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Scoresby in 1811 recorded some soundings off the coast of Deep Greenland, and Sir John Ross during his voyage to Baffin's soundings. Bay in 1817–18 took some deep soundings by means of an Scoresby. John Ross. apparatus, designed by him and made on board, called "deepsea clamms," in depths of 450, 650, 1000, and 1050 fathoms, bringing up from the last-mentioned depth several pounds of greenish mud. With the deposit-samples worms and other Deep-sea animals were brought up, and when sounding in 1000 fathoms animals. a star-fish was found entangled in the line a little distance above the mud, thus proving that animal life was present in deep water.

In 1817 Romme published in Paris a work on winds, tides, Romme. and currents, and Risso in 1826, Lowe from 1843 to 1860, Risso. Johnson from 1862 to 1866, and Günther from 1860 to 1870, Lowe. published important papers dealing with deep-sea and pelagic Johnson. fishes. In 1832 James Rennell published an investigation of Günther. the currents of the Atlantic Ocean, based upon the observations recorded by sailors up to that time.

During the United States Exploring Expedition in 1839-Wilkes and 1842 under Captain Wilkes, accompanied by Dana, several Dana. deep soundings were taken with the aid of a copper wire, and a few dredgings in shallow water were also made.

Important sounding and dredging work was carried out by Sir James Clark Ross, accompanied by Hooker, during the British Antarctic Expedition in 1839 to 1843, the first truly British oceanic soundings in depths exceeding 2000 fathoms being Antarctic Expedition. taken. After many unsuccessful attempts to sound in deep James Clark water, due to the want of a proper line, Ross had a line 3600 Ross and fathoms in length specially constructed on board. It was fitted Hooker. with swivels here and there, strong enough to carry a weight of 76 lbs., and was allowed to run out from an enormous reel in one of the ship's boats. With this line the first abysmal Soundings in sounding on record was taken in 2425 fathoms on the 3rd wery deep water January 1840, in lat. 27° 26' S., long. 17° 29' W., and frequently during the cruise similar and greater depths were sounded. Such deep soundings could only be attempted in calm weather, Introduction and a note was kept of the time each 100-fathoms mark left the of time intervals in reel, a lengthening of the time-interval indicating when the sounding. weight had reached the bottom. The dredge also was success- Dredgings in fully used during this expedition in depths down to 400 deep water. fathoms, abundant evidence of animal life being forthcoming, though unfortunately the deep-sea zoological collections were

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Rennell.