

In addition, the following are recorded in the note-books:—*Peridinium* (*tripos* and two other species), Diatoms, green circular Algæ (*Halosphæra* ?), small bladder-like organisms (*Noctiluca* ?), Coccospheres, *Globigerina*, *Orbulina*, *Pulvinulina*, *Acanthometræ*, *Polycystinæ*, *Challengeridæ*, and compound Radiolaria, Infusoria, Medusæ, Siphonophoræ, *Sagitta*, *Tomopteris*, Aphroditacean larvæ, Planarian larvæ, *Cypridina*, Hyperids and other Amphipods, *Euphausia*, Heteropods, Pteropods and larvæ, larvæ of *Membranipora*, *Appendicularia*. A hump-back whale followed the ship for over an hour, coursing round the ship several times, and turning on its back and side frequently when it came to the surface; there were bunches of Cirripeds at the blow-holes, on the dorsal fin, and on some parts of the pectoral fins. On the 15th *Globigerinæ* were exceedingly abundant in the surface-nets, and the pseudopodia were observed ramifying between the calcareous spines, and projecting beyond the tips of the latter, as well as forming the bubble-like expansions of the float. In the sarcode surrounding the *Pulvinulinæ* were numerous small Diatoms, *Peridinium*, Coccospheres, and Infusoria.

STATION 299.

**Station 300** (Sounding 445), Valparaiso to Gulf of Peñas (see Chart 40 and Diagram 21).

STATION 300.

December 17, 1875; lat. 33° 42' S., long. 78° 18' W.

Temperature of air at noon, 62°·8; mean for the day, 61°·3.

Temperature of water:—

Surface, . . . . .	62·5	300 fathoms, . . . . .	41·3
25 fathoms, . . . . .	57·8	400 " . . . . .	40·1
50 " . . . . .	53·7	500 " . . . . .	39·4
75 " . . . . .	51·2	600 " . . . . .	38·7
100 " . . . . .	49·5	700 " . . . . .	38·0
125 " . . . . .	47·8	800 " . . . . .	37·4
150 " . . . . .	46·3	900 " . . . . .	36·9
175 " . . . . .	45·3	1000 " . . . . .	36·4
200 " . . . . .	44·1	1100 " . . . . .	35·9
225 " . . . . .	43·4	1200 " . . . . .	35·7
250 " . . . . .	42·6	Bottom, . . . . .	35·5
275 " . . . . .	42·0		

Density at 60° F.:—

Surface, . . . . .	1·02526	300 fathoms, . . . . .	1·02535
25 fathoms, . . . . .	1·02509	400 " . . . . .	1·02532
50 " . . . . .	1·02512	800 " . . . . .	1·02552
100 " . . . . .	1·02520	1350 " . . . . .	1·02563
200 " . . . . .	1·02541	Bottom, . . . . .	1·02543

Depth, 1375 fathoms; deposit, *Globigerina* Ooze, containing 54·09 per cent. of carbonate of lime (see Murray and Renard, Deep-Sea Deposits Chall. Exp.).