

Density at 60° F. :—

STATION 227.

Surface, . . . . .	1·02572	200 fathoms, . . . . .	1·02591
25 fathoms, . . . . .	1·02574	300 „ . . . . .	1·02536
50 „ . . . . .	1·02575	400 „ . . . . .	1·02550
100 „ . . . . .	1·02605		

Depth, 2475 fathoms; deposit, Red Clay, containing only a trace of carbonate of lime (see Murray and Renard, Deep-Sea Deposits Chall. Exp.).

At 4 A.M. got up steam. At 5.30 A.M. shortened and furled sails, and proceeded under steam to sound. At 6.30 A.M. sounded in 2475 fathoms. Took serial temperatures down to 1500 fathoms. At 10 A.M. completed observations and made sail. Albatrosses, boatswain birds, and what seemed to be a noddy tern were seen about the ship.

No Sima lighthouse distant at noon, 1040 miles; Lindsay Islands, 105 miles. Made good 77 miles. Amount of current 23 miles, direction N. 48° W.

Surface Organisms.—The following species are recorded from the surface in the vicinity of this Station :—

ORGANISMS FROM  
SURFACE-NETS.

AMPHIPODA (Stebbing, Zool. pt. 67).

*Phronima megalodous*, n.sp.

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

*Eretmocaris longicaulis*, n.g., n.sp.

NUDIBRANCHIATA (Bergh, Zool. pt. 26).

*Acura lanceolata*, Bergh.

In addition, the following are recorded in the note-books:—Oscillatoriaceæ, *Pyrocystis* (two species), *Ethmodiscus* and other Diatoms, *Peridinium tripos* and two other species, Gregarinids (*Gregarina clavata* ?), *Globigerina*, *Orbulina*, *Pulvinulina*, Radiolaria in great numbers, Medusæ, Siphonophoræ, *Beroë*, Echinoderm larvæ, *Sagitta*, *Alciopa*, Sipunculid and Echiurid larvæ, *Cypridina* (several species), *Setella*, *Copilia*, Calanids, Hyperids, *Oxycephalus*, *Squilla* larvæ, *Euphausia*, *Siriella*, *Sergestes* and larvæ, *Lucifer*, *Amphion*, *Phyllosoma*, small Anomurous crab, Zoëæ of crab, *Halobates*, small Lamellibranchs and Gasteropods, *Atlanta*, *Pterotrachea*, *Hyalæa* [= *Cavolinia*], *Styliola*, small *Octopus*, *Fritillaria*, *Doliolum*, *Salpa*, small Percoid fishes. Cocoliths and Rhabdoliths were found in the stomachs of the *Salpæ*. About a dozen of the large cylindrical Diatoms (*Ethmodiscus*) were separated into a globe of water, and after dark disturbed for phosphorescence, but they showed no light. *Coryphæna* and another large fish of a dark colour, with the dorsal and anal fins opposite each other on the hinder part of the body, as well as a shoal of small fishes, were seen about the ship. In this connection it may be noted that no sharks were seen, and it was observed that other fishes were seldom seen when sharks were about.