

STATION 254. 25.4 milligrammes per litre. At 1 P.M. commenced heaving in trawl, but at 3 P.M. the trawl-rope carried away, the trawl with three tow-nets and a few thousand fathoms of rope being lost. A manganese nodule was procured in the water-bottle. At 3.20 P.M. made sail. Albatrosses still followed the ship.

Honolulu distant at noon, 852 miles. Made good 150 miles. Amount of current  $3\frac{1}{4}$  miles, direction S.  $28^{\circ}$  W.

ORGANISMS FROM  
SURFACE-NETS.

Surface Organisms.—The following species are recorded from the surface at this Station :—

RADIOLARIA (Haeckel, Zool. pt. 40).

*Cenosphæra cristata*, Haeckel.  
*Octodendron spirale*, Haeckel.  
*Heliodymus setosus*, Haeckel.  
*Acanthonia quadrifolia*, Haeckel.  
*Xiphacantha macroptera*, Haeckel.  
*Tessaraspis hexagonalis*, Haeckel.  
*Phatnaspis cristata*, Haeckel.  
*Plagiacantha furcata*, Haeckel.  
*Sethoconus trochus*, Haeckel.  
*Theocampe cryptoprora*, Haeckel.  
*Castanella wyvillei*, Haeckel.  
*Cælodendrum bifurcum*, Haeckel.

SIPHONOPHORÆ (Haeckel, Zool. pt. 77).

*Porpita fungia*, n.sp.

PTEROPODA (Pelseneer, Zool. pts. 58 and 65).

*Pneumoderma pacificum*, Dall.

„ *souleyeti*, n.sp.

*Clionopsis modesta*, n.sp.

*Clio (Hyalocylix) striata* (Rang).

„ (*Styliola*) *subula* (Quoy and Gaimard).

„ *pyramidata*, Linné.

„ *cuspidata* (Bosc).

*Cuvierina columnella* (Rang).

*Cavolinia tridentata* (Forskål).

*Cymbulia* sp. (?).

In addition, the following are recorded in the note-books :—*Pyrocystis* (two forms), *Peridinium (in catena)*, *Ethmodiscus*, *Rhizosolenia*, and Diatoms attached to Copepods, Coccospheres and Rhabdospheres abundant on the surface, *Globigerina*, *Orbulina*, *Hastigerina*, *Pulvinulina menardii* and *Pulvinulina micheliniana*, *Tintinnus* and other Infusoria, Medusæ, *Verella*, *Sagitta*, *Alciopa*, *Tomopteris*, *Distomum*, *Cypridina*, *Copilia* and other Copepods, Zoëæ of *Lepas fascicularis*, Hyperids, *Euphausia* with Zoëæ and larvæ, *Atlanta*, *Oxygyrus*, *Tiedemannia* [= *Gleba*], *Appendicularia*, *Fritillaria*, *Doliolum*. A haul from over 100 fathoms brought up a few Challengeridæ and other Radiolaria. There were again a good many small pieces of pumice covered with mould or Algæ, and some seeds which did not seem to have come from the ship. Several specimens of *Pyrocystis noctiluca* were observed to be in process of division, two distinct individuals being surrounded by a common chitinous membrane. Some of the specimens of *Orbulina* had very thin shells, and the *Globigerinæ* inside, attached to the inner surfaces of the *Orbulinæ* by long spines could be seen with great distinctness.