To these may be added the observations of Lieutenant S. P. Lee, of the United States Coast Survey, who, in August 1847, recorded a temperature of 2°.7 C. below the Gulf-stream at a depth of 1,000 fathoms, lat. 35° 26' N., long. 73° 12' W.; and of Lieutenant Dayman, who found the temperature at 1,000 fathoms in lat. 51° N. and long. 40° W. to be $-0^{\circ}4$ C., the surface temperature being 12°5 C. These results are fully borne out by the recent determinations of Captain Shortland, R.N., who observed a temperature of 2°.5 C. in deep water in the Arabian Sea between Aden and Bombay,¹ by those of Commander Chimmo, R.N., and Lieutenant Johnson, R.N., who found at various points in the Atlantic a temperature of about 3°.9°C. at 1,000 fathoms, and a slow decrease from that point to 2,270 fathoms, where the temperature registered by unprotected thermometers was 6°.6 C., reduced by the necessary correction for pressure to about 1°.6 C.,² and finally by the temperature determinations of the 'Porcupine' expeditions, carefully conducted with protected instruments, but not carried nearer the tropics than the latitude of the Strait of Gibraltar; and they appear to go far to establish a nearly uniform temperature for abyssal depths, not far from the freezing-point of fresh water.

As it was evident that the low temperature for deep water in tropical regions could not be acquired

¹ Sounding Voyage of H.M.S. 'Hydra,' Captain P. F. Shortland. London: 1869.

² Soundings and Temperatures in the Gulf-stream. By Commander W. Chimmo, R.N. (Proceedings of the Royal Geographical Society, vol. xiii.)