



**LAKE MICHIGAN WATER TEMPERATURE DATA
GREEN BAY, WISCONSIN 1947-1990**

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1. INTRODUCTION

Water temperature data from several sites around the Great Lakes were obtained to determine if any regional climatic changes or trends could be detected based upon these data sets. The study was partially supported by the NOAA Office of Global Programs. Site selection was based upon location and reasonable data access.

This technical memorandum contains data for Green Bay, Wisconsin. Water temperature data are from the Wisconsin Public Service Corporation's Pulliam power plant in Green Bay, Wisconsin. The plant is located at the mouth of the Fox River in Green Bay; all data were hand entered into a computer compatible format by a GLERL student employee, Jeff Pazdalski.

Data are available from 1947 to 1990. The water intake for the plant is located near the surface, and much of the plant's water supply is probably derived from the Fox River rather than Green Bay. However, large temperature swings are possible because of the proximity of Green Bay. The water temperatures were recorded at hourly intervals and then averaged into one daily value. Although data were recorded at hourly intervals, large data gaps are still present.

The data are plotted and shown in the accompanying figures. Prior to final plotting all data were checked for consistency and all questionable values were deleted. **All missing data are denoted by -999.**

Data files are identified as TM095Dxx.edt where xx identifies the data year. Data are organized into four columns: month, day, year, and temperature. Although the data are reported to the nearest 0.1°C, a more reasonable estimate of their accuracy is 0.5°C given all the uncertainties with the raw data.

All data are available in a simple ASCII format. The data files are available from GLERL's WWW site or from the anonymous FTP site. From the GLERL home page (www.glerl.noaa.gov), select FTP server, **or** point your browser to: ftp://ftp.glerl.noaa.gov/publications/tech_reports/glerl-95.

Although great care has been used in checking these data, mistakes may still be present. If errors are found, please contact the author at michael.mccormick@noaa.gov.





















