



**LAKE SUPERIOR WATER TEMPERATURE DATA
SAULT STE. MARIE, MICHIGAN 1906-1992**

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Ann Arbor, Michigan
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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.

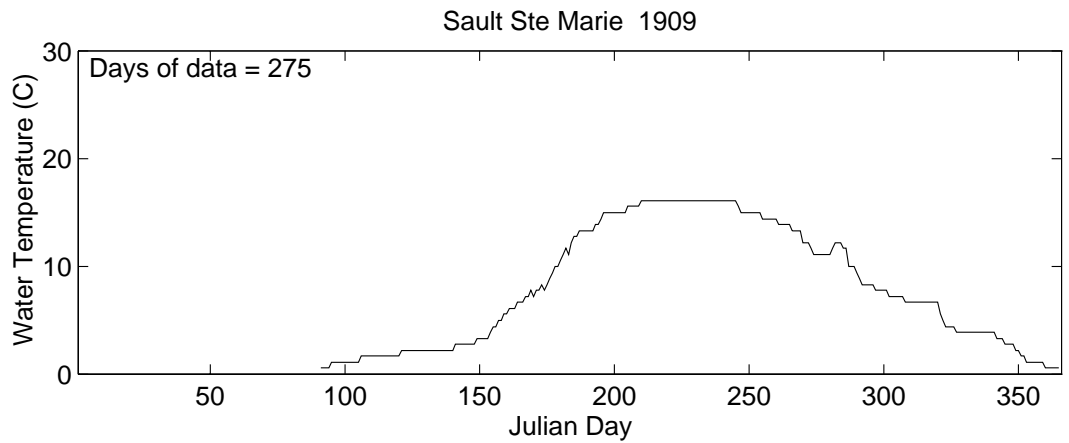
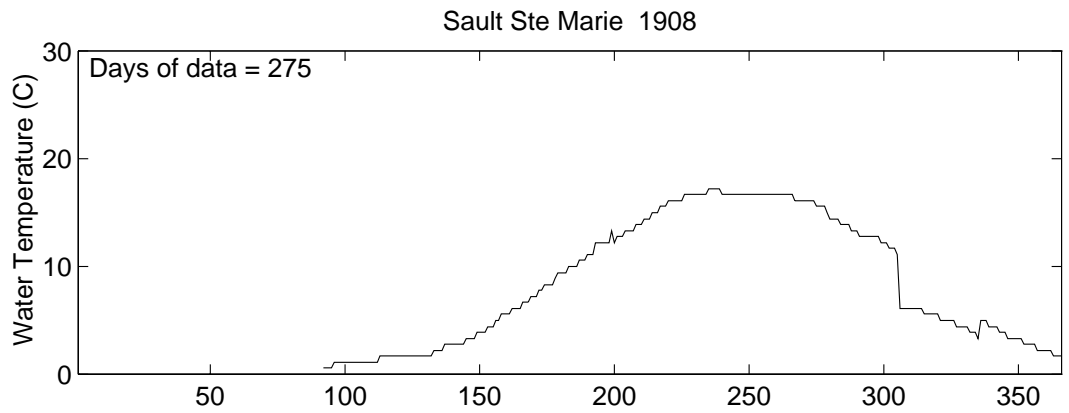
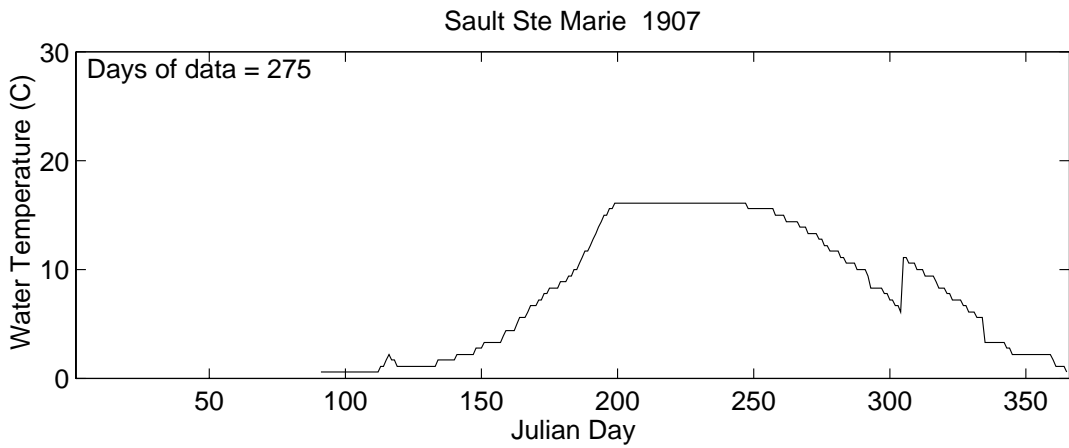
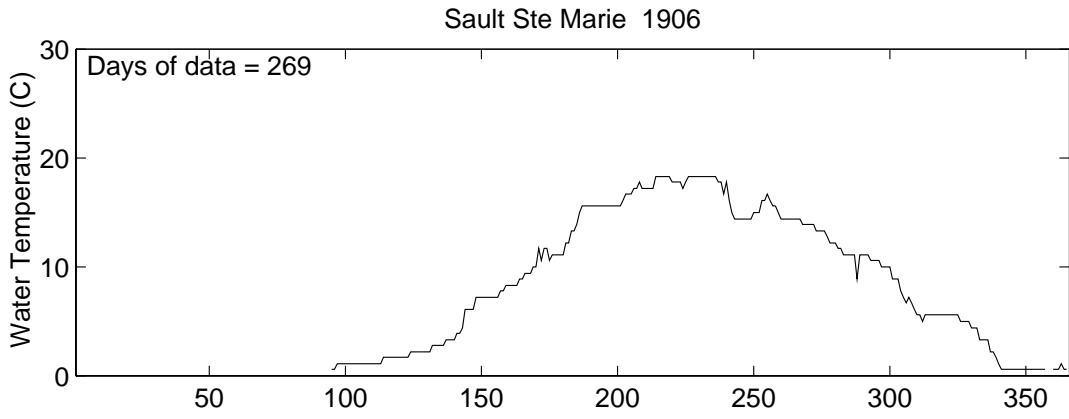
This technical memorandum contains data for Sault Ste. Marie, Michigan. The water temperature data shown in the following figures were collected at the Hydro Plant in Sault Ste. Marie, Michigan. The data set is from 1906 to 1992. The data from 1957 through 1992 were provided by the U.S. Army Corps of Engineers at Sault Ste. Marie. Data were hand recorded from a Taylor thermometer once daily at 08:00 h. The temperature sensor is located at the Hydro Plant intake gate slot about 6 m below the surface.

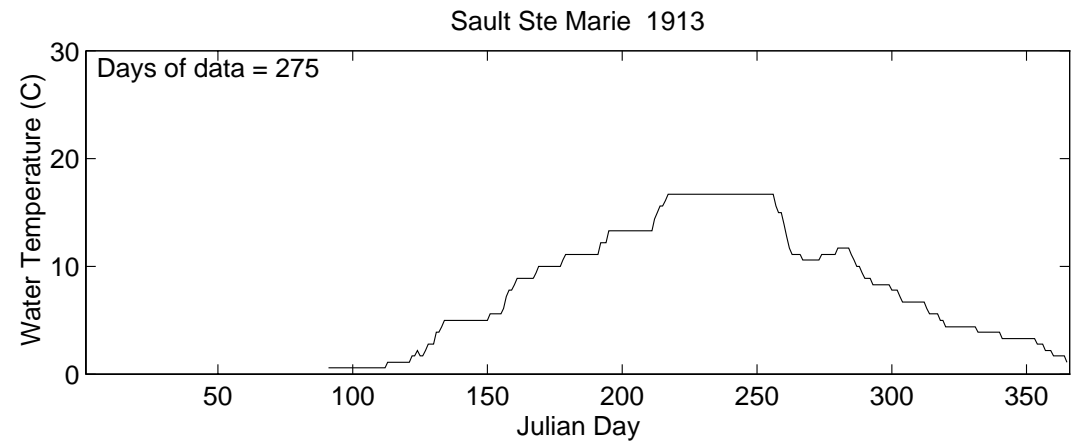
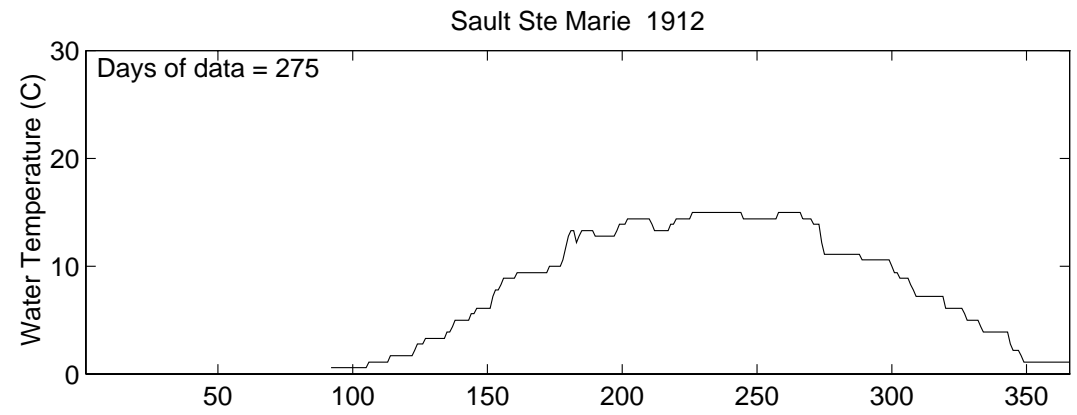
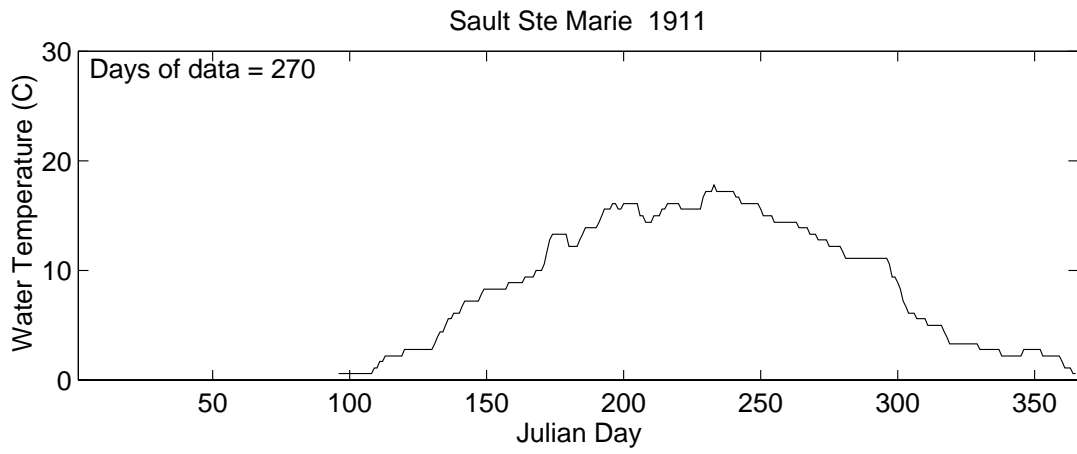
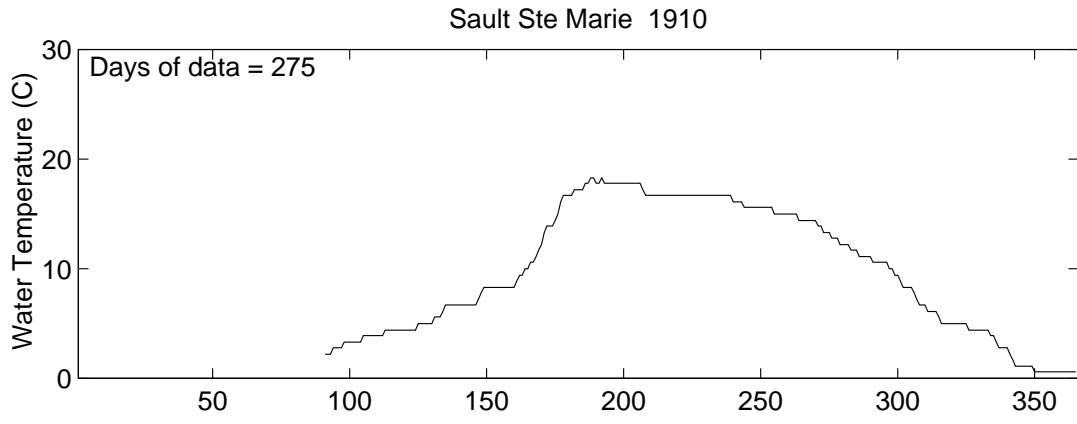
The data are plotted and shown in the accompanying figures. The number of days of available data is written on each plot. Prior to final plotting, all data were checked for consistency, and all questionable values were deleted. **All missing data are denoted by -999.**

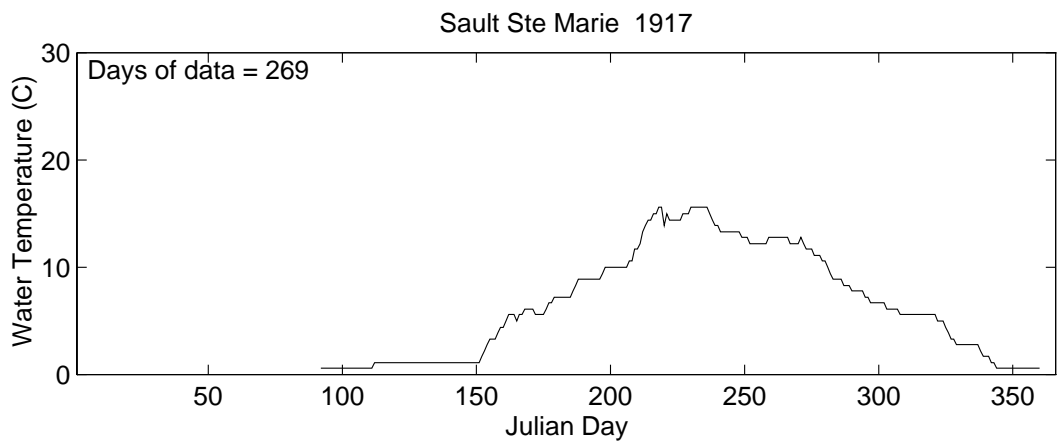
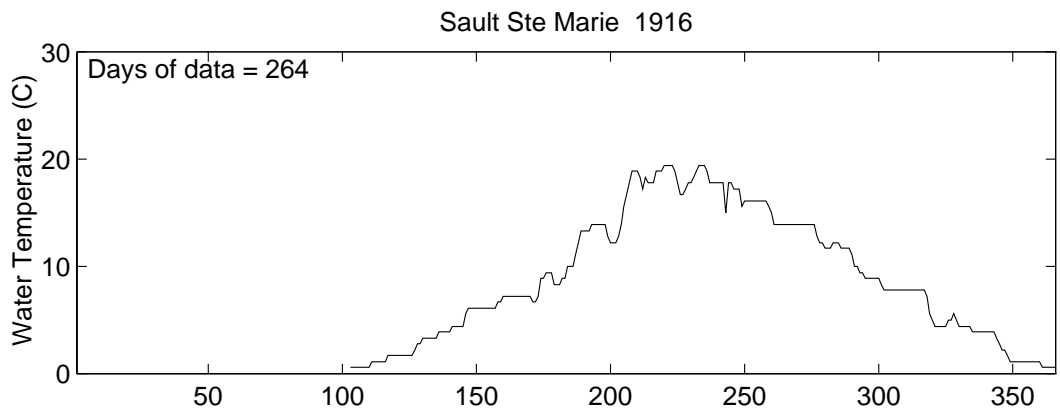
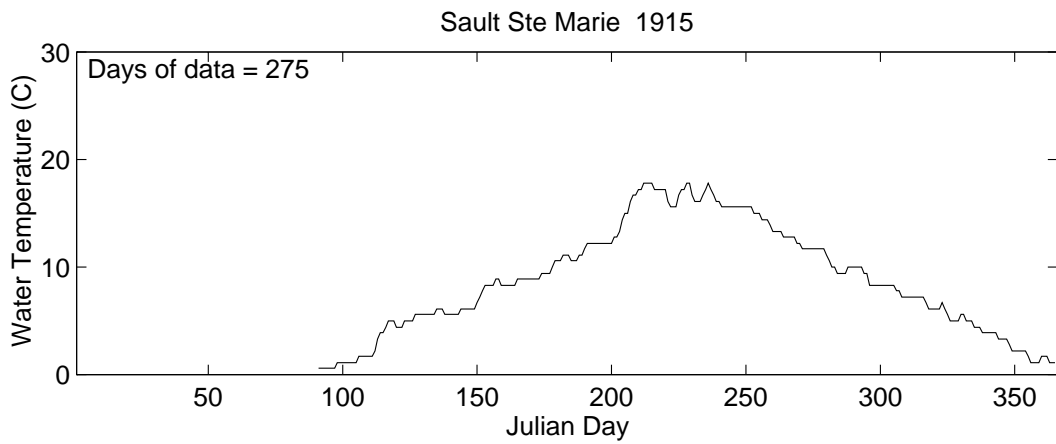
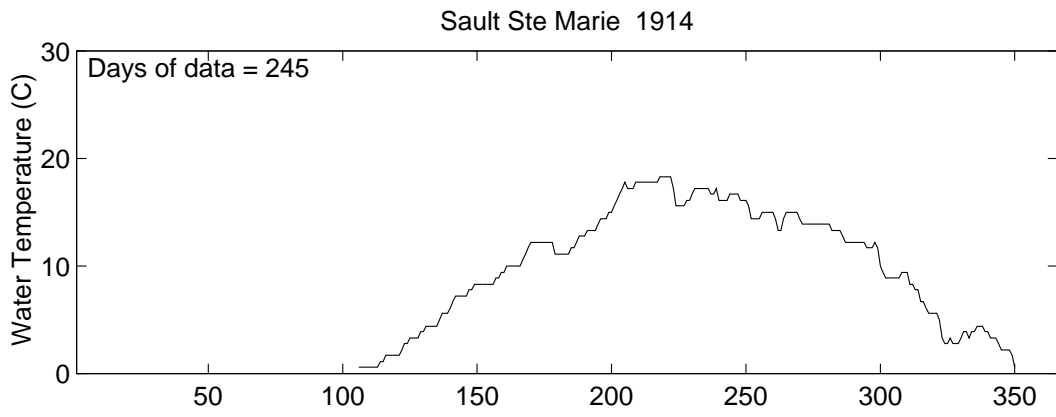
Data files are identified as TM099Dxx.edt where the xx identifies the data year. Data are organized into four columns: month, day, year, and temperature. Although the data are reported to the nearest 0.1°C, a more reasonable estimate of their accuracy is 0.5°C given all the uncertainties with the raw data.

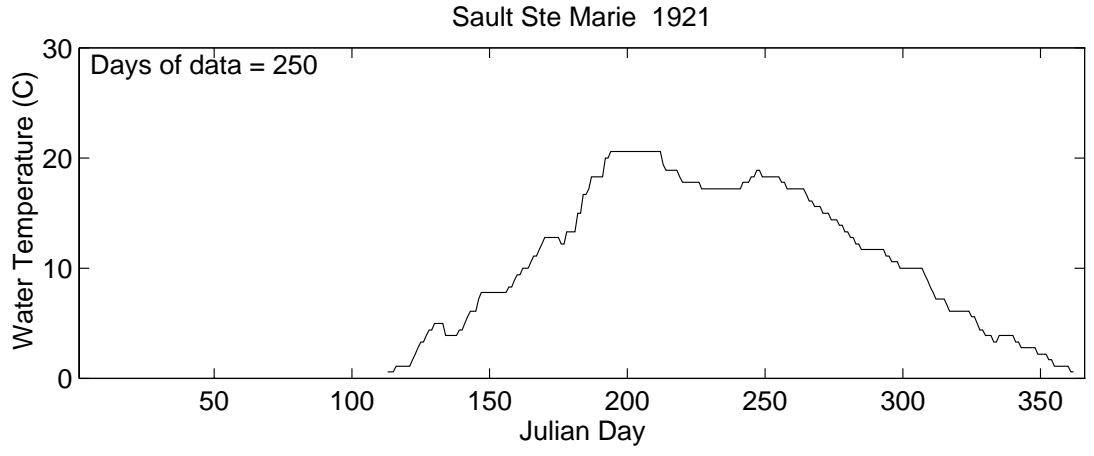
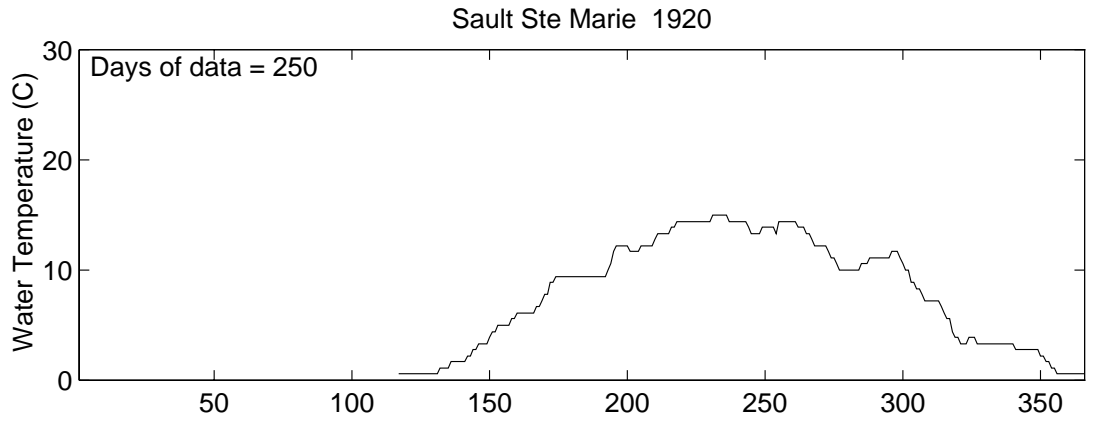
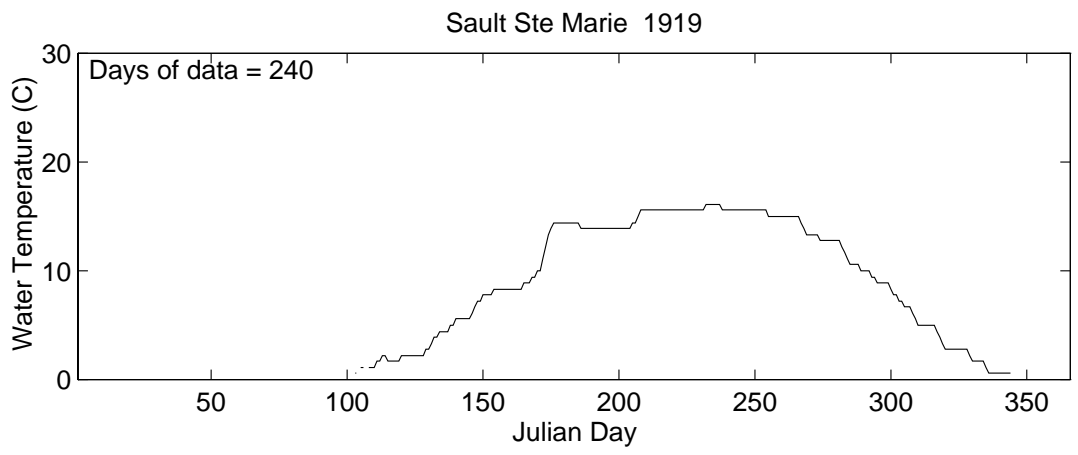
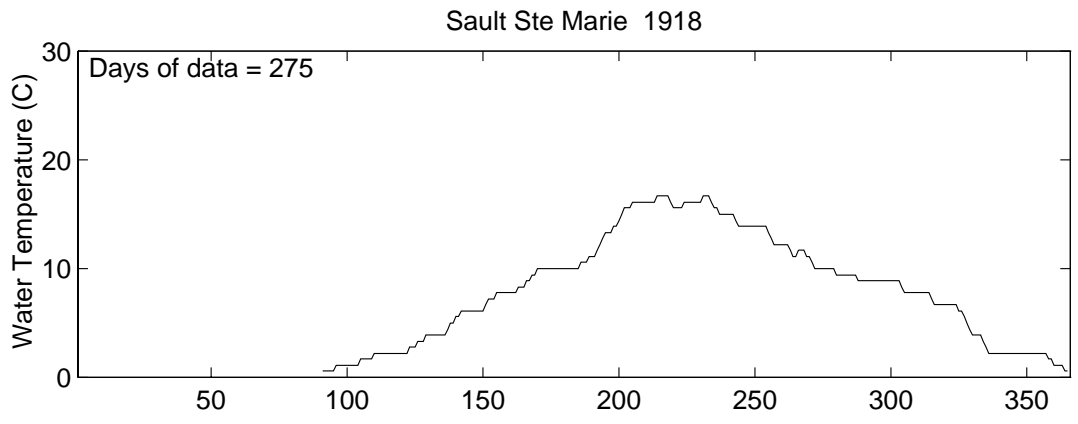
All data are available in a simple ASCII format. The data files are available on our WWW site or from our anonymous FTP site. From the GLERL home page (www.glerl.noaa.gov) select FTP server, **or** point your browser to: ftp://ftp.glerl.noaa.gov/publications/tech_reports/glerl-99.

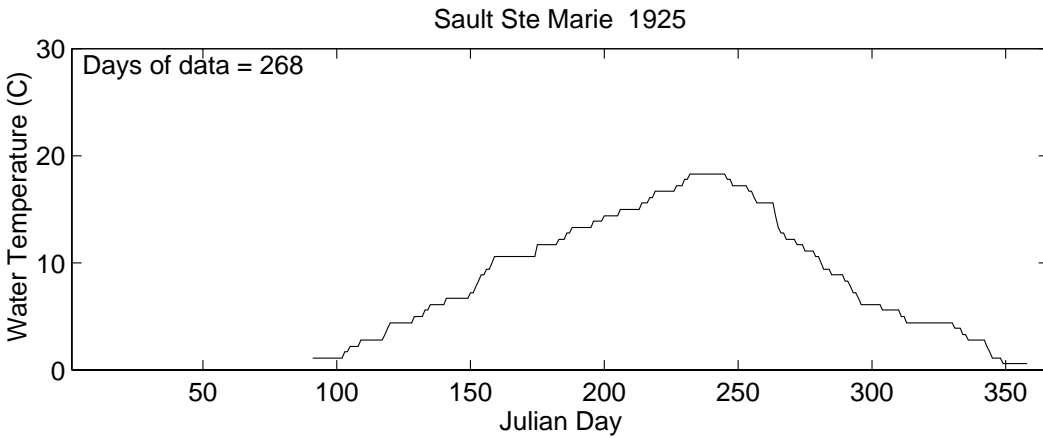
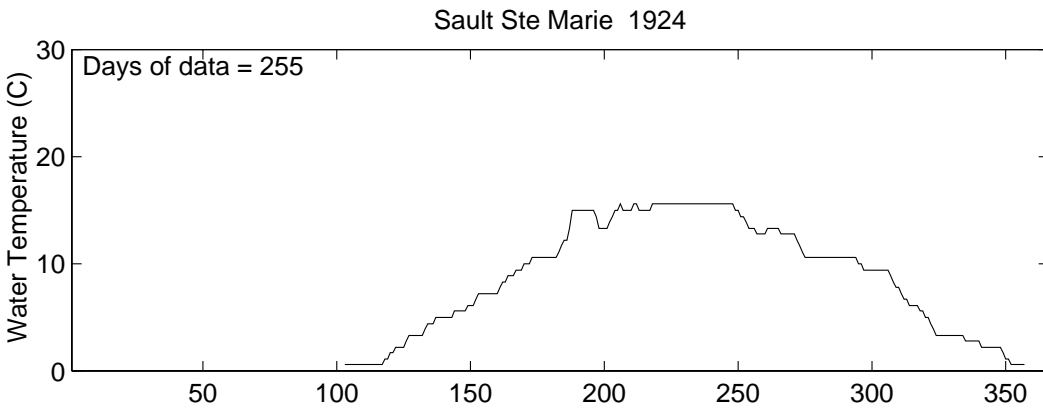
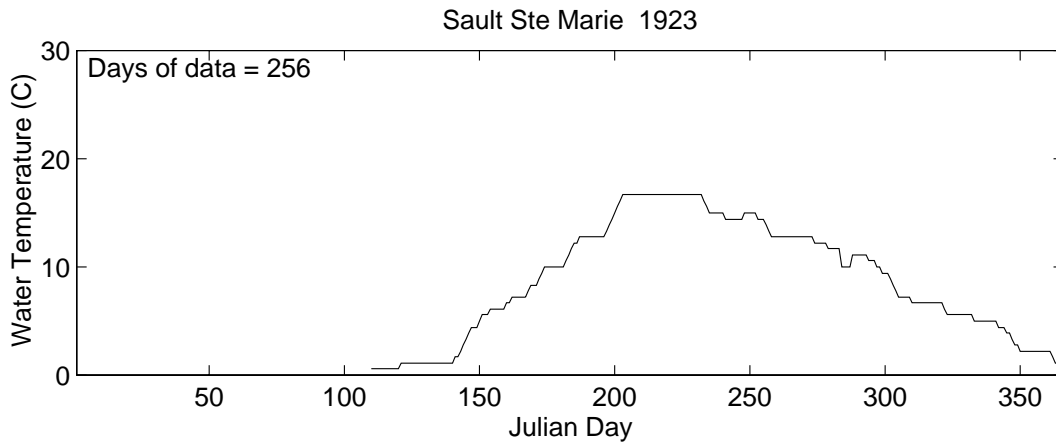
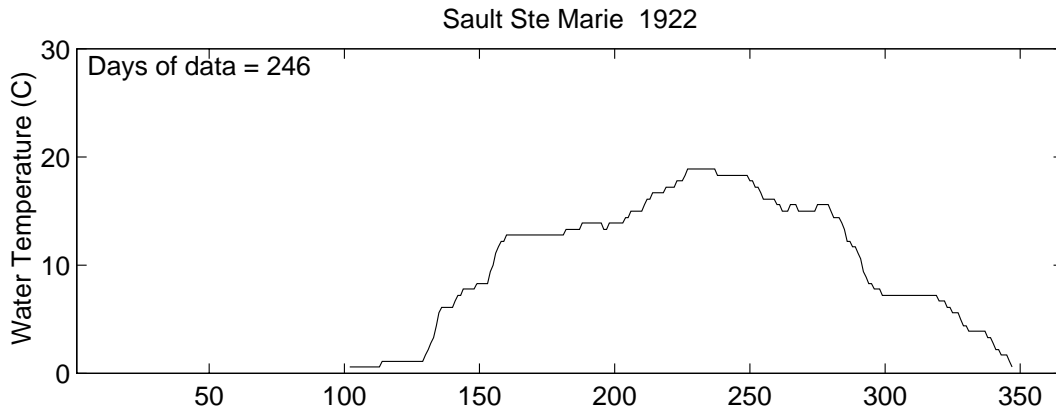
Although great care has been used in checking these data, mistakes may still be present. If errors are found, please contact the author at michael.mccormick@noaa.gov.

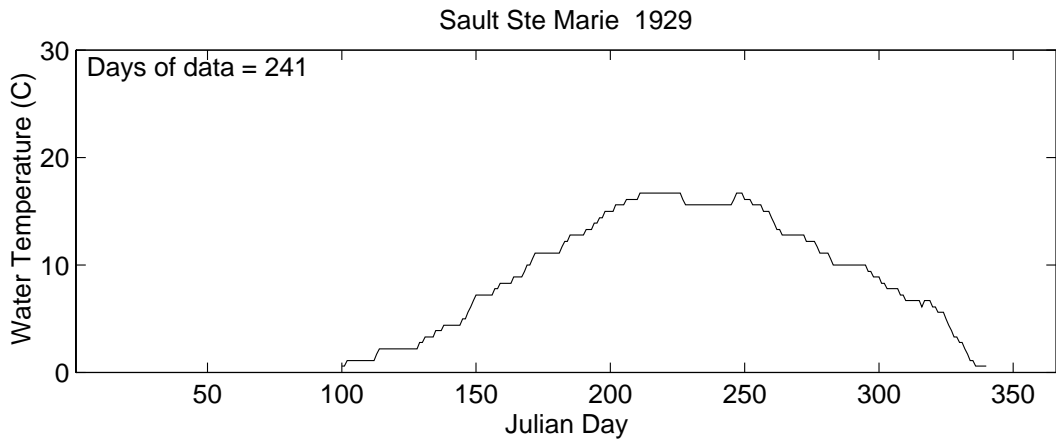
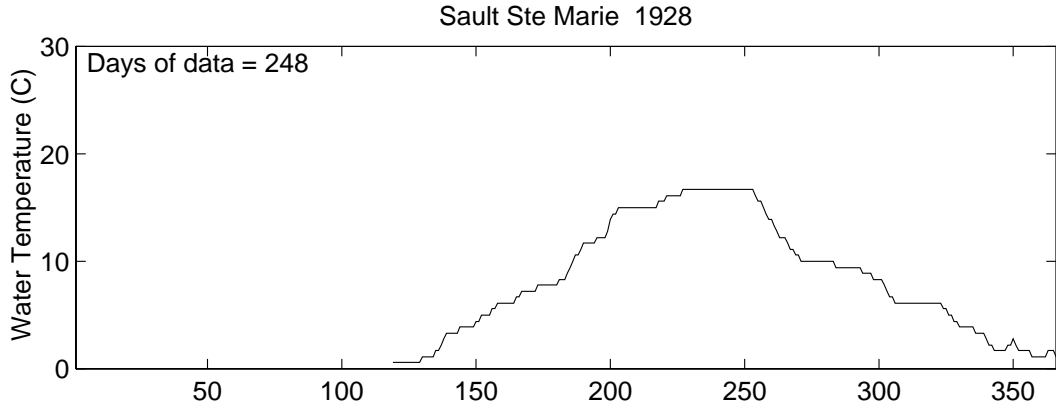
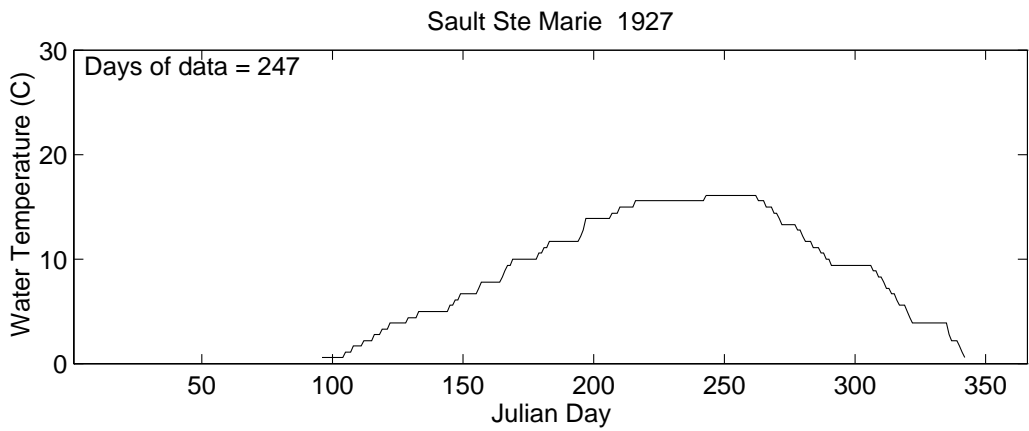
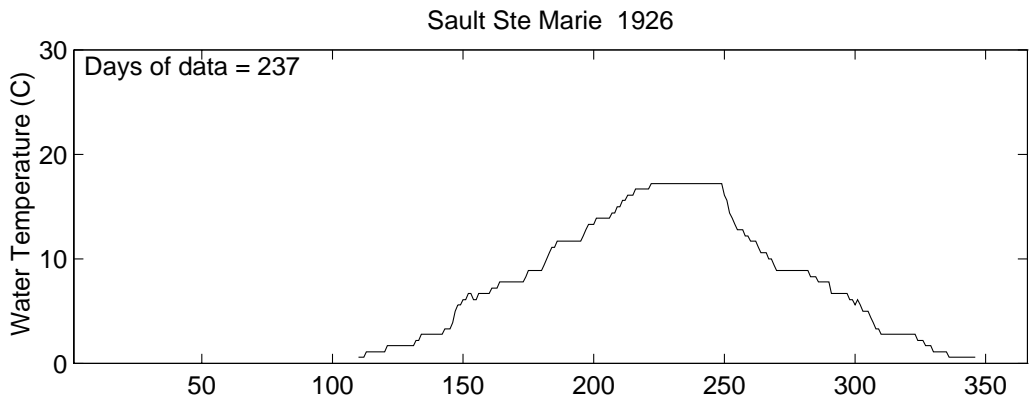


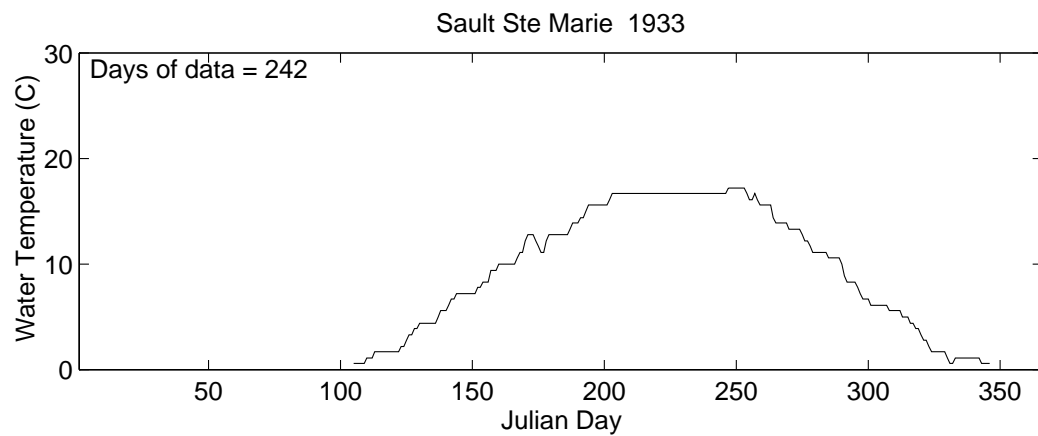
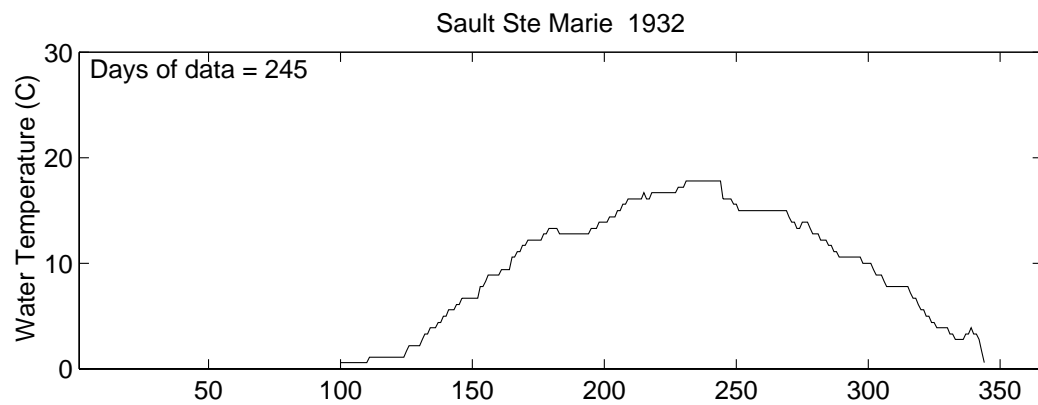
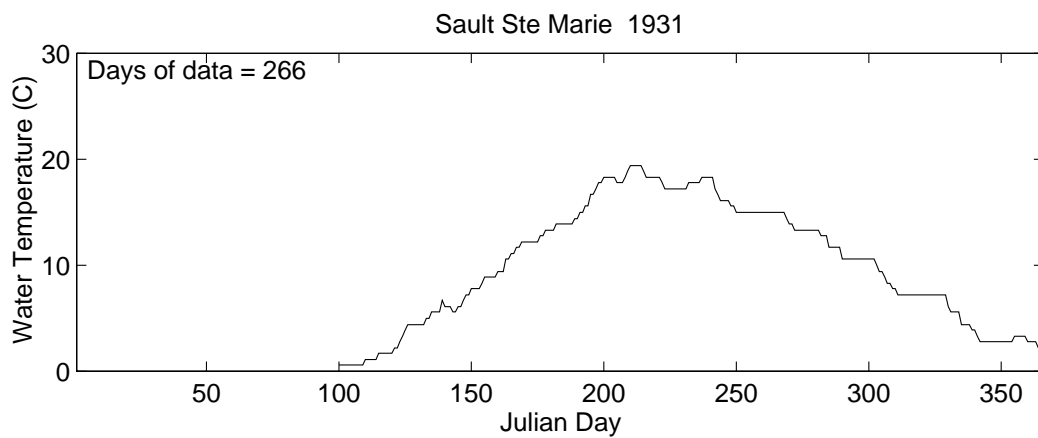
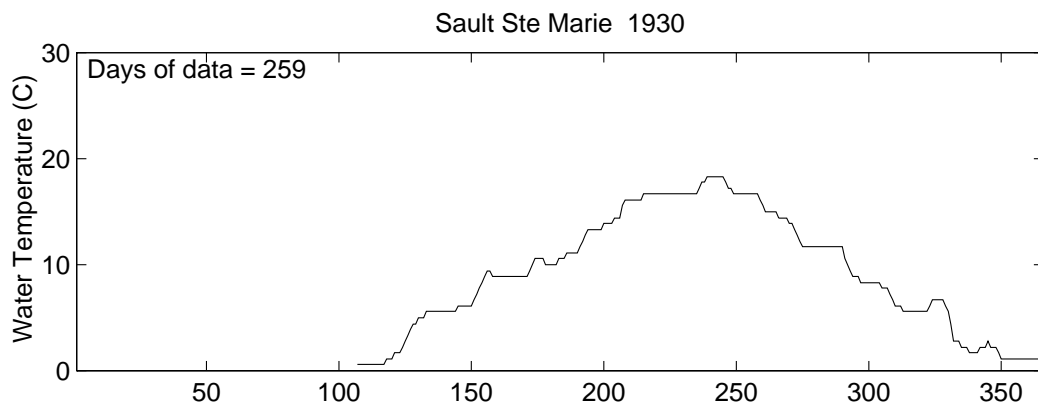


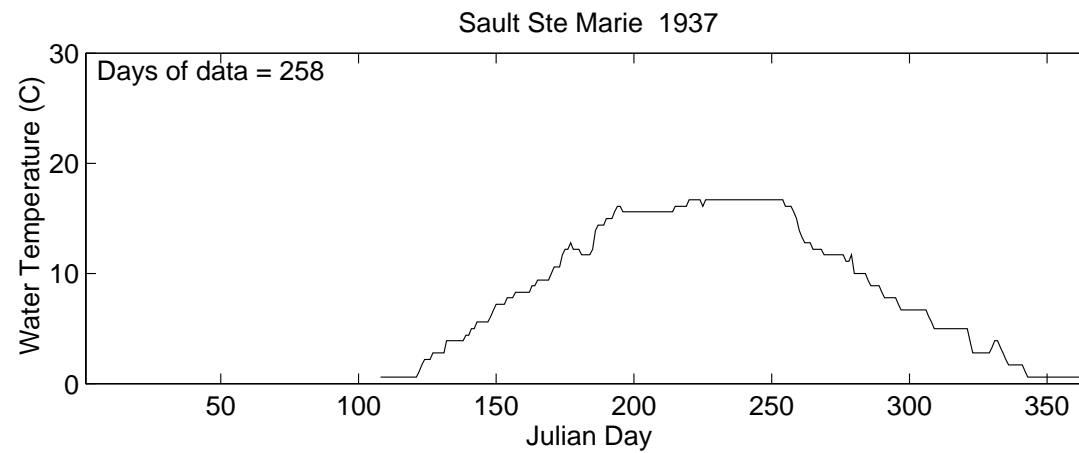
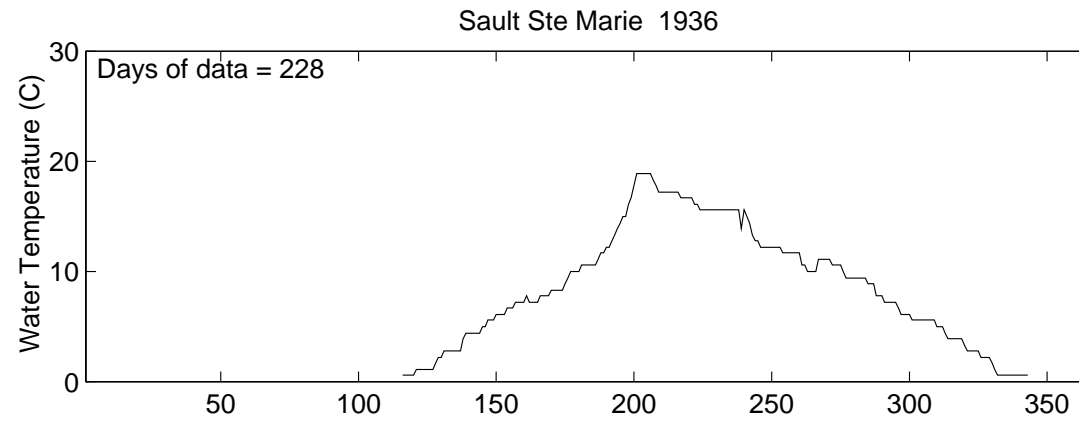
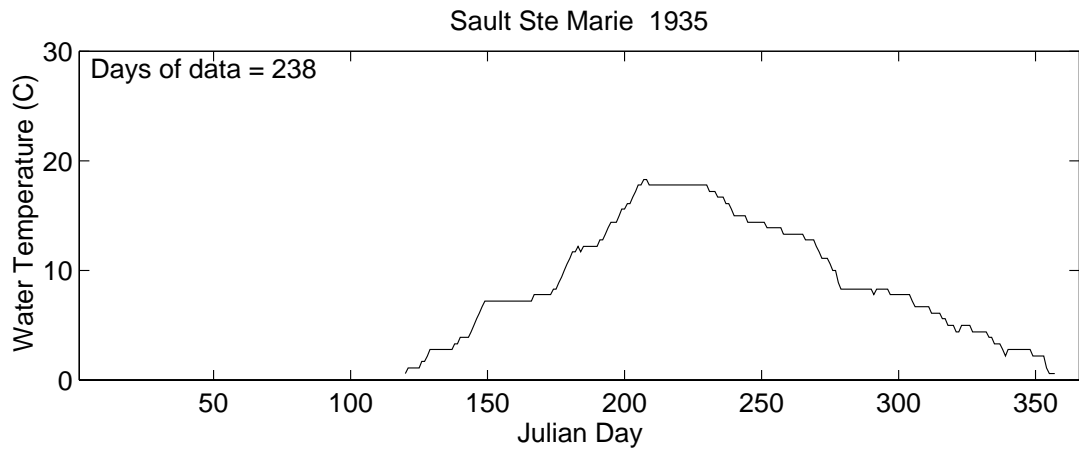
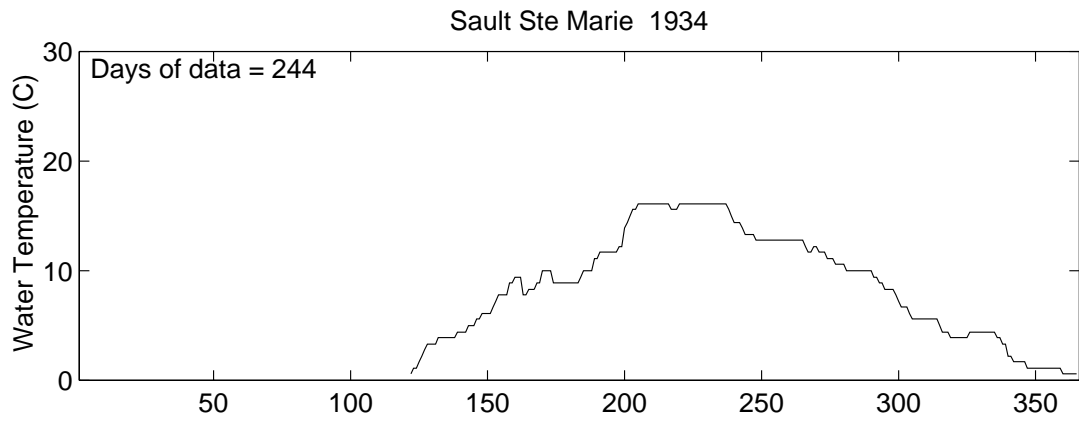


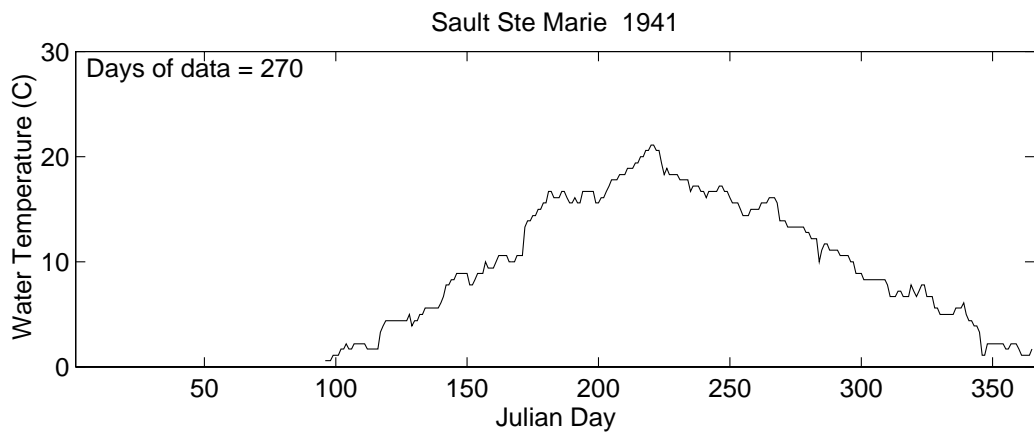
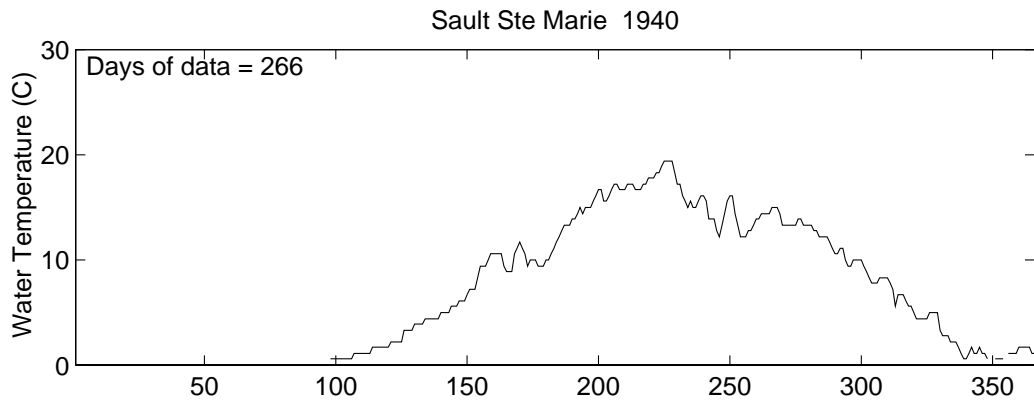
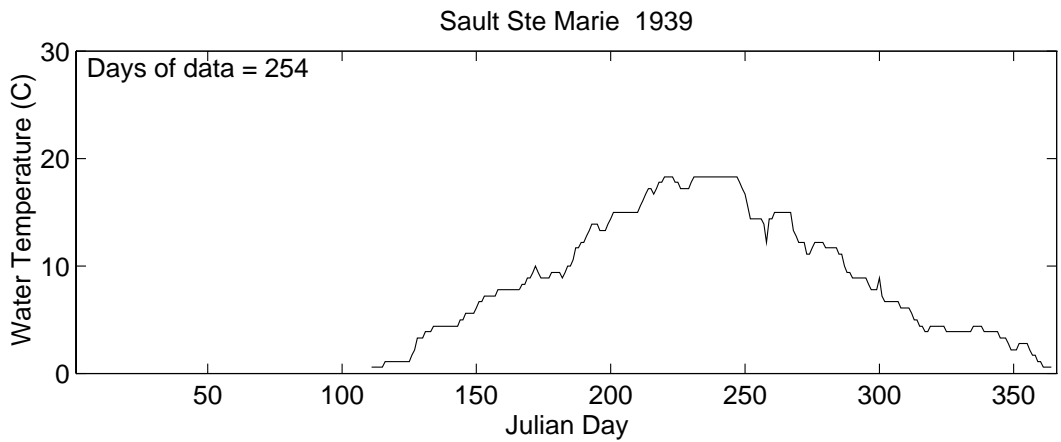
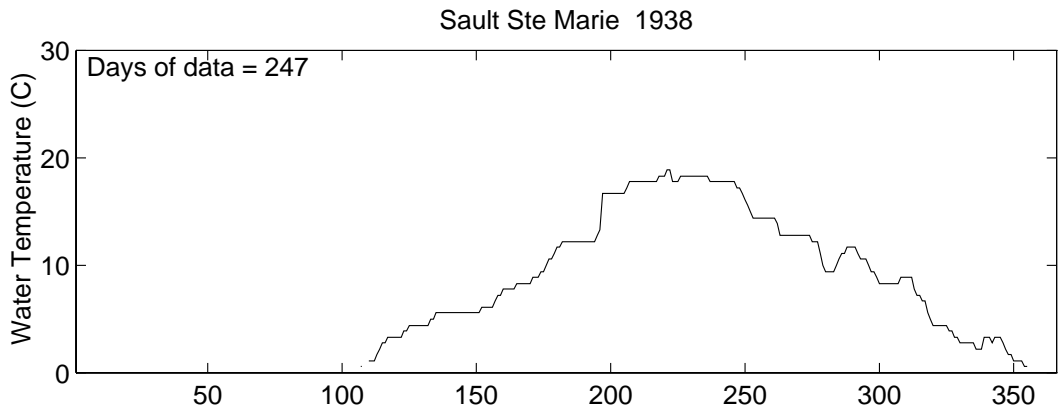


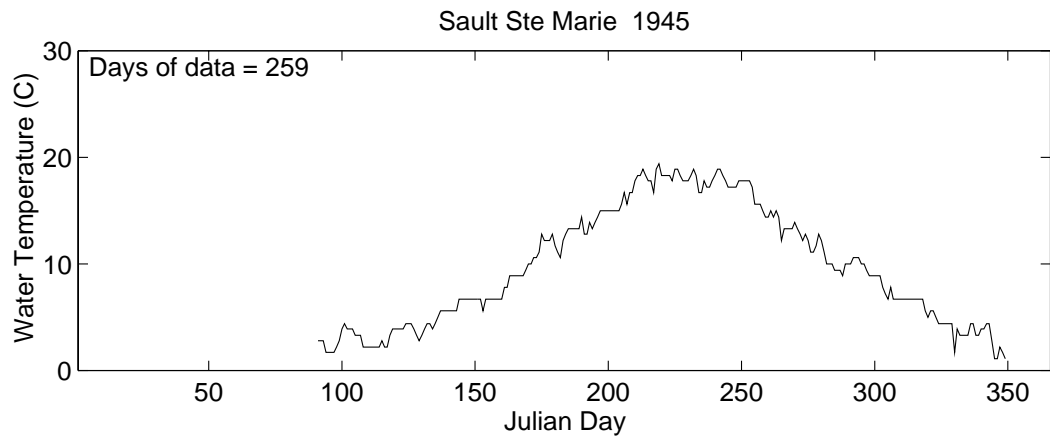
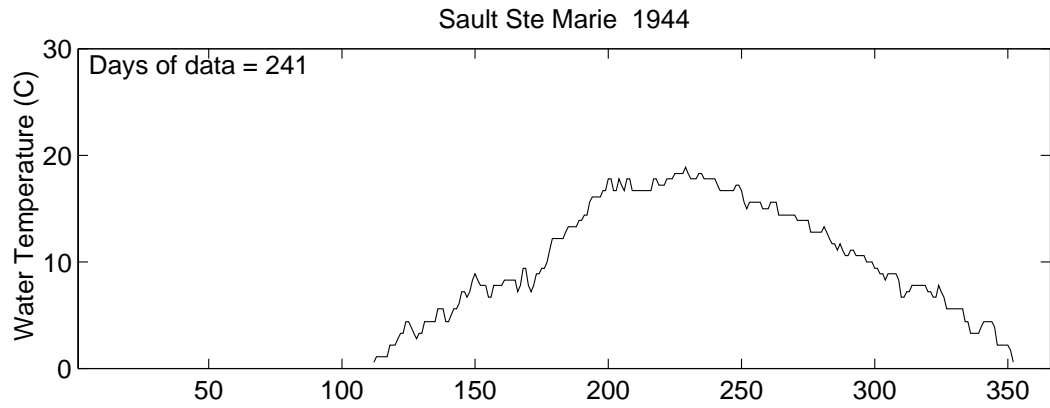
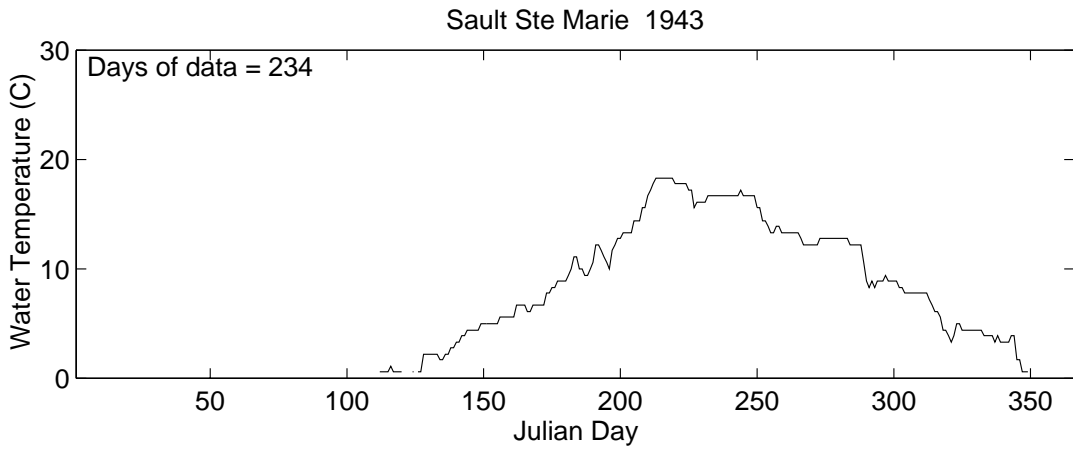
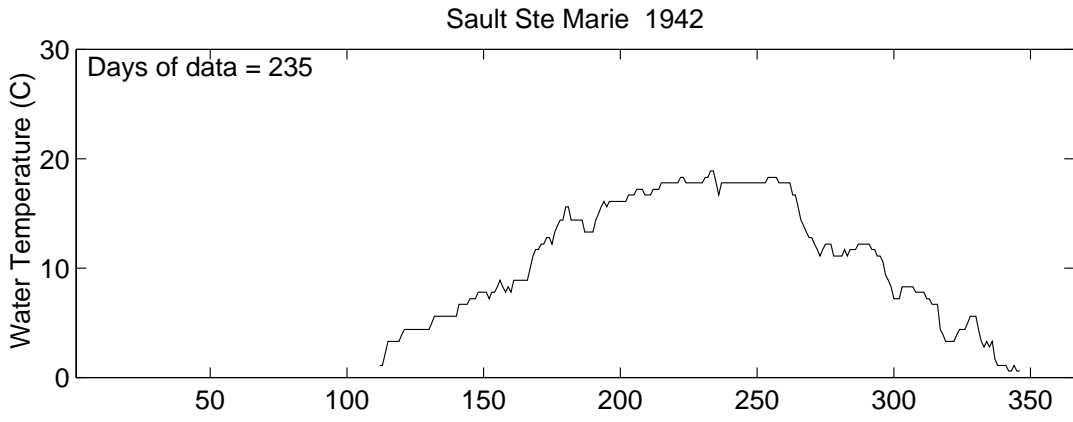


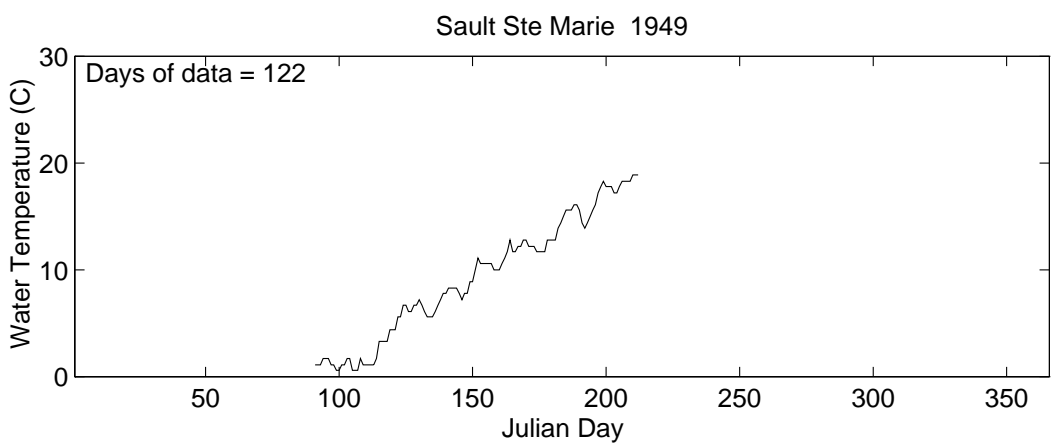
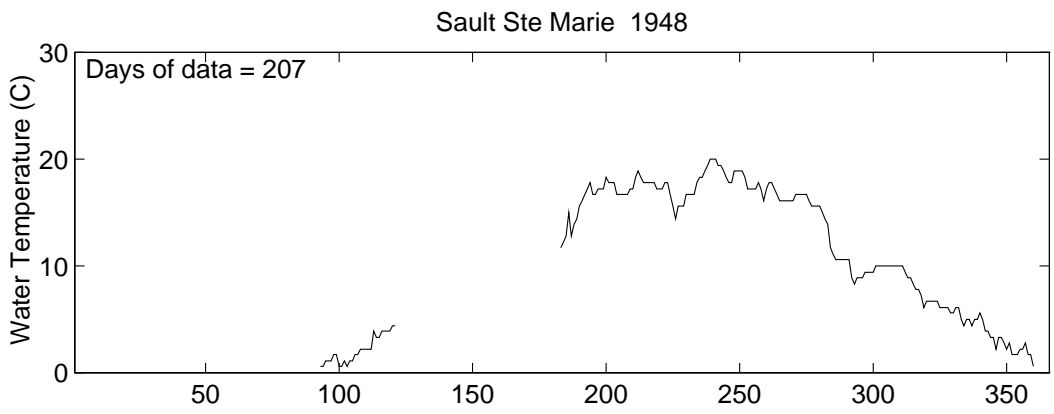
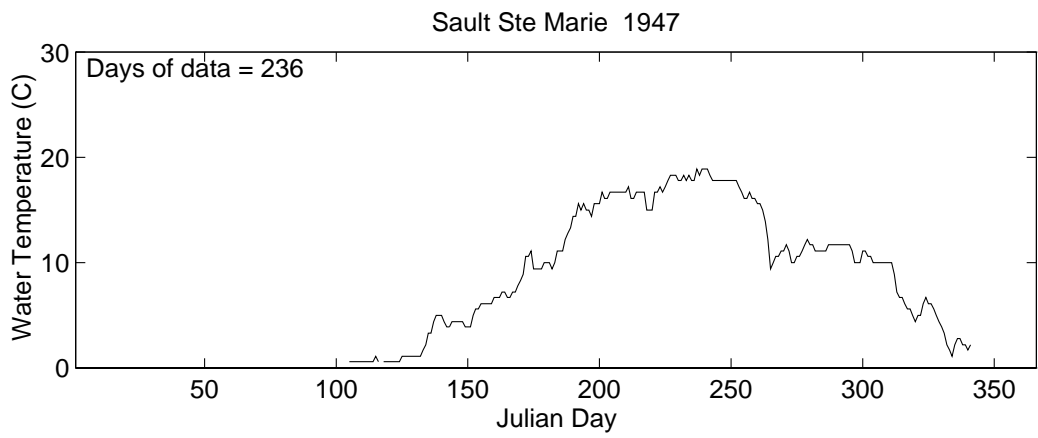
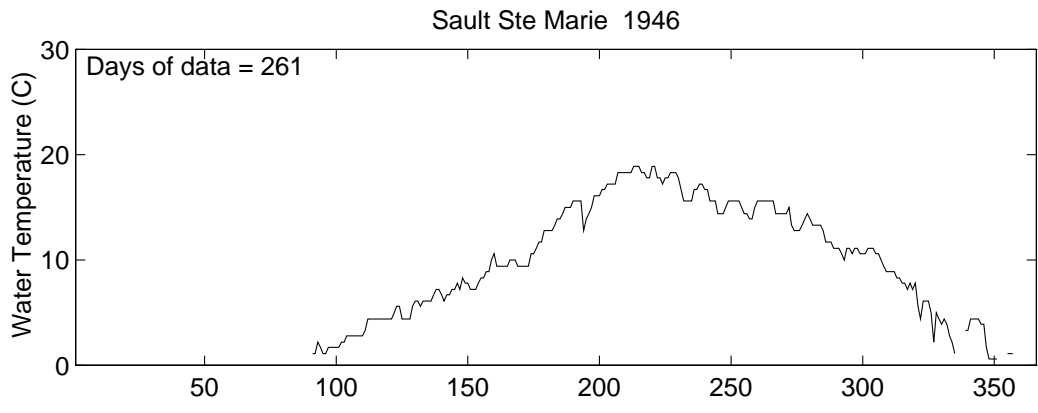


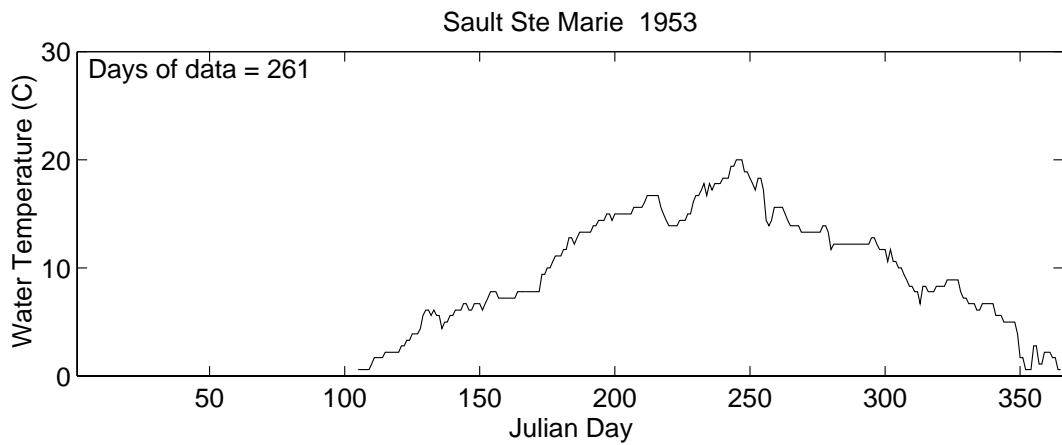
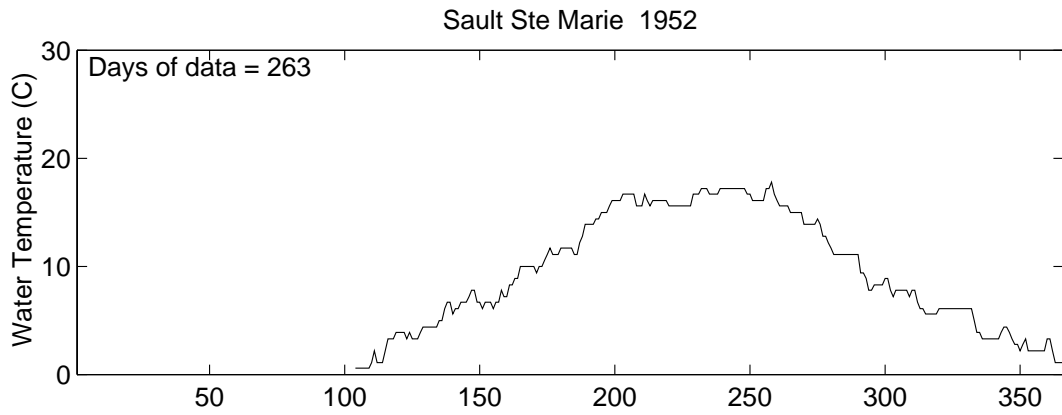
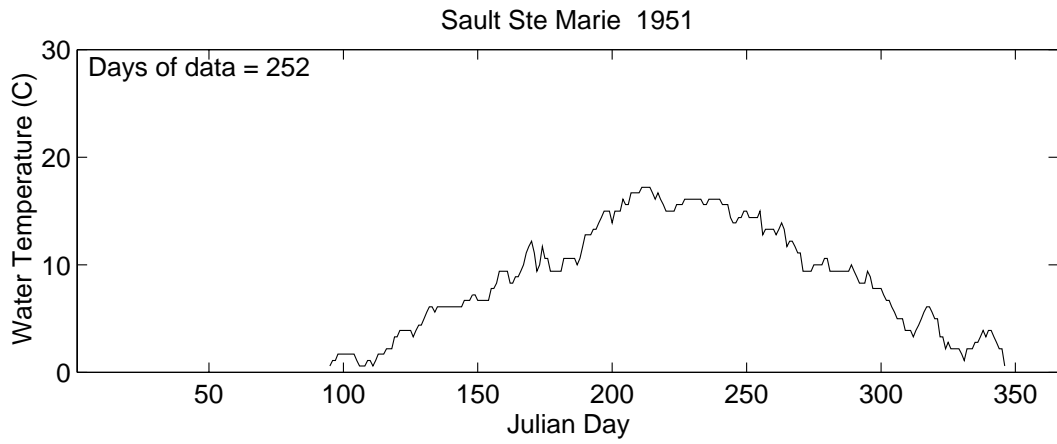
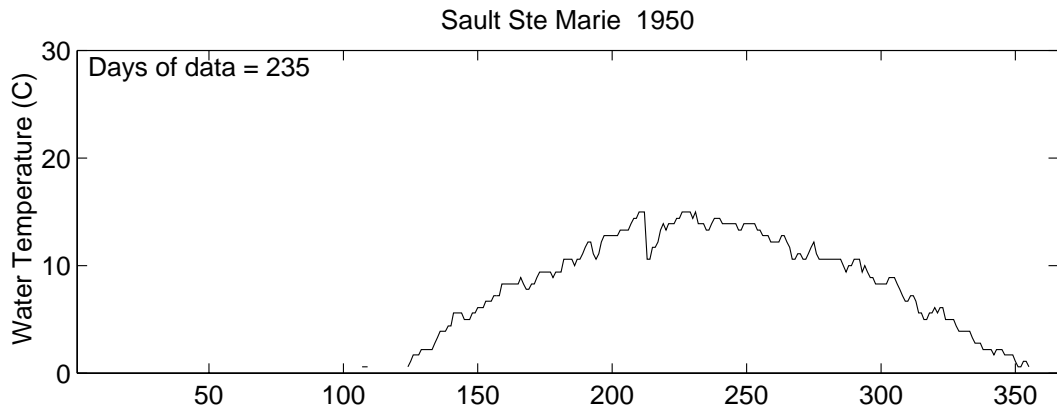


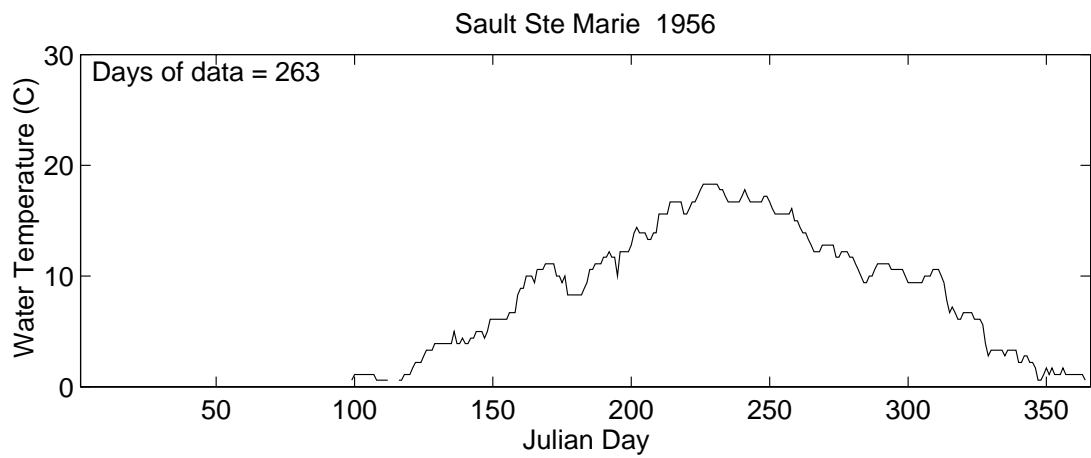
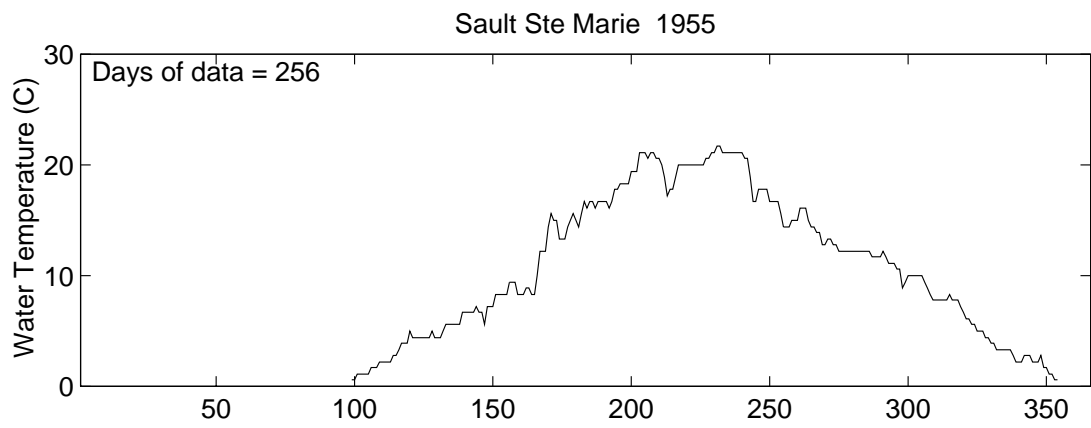
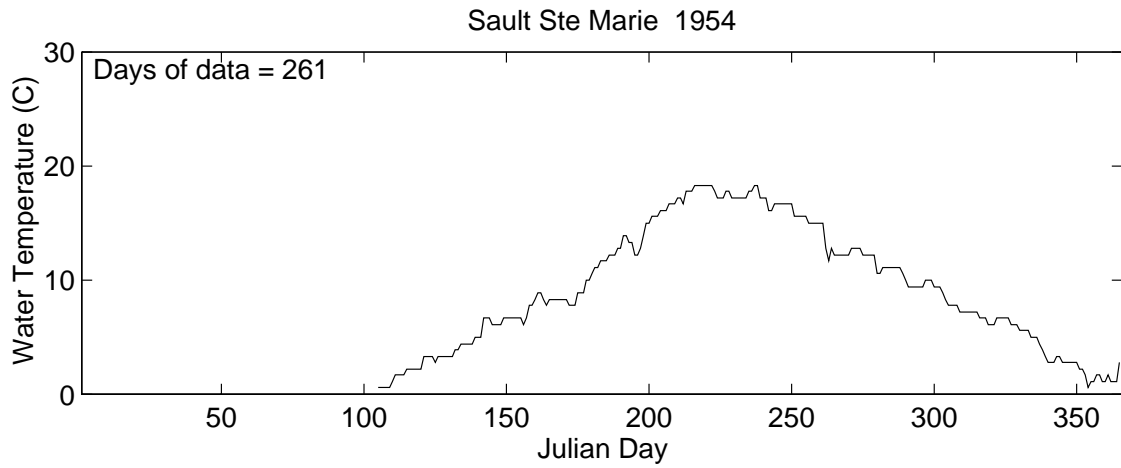




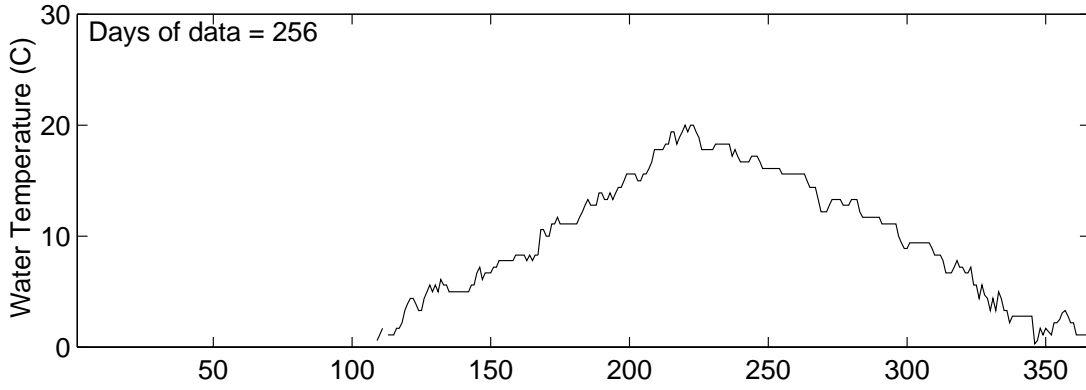




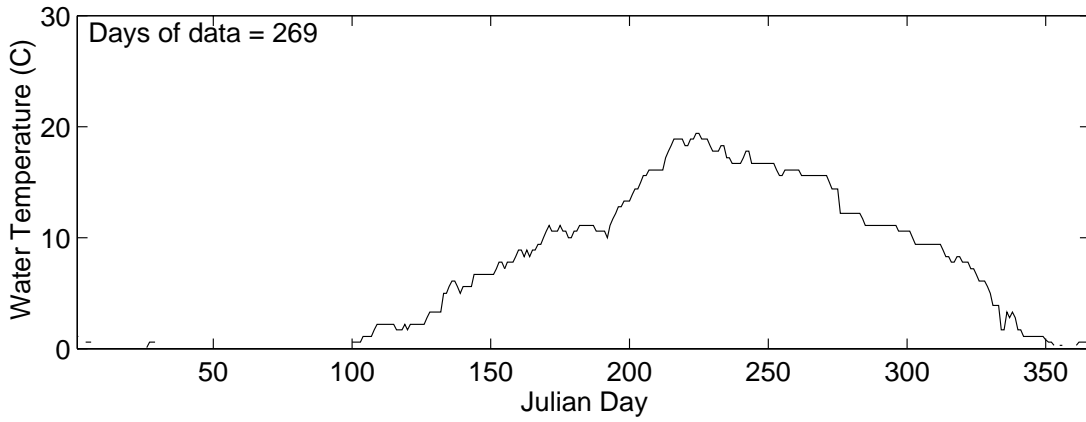




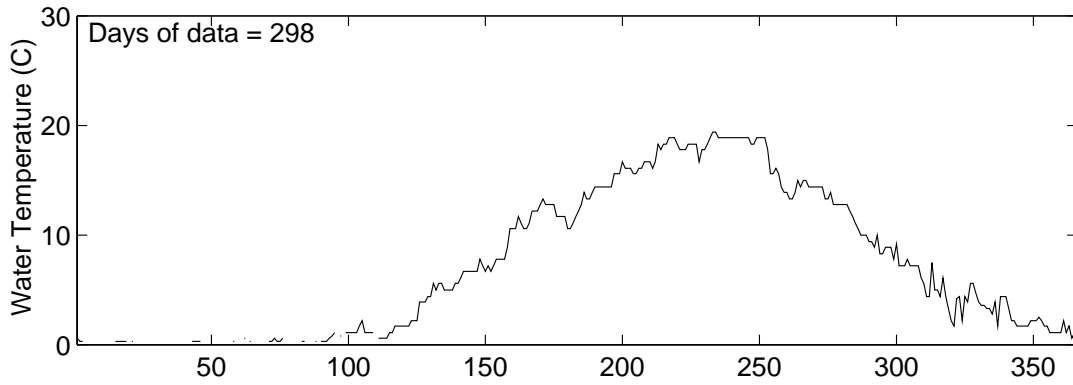
Sault Ste Marie 1957



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