



Fig. 15.—Diagram constructed from Serial Sounding No. 82.

same very characteristic globigerina deposit, and a temperature of $2^{\circ}0$ C. The bottom temperatures in this section show some irregularities; but as these do not extend beyond $0^{\circ}2$ C., they may arise from errors of observation, due to the somewhat unsatisfactory mode of registering of Six's thermometers.

On the 14th we sounded in 2400 fathoms; and a serial temperature sounding (Fig. 15) indicated an almost total disappearance of the upper stratum of abnormally warm water; but, on the other hand, the isotherms between three and eight hundred fathoms showed very distinctly the excess of heat in a deeper layer, to which reference has already been made, and which, becoming more marked a little to the northward, gives so peculiar a character to the temperature soundings in the Bay of Biscay. In Fig. 13 the curves constructed from the serial soundings between Bermudas and Madeira show very clearly the gradual disappearance of the upper warm layer in passing to the eastward; and the appearance of the second deeper hump near the coast of Africa. The curve marked with the asterisk constructed from the *Porcupine*, *Lightning*, and *Shearwater* soundings is introduced for comparison.