

Depth, 2450 fathoms; deposit, Red Clay, containing 6.86 per cent. of carbonate of lime (see Murray and Renard, Deep-Sea Deposits Chall. Exp.).

STATION 222.

At 5 A.M. got up steam. At 5.30 A.M. shortened and furled sails, and proceeded under steam. At 6 A.M. sounded in 2450 fathoms. Obtained serial temperatures down to 1500 fathoms. The wind changed to a favourable quarter, and the trawling was postponed to a future day. At 9.40 A.M. completed temperatures and made all plain sail northwards. Petrels (*Puffinus opisthomelas*), *Tachypetes*, and *Phæthon* were seen.

Distance at noon from Guam Island, 660 miles. Made good 69 miles. Amount of current 28 miles, direction S. 84° 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).

*Druppula cocos*, Haeckel.  
*Xiphatractus dasypus*, Haeckel.  
*Amphipyle amphiceros*, Haeckel.  
*Pleuraspis pyramidalis*, Haeckel.  
*Psilomelissa galeata*, Haeckel.  
*Sethoconus trochus*, Haeckel.  
*Dictyomitra macilenta*, Haeckel.

## SIPHONOPHORÆ (Haeckel, Zool. pt. 77).

*Porpalia prunella*, n.g., n.sp.  
*Diphyopsis angustata* (Eschscholtz).

## HETEROPODA (Smith, Zool. pt. 72).

*Carinaria cristata* (Linné), jun. (?).

## PTEROPODA (Pelseneer, Zool. pt. 58).

*Pnemonoderma peroni*, Lamarck.

## TUNICATA (Herdman, Zool. pt. 76).

*Pyrosoma elegans*, Lesueur (?).  
" sp. (?).  
*Salpa cordiformis-zonaria*, Quoy  
and Gaimard—Pallas.  
" *cylindrica*, Cuvier.  
" *runcinata - fusiformis*,  
Chamisso—Cuvier.  
" *democratica - mucronata*,  
Forskåhl (?).  
" *nitida*, n.sp.

## FISHES (Günther, Zool. pt. 78).

*Leptocephalus tænia* (young).

In addition, the following are recorded in the note-books (March 16 to 18):—*Pyrocystis*, *Ethmodiscus* and other large Diatoms, *Peridinium* (*in catena*), yellow masses containing Coccospheres and Rhabdospheres along with Diatoms and Infusoria, many *Globigerinæ* and *Pulvinulinæ*, *Tintinnus* and other Infusoria, Medusæ, Echinoderm larvæ, *Sagitta*, *Alciopa*, Aphroditacean larvæ, *Cypridina*, *Calanus*, *Corycæus*, *Copilia*, *Saphirina*, *Pontella*, Hyperids, *Phronima*, *Oxycephalus oceanus*, *Siriella*, *Euphausia*, *Sergestes*, *Lucifer*, *Amphion* (?), Zoëæ, *Halobates*, *Ianthina*, *Glaucus*, *Atlanta*, *Cardiopoda*, *Macgillivraya*, *Hyalæa* [= *Cavolinia*], *Styliola*, *Heterofusus* [= *Limacina*],