

EXPLANATION

May 11, 2011, lake surface and flooded area, altitude above NAVD 88

- Less than 98 feet
- Greater than 98 to 100 feet
- Greater than 100 to 102 feet
- Greater than 102 to 102.7 feet
- Greater than 102.7 to 104 feet
- Lake surface area, July 14, 2011, from Landsat 5 imagery

FEMA flood zones near lake, Chittenden County

- 0.2-percent annual chance flood hazard
- 1-percent annual chance flood hazard

High-water marks

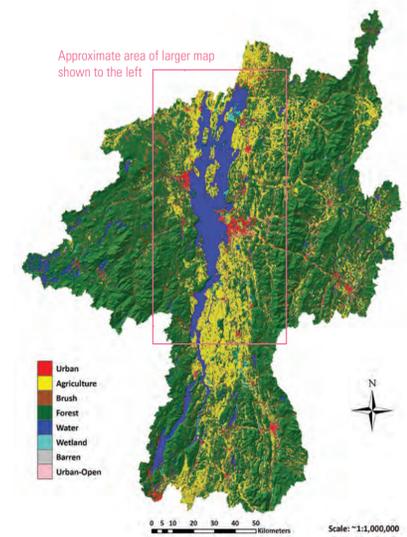
Lake survey altitude, in feet (numbers indicate survey elevation)

- Less than or equal to 100
- Greater than 100 to 101
- Greater than 101 to 102
- Greater than 102 to 103
- Greater than 103

U.S. Geological Survey streamgages



MAP SHOWING LAND USE AND EXTENT OF LAKE CHAMPLAIN BASIN



Source: Lake Champlain Basin Program, Technical Report No. 54, May 2007

Sources: Eri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community



Figure 8. The inundated area of Lake Champlain on May 11, 2011, from Landsat and moderate resolution imaging spectroradiometer (MODIS) imagery, showing the location and level of high-water marks around the lake, the lake level associated with graduated intervals of normal lake surface and flooded areas, and the digital flood insurance rate map boundaries for Chittenden County obtained from the Federal Emergency Management Agency (FEMA) and the Vermont Department of Environmental Conservation. Red areas indicate flooded areas higher than the average level of the lake (average of the three daily mean lake levels for Rouses Point, Burlington, and Whitehall gages) for May 11 (102.7 feet), indicating areas where there is the potential for water surface to be higher than expected level on the basis of the gage data. The levels of the lake surface and flooded areas were determined from the 10-meter digital elevation map. The map also shows the lake surface area as observed on July 14, 2011 (lake level of 97.5 feet), which approximately corresponds to the graduated lake area below 98 feet.

Figure 8. Inundated area of Lake Champlain on May 11, 2011

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