

Station 307. January 4, 1876. Lat.  $49^{\circ} 24' S.$ , long.  $74^{\circ} 23' W.$ ; 147 fathoms; bottom temperature,  $7.6^{\circ} C.$ ; mud.

Station 309. January 8, 1876. Lat.  $50^{\circ} 56' S.$ , long.  $74^{\circ} 15' W.$ ; 40 to 140 fathoms; mud.

Station 310. January 10, 1876. Lat.  $51^{\circ} 30' S.$ , long.  $74^{\circ} 3' W.$ ; 400 fathoms; bottom temperature,  $7.9^{\circ} C.$ ; mud.

Station 305. January 1, 1876. Lat.  $47^{\circ} 48' S.$ ; long.  $74^{\circ} 48' W.$ ; 120 fathoms; mud.

Off London River, Kerguelen; 110 fathoms.

Off Christmas Harbour, Kerguelen; 120 fathoms.

Station 146. December 29, 1873. Lat.  $46^{\circ} 46' S.$ , long.  $45^{\circ} 31' E.$ ; 1375 fathoms; bottom temperature,  $1.5^{\circ} C.$ ; globigerina ooze.

*Schizaster ventricosus* (Pl. XXXVI. figs. 1-3).

*Schizaster ventricosus*, Gray, 1851, Ann. Mag. Nat. Hist., vol. vii. p. 133.

As I refer so frequently to this species in the comparative descriptions of the different species of *Schizaster*, and as it is most typical of a special group of species, I have given figures of it to facilitate the comparisons and to illustrate the affinities of the different species of Schizasteridæ.

Station 232. May 12, 1875. Lat.  $35^{\circ} 11' N.$ , long.  $139^{\circ} 28' E.$ ; 345 fathoms; bottom temperature,  $5.0^{\circ} C.$ ; sandy mud.

*Periaster* (*Schizaster*).

*Periaster*, D'Orb., 1854, Pal. Franç. Terr. Crét., tom. vi. p. 269.

\**Periaster limicola* (Pl. XXXV.<sup>b</sup> figs. 1-4; Pl. XXXIX. fig. 38; Pl. XL. figs. 1-6).

*Schizaster* (*Periaster*) *limicola*, A. Agassiz, 1878, Bull. Mus. Comp. Zool., vol. v. p. 293, pl. iii.

I cannot distinguish the specimens collected by the Challenger (Station 188) from the specimens dredged off the mouth of the Mississippi. The latter are very much larger than the Challenger specimens. This species was accidentally described first from specimens dredged by the "Blake;" the only marked difference in the specimens of the "Blake" and "Challenger" is in the course and distinctness of the anal fasciole, which is more indistinct in specimens collected by the latter, and difficult to trace in the midst of the small tubercles covering the anal extremity of the test.