

	AUSTRALIA				ANTARCTICA										SOUTH AMERICA			SOUTHERN AFRICA								
	Arrowie Basin	Amadeus and Georgina Basins	Gnalta Shelf	Stansbury Basin	Central Transantarctic Mts Nimrod and Byrd Glaciers	Central Transantarctic Mts Beardmore Glacier	Argentina Range	Schneider Hills	Shackleton Range Mount Wegener Fm	Shackleton Range Stephenson Bastion / Du Toit Nunataks	Whichaway Nunataks	King George Island	Weddell Sea	Ellsworth Mts	Whiteout Congl.	Falkland Islands	Fitzroy Tillite Fm	Sierra Grande	El Jagüelito Fm	Sierras Australes	Sauce Grande Fm	main Karoo Basin	Dwyka Group	Aranos Basin	Dwyka Group	
<i>Shackleton Range species</i>																										
<i>Tumuliolynthus irregularis</i>	Δ		•	•				•	•		•					•										
<i>Dokidocyathus</i> sp.	o		o	o	o		?o	•	•																	
<i>Kaltatocyathus gregarius</i>	Δ			aff				•																		
<i>Kymbecyathus avius</i>				sp	Δ				•																	
<i>Nochorocyathus hystrix</i>			Δ						•																	
<i>Nochorocyathus lawrencei</i>	cf		Δ					•	•																	
<i>Nochorocyathus</i> sp.	o	o	o	o	o			•	•	?o																
<i>Rotundocyathus gladius</i> sp. nov.	o							Δ	•																	
<i>Cadniacyathus</i> sp.	o							•		?o																
<i>Buggischicyathus microporus</i> gen. et sp. nov.								Δ																		
<i>Thalamocyathus trachealis</i>	Δ		o	•	•		cf		•	•	•	•				•		?		•						
? <i>Baikalocyathus</i> sp.	o							•																		
<i>Paragnaltacyathus hoeflei</i> gen. et sp. nov.									Δ																	
? <i>Ussuricyathellus</i> sp.			o	o					•																	
<i>Ladaecyathus</i> sp.	o				o			•	•								?o						?o			
<i>Shackletoncyathus buggischi</i> gen. et sp. nov.								•	Δ																	
<i>Santelmocyathus santelmoi</i> gen. et sp. nov.								•	Δ																	
? <i>Falloycyathus</i> sp.								•																		
? <i>Antonioscincus</i> sp.	o							•																		
<i>Erismacoscincus bilateralis</i>	Δ	•	o	•			?o	•		•	o	•	cf	?o	?o									o		
? <i>Retecoscincus</i> sp.								•																		
<i>Wegenercyathus sexangulae</i> gen. et sp. nov.								Δ																		
<i>Coscinoptycta convoluta</i>	Δ		•	•		•		•																		
<i>Putapacyathus</i> sp.	o			o				•		o	o															
<i>Neoloculicyathus</i> sp.	o			o					•																	
<i>Paranacyathus sarmaticus</i>	Δ			o			sp	•			•		o		o											
? <i>Graphoscyphia</i> sp.	o		o	o					•	?o		?o	?o												o	
<i>Archaeopharetra irregularis</i>	Δ		•	•				•	•		•	o	•										cf	•		
<i>Archaeocyathus</i> sp.	o			o	o		o	•		o	?o		o										o			
? <i>Metacyathellus</i> sp.	o				o				•																	

**Appendix 4.** Occurrence of Shackleton Range species in Atdabanian-Botoman records across the Australia-Antarctica palaeobiogeographic province. Legend: Δ, holotype; •, species occurrence; o, genera occurrence; aff, affine; cf, confer; sp, open assignment; ?, uncertain assignment.