

maximum depth of 217 feet, and the largest one extending from north of the Douglas water delta as far as Ardvorlich, about 2 miles from the head of the loch, enclosing all the deeper basins. The 300-foot and 400-foot contours are continuous, and enclose areas respectively over 8 and nearly 7 miles in length, lying to the north of the Douglas water delta. The 500-foot basin is cut in two portions by a ridge, on which the greatest depth is 483 feet, crossing the loch just south of Tarbet, the smaller southern portion being over a mile in length, and having a maximum depth of 564 feet, while the northern portion exceeds 3 miles in length and encloses the maximum depth of the loch. The 600-foot basin is a mile in length, and lies to the north of Tarbet, the maximum depth of 623 feet having been recorded little more than half a mile to the north-east of Tarbet island.

The survey of Loch Lomond occupied from May 30 to June 19, 1903. On commencing work the elevation of the surface of the water was determined by levelling from two bench-marks as being 23·9 feet above mean sea-level, and during the progress of the survey the water slowly fell to the extent of more than a foot, but all the soundings were reduced to that datum level; the elevation determined by the officers of the Ordnance Survey on October 12, 1896, was 26·9 feet above the sea, or 3 feet higher than on May 30, 1903. A drift-mark measured on June 9, 1903, was found to be $7\frac{1}{2}$ feet above the water surface, so that the range in level is considerable.

Temperature Observations.—The temperature conditions in Loch Lomond have been studied by Mr. J. Y. Buchanan and others, and for purposes of comparison half a dozen serial observations taken during the survey are given here, arranged geographically from north to south.

SERIAL TEMPERATURES IN LOCH LOMOND.

Depth in feet.	June 2 Off Ardvorlich. Depth 205 feet	June 11. Off Culness. Depth 622 feet.	June 18 Between the islands of Torrinch and Inchmoan. Depth 72 feet.	June 16. Be- tween Creinch island and Inchmurrin. Depth 60 feet.	June 19. Off eastern side of Inchmurrin Depth 55 feet.	June 13. Southern end Nearly a mile south of Inchmurrin. Depth 62 feet.
	° Fahr.	° Fahr.	° Fahr.	° Fahr.	° Fahr.	° Fahr.
0	46 0	58 1	57·4	56 6	57·2	59·5
10	45 8	—	—	56·6	—	—
15	—	—	—	56·6	—	58 3
20	45·2	57·8	—	—	57·2	—
25	45·2	—	55 3	—	—	—
30	—	52·7	—	56 0	57·0	56·8
35	—	—	52 0	—	—	—
40	—	46·3	—	—	53 5	52 9
50	44·5	45·8	50·5	—	51 2	—
60	—	—	—	55·8	—	49·6
70	—	—	49·4	—	—	—
100	44·0	43·8	—	—	—	—
200	42·8	42·7	—	—	—	—
300	—	42·2	—	—	—	—
400	—	42·2	—	—	—	—
500	—	42·2	—	—	—	—
600	—	42 2	—	—	—	—