

## RADIOLARIA (Haeckel, Zool. pt. 40).

STATION 291.

*Carposphæra cubazonia*, Haeckel.  
*Styptosphæra stupacea*, Haeckel.  
*Siphonosphæra chonophora*, Haeckel.  
*Hexalonche setosa*, Haeckel.  
*Leptosphæra reticulum*, Haeckel.  
*Octodendron verticillatum*, Haeckel.  
*Myelastrum heteropterum*, Haeckel.  
*Amphipyle hexaceros*, Haeckel.  
*Tholostaurus octobelonis*, Haeckel.

*Actinelius polyacanthus*, Haeckel.  
*Litholophus fasciculus*, Haeckel.  
*Xiphacantha emarginata*, Haeckel.  
*Stauracantha diplostaura*, Haeckel.  
*Diplocolpus sulcatus*, Haeckel.  
*Hexaplecta tricladonia*, Haeckel.  
*Sethophormis leptopilium*, Haeckel.  
*Aulacantha cannulata*, Haeckel.  
*Sagoscena tentorium*, Haeckel.

In addition, the following are recorded in the note-books :—*Ceratium* (*Peridinium*) *tripos*, *Coccospheres*, *Globigerina*, *Hastigerina*, *Pulvinulina*, *Siphonophoræ*, *Sagitta*, *Alciopa*, *Aphroditacean larvæ*, *Cypridina*, *Copepods*, *Hyperids*, small shells, *Pteropods*, small *Cephalopod*, *Appendicularia*, and *Fritillaria*. In the tow-nets attached to the trawl were a small *Sternoptychid*, remains of another small fish, a small shrimp and other small deep-sea *Crustacea*, and a number of *Phæodaria* (*Challengeria* and *Tuscarora*) and other *Radiolaria*, along with many surface things. The *Pulvinulina* shells were again surrounded with yellow-coloured granular sarcode.

## Station 292 (Sounding 437), Tahiti to Valparaiso (see Chart 38 and Diagram 20). STATION 292.

October 29, 1875 ; lat. 38° 43' S., long. 112° 31' W.

Temperature of air at noon, 48°·5 ; mean for the day, 50°·0.

Temperature of water :—

Surface, . . . . .	53·2	400 fathoms, . . . . .	41·1
25 fathoms, . . . . .	52·8	500 " . . . . .	40·0
50 " . . . . .	51·7	600 " . . . . .	39·0
75 " . . . . .	50·0	700 " . . . . .	38·3
100 " . . . . .	48·5	800 " . . . . .	37·6
125 " . . . . .	47·4	900 " . . . . .	37·1
150 " . . . . .	46·2	1000 " . . . . .	36·6
175 " . . . . .	45·2	1100 " . . . . .	36·2
200 " . . . . .	44·3	1200 " . . . . .	36·0
225 " . . . . .	43·9	1300 " . . . . .	35·8
250 " . . . . .	43·5	1400 " . . . . .	35·5
275 " . . . . .	43·5	1500 " . . . . .	35·3
300 " . . . . .	43·0	Bottom, . . . . .	35·2

Density at 60° F. at surface, 1·02532 ; 1600 fathoms (?), 1·02532 ; bottom, 1·02559.

Depth, 1600 fathoms ; deposit, *Globigerina* Ooze, containing 83·75 per cent. of carbonate of lime (see Murray and Renard, Deep-Sea Deposits Chall. Exp.).