1776)	1	1	1	1	1	1	1	0	0	7
<i>Iotrochota baculifera</i> Ridley, 1884	1	1	1	1	1	1	1	0	0	7
<i>Ircinia</i> 1	1	1	1	0	1	1	1	0	1	7
<i>Ircinia</i> 1255	1	1	1	1	1	1	1	0	0	7
<i>Myrmekioderma granulata</i> (Esper, 1830)	1	1	1	1	1	1	1	0	0	7
<i>Oceanapia</i> 135	1	0	1	1	1	1	1	0	1	7
<i>Rhabdastrella globostellata</i> (Carter, 1883)	1	1	1	1	1	1	1	0	0	7
<i>Xestospongia testudinaria</i> (Lamarck, 1813)	1	1	1	1	1	1	1	0	0	7
<i>Agelas axifera</i> Hentschel, 1911	1	1	1	0	0	1	1	0	1	6
<i>Aka mucosa</i> (Bergquist, 1965)	0	1	1	1	1	1	1	0	0	6
<i>Aplysina ianthelliformis</i> (Lendenfeld, 1888)	1	1	1	0	1	0	1	0	1	6
<i>Callyspongia</i> (Toxochalina) schulzei Kieschnick, 1900	1	1	0	1	1	1	1	0	0	6
<i>Carteriospongia foliascens</i> (Pallas, 1766)	1	1	1	1	0	1	1	0	0	6
<i>Cinachyrella</i> _(Raphidotethya) enigmatica (Burton, 1934)	1	1	1	0	1	1	1	0	0	6
<i>Ciocalyptra tyleri</i> Bowerbank, 1873	1	1	1	0	1	1	1	0	0	6
<i>Clathria</i> (Thalysias) lendenfeldi Ridley & Dendy, 1886	0	0	1	1	1	1	1	1	0	6

SpeciesName	CEB	NEP	NEB	E.NP	W.NP	NWB	NWP	CWB	CWP	T o t a l bioregions
Crella_(Crella) spinulata (Hentschel, 1911)	0	1	1	0	1	1	1	0	1	6
Dendrilla rosea Lendenfeld, 1883	1	1	1	1	1	0	0	0	1	6
Fascaplysinopsis reticulata (Hentschel, 1912)	1	1	1	1	1	1	0	0	0	6
Haliclona (Haliclona) cymaeformis (Esper, 1794)	0	1	1	0	1	1	1	0	1	6
Ianthella quadrangulata Bergquist & Kelly Borges, 1995	1	1	1	1	1	1	0	0	0	6
Lamellosidea herbacea (Keller, 1889)	1	1	1	0	1	1	1	0	0	6
Oceanapia ramsayi (Lendenfeld, 1888)	1	0	0	1	1	1	1	0	1	6
Pachymatisma 311	1	0	1	1	1	0	1	0	1	6
Pericharax 58	1	0	0	1	1	1	1	0	1	6
Plakortis nigra Levi, 1959	1	1	1	0	0	1	1	0	1	6
Reniochalina stalagmitis Lendenfeld, 1888	1	0	1	1	1	1	1	0	0	6
Aaptos aaptos (Schmidt, 1864)	1	1	1	0	0	1	1	0	0	5
Agelas mauritiana (Carter, 1883)	1	1	1	0	1	1	0	0	0	5
Axinella aruensis Hentschel, 1912	0	0	1	1	1	1	1	0	0	5
Axinella flabellata (Ridley & Dendy, 1886)	1	1	1	0	0	1	0	1	0	5
Cinachyrella 333	0	0	0	1	1	1	1	0	1	5
Clathria (Thalysias) abietina (Lamarck, 1814)	0	0	1	1	1	1	1	0	0	5
Clathria (Thalysias) reinwardti Vosmaer, 1880	0	0	1	1	1	1	1	0	0	5
Craniella 402	0	0	0	1	1	1	1	1	0	5
Dactylospongia elegans (Thiele, 1899)	1	1	1	1	0	1	0	0	0	5
Dracmacidon australis (Bergquist, 1970)	1	1	1	0	1	1	0	0	0	5
Dysidea granulosa Bergquist, 1965	1	1	1	0	1	1	0	0	0	5
Echinochalina (Echinochalina) intermedia (Whitelegge, 1902)	1	1	1	1	0	0	1	0	0	5

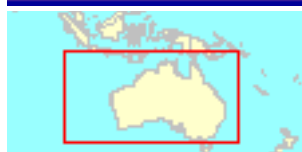
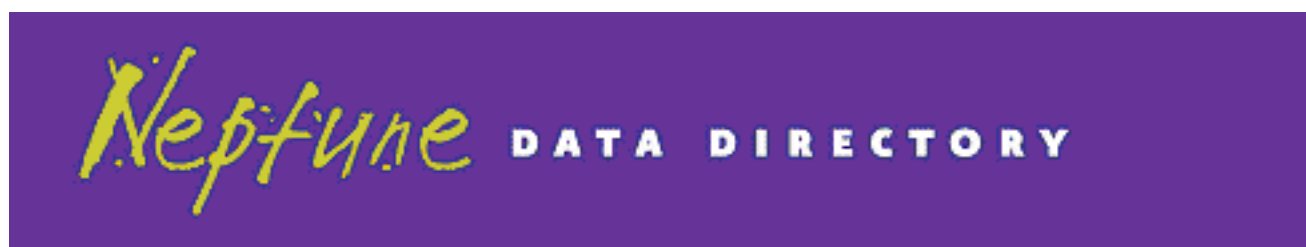
SpeciesName	CEB	NEP	NEB	E.NP	W.NP	NWB	NWP	CWB	CWP	T o t a l bioregions
Echinodictyum cancellatum (Lamarck, 1814)	0	0	0	1	1	1	1	1	0	5
Echinodictyum conulosum Kieschnick, 1900	1	0	1	1	1	0	1	0	0	5
Ectyoplasia tabula (Lamarck, 1814)	0	0	0	1	1	1	1	0	1	5
Halichondria (Halichondria) stalagmites (Hentschel, 1912)	1	1	1	0	1	1	0	0	0	5
Higginsia scabra Whitelegge, 1907	0	0	1	1	1	1	1	0	0	5
Hytios erecta (Keller, 1889)	1	1	1	0	1	1	0	0	0	5
Lendenfeldia plicata (Esper, 1806)	0	1	1	0	1	1	0	0	1	5
Mycale (Arenochalina) mirabilis (Lendenfeld, 1887)	1	1	1	1	0	0	1	0	0	5
Neopetrosia exigua (Kirkpatrick, 1900)	1	1	1	0	1	1	0	0	0	5
Niphates 307	0	0	0	1	1	1	1	0	1	5
Pericharax heteroraphis (Polejaeff, 1883)	1	1	1	1	0	1	0	0	0	5
Phakellia 646	0	0	1	1	1	1	1	0	0	5
Phyllospongia lamellosa (Esper, 1794)	1	1	1	0	1	0	0	0	1	5
Phyllospongia papyracea (Esper, 1806)	1	1	1	0	0	1	1	0	0	5
Pseudoceratina 190	0	0	0	1	1	1	1	0	1	5
Pseudoceratina 364	1	1	1	0	1	1	0	0	0	5
Raspailia (Raspailia) vestigifera Dendy, 1896	0	0	0	1	1	1	1	0	1	5
Reniochalina 122	0	1	0	1	1	1	1	0	0	5
Spheciospongia vagabunda (Ridley, 1884)	1	0	0	1	1	0	1	0	1	5
Stelletta 1005	1	1	1	0	0	1	1	0	0	5
Stelletta clavosa (Sollas, 1888)	0	1	1	1	1	0	1	0	0	5
Stylissa flabelliformis (Hentschel, 1912)	0	1	1	0	1	1	1	0	0	5
Thorectandra excavatus (Ridley, 1884)	0	0	0	1	1	1	1	0	1	5

SpeciesName	CEB	NEP	NEB	E.NP	W.NP	NWB	NWP	CWB	CWP	T o t a l bioregions
Trikenrion flabelliforme Hentschel, 1912	0	0	0	1	1	1	1	1	0	5
Acanthella constricta Pulitzer-Finali, 1982	1	1	1	0	0	0	1	0	0	4
Agelas cf.mauritiana (Carter, 1883)	1	1	1	1	0	0	0	0	0	4
Aka 332	0	0	1	0	1	1	1	0	0	4
Amphimedon 167	0	0	1	1	0	0	1	0	1	4
Anomoianthella popeae Bergquist, 1980	0	0	0	0	1	1	1	0	1	4
Astroclera wileyana Lister, 1900	1	1	1	0	0	1	0	0	0	4
Axechina raspailioides Hentschel, 1912	0	0	1	1	1	0	1	0	0	4
Axinella 26	0	0	0	1	1	1	1	0	0	4
Callyspongia (Callyspongia) 138	0	0	1	1	1	1	0	0	0	4
Callyspongia (Callyspongia) 369	0	1	0	1	1	0	0	0	1	4
Caulospongia perfoliata (Lamarck, 1813)	0	0	0	0	0	1	1	1	1	4
Ceratopsion palmata Hooper, 1991	0	0	0	1	1	1	1	0	0	4
Chondrilla 14	1	1	1	0	1	0	0	0	0	4
Cinachyrella 376	1	1	1	0	1	0	0	0	0	4
Cinachyrella schulzei Keller, 1880	0	0	1	0	1	1	1	0	0	4
Clathria (Thalysias) procera (Ridley, 1884)	0	0	1	1	1	0	1	0	0	4
Clathria (Thalysias) tingens Hooper, 1996	0	1	1	0	1	1	0	0	0	4
Cilona 17	1	1	0	0	1	1	0	0	0	4
Cilona 76	0	0	1	1	1	0	1	0	0	4
Cilona orientalis Thiele, 1900	1	1	1	0	1	0	0	0	0	4
Cilona patera (Hardwicke, 1822)	0	0	1	1	0	1	1	0	0	4
Coelocarteria singaporensis (Carter, 1883)	0	1	1	1	1	0	0	0	0	4

SpeciesName	CEB	NEP	NEB	E.NP	W.NP	NWB	NWP	CWB	CWP	T o t a l bioregions
Crella_(Crella) 1525	1	1	1	1	0	0	0	0	0	4
Cymbastela coralliophila Hooper & Bergquist, 1992	1	1	1	1	0	0	0	0	0	4
Cymbastela vespertina Hooper & Bergquist, 1992	0	0	0	1	1	1	1	0	0	4
Desmapsamma 241	0	1	0	0	1	1	1	0	0	4
Dictyodendrilla 362	0	0	1	0	1	1	1	0	0	4
Disyringia dissimilis (Ridley, 1884)	0	0	0	1	1	1	1	0	0	4
Dysidea 16	0	1	1	0	1	1	0	0	0	4
Dysidea arenaria (Bergquist, 1965)	1	1	1	0	0	1	0	0	0	4
Echinodictyum nidulus Hentschel, 1911	0	1	0	0	1	0	0	1	1	4
Ectyoplasia vannus Hooper, 1991	0	0	0	1	1	1	1	0	0	4
Esperiopsis 48	0	0	1	0	1	0	1	0	1	4
Fasciospongia 290	0	0	1	1	0	0	1	0	1	4
Gelloides fibulatus Ridley, 1884	0	1	1	0	1	1	0	0	0	4
Halichondria (Halichondria) 1227	1	1	1	1	0	0	0	0	0	4
Halichondria (Halichondria) 179	0	0	1	1	0	1	1	0	0	4
Halichondria (Halichondria) bergquistae Hooper et al., 1997	1	1	1	0	1	0	0	0	0	4
Halichondria (Halichondria) phakellioides Dendy & Frederick, 1924	0	0	0	1	1	1	1	0	0	4
Haliclona (Haliclona) 1381	1	1	1	1	0	0	0	0	0	4
Haliclona (Haliclona) 36	0	0	0	1	1	1	1	0	0	4
Haliclona (Haliclona) 384	1	0	0	0	1	1	1	0	0	4
Hymeniacion 1066	1	1	1	0	0	0	0	0	1	4
Iotrochota 377	0	0	1	1	1	0	1	0	0	4

SpeciesName	CEB	NEP	NEB	E.NP	W.NP	NWB	NWP	CWB	CWP	T o t a l bioregions
Iotrochota coccinea (Carter, 1886)	1	1	1	0	0	1	0	0	0	4
Ircinia 1228	0	0	1	1	1	0	1	0	0	4
Ircinia 1944	1	1	1	1	0	0	0	0	0	4
Liosina paradoxa Theile, 1899	1	1	1	0	0	1	0	0	0	4
Mycale (Mycale) 80	1	1	0	0	1	0	1	0	0	4
Mycale (Mycale) pectinicola Hentschel, 1911	0	0	0	1	0	1	1	0	1	4
Oceanapia 1220	0	1	1	1	1	0	0	0	0	4
Phakellia 244	0	0	0	1	1	1	1	0	0	4
Phakellia stipitata (Carter, 1881)	1	1	1	1	0	0	0	0	0	4
Phoriospongia 293	0	1	0	1	1	0	1	0	0	4
Pseudoceratina 1279	1	1	1	1	0	0	0	0	0	4
Spirastrella 150	0	0	0	1	1	0	1	0	1	4
Spongia 1983	1	1	1	0	1	0	0	0	0	4
Spongia hispida Lamarck, 1813	1	1	1	0	0	0	1	0	0	4
Stelletta splendens (de Laubenfels, 1954)	1	1	1	0	0	0	1	0	0	4
Stylissa carteri (Dendy, 1889)	1	1	1	0	0	0	1	0	0	4
Tethya coccinea Bergquist & Kelly-Borges, 1991	0	0	1	1	0	0	1	0	1	4
Thrinacophora cervicornis Ridley & Dendy, 1887	0	0	0	1	1	1	1	0	0	4
Trachycladus laevispirulifer Carter, 1879	1	0	0	0	0	0	1	1	1	4
Xestospongia 158	0	0	1	1	1	0	1	0	0	4

APPENDIX 5. Metadata for the sponge dataset to accompany NOO, GA and OZCAM databases



Sponge Specimen Point Database

Data Type

Biolink Relational Database

Marine Planning Region

Eastern-central Marine Region (ECMR)
North-east Marine Region (NEMR)
North-west Marine Region (NWMR)
Northern Marine Region (NMR)
South-east Marine Region (SEMR)
South-west Marine Region (SWMR)
Western-central Marine Region (WCMR)

Custodian

Queensland Museum

Jurisdiction

Australia

Originator Organisations (sources of the base data)

Queensland Museum

Contact

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Qld, 4101, Australia
www.Qmuseum.qld.gov.au

now housed at the Queensland Museum Brisbane campus; the Northern Territory Museum sponge dataset (1982-1991), with some additional records of selected (surrogate) species collected since 1991, and some Western Australian Museum records of selected species. Majority of records from tropical Australia but with additional material from the Indo-west Pacific islands and Antarctica.

Attributes

Taxonomic names, authorities, unique specimen and registration numbers, collection date, collector, collection method, locality, latitude, longitude, position source, position error, depth minimum, depth maximum, depth source, depth error, habitat, storage site, storage condition, identified by, date of identification, identification accuracy and collection notes.

Limitations

Variable taxonomic rigor applied across the collections (different identifiers), method of fixing locality records (GPS, gazetteer etc.) and depth recording (sounder, dive computer etc.), with coding applied for these variables within a defined confidence interval.

Documentation Links

www.Qmuseum.qld.gov.au
<http://www.qmuseum.qld.gov.au/organisation/sections/sessilemarineinvertebrates/spong.pdf>

Data Links

<http://www.qmuseum.qld.gov.au/organisation/sections/sessilemarineinvertebrates/spong.pdf>

<http://www.marine.csiro.au/caab/>

<http://www.ozcam.gov.au/>

Abstract

This is a dataset of sponge distributions in tropical and subtropical Australia collected by the Queensland Museum (1991- present); the US National Cancer Institute shallow water collection contract (sponges) undertaken by James Cook University and the Australian Institute of Marine Science (1988-1991)

Location Keywords

Australia

**ANZLIC Geographic Extent Names
(Category, [Jurisdiction], Name)**

Australia, [Australia], Australia

Geographic Extent

	7.24 S	
97.29 E		156.5 E
	41.14 S	

**Subject Categories and
Search Word(s)**

General Keywords

Porifera, Sponges, Biodiversity

ANZLIC Search Words

Beginning date: 1 Jan 1982 **Ending date:** 22 July 2004 **Progress:** Complete **Maintenance and Update Frequency:** Not specified **Stored Data Format(s)**

Biolink Relational Database

Stored Data Volume

220 MB

Available Format Type(s)

Biolink Export: ASCII text, RTF, Microsoft Excel, Microsoft Access, Microsoft Word, XML, Bitmap Distribution maps

Access constraint

Not all attributes available to the public

Lineage

The Sponge Dataset was created from conversion of R:Base databases from Queensland Museum and Northern Territory Museum Data. The specimens were reclassified

under a revised classification published in Systema Porifera (2002). Data confidence levels were determined for location, depth and identifications. The creation of GIS distribution maps and Predictive distribution maps were then carried out on selected key taxa.

**Numeric spatial scale denominator:
Projection Details**

Positional accuracy

The majority of locations and depths are recorded in precise latitudes and longitudes (decimal degrees), and metres respectively. The accuracies of the locations are split into 5 groups

- (1) Excellent (GPS to 2 to 3 decimals and depth from dive computer)
- (2) Good (GPS to 1 decimal place and depth from dive computer or depth sounder)
- (3) Satisfactory (Locality determined from map, depth from dive computer or sounder)
- (4) Poor (Locality and depth determined from anecdotal evidence from collector or gazetter)
- (5) Doubtful (anecdotal evidence questionable, or antiquated record from museum register)

Those locations without precise latitudes and longitudes are given a rating (0) Unknown origin, as these collections locations were either not recorded or recorded as simply e.g. "Queensland".

Attribute accuracy

Variable

Logical consistency report

Completeness

Complete

Metadata Access

Public

Metadata Entry Created

22 Jul 2004 by Merrick Ekins

Metadata Last Updated