

3.30 P.M. sounded in 1445 fathoms. The sounding-tube contained only a small quantity of deposit; many of the Pteropod shells in the ooze were covered with a thin coating of manganese. Took serial temperatures down to 1000 fathoms. The carbonic acid was determined in water from 400 fathoms, and amounted to 44.1 milligrammes per litre. At 5.45 P.M. completed temperatures and made sail. STATION 342.

Ascension Island distant at noon, 132 miles. Made good 143 miles. Amount of current 14 miles, direction S. 60° W.

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

RADIOLARIA (Haeckel, Zool. pt. 40).

Rhaphidozoum ascensionis, Haeckel.
Siphonosphæra socialis, Haeckel.
Dicranastrum antilope, Haeckel.
Xiphacantha ciliata, Haeckel.
Lychnaspis giltschii, Haeckel.
Icosaspis elegans, Haeckel.
Conchidium argiope, Haeckel.
Cæloplegma tetradecastylum, Haeckel.

Undina vulgaris, Dana.
Scolecithrix danæ (Lubbock).
Euchæta prestandreæ, Philippi.
Candace truncata, Dana.
Centropages violaceus (Claus).
Oithona challengerii, n.sp.
Setella gracilis, Dana.
Corycæus varius, Dana.
 „ *pellucidus*, Dana.
Copilia mirabilis, Dana.
Lubbockia squillimana, Claus.
Oncæa obtusa, Dana.

COPEPODA (Brady, Zool. pt. 23).

Calanus propinquus, n.sp.
 „ *gracilis*, Dana.

The organisms obtained in the surface tow-nets indicated a truly tropical state of things, and included :—*Peridinium tripos*, *Pyrocystis*, *Ethmodiscus*, *Coscinodiscus*, and other Diatoms, *Globigerina*, *Pullenia*, *Sphæroidina*, *Pulvinulina*, *Acanthometra*, *Polycystina*, compound and other Radiolaria, Medusæ, Siphonophoræ, larval Ctenophoræ (?), Holothurian larvæ, *Sagitta*, *Tomopteris*, *Alciopa*, *Cypridina*, Copepods, Decapods and larvæ, *Atlanta*, Pteropods and larvæ, *Appendicularia*, and *Salpa*.

Station 343 (Sounding 493), off Ascension (see Chart 43).

STATION 343.

March 27, 1876 ; lat. 8° 3' S., long. 14° 27' W.

Temperature of air at noon, 76°·3 ; mean for the day, 78°·2.