

Distance at noon from Lord North Island, 94 miles ; from Warren Hastings Island, 133 miles ; and from Greenwich Island, 1485 miles. Made good 75 miles. No current. STATION 215.

The following species is recorded from the trawl at this Station :—

MACRURA (Spence Bate, Zool. pt. 52).

*Hymenodora glauca*, n.sp. One specimen ; obtained also at Station 159.

Surface Organisms.—The following species are recorded from the surface at this Station :— ORGANISMS FROM SURFACE-NETS.

RADIOLARIA (Haeckel, Zool. pt. 40).

*Pleuraspis horrida*, Haeckel.

*Coscinaspis ceriopora*, Haeckel.

*Acontaspis hastata*, Haeckel (?).

*Psilomelissa galeata*, Haeckel.

*Sethoconus trochus*, Haeckel.

*Dictyomitra macilenta*, Haeckel.

In addition, the following are recorded in the note-books (February 12 to 15):— Oscillatoriaceæ, *Peridinium*, *Pyrocystis noctiluca* and *Pyrocystis fusiformis*, *Coscinodiscus rex* and other Diatoms, *Globigerina* (various species) and *Pullenia* in great abundance, *Orbulina*, *Pulvinulina*, Acanthometræ in large numbers, *Acineta* on the tail of a Copepod, *Physalia* (apparently different from the Atlantic species), *Diphyes*, *Verella*, and other Siphonophoræ, Semper's golden-haired Cœlenterate larva, *Sagitta*, *Alciopa*, *Terebella* larva with otoliths, Sipunculid larvæ, Planarians, Copepods, *Rhabdosoma*, *Phronima*, *Phronimella*, Zoëæ of *Euphausia*, *Amphion*, *Firoloida* with egg-strings, *Cardiopoda*, *Atlanta* and larvæ, various species of Pteropods, small Cephalopod, *Appendicularia*, *Salpa* (two species—single and in chains), young *Amphioxus* and other small fishes. Several schools of dolphins were seen, and some fishes jumping out of the water.

Mr. Murray observed the protoplasm in *Globigerina rubra* moving up and down the spines ; this was rendered visible by the small refrigerent particles and a thickening of the sarcode. The large oval-shaped symbiotic yellow cells (similar to those of the Radiolaria) moved about in the fluid-sarcode, and came outside the shell, forming a thick layer on the surface of the shell ; some of these zooxanthellæ proceeded some distance up the spines, and sometimes they formed into clumps of six to a dozen, and had a curious rotating and advancing motion, apparently independent of the fluid. Delicate pseudopodia were also observed in *Pulvinulina*.

Moseley writes : "The tow-net yielded a very rich harvest, being full of oceanic forms and their larvæ, without any shore larvæ. Pteropods were abundant, also *Atlanta* with its larvæ, having four long ciliated processes of the velum, as figured in Bronn's