

will be repeated at *c* and *d* until the lakes are effaced, and their places are taken by alluvial meadows. Examples of this sequence of events are of frequent occurrence in Britain.

Besides the detrital accumulations due to the influx of streams, there are some which may properly be regarded as the work of lakes themselves. Even on small sheets of water, the eroding influence of wind-waves may be observed; but on large lakes the wind throws the water into waves which almost rival those of the ocean in size and destructive power. Beaches, sand-dunes, shore-cliffs, and other familiar features of the meeting-line between land and sea, reappear along the margins of such great fresh-water seas as Lake Superior. Beneath the level of the water a terrace or platform is formed, of which the distance from shore and depth vary with the energy of the waves by which it is produced. This platform is well developed in the Lake of Geneva.¹⁹⁵

Some of the distinctive features of the erosion and deposition that take place in lake-basins have been admirably laid open for study in those basins of vanished lakes which have been so well described by Gilbert, Dutton, Russell, and Upham in the Western Territories of the United States. They have been treated of in a masterly way by Gilbert in his essay on "The Topographic features of Lake-shores."¹⁹⁶

4th. Lakes serve as basins in which chemical deposits

¹⁹⁵ D. Colladon, Bull. Soc. Geol. France (3), iii. p. 661.

¹⁹⁶ 5th Ann. Report U. S. Geol. Survey, 1885. See also Dutton, in 2d Report of same Survey, 1880-81, p. 169; I. C. Russell, 3d Report U. S. Survey, 1881-82, p. 195; 4th Report, 1882-83, p. 435; 8th Report, 1886-87, p. 201; and Monograph XI., 1885, of same Survey. W. Upham on the beaches and terraces of a former glacial lake (Lake Agassiz) Bull. U. S. Geol. Survey, No. 39, 1887; also 8th Ann. Report Geol. and Nat. Hist. Survey Minnesota, 1879, pp. 84-87; H. W. Turner on a vanished lake in Mohawk Valley, Plumas County, California, Bull. Phil. Soc. Washington, xi., 1891, p. 385.