

Table 1. General distributional data for the polycystine species treated. Geographic distribution areas refer to those indicated in Figure 11. Most abundant species are denoted with **bold** lettering. Numbers in body of table indicate approximate percentage contribution to the corresponding assemblages; 10: between 5 and slightly over 10%, exceptionally up to 20-30%; 5: up to 5%, usually around 1-3%; A: abundant; P: present. Depths defined are those of peak abundance of the species as derived from various reports, mostly based on materials from the Pacific Ocean. These vertical ranges are probably generally valid for middle and low latitudes, but not for the Subantarctic and Antarctic areas.

	Warm water					Cold water		Depth (m)
	Equat. high prod.	Equat. low prod.	Central Gyre	Subtropical	Transitional	Subantarctic	Antarctic	
<u>Acanthodesmia viniculata</u>	P	P	5	P	P			0
<u>Acanthosphaera actinota</u>				P	P			
<u>Acanthosphaera dodecastyla</u>		P	P	P	P			
<u>Acanthosphaera pinchuda</u>			P	P	P			
<u>Acrosphaera murrayana</u>	5	P	P	P	P			
<u>Acrosphaera spinosa</u>		P	10	5	P			
<u>Actinomma antarcticum</u>					P	5	5	0
<u>Actinomma arcadophorum</u>	P	P	P	P				
<u>Actinomma leptodermum</u>				P	P	P		
<u>Actinomma sol</u>	P	P	P	P	P			0-100

<u><i>Amphirhopalum ypsilon</i></u>	P	A	A	A	P			
<u><i>Amphispyris reticulata</i></u>	A	A	A	A	P			
<u><i>Antarctissa denticulata group</i></u>						5	10	
<u><i>Anthocyrtidium ophirensense</i></u>	P	P	P	P	P			25-50
<u><i>Anthocyrtidium zanguebaricum</i></u>	A	P	P	P	P			
<u><i>Arachnocorys circumtexta</i></u>	P	P	P	P	P			25-100
<u><i>Arachnosphaera myriacantha</i></u>	P	P	P	P				
<u><i>Artostrobos annulatus</i></u>	P	P	P	P	P	P	A	>100
<u><i>Astrosphaera hexagonalis</i></u>	P	P	P	P				
<u><i>Botryocephalina armata</i></u>	P	P	P	P	P			
<u><i>Botryocyrtis scutum</i></u>	P	5	5	5				
<u><i>Botryopyle dictyocephalus</i></u>	P	P	P	P	P			
<u><i>Botryostrobos aquilonaris</i></u>						P	5	>100
<u><i>Botryostrobos auritus/australis</i></u>	P	P	P	P	5	5	P	100
<u><i>Buccinosphaera invaginata</i></u>		P	A	P	P			

<u><i>Callimitra carolotae</i></u>	P	P	P	P				
<u>Carpocanium spp.</u>	P	P	5	P	P			0
<u><i>Carposphaera acanthophora</i></u>	P	P	P	A	P			
<u>Cenosphaera spp.</u>			5	5	5	5	P	
<u><i>Centrobotrys thermophila</i></u>	P	P	P	P				
<u><i>Centrocubus cladostylus</i></u>	P	P	P	P	P			
<u><i>Cephalospyris clathrobursa</i></u>				P	P			
<u><i>Cladococcus cervicornis</i></u>	P	P	P	P	P			
<u><i>Cladococcus megaceros</i></u>	P	P	P	P	P			
<u><i>Clathrocanium coarctatum</i></u>	P	P	P	A				0
<u><i>Clathrocorys teuscheri</i></u>	A	P	P	p	P			
<u><i>Clathrocyclas cassiopeiae</i></u>	P	P	P	P				
<u><i>Collosphaera huxleyi</i></u>		P	A	P	P			
<u><i>Collosphaera macropora</i></u>		P	A	P	P			
<u><i>Collosphaera tuberosa</i></u>		P	A	P	P			
<u><i>Cornutella</i></u>	Cos mop							>100

<u>profunda</u>	olita n							
<u>Corocalyptra cervus</u>	P	P	P	P	5			
<u>Corocalyptra columba</u>		P	P	A	P			
<u>Corocalyptra kruegeri</u>	P	P	P	P				
<u>Cromyechinus antarctica</u>							5	
<u>Cromyechinus icosacanthus</u>	P	P	P	P				
<u>Cromyomma circumtextum</u>	P	P	P	P				
<u>Cycladophora davisiana</u>					P	5	5	
<u>Cyrtopera laguncula</u>	Cos mop olita n?							>100
<u>Dictyocephalus papillosus</u>	Cos mop olita n?							
<u>Dictyocoryne profunda</u>	5	5	P	P	P			0
<u>Dictyocoryne truncatum</u>		P	P	P	P			
<u>Dictyophimus gracilipes</u>					P	A	5	100
<u>Dictyophimus hirundo</u>	Cos mop olita							

	n?							
<u><i>Dictyophimus infabricatus</i></u>	P	P	P	P				
<u><i>Didymocyrtis tetralthalamus</i></u>	10	10	10	5	A			0
<u><i>Dipylissa bensoni</i></u>	P?	P?	P?	P?				
<u><i>Drupptractus irregularis</i></u>	P	P	P	P				
<u><i>Euchitonia elegans/furcata</i></u> group?	P	5	10	5	P			0
<u><i>Eucyrtidium acuminatum</i></u>	P	P	P	A	P			0
<u><i>Eucyrtidium anomalum</i></u>	A	P	P	A	P			
<u><i>Eucyrtidium hexastichum</i></u>	P	P	P	P	P			25-100
<u><i>Heliaster hexagonium</i></u>	P	P	P	P				
<u><i>Heliodiscus asteriscus</i></u>	P	P	A	P	P			0
<u><i>Heliosoma echinaster</i></u>	P	P	P	P				
<u><i>Helotholus histricosa</i></u>				P	P	A	A	0-100
<u><i>Hexacontium aristarchi</i></u>	P	P	P	P	P			
<u><i>Hexacontium armatum/hostile</i></u> group	P	P	5	P	P			
<u><i>Hexacontium</i></u>	P	P	P	P				

<u><i>laevigatum</i></u>								
<u><i>Lamprocyclus hannai</i></u>	P?	P?	P?	P?				
<u><i>Lamprocyclus maritalis</i> group?</u>	P	P	P	A	A			50-100
<u><i>Lamprocyclus nigriniae</i></u>	P	P	P	P				100->100
<u><i>Lampromitra coronata</i></u>	P	P	P	P				
<u><i>Lampromitra danaes</i></u>	P	P	P	P				
<u><i>Lampromitra quadricuspis</i></u>	P	P	P	P				100->100
<u><i>Lampromitra schultzei</i></u>	P	P	P	P				
<u><i>Larcopyle butschlii</i></u>	P	P	P	P	A	A	P	>100
<u><i>Larcospyra quadrangula</i></u>	P	A	P	A	P			0
<u><i>Lipmanella bombus</i></u>	P	P	P	P				
<u><i>Lipmanella dictyoceras</i></u>	P	P	P	P	5			0
<u><i>Litharachnium tentorium</i></u>	P	P	P	P				100
<u><i>Lithelius minor</i></u>	P	P	P	5	P	P	P	
<u><i>Lithelius nautiloides</i></u>					P	P	5	
<u><i>Lithopera bacca</i></u>	P	A	P	P				0
<u><i>Lithostrobus</i></u>	P	P	P	P				0-100

<i>hexagonalis</i>								
<u>Lophophaena butschlii</u>	P	P	P	P				
<i>Lophophaena hispida</i>	P	P	P	P				
<i>Lophospyris pentagona pentagona</i>	P	P	P	P				
<u>Neosemantis distephanus</u>	P	P	P	P				0
<i>Nephrosyris renilla</i>	P	P	P	P				
<i>Octodendron cubocentron</i>	P	P	P	P				
<u>Octopyle stenozone group?</u>	5	10	10	5	5			0
<i>Peromelissa phalacra</i>	P	P	P	P				
<i>Perypiramis circumtexta</i>	Cosmopolitan							>100
<u>Phormacantha hystrix</u>					P	P	P	
<i>Phormospyris stabilis scaphipes</i>	P	P	P	A	A			25-100
<i>Phormospyris stabilis stabilis</i>	P	P	P	P				
<i>Phormostichoartus corbula</i>	P	P	P	P	P	A	A	100->100
<u>Phorticium clevei</u>						P	5	

<u>Plagoniidae</u> <u>group</u>	10	5	5	A	A	A	5	
<i><u>Plegmosphaera</u></i> <i><u>entodictyon</u></i>	P	P	P	P				
<i><u>Plegmosphaera</u></i> <i><u>exodictyon</u></i>	P	P	P	P				
<i><u>Plegmosphaera</u></i> <i><u>pachyplegma</u></i>	P	P	P	P				
<u>Pseudocubus</u> <u>obeliscus</u>				P	P	P	5	
<i><u>Pterocanium</u></i> <i><u>elegans</u></i>	P	P	P	P				
<u>Pterocanium</u> <u>praetextum</u>	P	P	5	5	P			0
<u>Pterocanium</u> <u>trilobum</u>	P	P	P	P	5			0
<u>Pterocorys</u> <u>herwigii</u>	P	P	P	A	P			0
<u>Pterocorys</u> <u>minythorax</u>	P	P	P	P	10			0
<i><u>Pterocorys</u></i> <i><u>zancleus</u></i>	P	P	P	A	P			
<i><u>Pterocyrtidium</u></i> <i><u>dogieli</u></i>	P?	P?	P?	P?				
<i><u>Pteroscenium</u></i> <i><u>pinnatum</u></i>	P	P	P	P				
<i><u>Pylolella</u></i> <i><u>armata</u></i> <u>group?</u>	P	P	P	A	P			
<i><u>Pylospyra</u></i> <i><u>octopyle</u></i>	P?	P?	P?	P?				
<u>Saccospyris</u>						P	5	

<u>antarctica</u>								
<u>Saturnalis circularis</u>				P	P	P		
<u>Sethoconus anthocyrctis</u>	P	P	P	P				
<u>Sethodiscus macococcus</u>				P	P			
<u>Sethophormis aurelia</u>	P	P	P	P				0
<u>Sethophormis rotula</u>					P	P	P	
<u>Siphocampe arachnea</u>					P	P	A	>100
<u>Siphocampe lineata</u>					P	P	5	
<u>Siphonosphaera martensi</u>		A	A	P	P			
<u>Siphonosphaera polysiphonia</u>	P	A	5	P	P			0
<u>Solenosphaera chierchiaie</u>		A	A	P	P			
<u>Solenosphaera polysolenia</u>		A	A	P	P			
<u>Solenosphaera zanguebarica</u>		5	5	P	P			
<u>Spirocyrtis scalaris</u>	P	P	P	P				
<u>Spongaster tetras irregularis</u>	P	P	P	A				
<u>Spongaster tetras tetras</u>	5	5	P	P	P			0

<u><i>Spongocore cylindrica</i></u>	P	P	P	P	P			100
<u><i>Spongodictyon spongiosum</i></u>	P	P	P	P	P			
<u><i>Spongodiscus resurgens</i></u>	5	P	P	P	10	P	5	
<u><i>Spongoliva ellipsoides</i></u>	P	P	P	P				
<u><i>Spongoplegma antarcticum</i></u>					P			
<u><i>Spongoplegma rugosa</i></u>	P	P	P	P				
<u><i>Spongopyle setosa</i></u>	P	P	P	P	P	5	5	>100
<u><i>Spongosphaera streptacantha</i></u>	P	P	P	5	P			0
<u><i>Spongotrochus glacialis</i></u>	5	P	5	10	P	P	5	0
<u><i>Spongurus pylomaticus</i></u>				P	P	P	A	0
<u><i>Spongurus spp.</i></u>	5	P	P	P	P	A	10	>100
<u><i>Stichopilium bicornis</i></u>	P	P	P	P				
<u><i>Stylatractus spp.</i></u>		P	5	5	P			
<u><i>Stylochlamydidium asteriscus</i></u>	P	P	P	5	P			
<u><i>Stylodictya aculeata</i></u>				P	P	5	5	
<u><i>Stylodictya multispina</i></u>	5	5	5	10	10			

<u><i>Stylosphaera melpomene</i></u>	P	P	P	P				
<u><i>Styptosphaera spumacea</i></u>	P	P	P	P				
<u><i>Tetraplecta pinigera</i></u>	P	P	P	P				
<u><i>Thecosphaera inermis</i></u>	P	P	P	A	A			
<u><i>Theocorythium trachelium</i></u>	P	P	P	P	5			0
<u><i>Theopilium tricostatum</i></u>	P	P	P	5	P	P	P	0
<u><i>Tholospyrus anthophora</i></u>			P	P	P			
<u><i>Tholospyrus ramosa</i></u>	P	P	P	P				
<u><i>Tholospyrus tripodiscus</i></u>	P	P	P	P				
<u><i>Tribonosphaera centripetalis</i></u>		P	A	P	P			
<u><i>Triceraspyris antarctica</i></u>					P	5	10	
<u><i>Tricolocampe cylindrica</i></u>	P	P	P	P				
<u><i>Trisulcus triacanthus</i></u>	P	P	P	P	P			
<u><i>Zygocircus productus</i></u>	P	P	5	P	P			

NOTE: Data included in the table and depicted in the distributional maps are approximate and based on very limited current knowledge or the corresponding ranges; further research will undoubtedly introduce substantial changes to many of these patterns.