



*Supplement of*

## **The Southern Ocean Radiolarian (SO-RAD) dataset: a new compilation of modern radiolarian census data**

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## Section 1: Key to taxonomic harmonisation.

This table provides an explanation of previously published radiolarian names and the corresponding names used in the SO-RAD dataset.

Previously published name	Publication	SO-RAD name	Explanation
<i>Acrobotrys cribosa</i>	Cortese & Prebble, 2015	<i>Botryopyle cribrosa</i>	Accepted name (WoRMS, 2021)
<i>Acrosphaera spinosa</i> gr.	Cortese & Prebble, 2015	<i>Acrosphaera spinosa</i>	Group to species
<i>Actinomma leptoderma</i>	Cortese & Abelmann, 2002	<i>Actinomma leptodermum</i> s.l.	Species to group
<i>Actinomma leptodermum</i> gr.	Cortese & Prebble, 2015	<i>Actinomma leptodermum</i> s.l.	Renamed
<i>Actinosphaera capillacea</i>	Cortese & Prebble, 2015	<i>Actinosphaera</i> spp.	Species to group
<i>Androcyclas gamphonycha</i>	Cortese & Prebble, 2015	<i>Androcyclas</i> spp.	Species to group
<i>Antarctissa cylindrica</i>	Cortese & Prebble, 2015	<i>Antarctissa</i> spp.	Extinct
<i>Artostrobos joergenseni</i> gr.	Cortese & Prebble, 2015	<i>Artostrobos joergenseni</i>	Group to species
<i>Botryocampe conythorax</i>	Cortese & Prebble, 2015	<i>Saccospyris conithorax</i>	Valid name (Lazarus et al., 2015)
<i>Botryocampe cf inflata</i>	Abelmann et al., 1999	<i>Botryocampe inflata</i>	Accepted name (WoRMS, 2021)
<i>Carpocanarium</i> spp.	Cortese & Prebble, 2015	<i>Carpocanarium papillosum</i>	Group to species
<i>Cenosphaera</i> sp. aff. <i>C. perforata</i>	Cortese & Prebble, 2015	<i>Cenosphaera perforata</i>	Group to species
<i>Ceratocyrtis histricosus</i>	Cortese & Prebble, 2015	<i>Ceratocyrtis histricosa</i>	Accepted name (WoRMS, 2021)
<i>Chromyechinus antarctica</i>	Cortese & Prebble, 2015	<i>Sphaeropyle antarctica</i>	Accepted name (WoRMS, 2021)
<i>Cladococcus cervicornis</i>	Cortese & Prebble, 2015	<i>Cladococcus abietinus</i>	Taxonomic concept updated
<i>Collosphaera invaginata</i>	Cortese & Prebble, 2015	<i>Buccinosphaera invaginata</i>	Accepted name (WoRMS, 2021)
<i>Collosphaera</i> spp.	Abelmann et al., 1999, Cortese & Abelmann, 2002	Collosphaerid	Renamed
<i>Corocalyptra columba</i>	Cortese & Abelmann, 2002	<i>Stichopilidium kruegeri</i>	Taxonomic concept updated
<i>Corocalyptra kruegeri</i>	Cortese & Prebble, 2015	<i>Stichopilidium kruegeri</i>	Accepted name (WoRMS, 2021)
<i>Corythomelissa horrida</i>	Cortese & Prebble, 2015	<i>Pseudodictyophimus horrida</i>	Taxonomic concept updated
<i>Cyrtolagena cuspidata</i>	Cortese & Prebble, 2015	<i>Lithostrobos cuspidatus</i>	Taxonomic concept updated
<i>Dictyophimus crisisae</i>	Cortese & Prebble, 2015	<i>Dictyophimus crisisae/hirundo</i>	Species to group
<i>Dictyophimus hirundo</i>	Cortese & Prebble, 2015	<i>Dictyophimus crisisae/hirundo</i>	Species to group
<i>Dictyophimus platycephalus</i>	Cortese & Prebble, 2015	<i>Pseudodictyophimus platycephalus</i>	Valid name (Lazarus et al., 2015)
<i>Didymocyrtis penultima</i>	Cortese & Prebble, 2015	Spumellaria indet.	Reworked species
<i>Disolenia zanguebarica</i>	Cortese & Prebble, 2015	<i>Solenosphaera zanguebarica</i>	Accepted name (WoRMS, 2021)
<i>Dorydruppa bensoni</i>	Abelmann et al., 1999	<i>Drupptractus variabilis</i>	Taxonomic concept updated
<i>Drupptractus ostracion</i>	Cortese & Prebble, 2015	<i>Stylatractus ostracion</i>	Accepted name (WoRMS, 2021)
<i>Eucecryphalus gegenbauri</i>	Abelmann et al., 1999, Cortese & Abelmann, 2002	<i>Eucecryphalus craspedota</i>	Taxonomic concept updated
<i>Eucyrtidium acuminatum acuminatum</i>	Cortese & Prebble, 2015	<i>Eucyrtidium acuminatum</i>	Accepted name (WoRMS, 2021)
<i>Eucyrtidium acuminatum octocolum</i>	Cortese & Prebble, 2015	<i>Eucyrtidium octocolum</i>	Synonym (REF) Caulet 1992?

<i>Eucyrtidium minithorax</i>	Cortese & Prebble, 2015	<i>Pterocorys minythorax</i>	Synonym (REF) Caulet 1992?
<i>Heliosoma echinaster</i>	Cortese & Prebble, 2015	<i>Hexalonche amphisiphon</i>	Accepted name (WoRMS, 2021)
<i>Hexacontium entacanthum</i>	Cortese & Prebble, 2015	<i>Hexacontium entacanthum</i>	Accepted name (WoRMS, 2021)
<i>Hexapyle dodecantha</i> gr.	Cortese & Prebble, 2015,	<i>Hexapyle dodecantha</i>	Group to species
<i>Hymeniastrum</i> spp.	Cortese & Abelmann, 2002	<i>Dictyocoryne profunda</i>	Taxonomic concept updated
<i>Lamprocyclus maritalis maritalis</i>	Cortese & Prebble, 2015	<i>Lamprocyclus maritalis</i> s.l.	Species to group
<i>Lamprocyclus maritalis polypora</i>	Cortese & Prebble, 2015	<i>Lamprocyclus maritalis</i> s.l.	Species to group
<i>Lamprocyrtis hannai</i>	Cortese & Prebble, 2015	<i>Lamprocyclus hannai</i>	Accepted name (WoRMS, 2021)
Larcoids spp.	Cortese & Prebble, 2015	Litheliidae/Pyloniidae	More technical name
<i>Larcopyle butschlii</i>	Cortese & Prebble, 2015	<i>Larcopyle buetschlii</i>	Accepted name (WoRMS, 2021)
<i>L. minor</i> ( <i>Amphitholus acanthometra</i> )	Cortese & Prebble, 2015	Litheliidae/Pyloniidae	Species to group
<i>Larcopyle labyrinthusa</i>	Cortese & Prebble, 2015	Litheliidae/Pyloniidae	Species to group
<i>Liriospyris reticulata</i>	Cortese & Prebble, 2015	<i>Amphispyris reticulata</i>	Accepted name (WoRMS, 2021)
<i>Lithelius minor</i> gr.	Cortese & Prebble, 2015	<i>Lithelius minor</i>	Group to species
<i>Lithomelissa boreale</i>	Cortese & Abelmann, 2002	<i>Lithomelissa setosa</i>	Taxonomic concept updated
<i>Lophospyris pentagona pentagona</i>	Cortese & Prebble, 2015	<i>Lophospyris pentagona</i>	Subspecies to species
<i>Mitrocalpis araneafera</i>	Cortese & Prebble, 2015	<i>Mitrocalpis araneafera</i>	Accepted name (WoRMS, 2021)
<i>Phormacantha</i> spp.	Cortese & Prebble, 2015	<i>Phormacantha hystrix</i>	Group to species
<i>Phormospyris stabilis antarctica</i>	Abelmann et al., 1999, Cortese & Abelmann, 2002	<i>Phormospyris stabilis</i>	Subspecies to species
<i>Phormospyris stabilis stabilis</i>	Cortese & Prebble, 2015	<i>Phormospyris stabilis</i>	Subspecies to species
<i>Phormospyris stabilis scaphipes</i>	Cortese & Prebble, 2015	<i>Phormospyris stabilis</i>	Subspecies to species
<i>Plectacantha</i> sp.	Cortese & Prebble, 2015	<i>Plectacantha oikiskos</i>	Group to species
<i>Polysolenia lappacea</i>	Abelmann et al., 1999	<i>Acrosphaera lappacea</i>	Accepted name (WoRMS, 2021)
<i>Porodiscus</i> sp. A	Abelmann et al., 1999, Cortese & Prebble, 2015	<i>Porodiscus</i> spp.	Species to group
<i>Pterocanium praetextum</i>	Abelmann et al., 1999	<i>Pterocanium praetextum praetextum</i>	Species to subspecies
<i>Pterocanium</i> spp.	Abelmann et al., 1999	<i>Pterocanium charybdeum</i>	Group to species
<i>Pterocanium trilobum</i>	Cortese & Prebble, 2015	<i>Pterocanium charybdeum</i>	Accepted name (WoRMS, 2021)
<i>Pterocanium trilobum</i> group	Abelmann et al., 1999	<i>Pterocanium charybdeum</i>	Group to species
<i>Pterocorys clausus</i>	Cortese & Prebble, 2015	<i>Pterocorys clausus/zanclaus</i>	Species to group
<i>Pterocorys zanclaus</i>	Cortese & Prebble, 2015	<i>Pterocorys clausus/zanclaus</i>	Species to group
<i>Saccospyris inflata</i>	Cortese & Abelmann, 2002	<i>Botryocampe inflata</i>	Taxonomic concept updated
<i>Sethoconus dogieli</i>	Cortese & Prebble, 2015	<i>Gondwanaria dogieli</i>	Accepted name (WoRMS, 2021)
<i>Sethophormis rotula</i>	Cortese & Prebble, 2015	<i>Enneaphormis rotula</i>	Accepted name (WoRMS, 2021)
<i>Siphocampe arachnea</i> gr.	Cortese & Prebble, 2015	<i>Siphocampe arachnea</i>	Group to species
<i>Siphocampe lineata</i> gr.	Cortese & Prebble, 2015	<i>Siphocampe lineata</i>	Group to species
<i>Siphocampe nodosaria</i>	Cortese & Prebble, 2015	<i>Siphocampe lineata</i>	Accepted name (WoRMS, 2021)

<i>Siphonosphaera polysiphonia</i>	Cortese & Prebble, 2015	Colloosphaerid	Species to group
<i>Spirocyrtis scalaris</i>	Cortese & Prebble, 2015	<i>Botryostrobos auritus/australis</i>	Taxonomic concept updated
<i>Spirocyrtis subscalaris</i>	Cortese & Prebble, 2015	<i>Botryostrobos auritus/australis</i>	Taxonomic concept updated
<i>Spongaster tetras tetras</i>	Cortese & Prebble, 2015	<i>Spongaster tetras</i>	Accepted name (WoRMS, 2021)
<i>Spongocore puella</i>	Cortese & Abelmann, 2002, Cortese & Prebble, 2015	<i>Spongocore cylindricus</i>	Accepted name (WoRMS, 2021)
<i>Spongotrochus</i> spp.	Cortese & Prebble, 2015	<i>Spongotrochus/Spongopyl e</i> spp.	Renamed
<i>Spongurus?</i> sp.	Cortese & Prebble, 2015	<i>Spongotrochus/Spongopyl e</i> spp.	Renamed
<i>Stichocorys peregrina</i>	Cortese & Prebble, 2015	Nassellaria indet.	Reworked species
<i>Stylatractus</i> spp. group	Cortese & Prebble, 2015	<i>Stylatractus</i> spp.	Renamed
<i>Stylochlamidium asteriscus</i>	Cortese & Prebble, 2015	<i>Stylochlamidium asteriscus</i>	Accepted name (WoRMS, 2021)
<i>Stylochlamidium venustum</i>	Cortese & Prebble, 2015	<i>Stylochlamidium venustum</i>	Accepted name (WoRMS, 2021)
<i>Styptosphaera? spumacea</i>	Cortese & Prebble, 2015	<i>Styptosphaera spumacea</i>	Accepted name (WoRMS, 2021)
<i>Tetrapyle octacantha</i>	Abelmann et al., 1999	<i>Tetrapyle octacantha/stenozona</i>	Species to group
<i>Tetrapyle</i> sp. 1	Abelmann et al., 1999	<i>Tetrapyle octacantha/stenozona</i>	Species to group
<i>T. octacantha/O. stenozona</i> gr.	Cortese & Prebble, 2015	<i>Tetrapyle octacantha/stenozona</i>	Renamed
<i>Thecosphaera inermis</i>	Cortese & Prebble, 2015	<i>Actinomma sol</i>	Taxonomic concept updated
<i>Theocorythium trachelium diana</i>	Cortese & Prebble, 2015	<i>Theocorythium trachelium</i>	Subspecies to species
<i>Theocorythium trachelium trachelium</i>	Cortese & Prebble, 2015	<i>Theocorythium trachelium</i>	Subspecies to species
<i>Theopilium tricostatum</i>	Cortese & Prebble, 2015	<i>Eucecryphalus craspedota</i>	Taxonomic concept updated
<i>Thessarastrum straussii</i>	Cortese & Prebble, 2015	<i>Amphirhopalum straussii</i>	Valid name (Lazarus et al., 2015)
<i>Triceraspyris damaecornis</i>	Cortese & Prebble, 2015	<i>Corythospyris stapadius</i>	Taxonomic concept updated
<i>Trisulcus nanus</i>	Cortese & Prebble, 2015	Nassellaria indet.	Reworked species
<i>Trissocyclids</i> spp.	Cortese & Prebble, 2015	<i>Trissocyclidae</i>	More technical name

## Section 2: List of radiolarian taxa that are included in the SO-RAD dataset.

<b>Taxon name</b>	<b>Reference</b>
<i>Acanthodesmia micropora</i> (Popofsky)	Petrushevskaya, 1971
<i>Acanthodesmia vinculata</i> (Müller)	Petrushevskaya, 1971; Matsuzaki et al., 2015
<i>Acanthosphaera</i> Ehrenberg spp.	Boltovskoy, 1998; Boltovskoy and Riedel, 1980
<i>Acrobotrys teralans</i> Renz	Renz, 1976
<i>Acrosphaera arktios</i> (Nigrini)	Nigrini, 1970
<i>Acrosphaera cyrtodon</i> (Haeckel)	Strelkov and Reshetnyak, 1971
<i>Acrosphaera inflata</i> Haeckel	Haeckel, 1887
<i>Acrosphaera lappacea</i> (Haeckel)	Johnson and Nigrini, 1980
<i>Acrosphaera mercurius</i> Lazarus	Lazarus, 1992
<i>Acrosphaera murrayana</i> (Haeckel)	Hilmers, 1906
<i>Acrosphaera spinosa</i> Caulet	Caulet, 1986
<i>Actinomma antarcticum</i> (Haeckel)	Nigrini and Moore, 1979; Cortese & Abelmann, 2002
<i>Actinomma arcadophorum</i> Haeckel	Haeckel, 1887
<i>Actinomma boreale</i> Cleve	Cortese and Bjørklund, 1998; Cortese & Abelmann, 2002
<i>Actinomma delicatulum</i> (Dogiel and Reschetnjak)	Petrushevskaya, 1967; Panitz et al., 2015
<i>Actinomma</i> Haeckel	Haeckel, 1860
<i>Actinomma hastatum</i> (Haeckel)	Rogers and De Deckker, 2007
<i>Actinomma leptodermum</i> (Jørgensen) gr.	Boltovskoy, 1998; Cortese and Bjørklund, 1998; Matsuzaki et al., 2015
<i>Actinomma medianum</i> Nigrini	Nigrini and Moore, 1979; Panitz et al., 2015
<i>Actinomma popofski</i> (Petrushevskaya)	Petrushevskaya, 1967
<i>Actinomma sol</i> Cleve	Boltovskoy, 1998
<i>Actinomma trinacria</i> (Haeckel)	Cortese and Bjørklund, 1998
<i>Actinosphaera</i> Hollande and Enjumet	Hollande and Enjumet, 1960
<i>Amphiplecta acrostoma</i> Haeckel	Haeckel, 1887
<i>Amphirhopalum straussii</i> (Haeckel)	Haeckel, 1887; Takahashi, 1991
<i>Amphirhopalum ypsilon</i> Haeckel	Haeckel, 1887
<i>Amphispyris reticulata</i> (Ehrenberg)	Ehrenberg, 1872
<i>Androsopyris fenestrata</i> (Haeckel)	Goll, 1980
<i>Anomalacantha dentata</i> Mast	Mast, 1910
<i>Antarctissa denticulata</i> (Ehrenberg)	Petrushevskaya, 1967; Panitz et al., 2015
<i>Antarctissa</i> Petrushevskaya spp.	Nigrini and Moore, 1979; Petrushevskaya, 1967
<i>Antarctissa strelkovi</i> Petrushevskaya	Petrushevskaya, 1967 Panitz et al., 2015
<i>Anthocyrtidium ophirensis</i> (Ehrenberg)	Petrushevskaya, 1968; Matsuzaki et al., 2015
<i>Anthocyrtidium zanguebaricum</i> (Ehrenberg)	Haeckel, 1887
<i>Arachnocorys umbellifera</i> Haeckel	Haeckel, 1860
<i>Archipilium orthopterum</i> Haeckel	Haeckel, 1887
<i>Artobotrys borealis</i> (Cleve)	Petrushevskaya, 1971
<i>Artostrobos annulatus</i> (Bailey)	Boltovskoy, 1998; Petrushevskaya, 1967, 1971; Cortese & Abelmann, 2002
<i>Artostrobos joergenseni</i> Petrushevskaya gr.	Petrushevskaya, 1967
<i>Axoprunum stauraxonium</i> Haeckel	Nigrini and Moore, 1979; Panitz et al., 2015
<i>Botryocampe inflata</i> (Bailey)	Matsuzaki et al., 2015; Itaki, 2009; Haeckel, 1887; Cortese & Abelmann, 2002 (as <i>Saccospyris inflata</i> )
<i>Botryocephalina armata</i> Petrushevskaya	Petrushevskaya, 1965
<i>Botryocyrtis scutum</i> (Harting)	Boltovskoy, 1998; Nigrini and Moore, 1979
<i>Botryopyle cribrosa</i> (Ehrenberg)	Haeckel, 1887

<i>Botryostrobus aquilonaris</i> (Bailey)	Boltovskoy, 1998; Nigrini and Moore, 1979; Petrushevskaya, 1967; Matsuzaki et al., 2015
<i>Botryostrobus auritus/australis</i> (Ehrenberg)	Boltovskoy, 1998; Nigrini and Moore, 1979; Petrushevskaya, 1967
<i>Botryostrobus</i> Haeckel	Haeckel, 1887
<i>Buccinosphaera invaginata</i> Haeckel	Haeckel, 1887
<i>Callimitra</i> Haeckel	Haeckel 1881
<i>Carpocanarium papillosum</i> (Ehrenberg)	(Ehrenberg), 1872
<i>Carpocanistrum</i> Haeckel spp.	Boltovskoy, 1998; Nigrini and Moore, 1979; Cortese & Abelmann, 2002
<i>Cenosphaera cristata</i> Haeckel	Haeckel, 1887
<i>Cenosphaera</i> Ehrenberg spp.	Boltovskoy, 1998; Nigrini and Moore, 1979
<i>Cenosphaera</i> sp. aff. <i>C. perforata</i> Haeckel	Benson, 1983
<i>Ceratocyrtis galeus</i> (Cleve)	Bjoerklund, 1976
<i>Ceratocyrtis histricosa</i> (Joergensen)	Petrushevskaya, 1971; Panitz et al., 2015 (as <i>Ceratocyrtis histricosus</i> )
<i>Chromyechinus antarctica</i> (Dreyer)	Itaki, 2009; Petrushevskaya, 1967
<i>Circodiscus microporus</i> (Stoehr)	Petrushevskaya and Kozlova, 1972; Matsuzaki et al., 2015
<i>Cladococcus abietinus</i> Haeckel	Haeckel, 1887; Matsuzaki et al., 2015
<i>Cladoscenum ancoratum</i> Haeckel	Haeckel, 1887
<i>Cladoscenum limbatum</i> Joergensen	Joergensen, 1905
<i>Cladoscenum</i> sp. 1	No reference
<i>Cladoscenum tricolpium</i> (Haeckel)	Joergensen, 1900
<i>Clathrocanium coarctatum</i> Ehrenberg	Ehrenberg, 1872
<i>Collosphaera confossa</i> Takahashi	Takahashi, 1991
<i>Collosphaera huxleyi</i> Mueller	Mueller, 1855
<i>Collosphaera macropora</i> Popofsky	Popofsky, 1917
<i>Collosphaera tuberosa</i> Haeckel	Haeckel, 1887
Collosphaeridae	Several species of the subfamily Collosphaeridae Mueller; Boltovskoy, 1998; Cortese & Abelmann, 2002
<i>Cornutella profunda</i> Ehrenberg	Boltovskoy, 1998; Panitz et al., 2015
<i>Corocalyptra craspedota</i> (Jørgensen)/cervus (Ehrenberg)	Bjørklund, 1976; Boltovskoy, 1998; Petrushevskaya, 1971
<i>Corythospyris stapedius</i> (Haeckel)	Goll, 1978
<i>Cubotholus</i> Haeckel	Haeckel 1887
<i>Cycladophora bicornis</i> (Popofsky)	Nigrini and Moore, 1979; Matsuzaki et al., 2015
<i>Cycladophora davisiana cornutoides</i> (Petrushevskaya)	Petrushevskaya, 1967; Panitz et al., 2015
<i>Cycladophora davisiana davisiana</i> (Ehrenberg)	Boltovskoy, 1998; Nigrini and Moore, 1979; Petrushevskaya, 1967; Panitz et al., 2015
<i>Cypassis</i> Haeckel	Haeckel 1887
<i>Cyrtolagena laguncula</i> (Haeckel)	Boltovskoy, 1998; Petrushevskaya, 1971
<i>Dendrospyris</i> Haeckel	Haeckel 1881
<i>Dictyocoryne profunda</i> Ehrenberg	Boltovskoy, 1998; Nigrini and Moore, 1979; Matsuzaki et al., 2015
<i>Dictyocoryne truncatum</i> (Ehrenberg)	Boltovskoy, 1998; Nigrini and Moore, 1979
<i>Dictyophimus archipilium</i> Petrushevskaya	Petrushevskaya , 1975
<i>Dictyophimus crisiæ</i> Ehrenberg/hirundo (Haeckel)	Boltovskoy, 1998; Nigrini and Moore, 1979; Panitz et al., 2015
<i>Dictyophimus</i> Ehrenberg	Ehrenberg 1847
<i>Dictyophimus infabricatus</i> Nigrini	Nigrini, 1968
<i>Dictyophimus killmari</i> (Renz)	(Renz), 1974
<i>Dictyophimus macropterus</i> (Ehrenberg)	Takahashi, 1991
<i>Didymocyrtis tetralthalamus</i> (Haeckel)	Boltovskoy, 1998; Nigrini and Moore, 1979; Matsuzaki et al., 2015
<i>Dipylissa bensoni</i> Dumitrica	Dumitrica, 1988

<i>Druppatractus irregularis</i> Popofsky	Popofsky, 1912
<i>Druppatractus variabilis</i> Dumitrica	Dumitrica, 1973; Takahashi, 1991
<i>Enneaphormis rotula</i> Haeckel	Haeckel, 1887
<i>Eucecryphalus craspedota</i> (Joergensen) Petrushevskaya & Bjoerklund	Petrushevskaya & Bjoerklund, 1974
<i>Euchitonia elegans</i> (Ehrenberg)/ <i>furcata</i> Ehrenberg gr.	Boltovskoy, 1998
<i>Eucyrtidium acuminatum</i> (Ehrenberg)	Ehrenberg, 1847; Matsuzaki et al., 2015
<i>Eucyrtidium annulatum</i> (Popofsky)	(Popofsky), 1913
<i>Eucyrtidium anomalum</i> (Haeckel)	(Haeckel) Haeckel, 1862
<i>Eucyrtidium calvertense</i> (Martin)	Martin, 1904
<i>Eucyrtidium cienkowskii</i> Haeckel	Haeckel, 1887
<i>Eucyrtidium</i> Ehrenberg emend. Nigrini spp.	Boltovskoy, 1998; Nigrini and Moore, 1979; Cortese & Abelman, 2002
<i>Eucyrtidium hexagonatum</i> Haeckel	Haeckel, 1887
<i>Eucyrtidium hexastichum</i> Haeckel	Haeckel, 1887; Panitz et al., 2015
<i>Eucyrtidium octocolum</i> (Haeckel)	Petrushevskaya, 1971
<i>Eucyrtidium teuscheri</i> Haeckel	Haeckel, 1887; Panitz et al., 2015
<i>Euphysetta elegans</i> Borgert	Borgert, 1902
<i>Euphysetta nathorstii</i> Cleve	Cleve, 1899
<i>Euphysetta staurocodon</i> Haeckel	Takahashi, 1991
<i>Gondwanaria campanulaeformis</i> (Campbell and Clark)	(Campbell and Clark), 1945
<i>Gondwanaria dogieli</i> Petrushevskaya	Petrushevskaya, 1979; Matsuzaki et al., 2015
<i>Gondwanaria</i> Petrushevskaya and Kozlova	Petrushevskaya and Kozlova 1975
<i>Gonosphaera primordialis</i> Jørgensen 1905	Jørgensen 1905
<i>Heliodiscus asteriscus</i> Haeckel	Boltovskoy, 1998; Nigrini and Moore, 1979; Cortese & Abelman, 2002
<i>Hexacontium arachnoidale</i> Hollande	Hollande, 1960
<i>Hexacontium enthacanthum</i> Joergensen	Joergensen, 1900
<i>Hexacontium giganteum</i> Cortese and Bjorklund	Cortese and Bjorklund, 1998
<i>Hexacontium laevigatum</i> Haeckel	Haeckel, 1887
<i>Hexacontium melpomene</i> (Haeckel)	Van de Paverd, 1995
<i>Hexacontium pachydermum</i> Joergensen	Joergensen, 1900; Matsuzaki et al., 2015
<i>Hexalonche amphisiphon</i> Haeckel	Haeckel, 1887
<i>Hexapyle dodecantha</i> Haeckel gr.	Boltovskoy, 1998; Nigrini and Moore, 1979
<i>Hexastylus</i> spp. Haeckel gr.	Rogers and De Deckker, 2007
<i>Hymeniastrum euclidis</i> Haeckel	Nigrini and Moore, 1979
<i>Lamprocyclus maritalis</i> Haeckel s.l.	Boltovskoy, 1998; Nigrini and Moore, 1979; Cortese & Abelman, 2002
<i>Lamprocyrtis hannai</i> Campbell and Clark	Boltovskoy, 1998
<i>Lamprocyrtis nigriniae</i> (Caulet)	Kling, 1973
<i>Lampromitra coronata</i> Haeckel	Haeckel, 1887
<i>Lampromitra quadricuspis</i> Haeckel	Haeckel, 1887
<i>Lampromitra schultzei</i> (Haeckel)	Takahashi, 1991
<i>Larcopyle buetschlii</i> Dreyer	Boltovskoy, 1998; Nigrini and Moore, 1979; Cortese & Abelman, 2002
<i>Larcopyle polyacantha</i> (Campbell and Clark)	Lazarus et al., 2005
<i>Larcopyle weddellium</i> Lazarus et al.	Lazarus et al., 2005; Matsuzaki et al., 2015
<i>Larospira bulbosa</i> Goll and Bjoerklund	Goll and Bjoerklund, 1989
<i>Larospira quadrangula</i> Haeckel	Haeckel, 1887

<i>Larnacilla typus</i> Haeckel	Haeckel, 1887; Dumitrica, 1989 (as <i>Larnacopylomma</i> )
<i>Lipmanella bombus</i> Haeckel	Haeckel, 1887
<i>Lipmanella dictyoceras</i> (Haeckel)	Kling, 1973
<i>Lirella melo</i> (Cleve)	Takahashi, 1991
<i>Litharachnium tentorium</i> Haeckel	Haeckel, 1860
Litheliidae/Pyloniidae Haeckel	Haeckel, 1887
<i>Lithelius minor</i> Jørgensen gr.	Boltovskoy, 1998; Nigrini and Moore, 1979; Cortese & Abelman, 2002; Panitz et al., 2015
<i>Lithelius nautiloides</i> Popofsky	Boltovskoy, 1998; Nigrini and Moore, 1979; Petrushevskaya, 1967; Matsuzaki et al., 2015
<i>Lithelius</i> sp. 1	No reference
<i>Lithelius spiralis</i> Haeckel	Haeckel, 1860; Matsuzaki et al., 2015
<i>Lithocampe ? furcaspiculata</i> (Harting)	Boltovskoy, 1998; Petrushevskaya, 1967; Panitz et al., 2015
<i>Lithocampe ? platycephala</i> (Ehrenberg)	Cortese et al., 2003; Petrushevskaya, 1967
<i>Lithomelissa</i> (?) sp. A Petrushevskaya	Petrushevskaya, 1967; Cortese & Abelman, 2002
<i>Lithomelissa</i> Ehrenberg	Ehrenberg, 1847
<i>Lithomelissa hystrix</i> Joergensen	Joergensen, 1900; Cortese & Abelman, 2002
<i>Lithomelissa laticeps</i> Joergensen	Joergensen, 1905
<i>Lithomelissa setosa</i> Jørgensen	Cortese et al., 2003; Takahashi, 1991; Cortese & Abelman, 2002 (as <i>Lithomelissa boreale</i> )
<i>Lithomelissa</i> sp. B	No reference
<i>Lithomelissa thoracites</i> Haeckel	Petrushevskaya, 1971; Cortese & Abelman, 2002
<i>Lithostrobus cuspidatus</i> Haeckel	Haeckel 1887
<i>Lonchosphaera spicata</i> Popofsky	Popofsky, 1908
<i>Lophophaena buetschlii</i> (Haeckel)	Petrushevskaya, 1971
<i>Lophophaena</i> Ehrenberg	Ehrenberg 1847
<i>Lophophaena hispida</i> (Ehrenberg)	Petrushevskaya, 1971
<i>Lophospyris pentagona</i> (Ehrenberg)	(Ehrenberg), 1872; Petrushevskaya, 1971
<i>Mitrocalpis araneafera</i> Popofsky	Popofsky, 1908; Panitz et al., 2015
<i>Peridium longispinum</i> Jørgensen	Bjørklund, 1976; Bjørklund et al., 1998
<i>Peripyramis circumtexta</i> Haeckel	Haeckel, 1887
<i>Peromelissa phalacra</i> Haeckel	Boltovskoy, 1998; Petrushevskaya, 1971
<i>Phormacantha hystrix</i> (Joergensen)	Joergensen, 1905
<i>Phormospyris stabilis</i> Goll	Goll, 1976; Cortese & Abelman, 2002 (as <i>Phormospyris stabilis antarctica</i> )
<i>Phormostichoartus corbula</i> (Harting)	Nigrini, 1977
<i>Phorticium clevei</i> Haeckel	Boltovskoy, 1998; Petrushevskaya, 1967; Cortese & Abelman, 2002
<i>Plectacantha cremastoplegma</i> Nigrini	Nigrini, 1968
<i>Plectacantha oikiskos</i> Jørgensen	Jørgensen, 1905
<i>Plectopyramis dodecomma</i> Haeckel	Haeckel, 1887
<i>Porodiscus</i> Haeckel	Haeckel, 1881
<i>Protocystis balfouri</i> (Murray)	Borgert, 1911
<i>Protocystis harstoni</i> (Murray)	Murray, 1885; Schroeder, 1913
<i>Protocystis swirei</i> (Murray)	Haecker, 1908
<i>Pseudocubus obeliscus</i> Haeckel	Haeckel, 1887; Matsuzaki et al., 2015
<i>Pseudodictyophimus bicornis</i> (Ehrenberg)	Welling, 1997; Panitz et al., 2015
<i>Pseudodictyophimus gracilipes</i> (Bailey) s.l.	Boltovskoy, 1998 (as <i>Dictyophimus gracilipes</i> ) ; Matsuzaki et al., 2015
<i>Pseudodictyophimus gracilipes multispinus</i> Bernstein	Bernstein, 1934
<i>Pseudodictyophimus horrida</i> (Petrushevskaya)	Petrushevskaya, 1975
<i>Pseudodictyophimus platycephalus</i> (Haeckel)	Petrushevskaya, 1971; Panitz et al., 2015



<i>Pterocanium auritum</i> Nigrini & Caulet	Nigrini and Caulet, 1992
<i>Pterocanium charybdeum</i> (Mueller)	(Mueller), 1858
<i>Pterocanium korotnevi</i> (Dogel)	Dogel and Reshetnyak , 1952
<i>Pterocanium praetextum eucolpum</i> Haeckel	Haeckel, 1887
<i>Pterocanium praetextum praetextum</i> (Ehrenberg)	Boltovskoy, 1998; Nigrini and Moore, 1979; Petrushevskaya, 1971; Matsuzaki et al., 2015
<i>Pterocorys clausus</i> (Popofsky)/ <i>zancleus</i> (Mueller)	Boltovskoy, 1998; Nigrini and Moore, 1979; Cortese & Abelmann, 2002
<i>Pterocorys hertwigii</i> (Haeckel)	Petrushevskaya, 1971
<i>Pterocorys minythorax</i> (Nigrini)	Nigrini and Moore, 1979
<i>Pteroscenium pinnatum</i> Haeckel	Haeckel, 1887
<i>Pylospira octopyle</i> Haeckel	Haeckel, 1887
<i>Rhizoplegma boreale</i> Popofsky	Popofsky, 1908
<i>Saccospyris antarctica</i> Haecker	Boltovskoy, 1998; Petrushevskaya, 1967; Cortese & Abelmann, 2002
<i>Saccospyris conithorax</i> Petrushevskaya	Petrushevskaya, 1965
<i>Saccospyris</i> spp. Haecker	Haecker, 1907
<i>Saturnalis circularis</i> Haeckel	Haeckel, 1887
<i>Schizodiscus stylothrochoides</i> Dogiel	Petrushevskaya, 1967; Matsuzaki et al., 2015
<i>Sethoconus tabulatus</i> Haeckel	Haeckel, 1887; Cortese & Abelmann, 2002
<i>Siphocampe arachnea</i> (Ehrenberg) gr.	Nigrini, 1977; Panitz et al., 2015
<i>Siphocampe lineata</i> (Ehrenberg) gr.	Takahashi, 1991
<i>Siphonosphaera socialis</i> Haeckel	Haeckel, 1887
<i>Solenosphaera zanguebarica</i> Brandt	Brandt, 1905; Matsuzaki et al., 2015 (as <i>Disolenia zanguebarica</i> )
<i>Sphaeropyle robusta</i> Kling	Kling, 1973
<i>Sphaerozoum punctatum</i> Müller	Rogers and De Deckker, 2007
<i>Spongaster tetras</i> Ehrenberg	Boltovskoy, 1998; Nigrini and Moore, 1979
<i>Spongodiscus resurgens</i> Ehrenberg	Boltovskoy, 1998; Matsuzaki et al., 2015
<i>Spongopyle osculosa</i> Dreyer	Nigrini and Moore, 1979; Matsuzaki et al., 2015
<i>Spongotrochus glacialis</i> Popofsky	Boltovskoy, 1998; Nigrini and Moore, 1979; Petrushevskaya, 1967; Cortese & Abelmann, 2002
<i>Spongotrochus</i> Haeckel/ <i>Spongopyle</i> Dreyer	Haeckel, 1860; Dreyer, 1889
<i>Spongurus cylindricus</i> Haeckel	Haeckel, 1860; Cortese & Abelmann, 2002 (as <i>Spongocore puella</i> )
<i>Spongurus pylomaticus</i> (Riedel)	Lazarus et al., 2005; Cortese & Abelmann, 2002
<i>Spongurus</i> sp. cf. <i>S. elliptica</i> (Ehrenberg)	(Ehrenberg), 1872
<i>Stichocorys seriata</i> Joergensen	Joergensen, 1905
<i>Stichopilidium kruegeri</i> (Popofsky)	Nishimura & Yamauchi, 1984; Cortese & Abelmann, 2002 (as <i>Corocalyptra columba</i> )
<i>Stichopilium bicorne</i> Haeckel	Haeckel, 1887
<i>Stylatractus</i> Haeckel	Haeckel, 1887
<i>Stylatractus neptunus</i> Haeckel	Nigrini and Moore, 1979; Petrushevskaya, 1967; Panitz et al., 2015
<i>Stylatractus ostracion</i> (Haeckel)	Haeckel, 1887
<i>Stylatractus</i> sp. A	No reference
<i>Stylochlamydidium asteriscus</i> Haeckel	Boltovskoy, 1998; Nigrini and Moore, 1979; Cortese & Abelmann, 2002
<i>Stylochlamydidium</i> Haeckel	Haeckel 1881
<i>Stylochlamydidium venustum</i> (Bailey)	Boltovskoy, 1998; Nigrini and Moore, 1979
<i>Stylodictya aculeata</i> Jørgensen	Boltovskoy, 1998; Nigrini and Moore, 1979; Petrushevskaya, 1967; Panitz et al., 2015
<i>Stylodictya</i> Ehrenberg	Ehrenberg, 1847
<i>Stylodictya tenuispina</i> Jørgensen	Nigrini and Moore, 1979; Matsuzaki et al., 2015; Panitz et al., 2015
<i>Stylodictya validispina</i> Haeckel	Boltovskoy, 1998; Nigrini and Moore, 1979; Petrushevskaya, 1967; Panitz et al., 2015

<i>Stylosphaera</i> Ehrenberg	Ehrenberg, 1847
<i>Styptosphaera</i> ? <i>spumacea</i> Haeckel	Nigrini and Moore, 1979
<i>Tetraphormis dodecaster</i> (Haeckel)	Takahashi, 1991
<i>Tetrapyle octacantha</i> Mueller/ <i>Octopyle stenozone</i> Haeckel gr.	Boltovskoy, 1998; Nigrini and Moore, 1979; Cortese & Abelman, 2002 (as <i>Tetrapyle octacantha</i> )
<i>Theocorys veneris</i> Haeckel	Haeckel, 1887
<i>Theocorythium trachelium</i> (Ehrenberg) s.l.	Boltovskoy, 1998; Nigrini and Moore, 1979; Petrushevskaya, 1971; Cortese & Abelman, 2002
<i>Tholospyris gephyristes</i> Huelsemann	Bjørklund et al., 1998
<i>Triceraspyris antarctica</i> (Haecker)	Haecker, 1908
Trissocyclidae Haeckel, emend. Goll	Haeckel, 1881; Goll, 1968
<i>Trisulcus testudus</i> Petrushevskaya	Petrushevskaya, 1971; Cortese & Abelman, 2002
<i>Trisulcus triacanthus</i> Popofsky	Popofsky, 1913
<i>Zygocircus productus</i> (Hertwig)	Haeckel, 1887; Matsuzaki et al., 2015 (as <i>Zygocircus</i> cf. <i>piscicaudatus</i> )
Nassellaria Ehrenberg, indet.	Ehrenberg, 1875
Spumellaria Ehrenberg, indet.	Ehrenberg, 1875

Section 3: Recommended taxonomic groupings to simplify/harmonise the SO-RAD dataset. Adapted from Cortese & Prebble, 2015.

<b>Taxa</b>	<b>Group</b>	
<i>Actinomma delicatulum</i>	ACTINOMMA DELICATULUM/POPOFSKII	
<i>Actinomma popofskii</i>		
<i>Anthocyrtidium ophirense</i>	ANTHOCYRTIDIUM OPHIRENSE/ZANGUEBARICUM	
<i>Anthocyrtidium zanguebaricum</i>		
<i>Acrosphaera arktios</i>	COLLOSPHAERIDAE	
<i>Acrosphaera cyrtodon</i>		
<i>Acrosphaera inflata</i>		
<i>Acrosphaera lappacea</i>		
<i>Acrosphaera murrayana</i>		
<i>Acrosphaera spinosa</i>		
<i>Buccinosphaera invaginata</i>		
<i>Collosphaerid</i>		
<i>Collosphaera confossa</i>		
<i>Collosphaera huxleyi</i>		
<i>Collosphaera macropora</i>		
<i>Collosphaera tuberosa</i>		
<i>Solenosphaera zanguebarica</i>		
<i>Siphonosphaera socialis</i>		
<i>Drupptractus variabilis</i>		DRUPPATRACTUS VARIABILIS/OSTRACION
<i>Stylatractus ostracion</i>		
<i>Eucyrtidium spp.</i>	EUCYRTIDIUM SPP	
<i>Eucyrtidium acuminatum</i>		
<i>Eucyrtidium annulatum</i>		
<i>Eucyrtidium anomalum</i>		
<i>Eucyrtidium calvertense</i>		
<i>Eucyrtidium cienkowskii</i>		
<i>Eucyrtidium hexagonatum</i>		
<i>Eucyrtidium hexastichum</i>		
<i>Eucyrtidium octocolum</i>		
<i>Eucyrtidium teuscheri</i>		
<i>Hexacantium enthacanthum</i>	HEXACANTIUM PACHY/ENTHA	
<i>Hexacantium pachydermum</i>		
<i>Lampromitra coronata</i>	LAMPROMITRA PENTALACTIS/QUADRICUSPIS	
<i>Lampromitra quadricuspis</i>		
<i>Lithelius minor</i>	LITHELIUS MINOR/SPIRALIS	
<i>Lithelius spiralis</i>		
<i>Lithomelissa setosa</i>	LITHOMELISSA SETOSA Group	
<i>Lithomelissa hystrix</i>		
<i>Trisulcus testudus</i>		
<i>Phormacantha hystrix</i>	PHORMACANTHA/PLECTACANTHA	
<i>Plectacantha cremastoplegma</i>		
<i>Plectacantha oikiskos</i>		
<i>Pseudodictyophimus gracilipes</i>	PSEUDODICTYOPHIMUS GRACILIPES S.L.	
<i>Pseudodictyophimus gracilipes multispinus</i>		
<i>Pseudodictyophimus platycephalus</i>		
<i>Pseudodictyophimus bicornis</i>		
<i>Pterocanium praetextum praetextum</i>	PTEROCANIUM PRAETEXTUM/EUCOLPUM	
<i>Pterocanium praetextum eucolpum</i>		
<i>Saccospyris antarctica</i>	SACCOSPYRIS ANTARCTICA	
<i>Saccospyris conithorax</i>		
<i>Spongopyle osculosa</i>	SPONGOPYLE OSCULOSA/RESURGENS	
<i>Spongodiscus resurgens</i>		