

and the genus *Leptopenus*, which has as yet been dredged only south of the equator, but both in the South Atlantic, South Indian, and South Pacific Oceans in very great depths.

No examples of any of the species of the genus *Stephanotrochus* were obtained in the Pacific Ocean. They have hitherto occurred only in the Atlantic and South Indian Oceans. I have taken care to give in the description of the figures at the end of this memoir the exact locality at which each specimen figured was dredged, because local varieties may at some future time be determined, and, moreover, forms placed and named together may hereafter be separated.

The wide range in depth of some species is very remarkable, and the instance of *Bathyactis symmetrica* has often been referred to since the Challenger Expedition returned; it ranges from a depth of 70 fathoms in the tropics to one of 2900 fathoms. The following table gives the depths at which all genera of corals which have as yet been found at a depth of 50 fathoms and upwards occur. The occurrence of the genera as fossils in Secondary and Tertiary deposits is also indicated. Some shallow water forms extend to very considerable depths. The deep-sea forms are not as a whole of greater geological antiquity than shallow water forms.

TABLE showing the Depths at which all Genera of Corals, which have as yet been obtained in Depths of 50 Fathoms and upwards, are known to occur.

The depths are given in round numbers, and the x's indicating the ranges of the coral in depth are placed in those columns the numbers relating to which approach most nearly to the depths at which the corals have been actually dredged. Thus, if a coral has been dredged at 76 fathoms, it is marked in the 100 fathoms' column; if at 74, in the 50 fathoms' column; if at 1126, in the 1250 column; if at 1124, in that of 1000 fathoms.

GENERA.	Depths in Fathoms at which the several Genera occur.																		AGE.			
	Shallow Water.	50	100	150	200	250	300	400	500	750	1000	1250	1500	1750	2000	2250	2500	2750	3000	Second-ary.	Ter-tiary.	
<i>Caryophyllia</i>	x	x	x	x	x	x	x	x	x	x	x	x	x								x	x
<i>Acanthocyathus</i>		?			x	x	x															x
<i>Stenocyathus</i>			x	x	x	x	x															
<i>Paracyathus</i>	x	x	x	x	x	x	x	x	x	x												x
<i>Leptocyathus</i>		x	x	x	x	x	x	x	x													
<i>Schizocyathus</i>					x	x	x	x														
<i>Deltocyathus</i>				x	x	x	x	x	x	x	x	x	x	x	x	x						x
<i>Trochocyathus</i>			x	x	x	x	x	x	x	x											x	x
	Shallow Water.	50	100	150	200	250	300	400	500	750	1000	1250	1500	1750	2000	2250	2500	2750	3000	Second-ary.	Ter-tiary.	