

Long Term Average Surface Temperature and Ice Cover Animation Tool

A long-term average (normal) temperature and ice cover database was created together with a computer program to display and analyze different aspects of temperature and ice cover in the Great Lakes. The daily normal surface temperature of each of the Great Lakes was derived from remotely-sensed data acquired between 1966 and 1993. Normal ice cover maps from the NOAA Great Lakes Ice Atlas were interpolated to yield daily patterns and converted to a Mercator projection with a 25 km grid resolution. Two-dimensional surface temperature and ice data, bathymetry maps, and normal daily vertical temperature profiles were combined into a database for an analysis and animation program. This interactive, menu-driven computer program has four main modules: a) two-dimensional normal daily surface temperature and ice patterns, b) horizontal surface temperature profiles, c) normal daily vertical temperature depth profiles and d) surface temperature and ice cover versus bathymetry.

SCHNEIDER, K., R.A. ASSEL, and T.E. CROLEY. Normal temperature and ice cover of the Great Lakes. Second Thematic Conference on Remote Sensing for Marine and Coastal Environments, New Orleans, LA, January 31-February 2, 1994. 325-335 (1994).

<http://www.glerl.noaa.gov/pubs/fulltext/1994/19940009.pdf>

Download the [text file](#) containing details on file download and running the animation.

Download the [executable file](#) (4.2 MB) at <ftp://ftp.glerl.noaa.gov/assel/animation/gl.exe>

This file contains self-extracting decompression software, compressed data files and all software required. Uncompressed data files will require 15.3 megabytes of space.