

APRIL 29, 1876. North of Cape de Verde Islands. Surface. Containing *Globigerina bulloides* and *Orbulina universa*.

MAY 3, 1876, corresponding to Station 353. Containing *Orbulina universa* and *Hastigerina pelagica*.

II. "PORCUPINE" EXPEDITION.

The cruises of H.M.S. "Porcupine," in the summer of 1869, under the direction of Dr. Carpenter, Professor C. Wyville Thomson, and Dr Gwyn Jeffreys, have furnished material representing the sea-bottom of three distinct areas of the North Atlantic. Unfortunately only a small proportion of the dredgings which were obtained have been found available for the purposes of the present memoir, but the following have been worked out with moderate completeness:—

1ST CRUISE.—*West and North-West of Ireland.*

Dredging was conducted at thirty-two Stations, from twelve of which samples of the sea-bottom have been examined, and the Rhizopoda determined. They are referrible to an area lying between lat. 51° 42' and 56° 44' N., and between long. 10° 56' and 15° 24' W., as follows:—

No. (A). "Off Valentia.¹ Lat. 51° 42' N., long. 11° 21' W. Depth, 112 fathoms." Clean, fine sand. The most noticeable Foraminifera were *Uvigerina pygmæa*, *Cassidulina lævigata*, *Bulimina marginata*, *Bigenerina nodosaria*, and *Operculina ammonoides*. Amongst rare British species were the following:—*Bulimina subteres*, *Cassidulina bradyi*, *Chilostomella ovoidea*, *Nonionina orbicularis*, and *Technitella legumen*. *Globigerinæ* were present, but not in large number, and the pelagic species of *Pulvinulina* were confined to one or two examples of *Pulvinulina micheliniana*.

No. 1. Lat 51° 51' N., long 11° 50' W. Depth, 370 fathoms; surface temperature, 54°·2 Fahr. (12°·3 C.); bottom temperature, 49° Fahr. (9°·4 C.).

Muddy sand, with a typical Rhizopod-fauna, of which the salient genera were *Cassidulina*, *Uvigerina*, *Bulimina*, *Bigenerina*, *Truncatulina*, and the

¹ This batch of material was sent to me amongst a number of "Porcupine" dredgings, by my friend the Rev. A. M. Norman, and it was worked out under the supposition that it belonged to the "Porcupine" series. But I have learned, since the above was written, that it was obtained by Dr. Gwyn Jeffreys on his dredging excursion in the yacht "Osprey," in 1870. Nevertheless, as the results help materially to complete the record of the area embraced in the 1st Cruise, it has been retained in the list.