

corresponding approximately with the level of the sea), and is flat-bottomed in character, as shown in cross-section C-D on the map.

The areas between the consecutive contour-lines drawn in at equal intervals, and the percentages to the total area of the loch, are as follows:—

0 to 25 feet	187 acres	44.1 per cent.
25 „ 50 „	111 „	26.0 „
50 „ 75 „	88 „	20.9 „
75 „ 100 „	20 „	4.8 „
Over 100 „	18 „	4.2 „
	<hr/> 424 „ <hr/>	<hr/> 100.0 „ <hr/>

Temperature Observations.—The temperature of the surface water in Loch Eilt during the two days spent on it varied from 58° to 60° Fahr. On July 10, 1902, three series of temperatures were taken beneath the surface, one in each of the three basins into which the loch is divided, with the following results —

Depth in feet.	Loch Eilt (eastern basin).	Loch Eilt (central basin)	Loch Eilt (western basin).
	July 10, 1902, 2.30 p.m.	July 10, 1902, 3.30 p.m.	July 10, 1902, 5 p.m.
Surface.	" Fahr. 58.0	" Fahr 58.1	Fahr 60.0
10	58.0	58.1	60.0
20	58.0	58.1	60.0
27.5	55.7	57.7	60.0
35	52.8	53.6	59.7
50	50.7	52.8	54.8
75	53.0
100	51.0

These series show a constant temperature down to 20 feet in each case, but the water in the deep western basin was 2° warmer than in the other two basins. Beyond the depth of 20 feet, again, the temperature was about 2° higher in the western basin than in the central basin, and 2° higher in the central basin than in the eastern basin, so that at a depth of 100 feet in the western basin the temperature was rather higher than at a depth of 50 feet in the eastern basin. The water in the western basin was warmer at all depths than that in the central basin, and in the central basin than in the eastern basin. To explain this peculiar distribution of temperature in the waters of Loch Eilt on the afternoon of July 10, 1902, the weather conditions during the few preceding days must be taken into account. The wind had been blowing strong from the north-east from the 3rd till the afternoon of the 9th. Rain commenced to fall about 6 a.m. on the 9th, and continued till about 8 a.m. on the 10th, so that during the twelve hours from 9 p.m. on the 9th to 9 a.m. on the 10th the surface of the loch rose