

STATION 98.  
ORGANISMS FROM  
SURFACE-NETS.

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

PELAGIC HEMIPTERA (White, Zool. pt. 19).

*Halobates willerstorffi*, Frauenfeld.

FISHES (Günther, Zool. pt. 78).

*Exocoetus obtusirostris*, Günther, or *Exocoetus evolans*, Linné (young).

Besides the organisms mentioned yesterday, the following are recorded in the note-books :—*Diphyes*, *Sagitta*, *Planaria*, *Mysis*, *Phyllosoma*, *Halobates*, *Pneumonoderma*-like Pteropod, *Cranchia*, *Salpa*, and young Pleuronectids.

Willemoes-Suhm writes : "At night the sea was very phosphorescent, and as the ship was making only 3 or 4 knots several good hauls of the tow-net were obtained. At 12.30 A.M. a great many animals were in the net, but an hour later very little was procured; a squall was expected, and the sea might have been somewhat rougher, but not much. Several Pleuronectids in different stages of growth, the largest an inch, smaller ones 12 to 13 mm. in length, were obtained; they were perfectly symmetrical and homocercal, and the largest specimen had some reddish spots, but genitals were not observed. There was a large *Phyllosoma* measuring  $4\frac{1}{2}$  inches between the tips of the legs."

Moseley writes : "Two large porpoise-like Cetacea were seen alongside. A pelagic Cephalopod, apparently of the genus *Cranchia*, was taken; it was perfectly transparent, which allowed the structure and movements of organs to be seen."

STATION 99.

Station 99 (Sounding 170), St. Vincent to St. Paul's Rocks (see Chart 12).

August 15, 1873; lat.  $7^{\circ} 53' N.$ , long.  $17^{\circ} 26' W.$

Temperature of air at noon,  $76^{\circ} \cdot 3$ ; mean for the day,  $76^{\circ} \cdot 1$ .

Temperature of water :—

Surface, . . . . .	$78^{\circ} \cdot 0$	300 fathoms, . . . . .	$45^{\circ} \cdot 8$
50 fathoms, . . . . .	$63^{\circ} \cdot 2$	400 " . . . . .	$42^{\circ} \cdot 2$
100 " . . . . .	$56^{\circ} \cdot 2$	500 " . . . . .	$41^{\circ} \cdot 4$
200 " . . . . .	$49^{\circ} \cdot 8$		

Density at  $60^{\circ} F.$  at surface, 1.02600.

At 9 A.M. got up steam, and at 10 A.M. shortened and furled sails, and proceeded under steam. At 4 P.M. stopped to take a series of temperatures down to 500 fathoms. At 5.45 P.M. completed temperature observations, and made sail. Sea phosphorescent.