

Shackleton Range species	Genera age (Debrenne <i>et al.</i> 2015)	Australia - Antarctica province				
		<i>Warriootacyathus</i> <i>wilkawillensis</i> Zone	<i>Spirilicyathus</i> <i>tenuis</i> Zone	<i>Jugallycyathus</i> <i>tardus</i> Zone	<i>Syringocnema</i> <i>favus</i> beds	<i>Archaeocyathus</i> <i>abacus</i> beds
<i>Tumuliolyntus irregularis</i>	Tm2- Bt3					
<i>Dokidocyathus</i> sp.	Tm2- Bt3					
<i>Kaltatocyathus gregarius</i>	At1 - Bt1					
<i>Kymbecyathus avius</i>	At4 - Bt3				?	
<i>Nochorocyathus hystrix</i>	Tm1 - Bt3					
<i>Nochorocyathus lawrencei</i>	Tm1 - Bt3					
<i>Nochorocyathus</i> sp.	Tm1 - Bt3					
<i>Rotundocyathus gladius</i> sp. nov.	At2 - Bt1					
<i>Cadniacyathus</i> sp.	Bt3					
<b><i>Buggischicyathus microporus</i> gen. et sp. nov.</b>						
<i>Thalamocyathus trachealis</i>	At2 - Bt3					
? <i>Baikalocyathus</i> sp.	At1 - Bt1					
<b><i>Paragnaltacyathus hoeflei</i> gen. et sp. nov.</b>						
? <i>Ussuricyathellus</i> sp.	Bt1- Bt3					
<i>Ladaeyathus</i> sp.	At4 - Bt3					
<b><i>Shackletoncyathus buggischi</i> gen. et sp. nov.</b>						
<b><i>Santelmocyathus santelmoi</i> gen. et sp. nov.</b>						
? <i>Fallocyathus</i> sp.	Bt1					
? <i>Antoniocoscinus</i> sp.	At4 - Bt3					
<i>Erismacoscinus bilateralis</i>	Tm2 - Bt3					
? <i>Retecoscinus</i> sp.	Tm3 - Bt1					
<b><i>Wegenercyathus sexangulae</i> gen. et sp. nov.</b>						
<i>Coscinoptycta convoluta</i>	Bt3					
<i>Putapacyathus</i> sp.	Bt3					
<i>Neoloculicyathus</i> sp.	At1 - Bt3					
<i>Paranacyathus sarmaticus</i>	Bt1- Bt3					
? <i>Graphoscyphia</i> sp.	At4 - Bt3					
<i>Archaeopharetra irregularis</i>	At1 - Bt3					
<i>Archaeocyathus</i> sp.	?At4- Bt2-Ty3					
? <i>Metacyathellus</i> sp.	At4 - Bt3					

genera record in Australia and Antarctica
genera record in Australia
genera record in Antarctica

species record in Australia and Antarctica
species record in Australia
species record in Antarctica

**Appendix 3.** Biostratigraphic distribution of the Shackleton Range species according to the genera age (Debrenne *et al.* 2015) and their occurrence in the Australian biozones (Zhuravlev & Gravestock, 1994) in the Australia-Antarctica province. Abbreviations: Tm-Tommotian, At-Atdabanian, Bt-Botoman, Ty-Toyonian.