STATION 104. ORGANISMS FROM SURFACE-NETS.

Surface Organisms.—The following species are recorded from the tow-nets sent down to 100 fathoms :—

COPEPODA (Brady, Zool. pt. 23).

Saphirina metallina, Dana.

AMPHIPODA (Stebbing, Zool. pt. 67).

Oxycephalus clausi, Bovallius.

SCHIZOPODA (Sars, Zool. pt. 37).

Thysanopoda tricuspidata, M.-Edwards (larval form).

Two or three hauls of the tow-net were taken at about 100 fathoms, and the net was full of pelagic animals, while at the same time almost nothing was got at the surface. In addition to the animals noted yesterday, *Lucifer* was present in abundance, young specimens of *Tomopteris*, several specimens of *Alciopa*, and a Copepod with feathered setæ on the furca.

Moseley writes : " Yesterday and to-day Murray put down the surface-net to 100 fathoms. The result was most satisfactory, for the net was full of animals such as are caught on the surface at night, while a similar net on the actual surface yielded next to nothing. The water was perfectly swarming with living animals. It is a great step to have discovered where the surface animals that one catches occasionally at night are to be obtained, and where they live constantly, during the day."

STATION 105.

Station 105 (Sounding 176), St. Vincent to St. Paul's Rocks (see Chart 12 and Diagram 4).

August 24, 1873 ; lat. 2° 6′ N., long. 22° 53′ W.
Temperature of air at noon, 77°·5 ; mean for the day, 76°·2.
Temperature of water :—

Surface,	78·0	400 fathoms,	41·0
100 fathoms	56·0	500 „	40·4
200 „	46·0	Bottom,	36·0
300 „	42·8		

Density at 60° F. at surface, 1·02604.
Depth, 2275 fathoms ; deposit, Globigerina Ooze.

At 4.5 P.M. shortened and furled sails, and got up steam to sound. At 5 P.M. sounded in 2275 fathoms. Tried a new disengaging apparatus—working by means of a slot without spring—but it failed to disengage the weights, which were brought to the surface.