

The following three species are recorded in the Zoological Reports from the dredge at this Station :—

CORALS (Moseley, Zool. pt. 7).

Flabellum apertum, n.sp. Two specimens; obtained also at Station 145, 310 fathoms. ANIMALS FROM DREDGE.

ANNELIDA (M'Intosh, Zool. pt. 34).

Nothria conchylega, Sars. One specimen; obtained also at Station 49, 85 fathoms. A widely-distributed species.

CIRRIPEDIA (Hoek, Zool. pt. 25).

Scalpellum velutinum, n.sp. (?). Three specimens; obtained also at Station 335, 1425 fathoms.

In addition to the foregoing, the following are recorded in the Station-book :—*Chondrocladia virgata*, two specimens of *Euplectella suberea*, spicules of *Hyalonema*, three specimens of *Mopsea*, two young specimens of *Funiculina quadrangularis*, *Palythoa*, *Tubularia*, several young specimens of *Archaster* [= *Plutonaster*] *bifrons*, and *Limopsis*.

Excluding Protozoa, about 30 specimens of invertebrates were obtained at this Station, belonging to about 12 species, of which 2 are new to science.

Surface Organisms.—The following were taken in the surface tow-nets :—*Collo-sphæra*, *Verella*, *Cydippe*, *Ianthina*, *Carinaria atlantica*, and *Salpa*, also a small turtle (*Chelone imbricata*). ORGANISMS FROM SURFACE-NETS.

Willemoes-Suhm writes : " Among the surface things were big blackish Copepods with large paws (denticulated), beautiful *Salpæ* and *Verellæ*; on the latter *Ianthina* was feeding."

Station IV. (Sounding 18), Lisbon to Gibraltar (see Charts 2 and 3).

STATION IV.

January 16, 1873; lat. 36° 25' N., long. 8° 12' W.

Temperature of air at noon, 58°·8; mean for the day, 59°·1.

Temperature of water at surface, 60°·0.

Depth, 600 fathoms; deposit, Green Sand.

At 8 A.M. sounded in 600 fathoms. At 8.30 A.M. put over dredge, which came up about noon with very few specimens, but with great masses of a Gorgonoid entangled in the rope and about the mouth of the dredge. On this occasion it was suggested that the ordinary deep-sea trawl should be tried, in order to go over more ground, and to take, if possible, animals belonging to some of the higher groups. The result fully justified the experiment, for the trawl was sent down at 1 P.M., and on being hauled up about 4 P.M., was found to contain a number of forms.