

TABLE OF SPECIES OF *Gorgonocephalus*.

	One madreporic shield inside the raised mouth ring, and at base of a mouth angle. Disk covered by a fine, close, smooth granulation, . . . . .	} <i>Gorgonocephalus arborescens</i> .
Only one madreporic shield, which is situated at the inner angle of an interbrachial space.	Disk set above and below with short tooth-like spines, which are longer and closer on radial shields, . . . . .	} <i>Gorgonocephalus lamarchii</i> .
	Disk with small, smooth, scattered grains, which are more numerous on the radial shields, . . . . .	} <i>Gorgonocephalus eucnemis</i> .
	Stands between the preceding and <i>Gorgonocephalus agassizii</i> (var. of <i>Gorgonocephalus eucnemis</i> (?), . . . . .	} <i>Gorgonocephalus malmgrenii</i> .
	Similar to <i>Gorgonocephalus eucnemis</i> , but with closer, more regular granulation, and a strong row of grains along genital openings, . . . . .	} <i>Gorgonocephalus caryi</i> .
	Disk set with a few small, irregular stumps, which are most numerous on outer ends of radial shields, . . . . .	} <i>Gorgonocephalus agassizii</i> .
	Disk above closely beset with short, thick, thorny stumps; and below with very small short spines, . . . . .	} <i>Gorgonocephalus linckii</i> .
	Disk similar to <i>Gorgonocephalus linckii</i> , but smooth below, . . . . .	<i>Gorgonocephalus stimpsoni</i> .
	Disk set above with scattered minute conical stumps, or stump-like granules. Arms in the adult nearly smooth, . . . . .	} <i>Gorgonocephalus pourtalesii</i> .
	Similar to <i>Gorgonocephalus pourtalesii</i> , but structure more delicate. The young has a simple under arm plate, which is in several pieces in <i>Gorgonocephalus pourtalesii</i> , . . . . .	} <i>Gorgonocephalus chilensis</i> .
	Disk finely and smoothly granulated, and set, together with upper surface of arms, with large smooth tubercles, . . . . .	} <i>Gorgonocephalus verrucosus</i> .
Radial shields set with fluted stumps. Tentacle scales flat, and strongly toothed at the end, . . . . .	} <i>Gorgonocephalus australis</i> .	
Large conical spikes on upper disk, and upper surface of arms, . . . . .	<i>Gorgonocephalus mucronatus</i> .	
Five madreporic shields, one at inner angle of each interbrachial space. Surface of disk and arms smooth, . . . . .	} <i>Gorgonocephalus cacaoticus</i> .	

*Gorgonocephalus pourtalesii*, Lym. (Pl. XLV. figs. 2-5).

*Astrophyton Pourtalesii*, Lym., Ill. Cat. Mus. Comp. Zool., No. viii. part 2, p. 28, pl. iv. figs. 41-43, 1875.

*Astrophyton Lymani*, Bell, Proc. Zool. Soc., p. 99, January 1880.

This widely spread animal is found from Heard Island to East Patagonia over a region between long. 70° E. and long. 70° W., 220 degrees in all, or more than half round the southern end of the world. The western specimens from Heard and Kerguelen Islands usually have the disk spines sharper and more numerous; and the basal shafts between