

Density at 60° F.:—

Surface,	. . .	1.02624	100 fathoms,	. . .	1.02625
10 fathoms,	. . .	1.02596	200 "	. . .	1.02574
20 "	. . .	1.02602	300 "	. . .	1.02562
50 "	. . .	1.02616	350 "	. . .	1.02565

Depth, 2650 fathoms; deposit, Red Clay, containing only a trace of carbonate of lime (see Murray and Renard, Deep-Sea Deposits Chall. Exp.).

At 5.45 A.M. got up steam, shortened and furled sails, and proceeded under steam. At 6.30 A.M. sounded in 2650 fathoms. At 10 A.M. obtained serial temperatures down to 1525 fathoms. At 12.30 P.M. completed observations and made all plain sail.

Distance at noon from Guam Island, 789 miles. Made good 56 miles. Amount of current 14 miles, direction S. 82° W.

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

ORGANISMS FROM SURFACE-NETS.

RADIOLARIA (Haeckel, Zool. pt. 40).

Psilomelissa galeata, Haeckel.*Sethoconus trochus*, Haeckel.*Dictyomitra macilenta*, Haeckel.

SCHIZOPODA (Sars, Zool. pt. 37).

Euphausia pellucida, Dana.

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

Mastigopus dorsispinalis, n.sp.*Mastigopus* sp. (?).*Elaphocaris* sp. (?) (= Zoëa of *Sergestes*).

CEPHALOPODA (Hoyle, Zool. pt. 44).

Ommastrephes oualaniensis (Lesson).

FISHES (Günther, Zool. pt. 78).

Psenes cyanophrys, C.V.

In addition, the following are recorded in the note-books (March 13 to 15):—*Peridinium* (two species), *Pyrocystis*, *Ethmodiscus* and other Diatoms (*Planktoniella*), *Globigerina*, *Orbulina*, Medusæ, *Diphyes* and other Siphonophoræ, *Cydippe*, Holothurian larvæ, *Sagitta*, *Alciopa*, Planarian and small green larvæ, *Calanus*, *Copilia*, *Saphirina*, *Corycaeus*, *Pontella plumata*, Hyperids, *Oxycephalus*, Phronimids, *Lucifer*, *Sergestes*, *Amphion* (?), Zoëæ, *Atlanta*, *Macgillivraya*, *Pneumonoderma*, *Theceurybia* [= *Halopsyche*], *Hyalæa* [= *Cavolinia*], *Styliola*, and other Pteropods, *Octopus* (2½ inches in length) and another small Cephalopod, *Appendicularia*, *Doliolum*, *Salpa*, Percoid fish (2 inches in length) and other small fishes. On the 13th a male shark (*Carcharias lamia*), 5 feet in length, was caught; it had nothing in its stomach. The white corpuscles in the blood of this shark were under observation for several hours, and exhibited active amœboid movements. On the 14th two sharks, and one or two