

Surface.....	19°·5 C.	800 fathoms.....	5°·6 C.
100 fathoms.....	17 ·2	900 “	4 ·7
200 “	13 ·7	1000 “	4 ·6
300 “	11 ·0	1100 “	3 ·8
400 “	9 ·5	1200 “	3 ·5
500 “	7 ·6	1300 “	3 ·1
600 “	6 ·5	1400 “	2 ·8
700 “	6 ·2	1500 “	2 ·6

The dredge was not used, but, as is our custom whenever the rate of the ship is such as to make it practicable, a large tow-net was put out astern. We procured a number of specimens of the remarkable surface annelid *Alciopé*, with large, deeply pigmented eyes; and a number of the delicate, transparent crustaceans of the so-called genera *Erichthus* and *Alima*, which have been latterly shown by Claus to be larval stages of various Squillidæ.

Toward midday, in hot, calm weather, the tow-net, when used on the surface, is usually unsuccessful. It seems that the greater number of pelagic forms retire during the heat of the day to the depth of a few fathoms, and come up in the cool of the evening and in the morning, and in some cases in the night. The larger phosphorescent animals are frequently abundant during the night round the ship and in its wake, while none are taken in the net during the day. Mr. Moseley has been specially engaged in working up the developmental stages of *Pyrosoma*, and the intimate structure of the tissues and organs of some of the surface groups, whose extreme transparency renders them particularly suitable for such researches.

February 21st.—Up to 2.15 P.M. going on under all plain sail, at the rate of six knots an hour before the N.E. trades; force 3 to 4. Sounded in the afternoon in 2740 fathoms, the “Hydra” machine bringing up a small quantity of yellowish globigerina ooze. The thermometers registered a bottom temperature of 2° C., and the bottom water taken with the slip water-bottle gave a specific gravity of 1·02623 at 20° C., the surface water