

deep, flowing in a south-westerly direction, beneath an *upper* stratum of comparatively warm water moving slowly towards the north-east; the lower half of the latter, however, having its temperature considerably modified by intermixture with the stratum over which it lies."<sup>1</sup>

Our next few dredgings were on the Shetland plateau, in depths under 100 fathoms, and over ground already carefully worked by our colleague Mr. Gwyn Jeffreys. We got few novelties, but owing to our very effective dredging appliances we took some of the 'Haaf' rarities, such as *Fusus norvegicus*, CHEMN.; *Fusus bernicensis*, KING; *Pleurotoma carinatum*, BIVONA; in considerable numbers. The hempen tangles stood us in good stead with the echinoderms. On one occasion the dredge brought up at a single haul, in the bag and on the tangles, certainly not less than 20,000 examples of the pretty little urchin, *Echinus norvegicus*, D. and K.

On the 28th of August we anchored in Lerwick Harbour. We remained at Lerwick several days taking in necessary supplies, looking at the geology and the many remarkable antiquities of the neighbourhood, and ransacking the haberdashers' shops for those delicate fleecy fabrics of wool which imitate in a scarcely grosser material, and with almost equal delicacy of design, the fretted skeletons of *Holtenia*, *Euplectella*, and *Aphrocallistes*.

In this earlier part of the cruise nearly all the dredgings had been confined to the cold area, and

<sup>1</sup> Dr. Carpenter, in "Preliminary Report on the Scientific Exploration of the Deep Sea, 1869." (Proceedings of the Royal Society, vol. xvii. p. 441.)