

chief of which was a new crinoid belonging to the genus *Bourguettierinus* of D'Orbigny; it may even be the species named by him *B. hotessieri*, which occurs fossil in a recent formation in Guadaloupe, but of which only small pieces of the stem are known. I obtained half-a-dozen specimens between 230 and 300 fathoms, unfortunately more or less injured by the dredge. The deepest cast made was in 517 fathoms; it gave a very handsome *Mopsea* and some annelids." ¹

The results of the 'Lightning' cruise in 1868, in which dredging was successfully carried down to 650 fathoms, have already been recorded.

In the summer of 1870, Mr. Marshall Hall, F.G.S., with an interest in science which is unfortunately rare among yachtsmen, devoted his yacht 'Norna' to deep-sea dredging work during a cruise along the coasts of Portugal and Spain. If we may judge by several preliminary sketches which have from time to time appeared at the hands of Mr. Saville Kent, the collections made during this expedition must have been extensive and valuable.²

The last researches in order of time are those conducted on board I.M.S. 'Porcupine' in 1869 and 1870. With the use of a Government surveying ship well found in all necessary appliances everything was in our favour, and, as has been already told, dredging was carried down to 2,435 fathoms;

¹ American Journal of Science, vol. xvi. p. 413.

² Zoological Results of the 1870 Dredging Expedition of the Yacht 'Norna' off the coasts of Spain and Portugal, communicated to the Biological Section of the British Association, Edinburgh, August 8, 1871. *Nature*, vol. iv. p. 456.