

12·3 feet above sea-level. The highest drift-mark observed was 9 feet above the surface of the water on the date of the survey, and, according to the local ghillie, the water might fall 2 feet lower, giving a total range in level of about 11 feet.

The floor of Loch Hope is somewhat uneven. Proceeding from the lower (northern) end of the loch for a quarter of a mile, one meets with a small 25-foot area, based on soundings of 26, 30, and 32 feet, whence the bottom rises in the vicinity of the reputed old castle already mentioned, which lies toward the eastern shore; off the opposite shore in this locality there were many boulders in the water. Thence proceeding to the southwards, the water rapidly deepens until it attains a depth of 104 feet opposite the entrance of the Allt an Ruighein, about $1\frac{1}{2}$ miles from the foot of the loch. Thence for a distance of about three-quarters of a mile the bottom rises again until the depth in the centre is 44 feet, with deeper water on both sides. This shoal coincides with a narrowing in the outline of the loch, whence to the south the loch broadens out and the water deepens so rapidly that at a distance of little more than half a mile from the 44-foot sounding the maximum depth of the loch (187 feet) is met with. A section across the loch in the position of the deepest sounding is shown in cross-section C-D on the map. From this position the bottom rises gradually, though irregularly, towards the head of the loch. A section down the centre of the loch along the axis of maximum depth is shown in longitudinal section A-B on the map, which brings out the salient features in the conformation of the lake-floor, but gives no indication of some of the minor irregularities. For instance, the 44-foot shoal already referred to is not shown because a depth of 56 feet occurs nearer the western shore, nor another shoaling covered by 117 feet of water to the south of the deepest sounding. The offshore slope is in some places rather steep—for instance, along the eastern shore, where off the entrance of the Allt a' Mhuilinn a sounding in 53 feet was taken about 60 feet from shore, and off the entrance of the Allt a' Phris Ghil a sounding in 28 feet was taken about 30 feet from shore; also along the western shore about $1\frac{1}{2}$ miles from the head of the loch, where a sounding in 25 feet was taken about 30 feet from shore. The following table gives the approximate areas between the contour-lines at equal intervals, and the percentages to the total area of the loch —

0 to 50 feet	723 acres	48·0 per cent.
50 „ 100 „	474 „	31·5 „
100 „ 150 „	218 „	14·5 „
Over 150 „	91 „	6·0 „
	<hr/> 1506 „ <hr/>	<hr/> 100·0 „ <hr/>

Temperature Observations.—A series of temperatures was taken at