

Surface Organisms.—Willemoes-Suhm mentions: Velellidæ; *Sagitta*; Copepods; a small oceanic crab, the legs of which are big, with long and light hairs, especially adapted for swimming; *Ianthina*, with air-bladder; *Firoloida*; *Salpa* and *Appendicularia*. Among the large quantity of animals examined, no larvæ of worms nor of Echinoderms, nor *Cyphonautes* were found.

STATION IV.
ORGANISMS FROM
SURFACE-NETS.

The Challenger remained at anchor at Gibraltar from 8 A.M. on January 18 till 6 P.M. on January 26.

AT GIBRALTAR.

January 26 and 27, 1873.

Surface Organisms.—Willemoes-Suhm writes: "Near Gibraltar, on January 26, a specimen of *Orthagoriscus mola* was seen at the surface. Among the surface things taken on January 27, I find the first swimming worm, a *Syllis*, remarkable for long prolongations of the feet; the animal examined is not, however, full-grown. Among the Copepods I find *Copilia denticulata*, Claus [= *Copilia mirabilis*, Dana], a remarkable Saphirinoid, in which the red-coloured eyes are at a great distance from the cornea in the front; the anterior part of the body shows exceedingly well the nervous system, the otolith, and the innervation of the glands described by Haeckel in *Saphirina edwardsii*. There were also many specimens of *Beroë*, *Cydidippe*, *Sagitta*, megalopa stage of crab, *Carinaria*, Pteropods, *Appendicularia*, *Salpa*, and *Doliolum*. Worm larvæ, Echinoderm larvæ, and *Cyphonautes* observed for the first time abundantly to-day."

ORGANISMS FROM
SURFACE-NETS.

Station V. (Sounding 19), Gibraltar to Madeira (see Chart 2).

STATION V.

January 28, 1873; lat. 35° 47' N., long. 8° 23' W.

Temperature of air at noon, 58°·3; mean for the day, 56°·3.

Temperature of water:—

Surface,	61·0	110 fathoms,	57·0
10 fathoms,	61·0	120 "	56·6
20 "	61·0	130 "	56·2
30 "	60·9	140 "	55·7
40 "	60·7	150 "	55·2
50 "	60·5	160 "	54·9
60 "	60·3	170 "	54·6
70 "	59·6	180 "	54·3
80 "	58·7	190 "	54·1
90 "	57·9	200 "	54·0
100 "	57·4	Bottom,	38·5

Depth, 1090 fathoms; deposit, Globigerina Ooze, containing 66·84 per cent. of carbonate of lime (see Murray and Renard, Deep-Sea Deposits Chall. Exp.).

At 11 A.M. sounded in 1090 fathoms; at 1 P.M. the trawl was lowered, and came up at 4 P.M., containing several specimens.