

NOAA Technical Memorandum ERL GLERL-94



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**LAKE ERIE WATER TEMPERATURE DATA  
ERIE, PENNSYLVANIA 1916-1992**

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Ann Arbor, Michigan  
August 1996



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# NOAA Technical Memorandum ERL GLERL-94

## LAKE ERIE WATER TEMPERATURE DATA ERIE, PENNSYLVANIA 1916-1992

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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 Erie, PA from 1916-1992. Water temperature data are from Erie, Pennsylvania's Chestnut Street plant. The plant superintendent, Mr. John Presogna, facilitated data collation by arranging for some of his staff to enter the data into a computer compatible format.

Data are available from 1916 to 1992. However, no data are available for 1956. A 60" pipe extends about 1.25 miles offshore from the Chestnut Street plant; the intake depth is 27-30' below the surface. Originally, the intake pipe was located in the Bay, but a new pipe was built in the early part of this century because of water quality concerns with respect to cholera. In 1908, the pipe was tunneled under the peninsula that forms the bay.

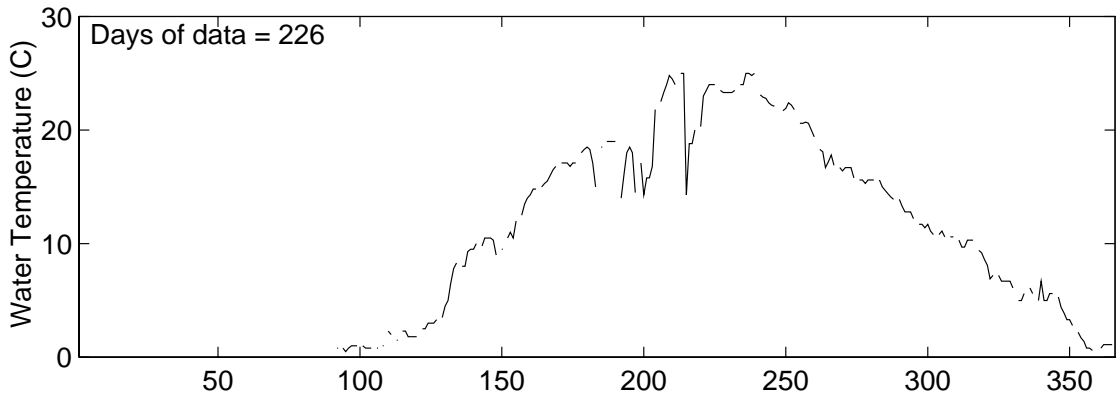
Water temperatures are taken in the plant six times a week (never on Sunday) between 08:00 and 09:00 h. However, this was not the case for 1959-1963 and 1979-1981 when significantly more data were available. The data are plotted and shown in the accompanying figures. Prior to final plotting all data were checked for consistency, and all questionable values were deleted **All missing data are denoted by -999.**

Data files are identified as TM094Dxx.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.

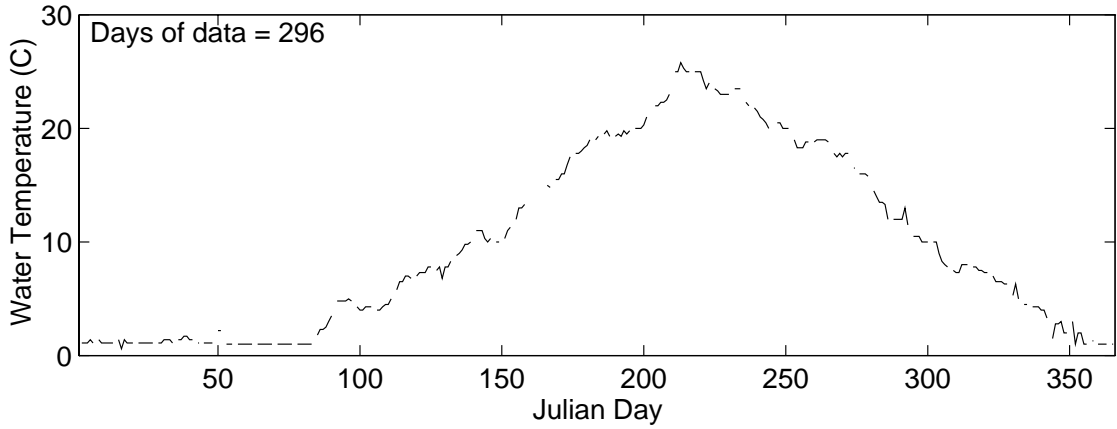
All data are available in a simple ASCII format. The data files are available from GLERL's WWW site or from the anonymous FTP site. From the GLERL home page ([www.glerl.noaa.gov](http://www.glerl.noaa.gov)), select FTP server, **or** point your browser to: [ftp://ftp.glerl.noaa.gov/publications/tech\\_reports/glerl-94](ftp://ftp.glerl.noaa.gov/publications/tech_reports/glerl-94).

Although great care has been used in checking these data, mistakes may still be present. If errors are found, please contact the author at [mccormick@glerl.noaa.gov](mailto:mccormick@glerl.noaa.gov).

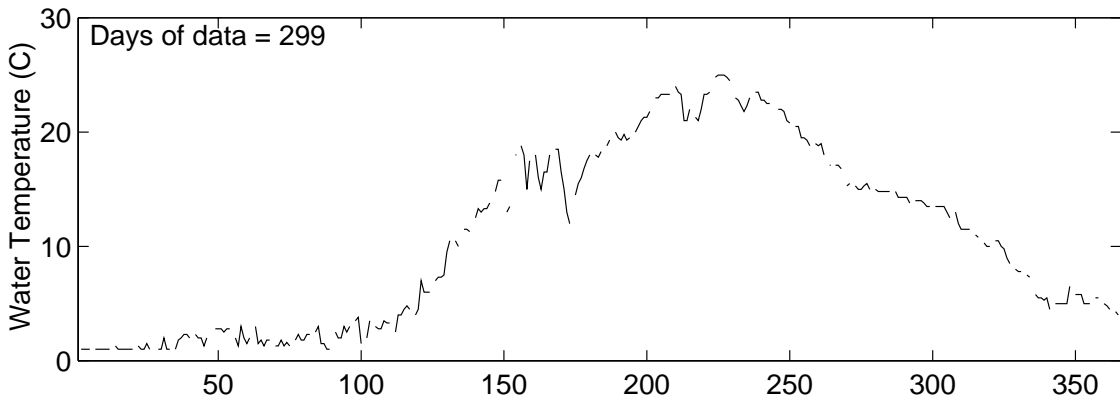
Erie, PA 1916



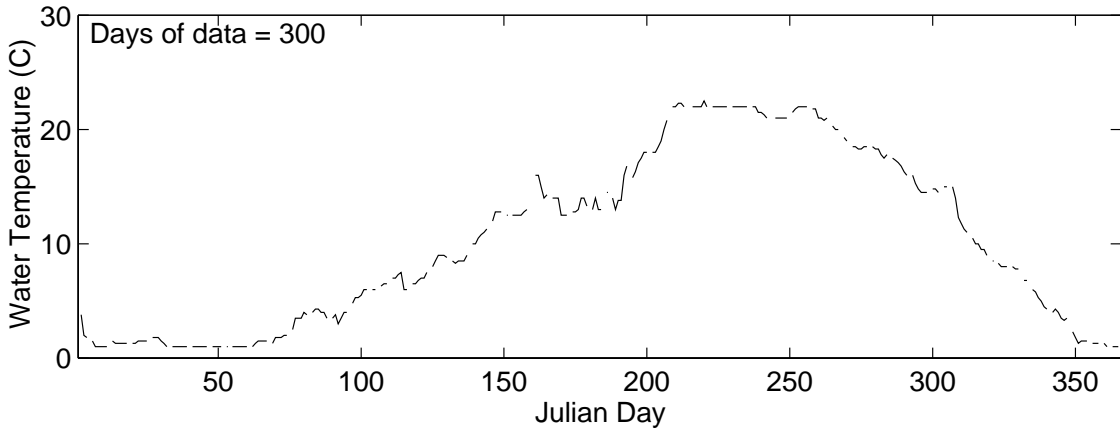
Erie, PA 1917

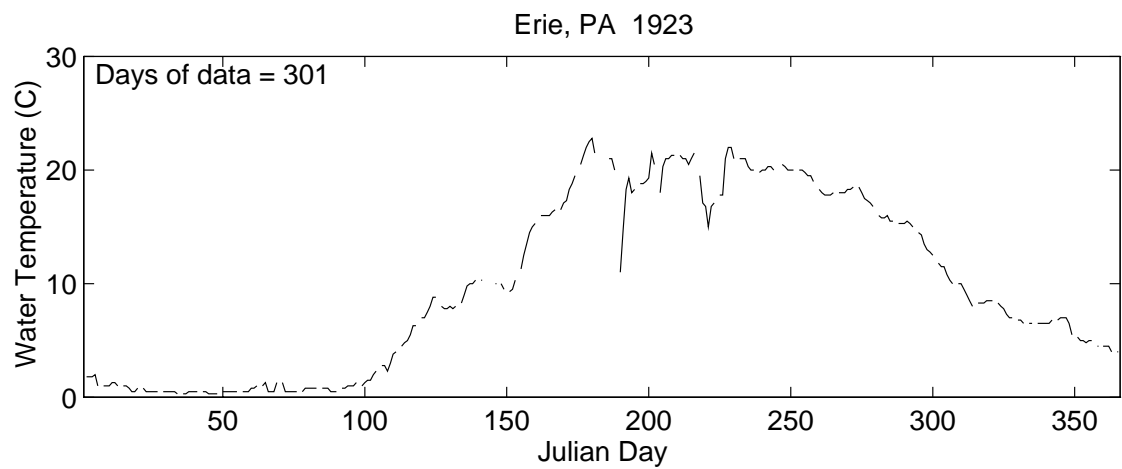
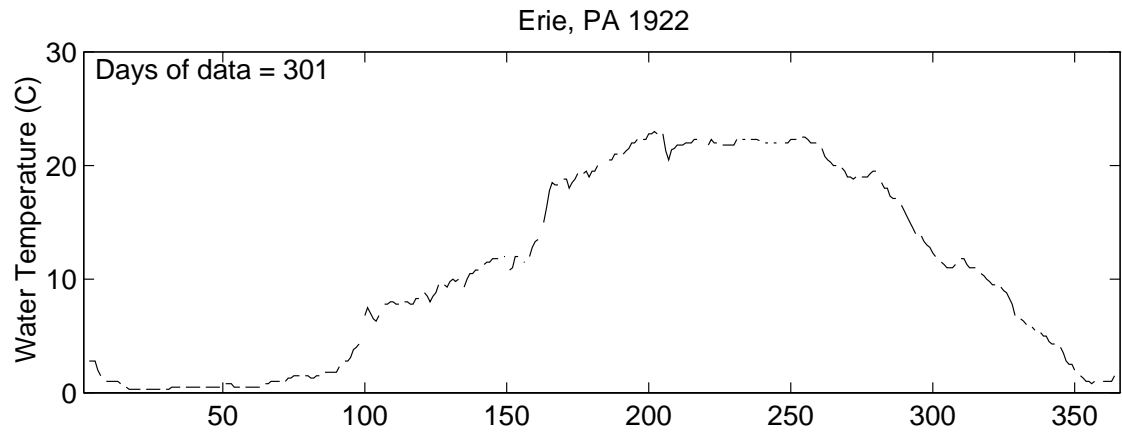
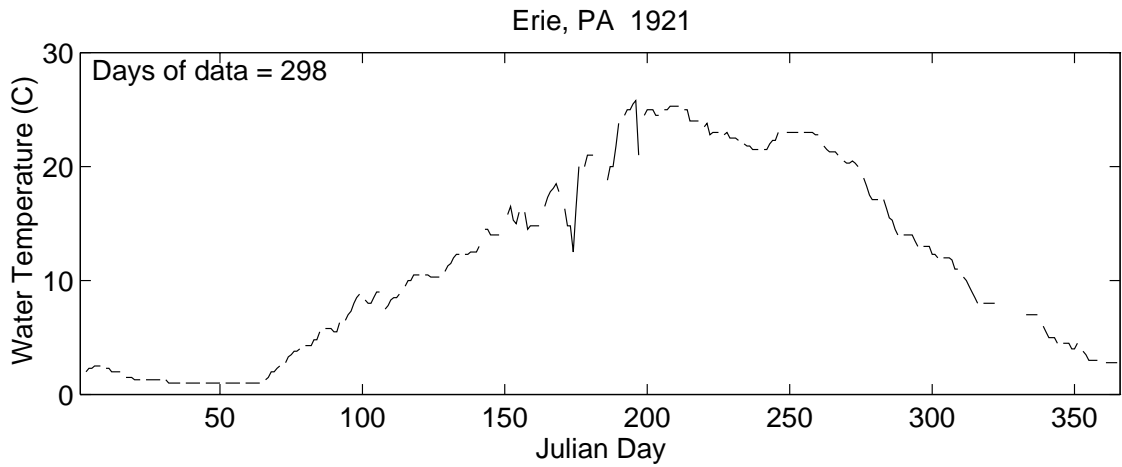
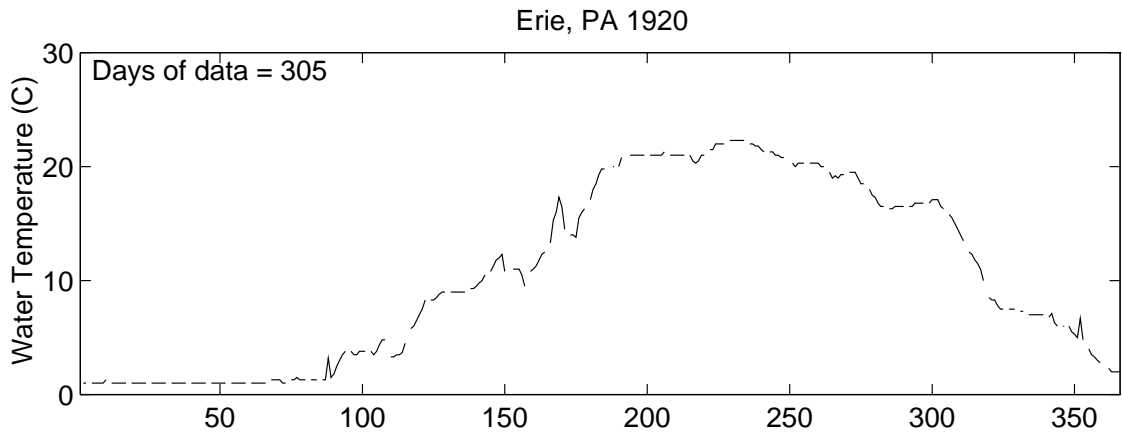


Erie, PA 1918

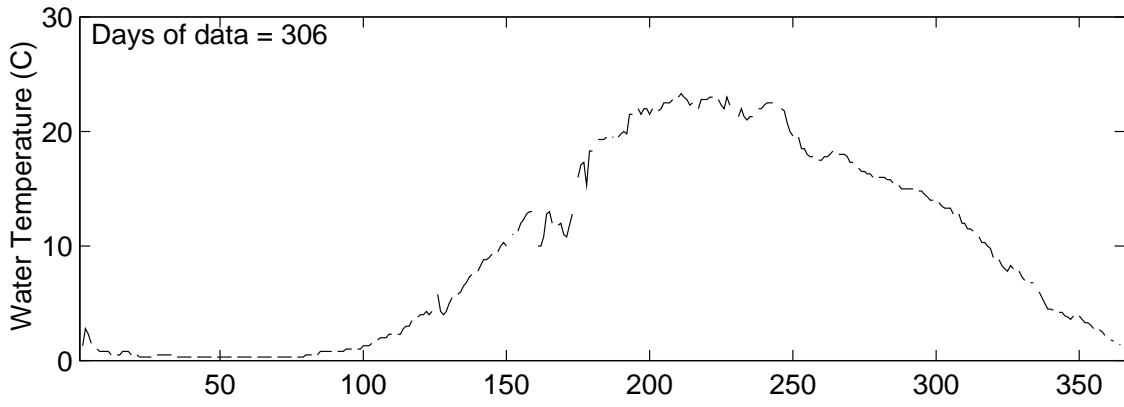


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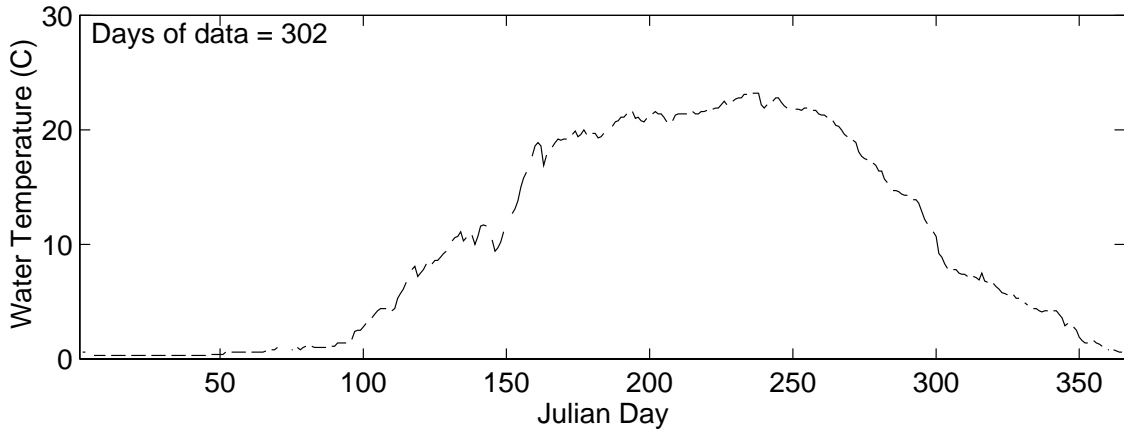




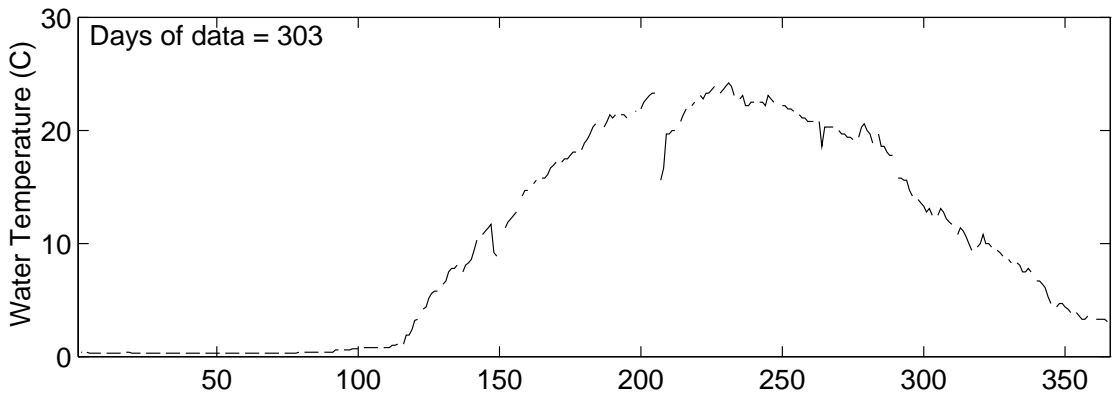
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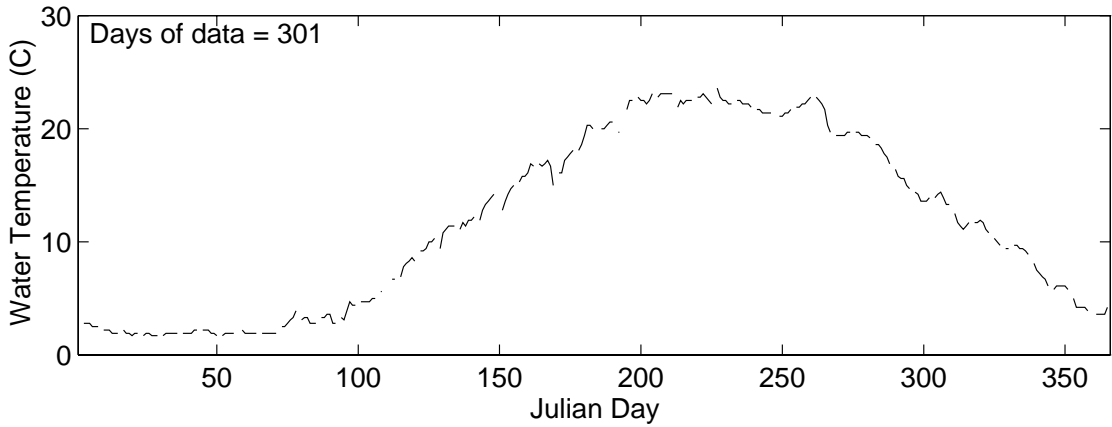
Erie, PA 1925



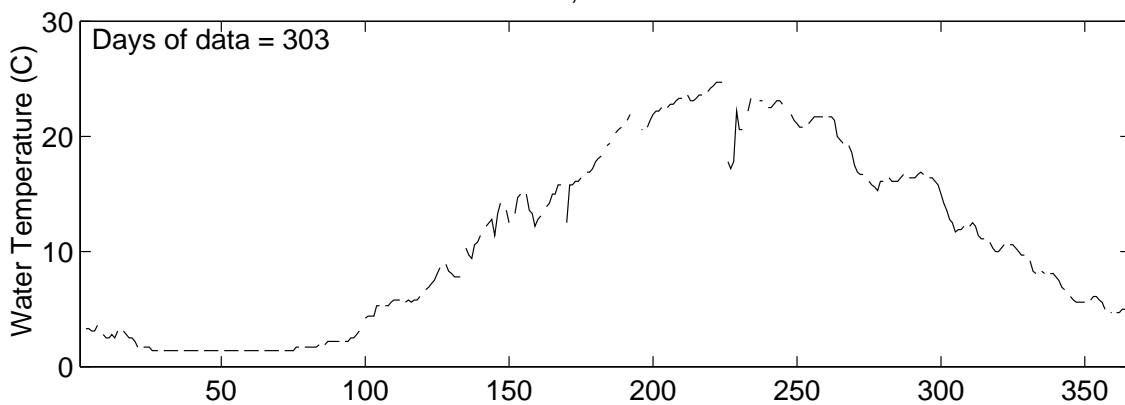
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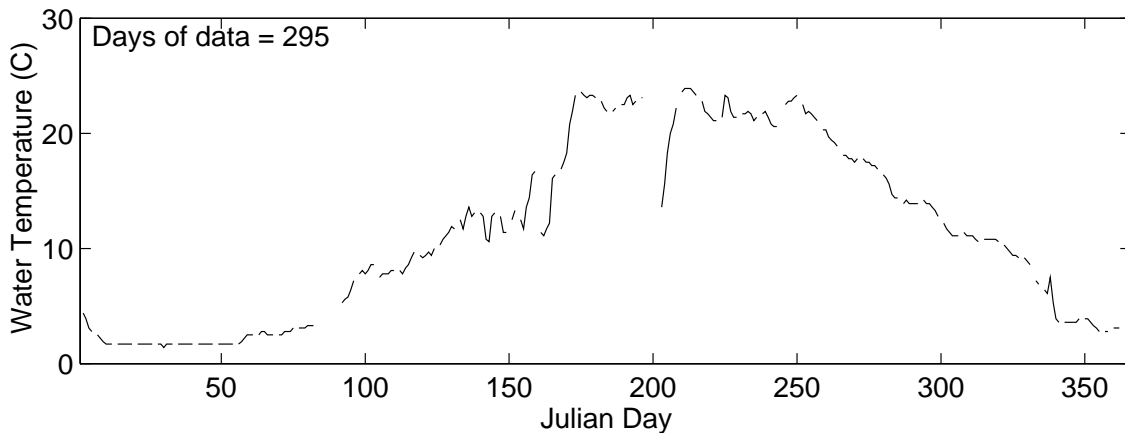
Erie, PA 1927



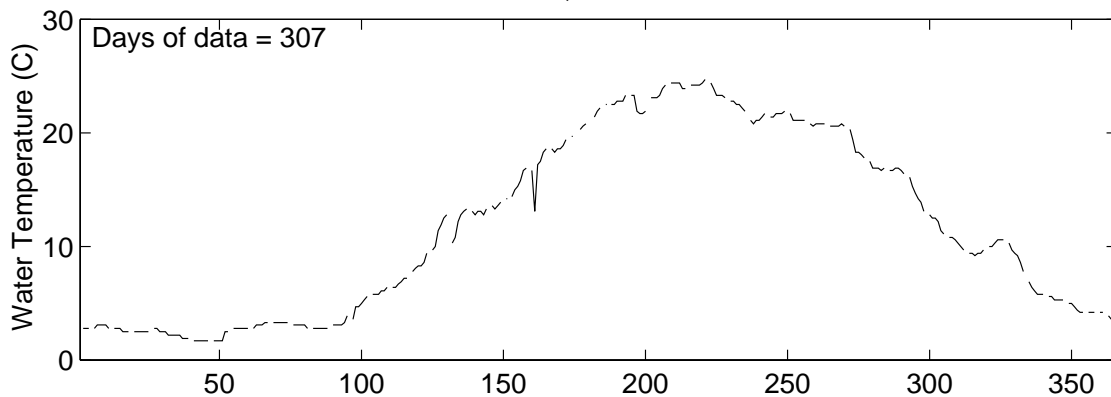
Erie, PA 1928



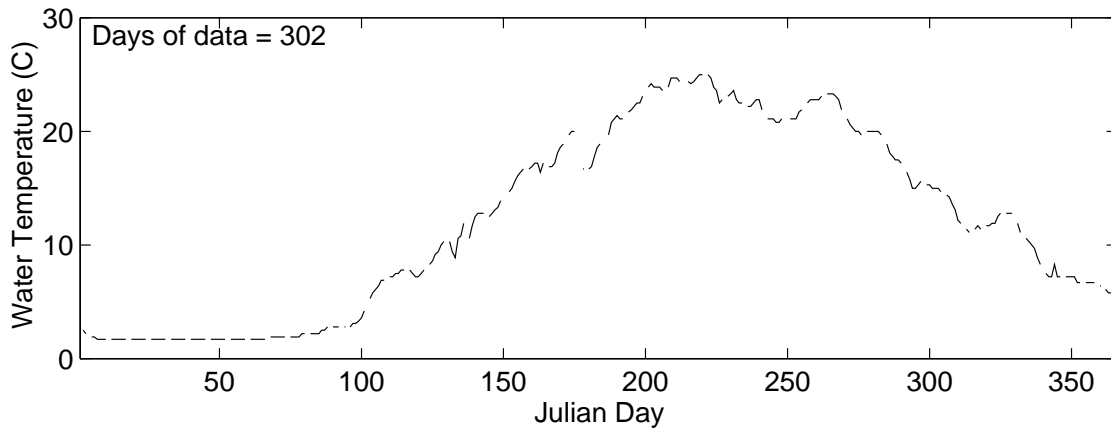
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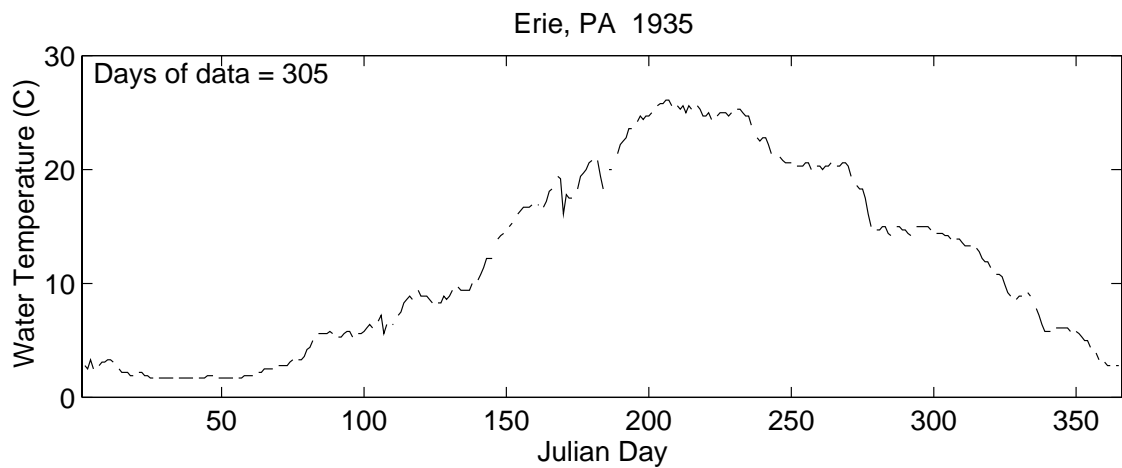
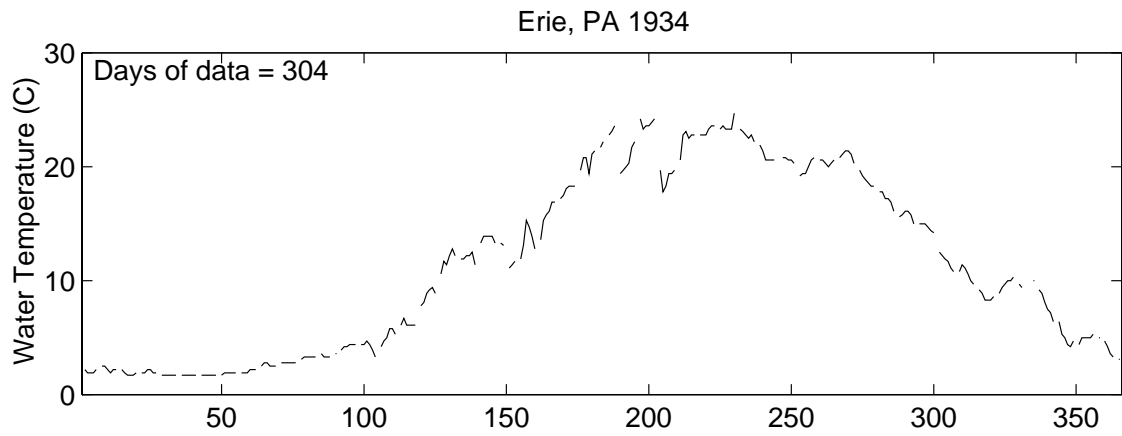
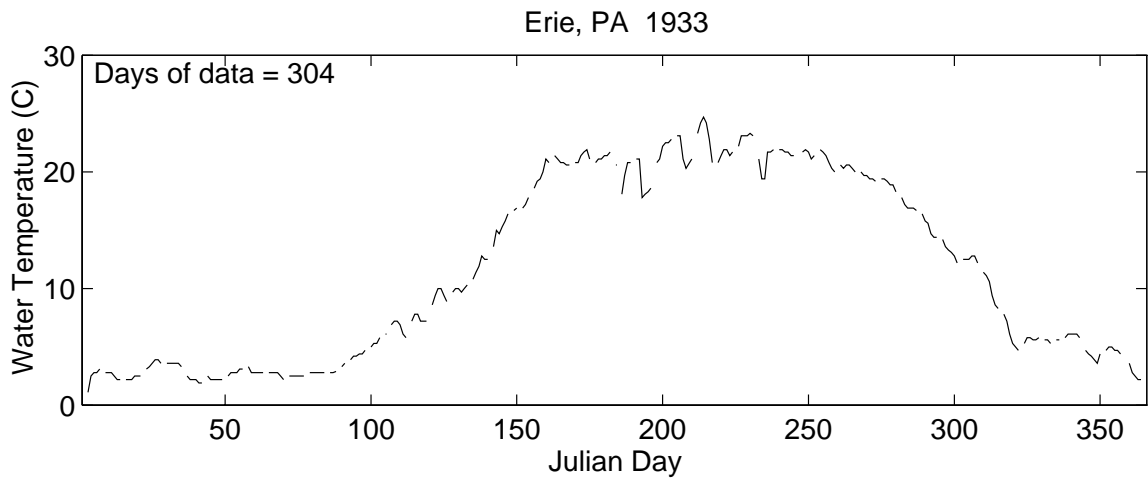
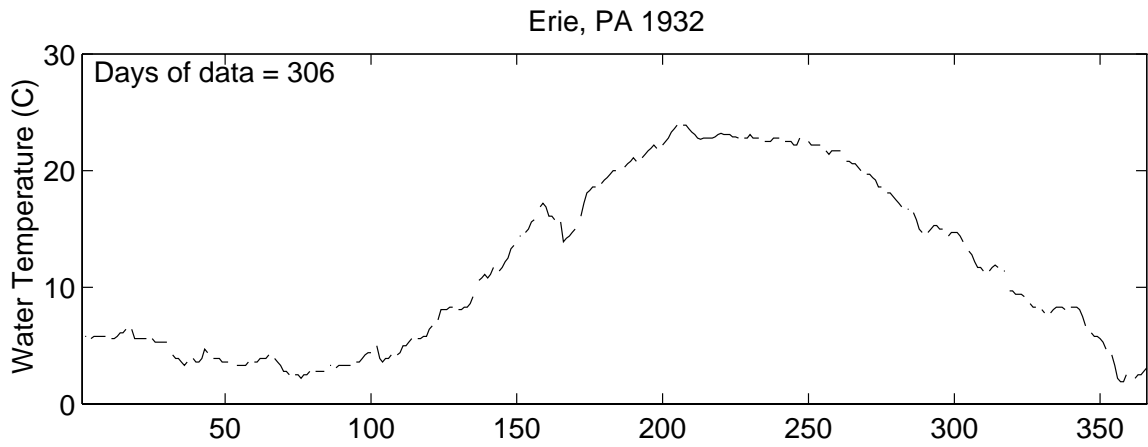


Erie, PA 1930



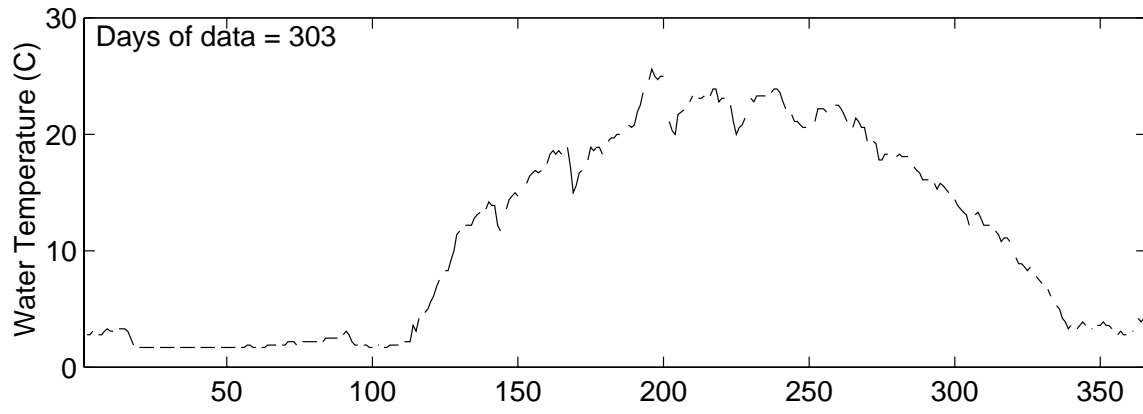
Erie, PA 1931



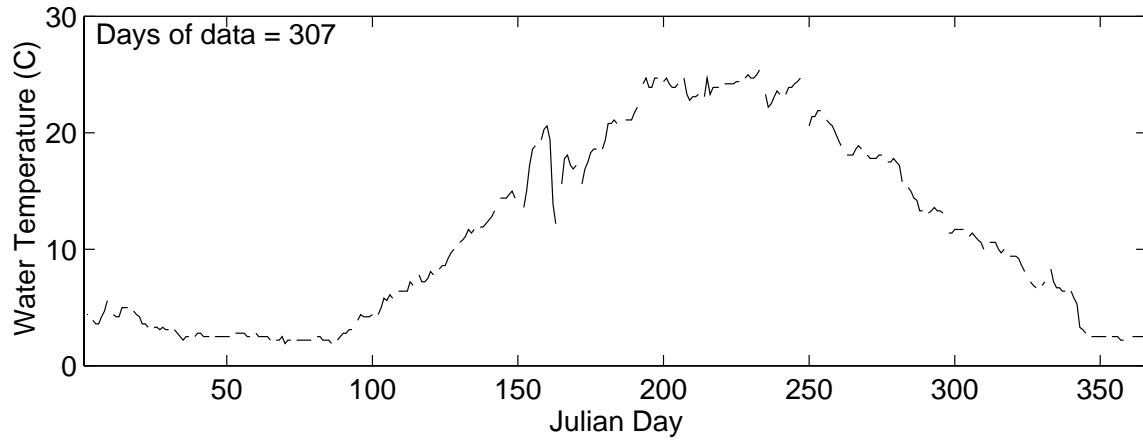




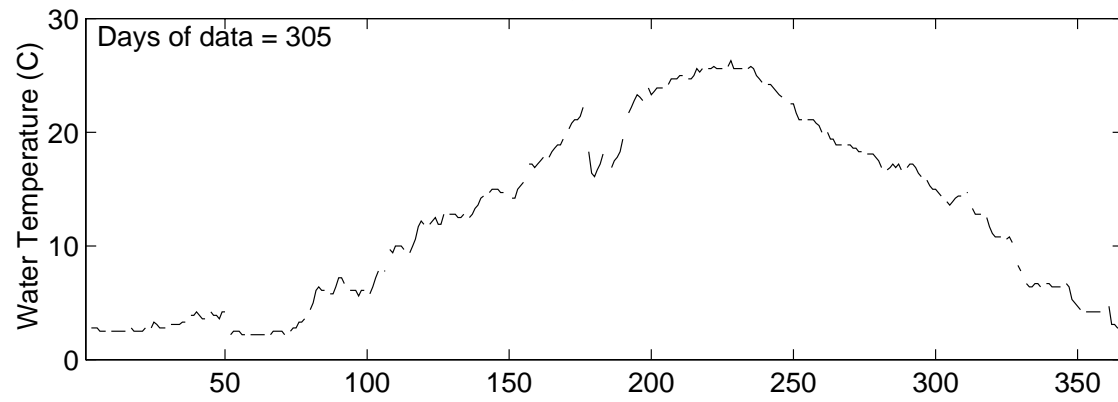
Erie, PA 1936



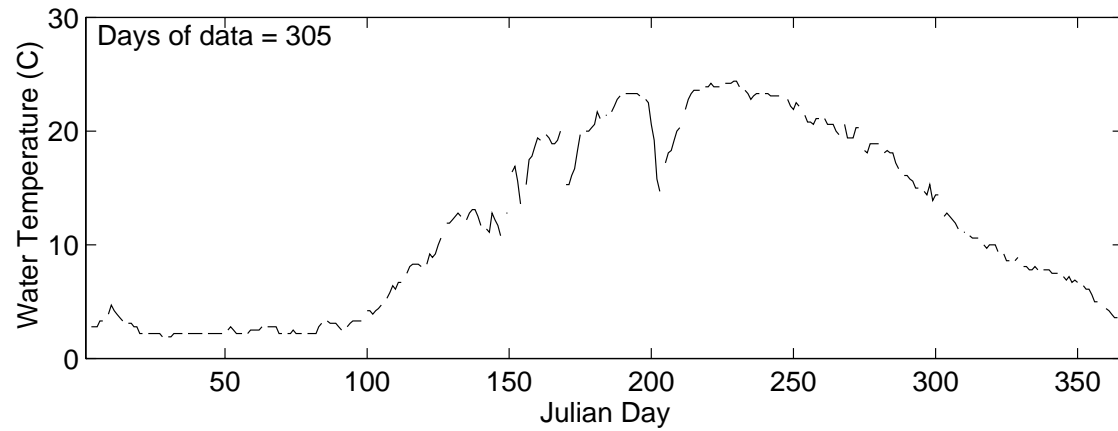
Erie, PA 1937

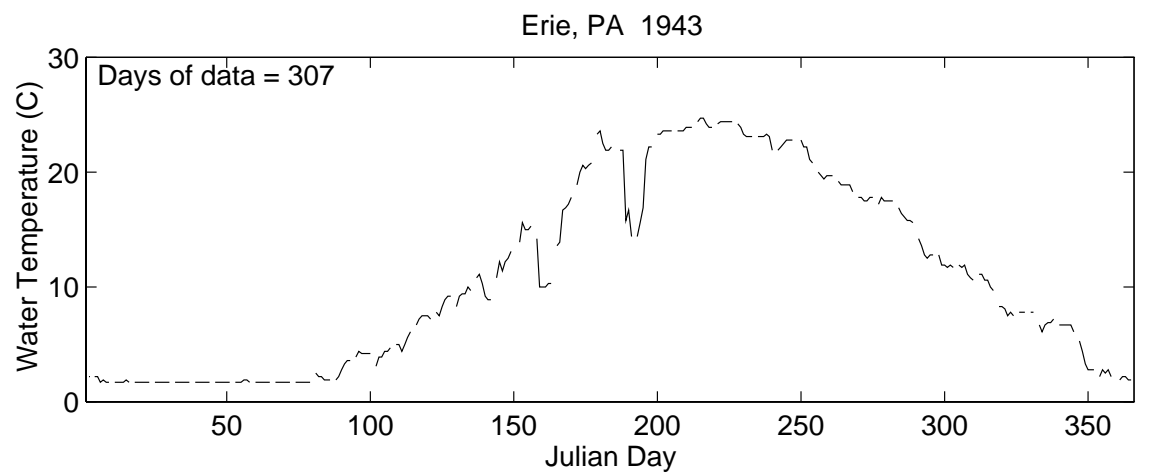
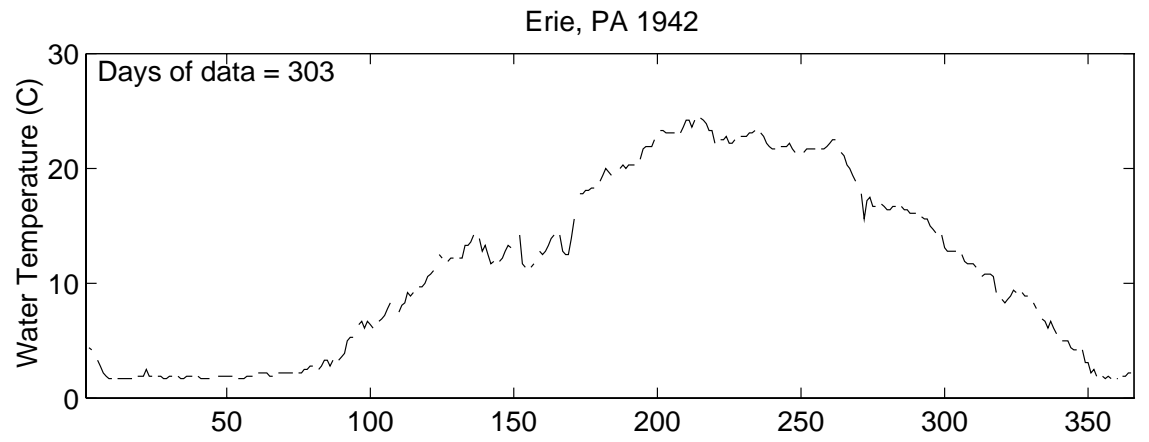
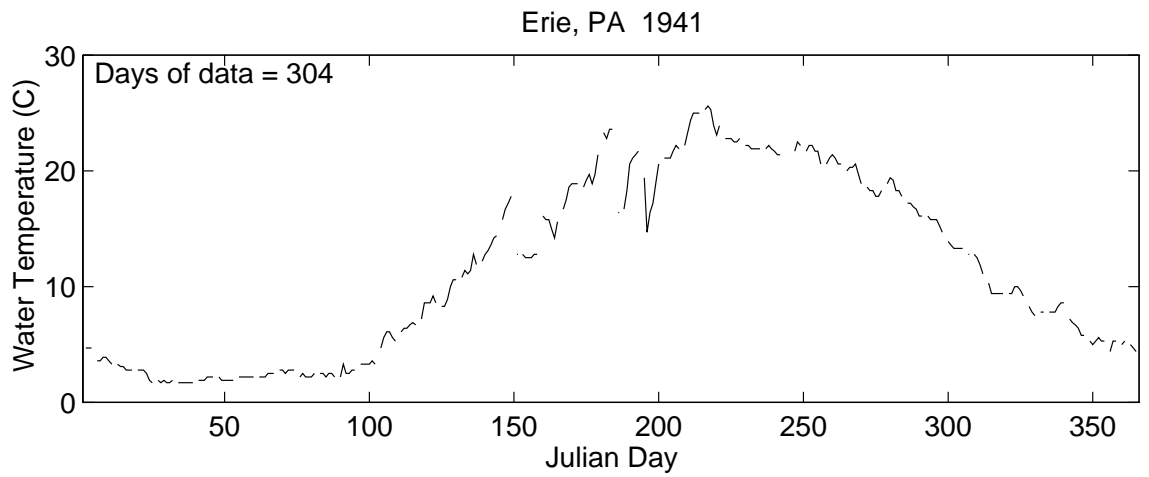
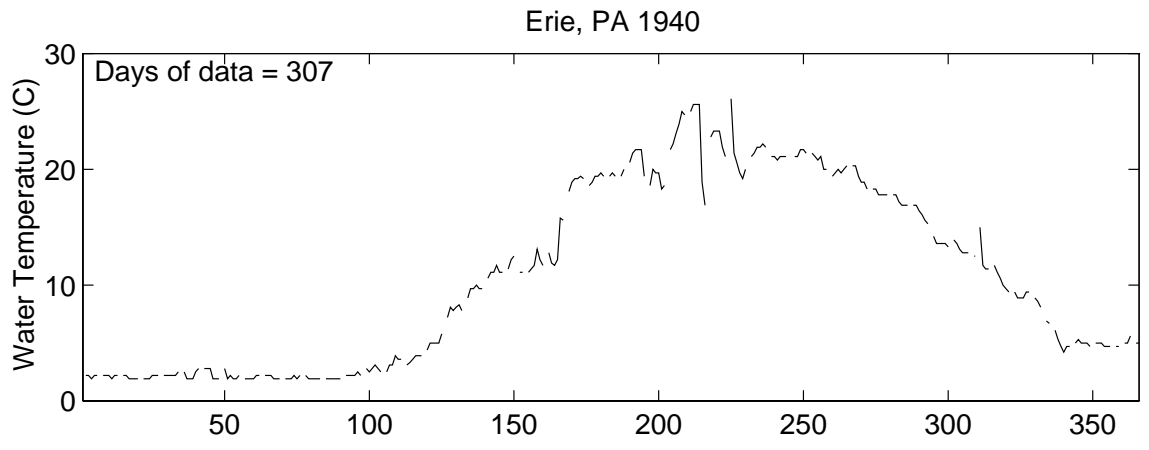


Erie, PA 1938

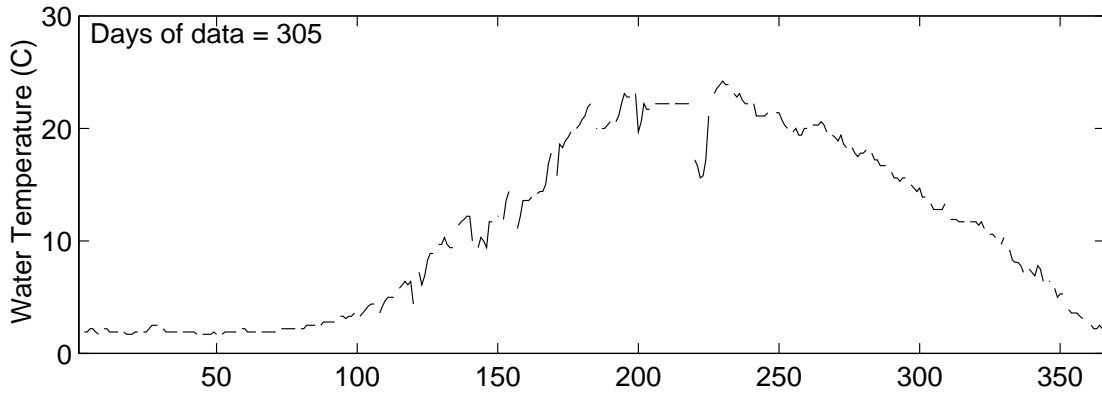


Erie, PA 1939

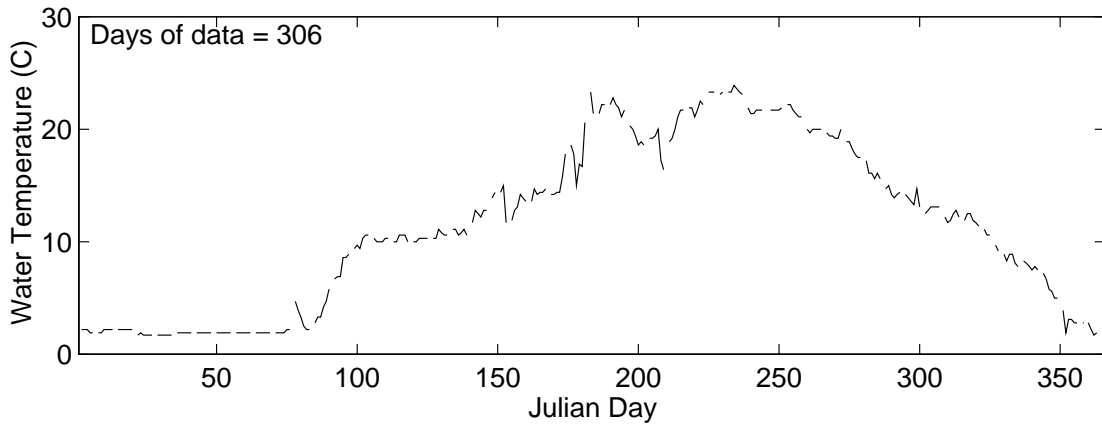




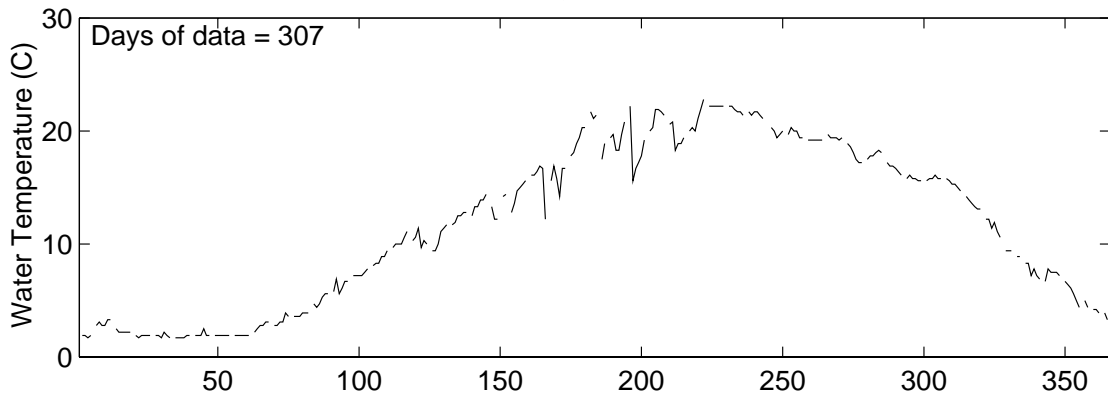
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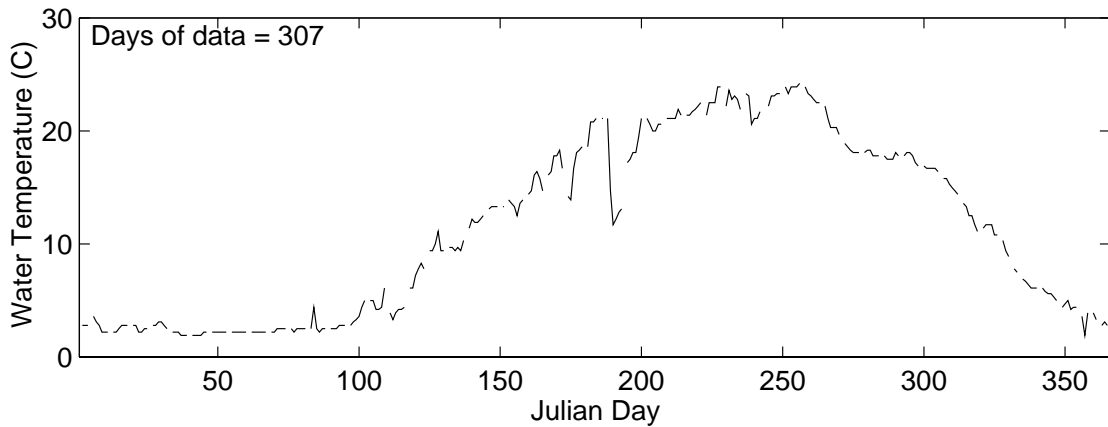
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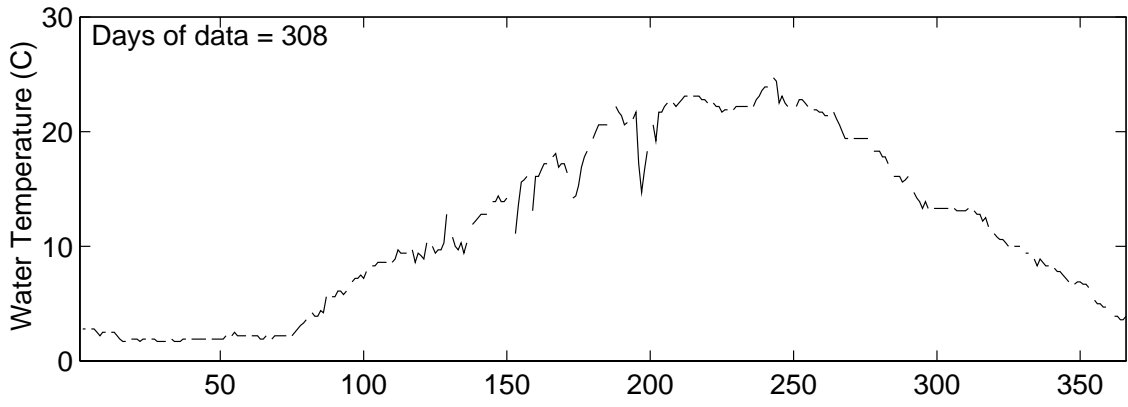
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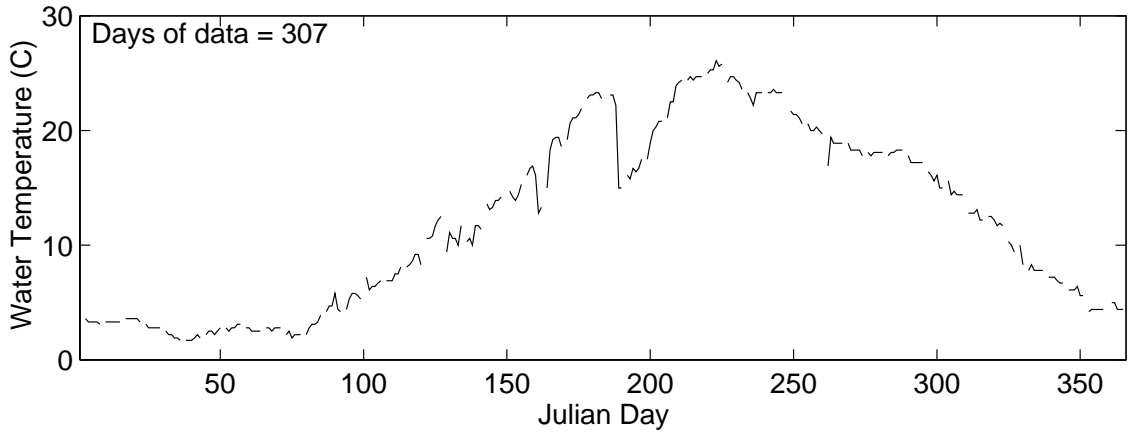
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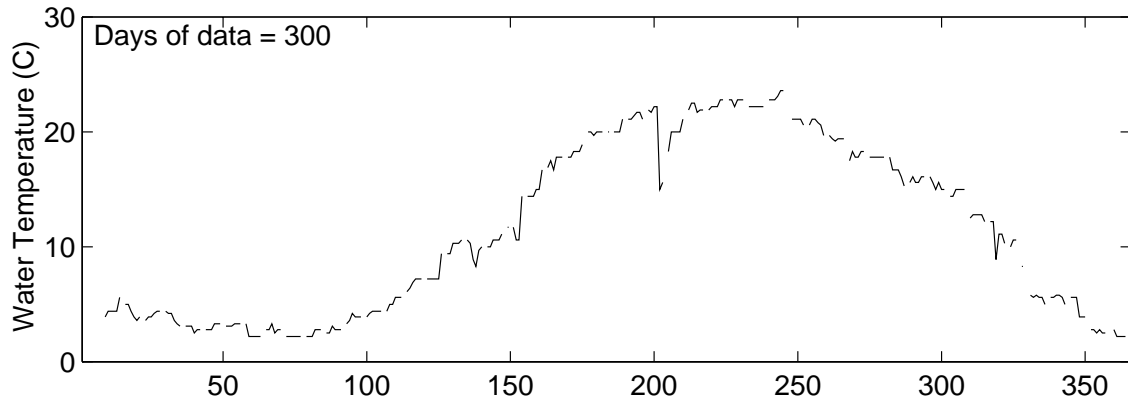
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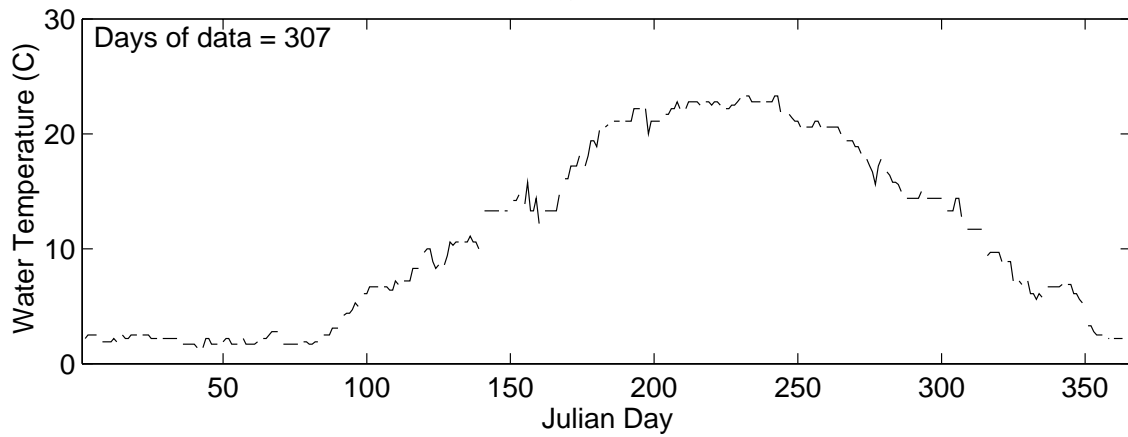
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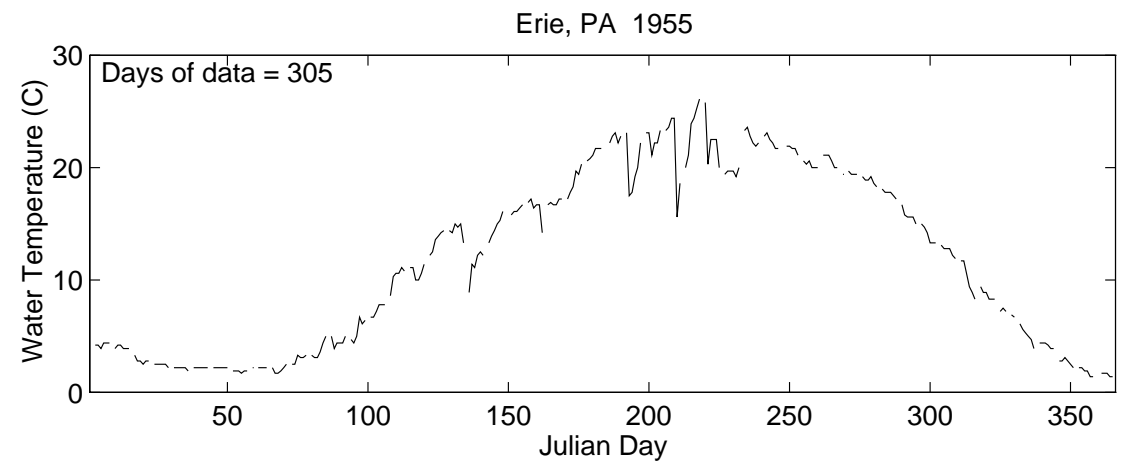
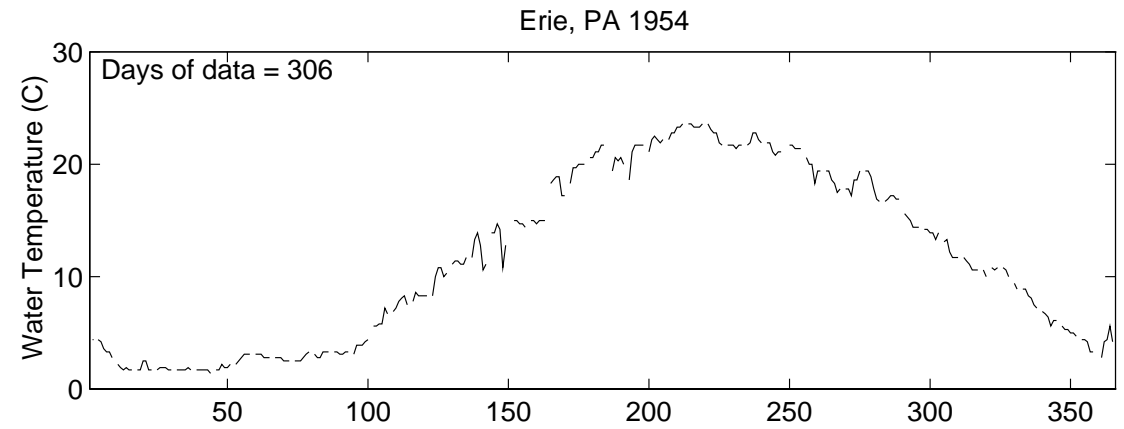
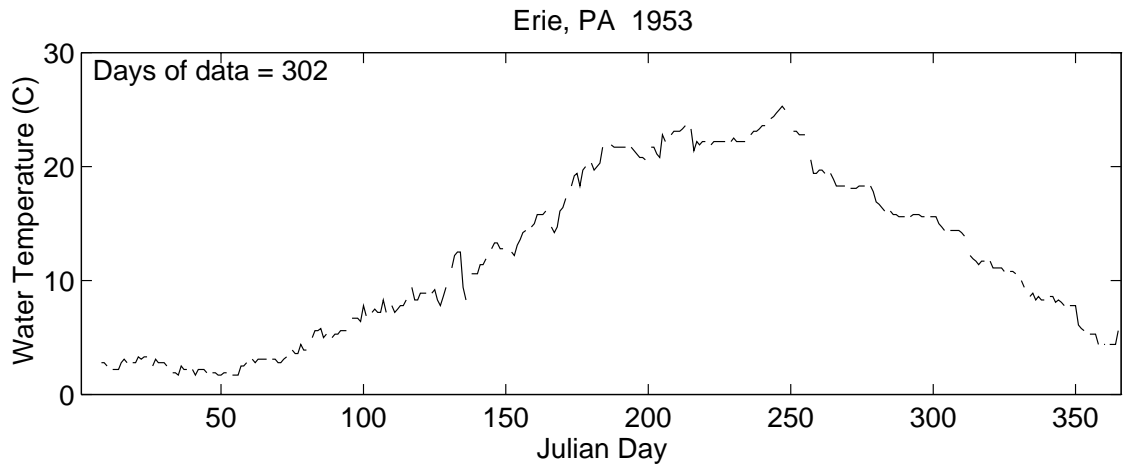
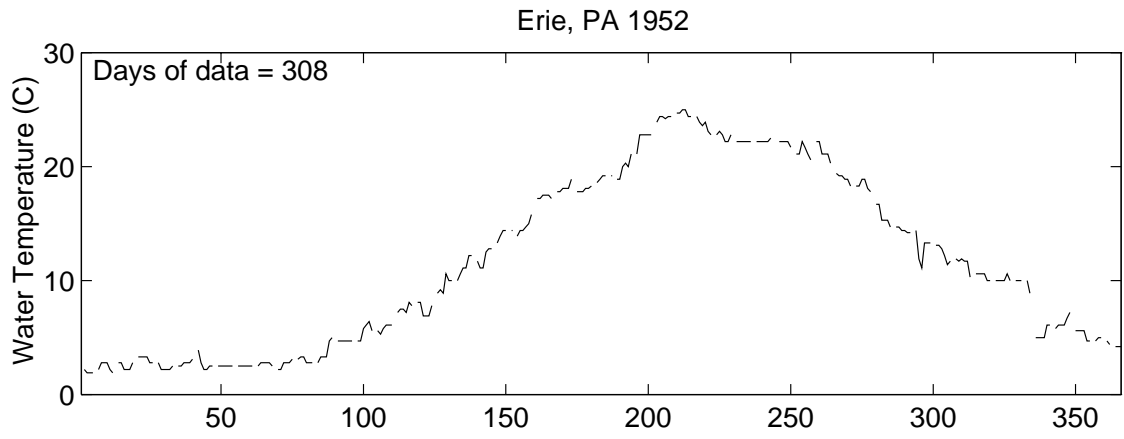


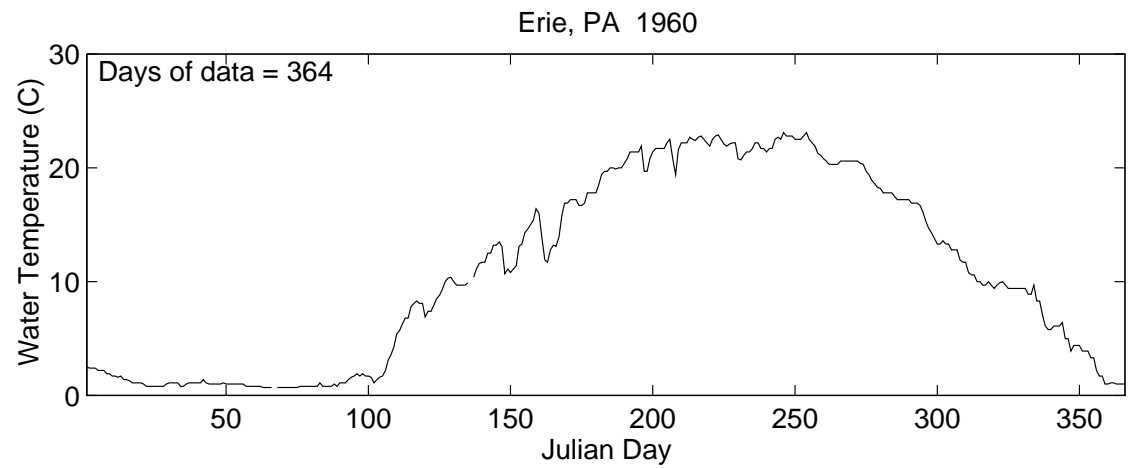
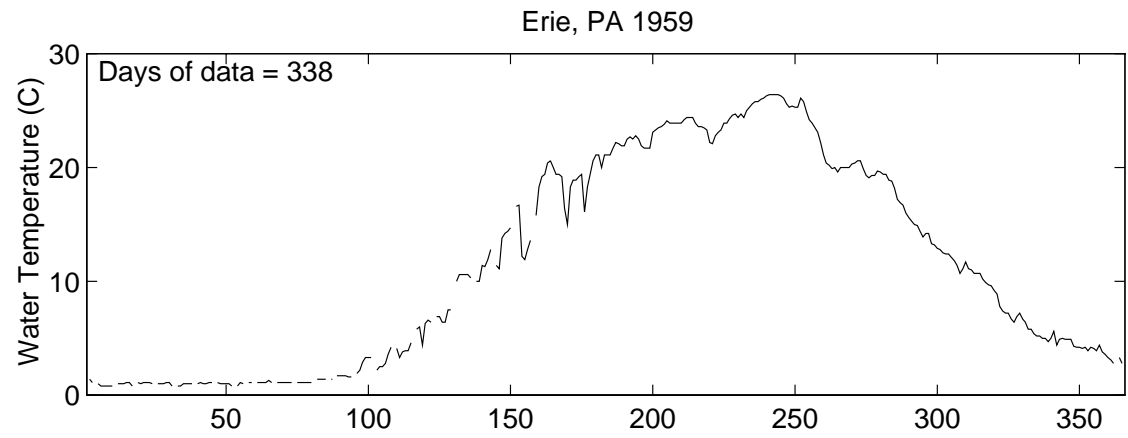
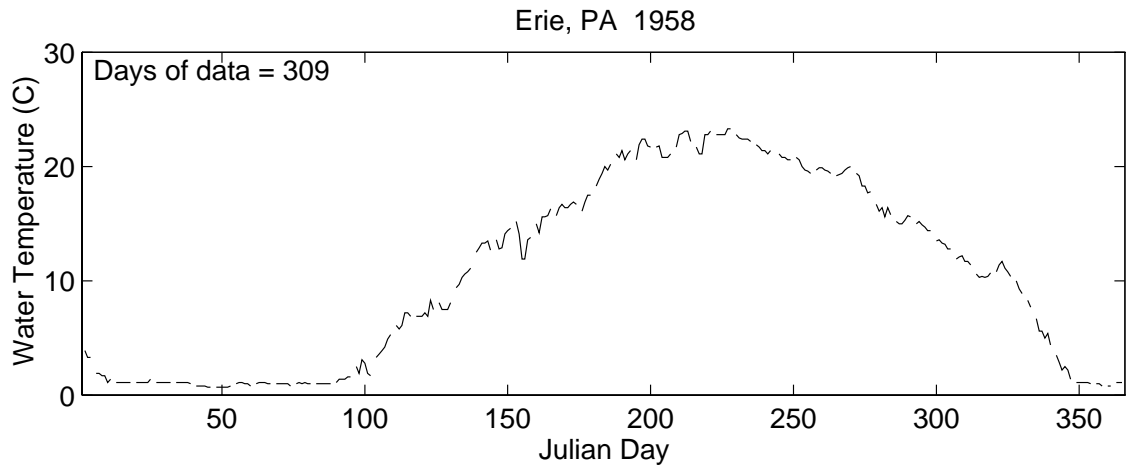
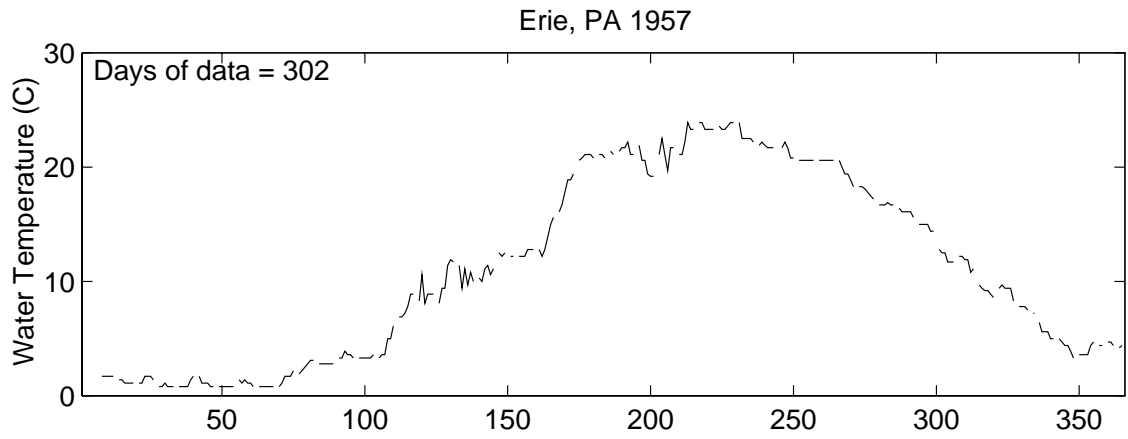
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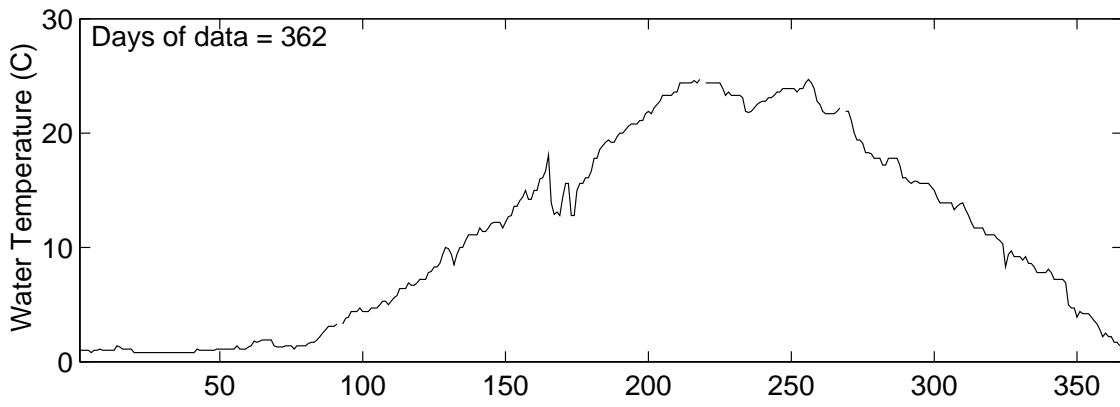
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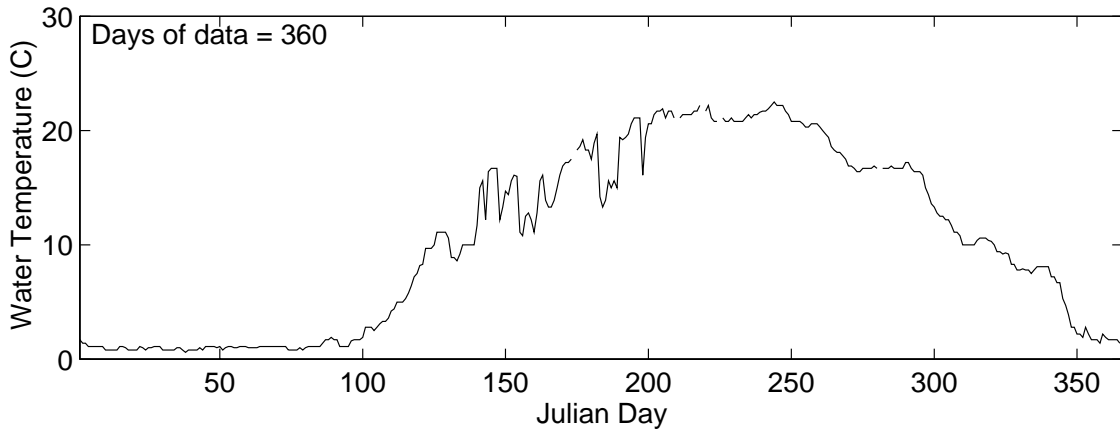




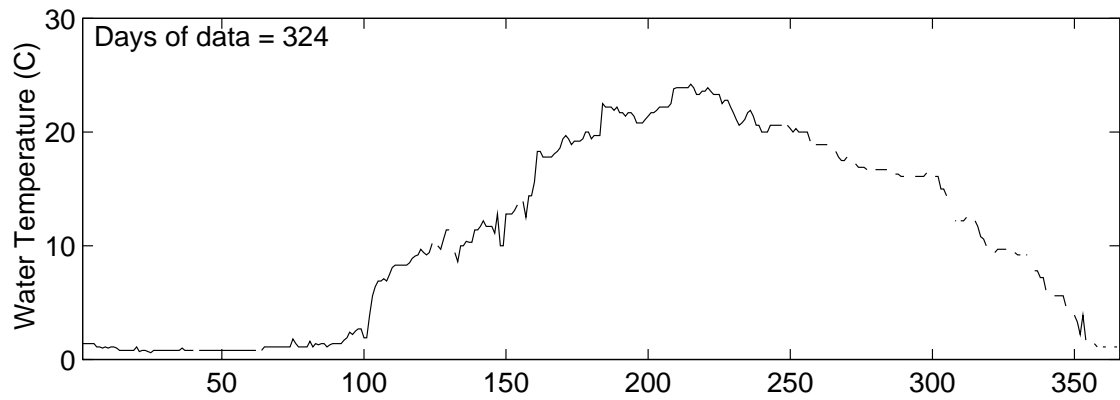
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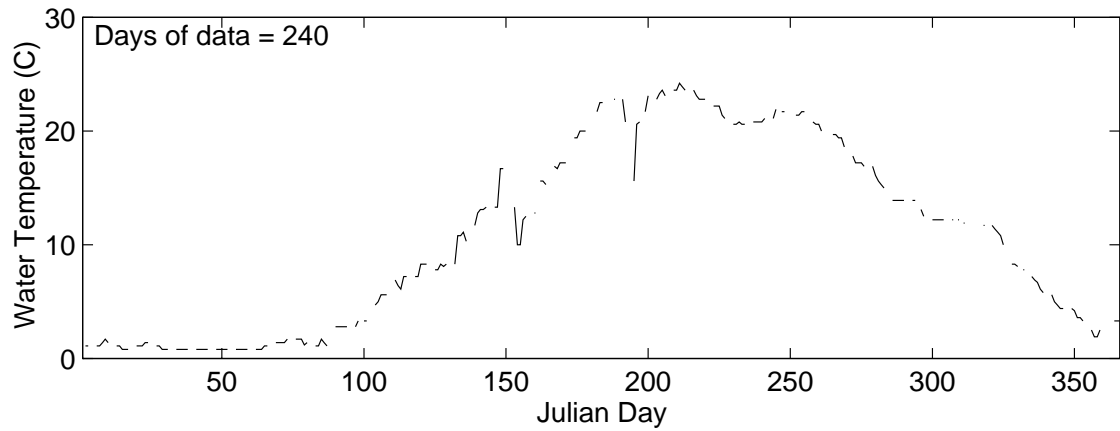
Erie, PA 1962

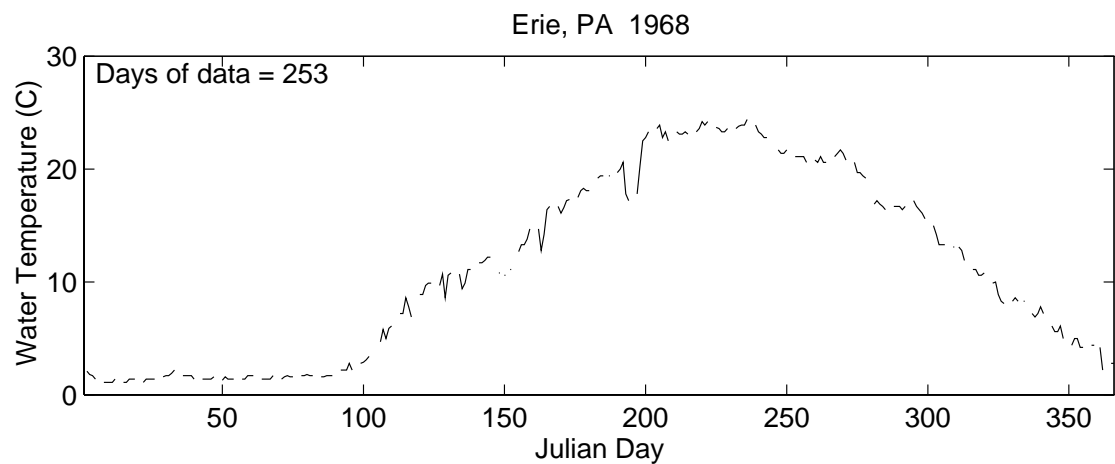
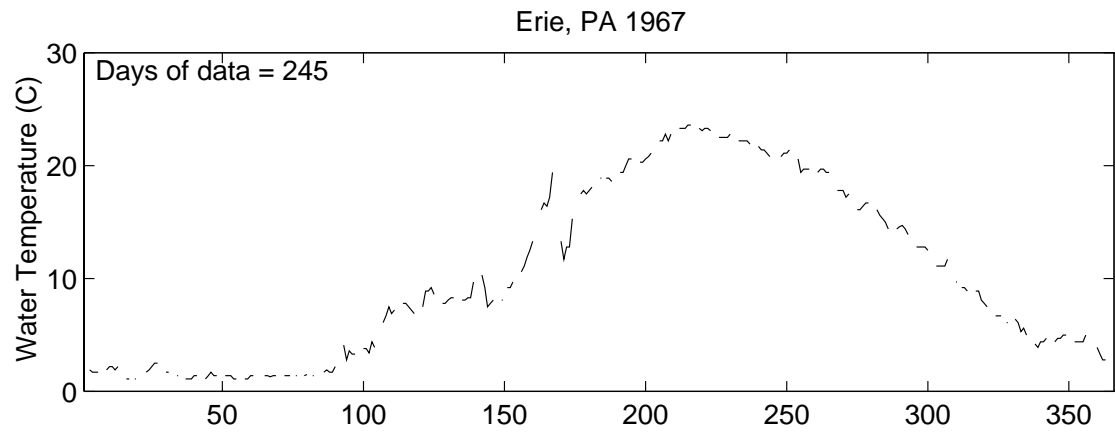
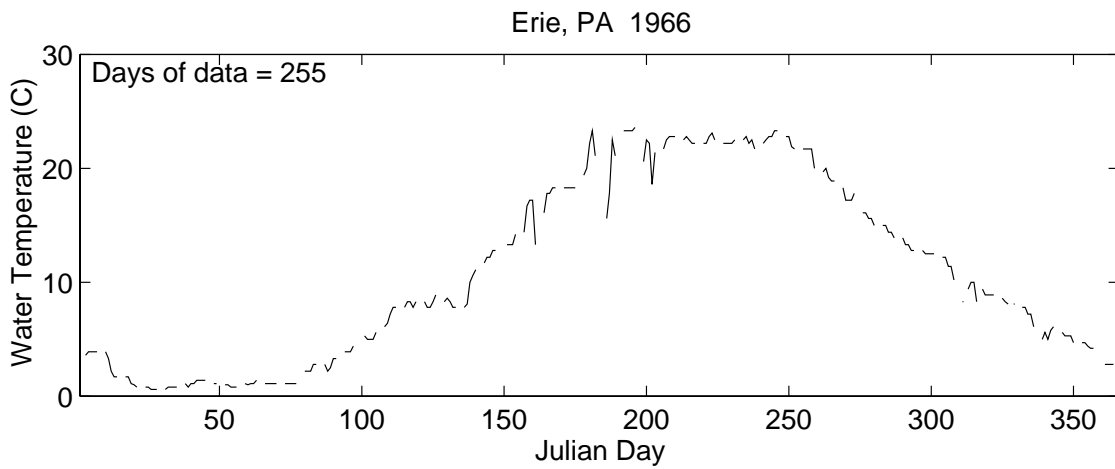
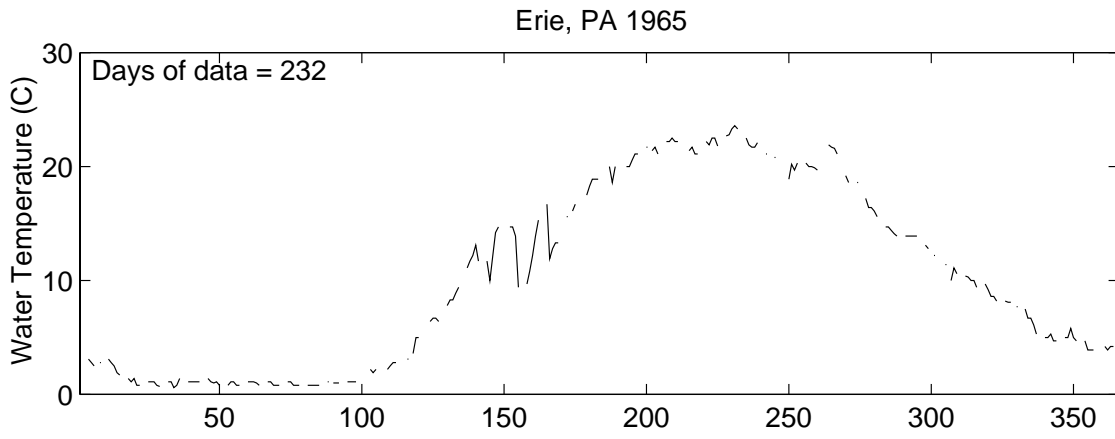


Erie, PA 1963

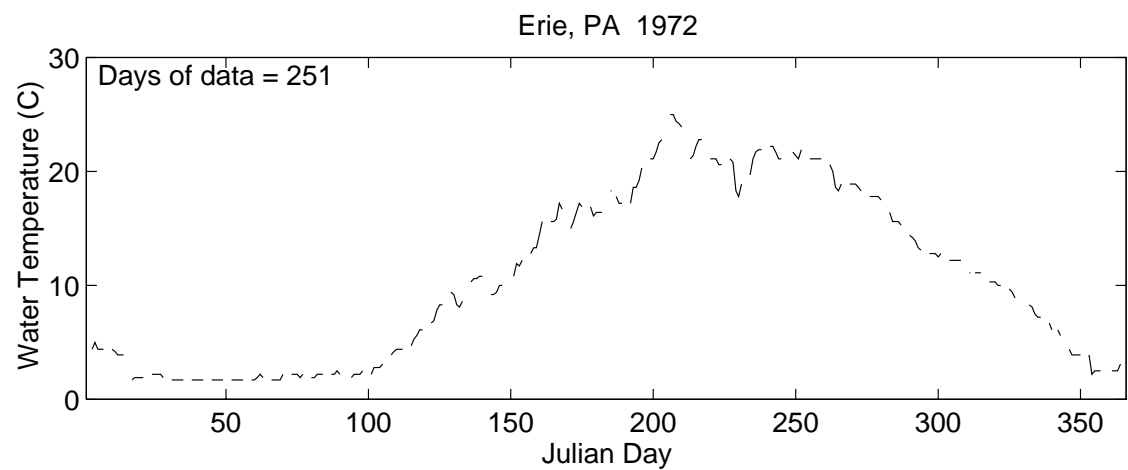
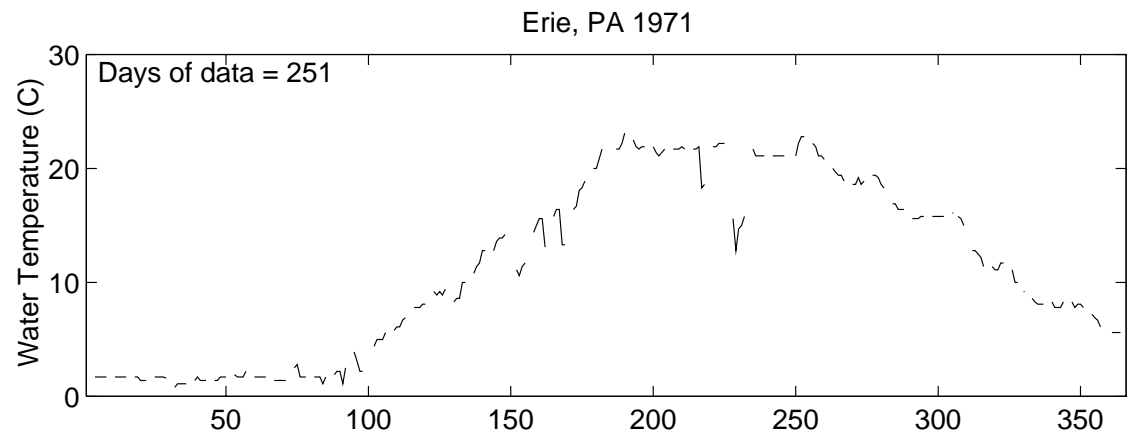
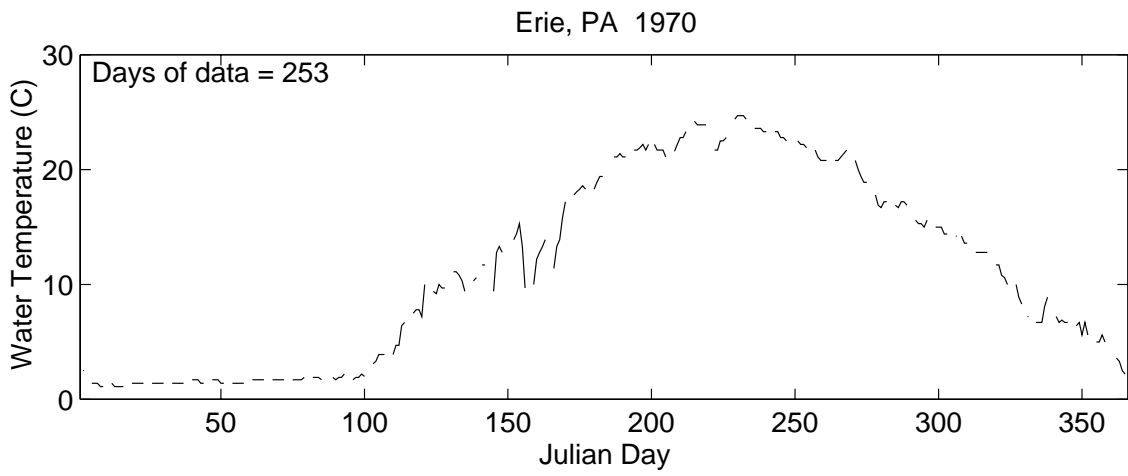
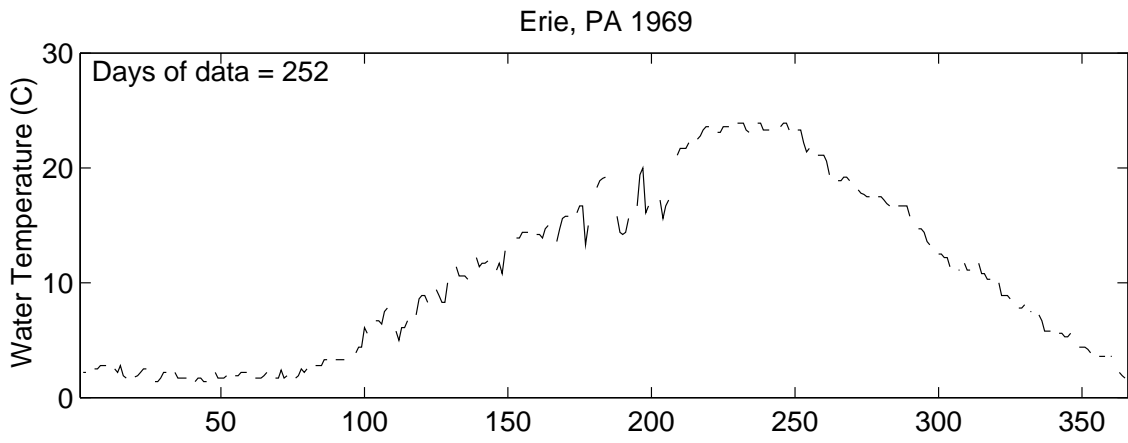


Erie, PA 1964

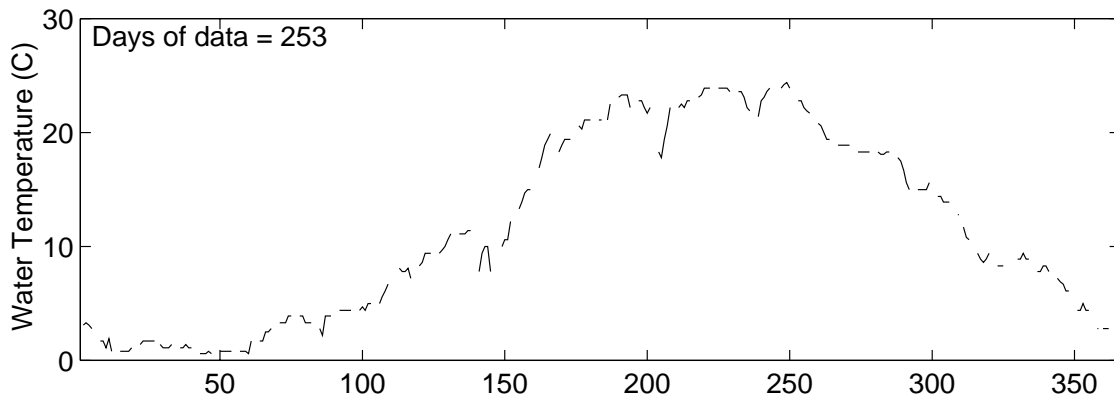




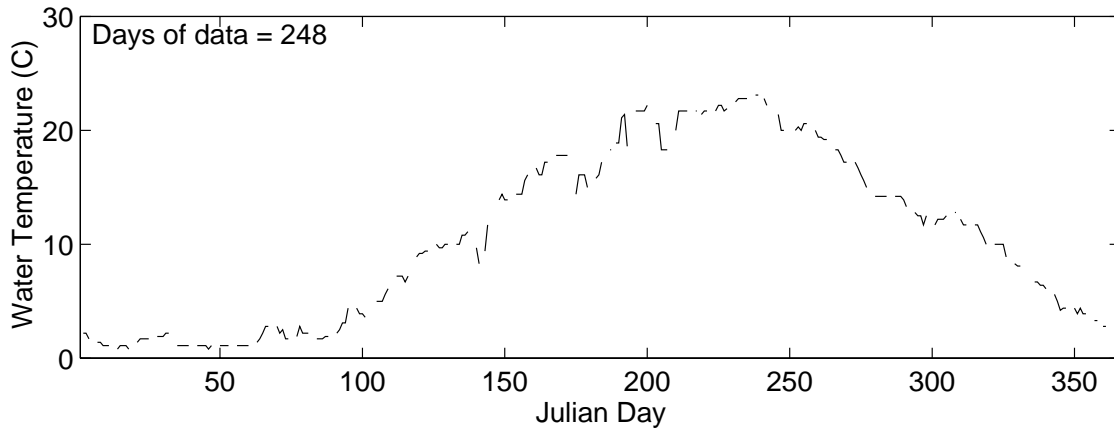




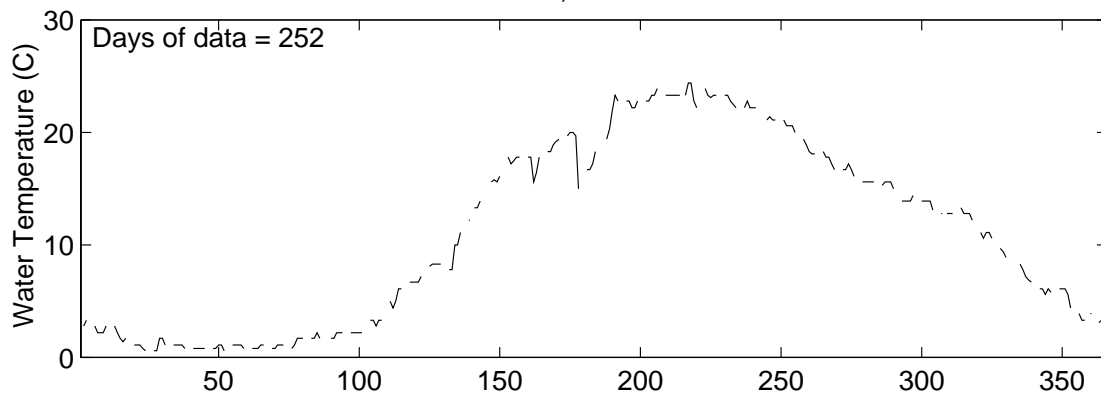
Erie, PA 1973



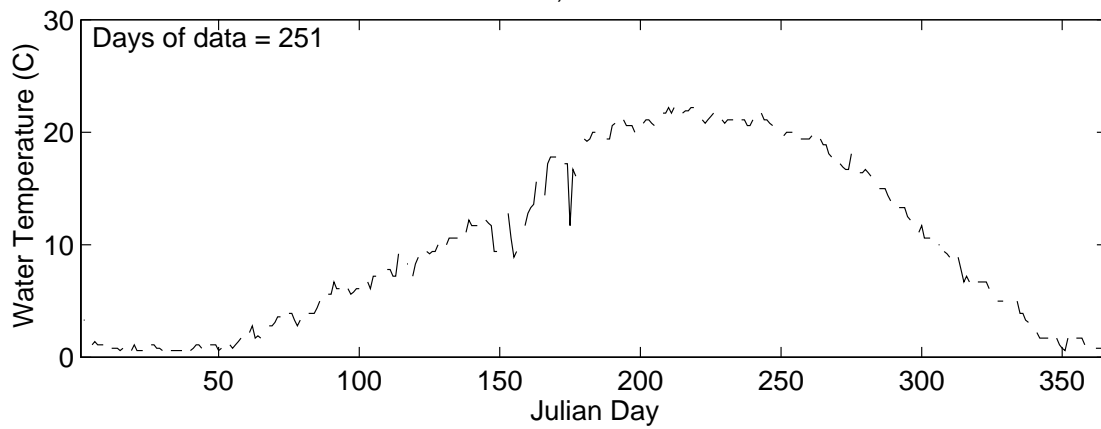
Erie, PA 1974



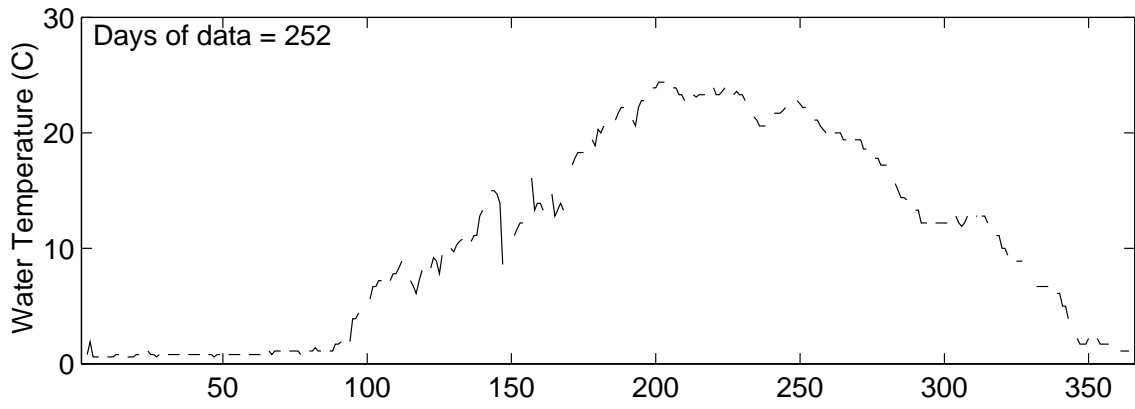
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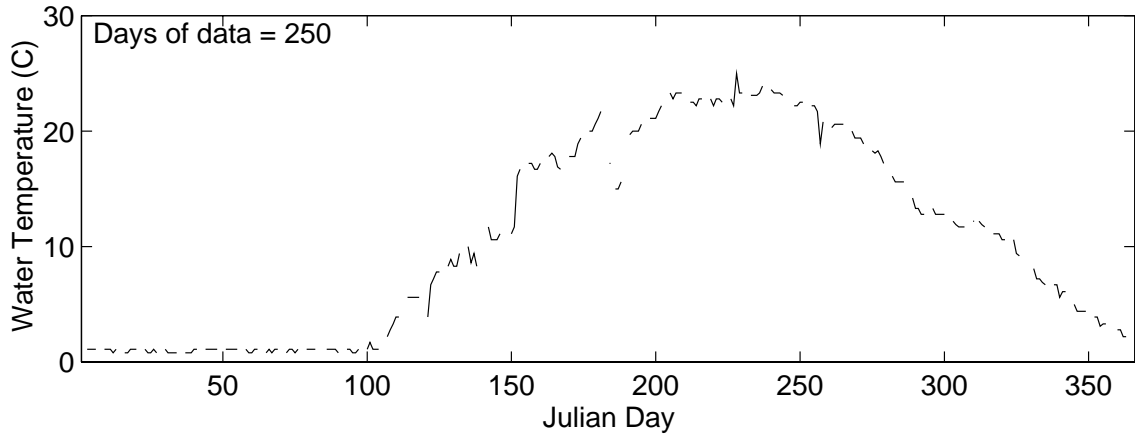
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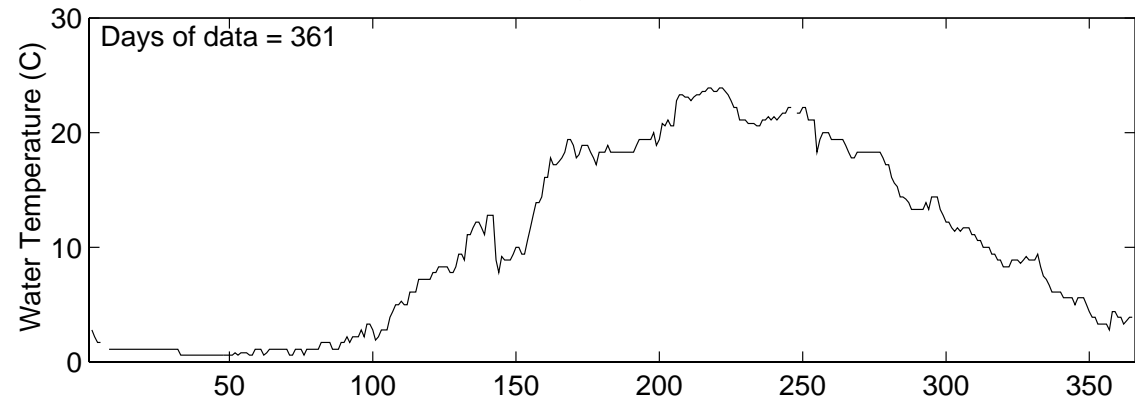
Erie, PA 1977



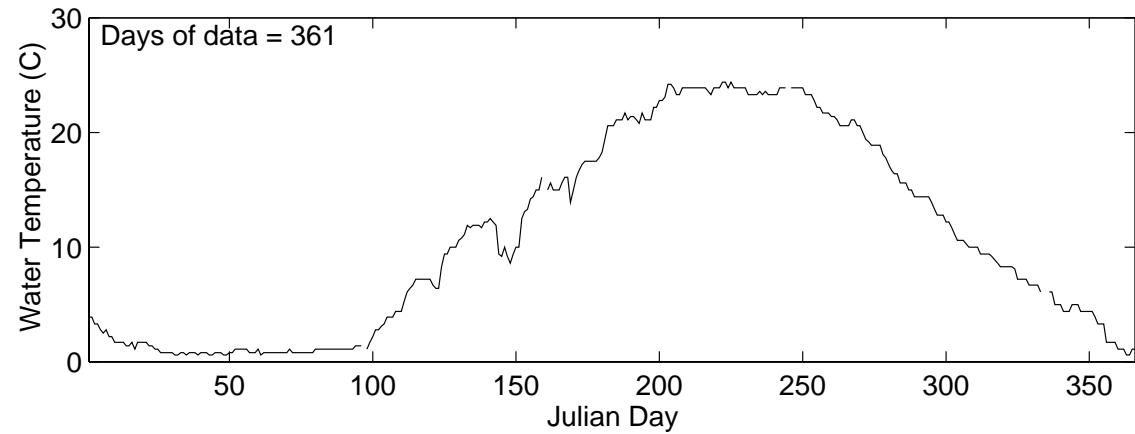
Erie, PA 1978



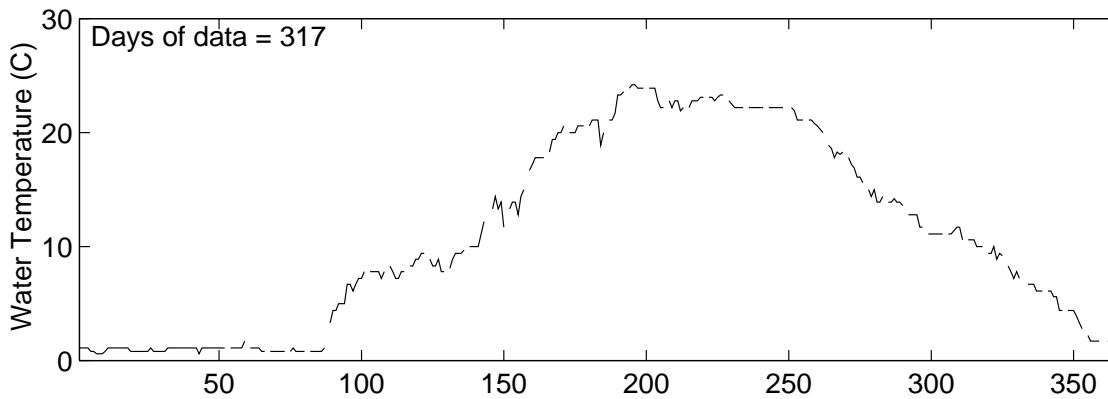
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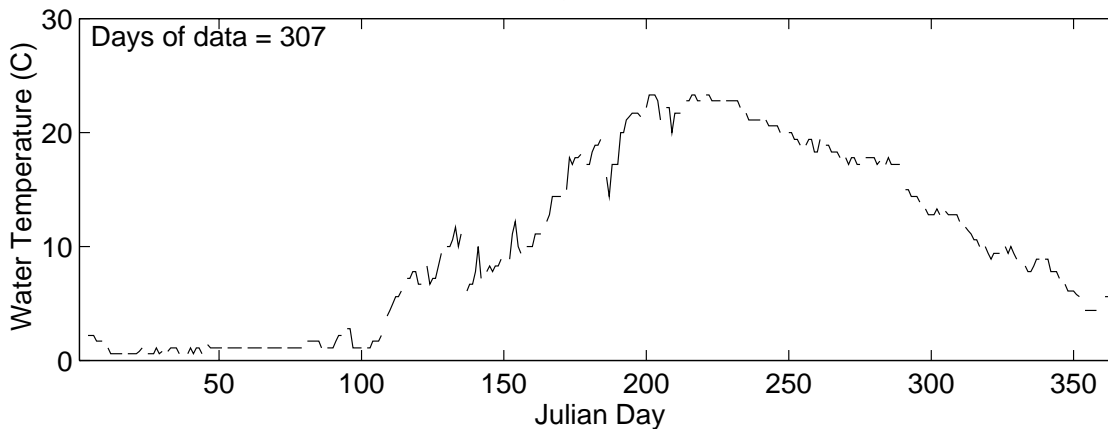
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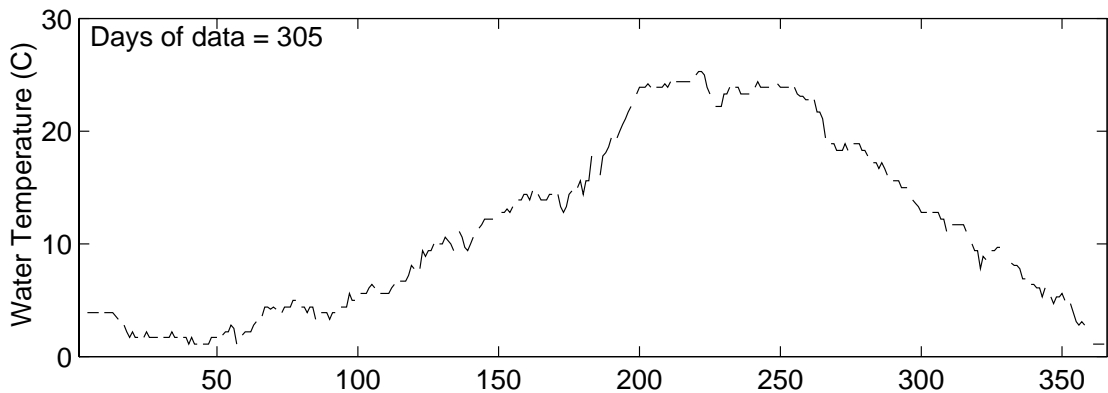
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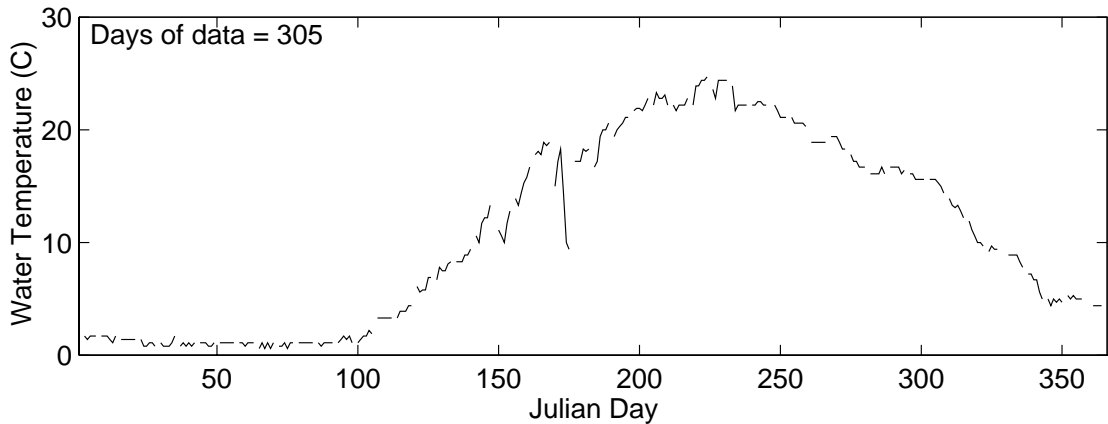
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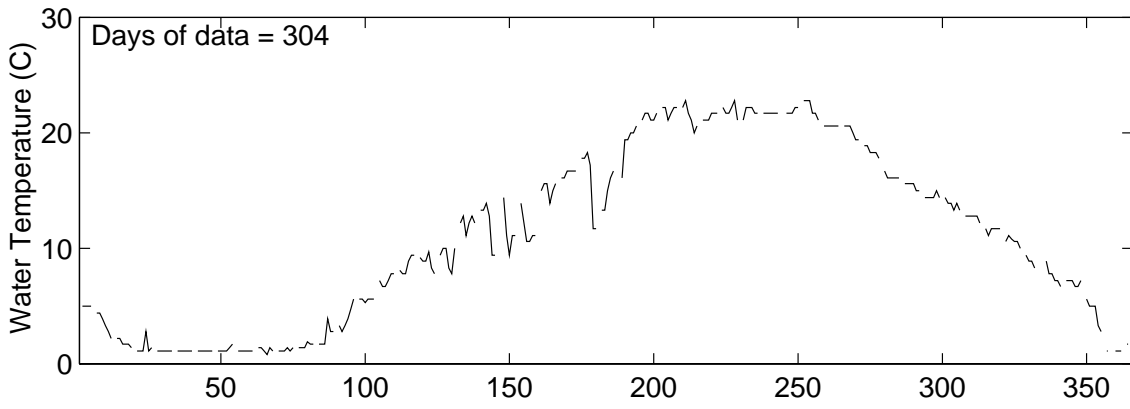
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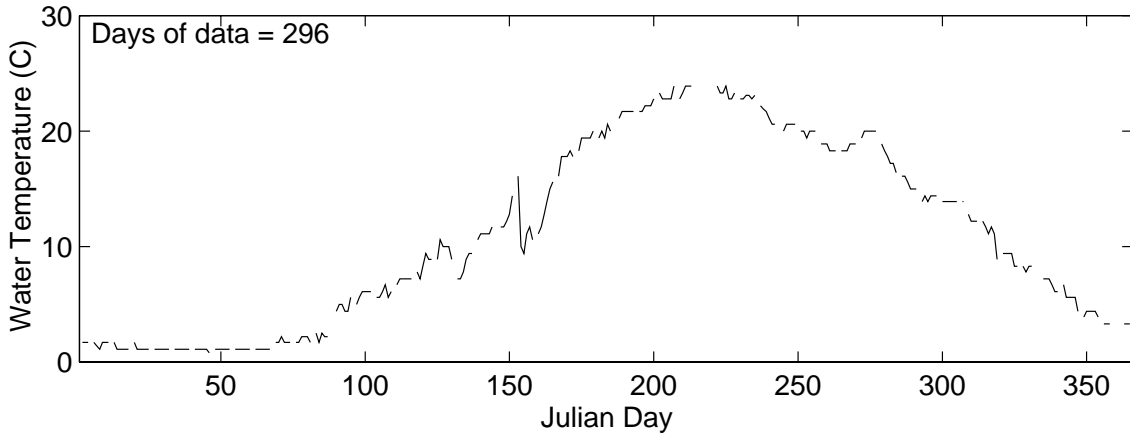
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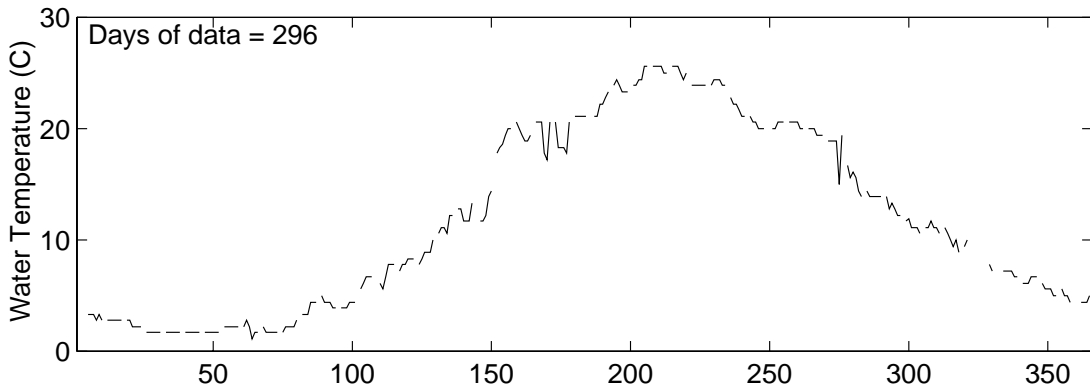
Erie, PA 1985



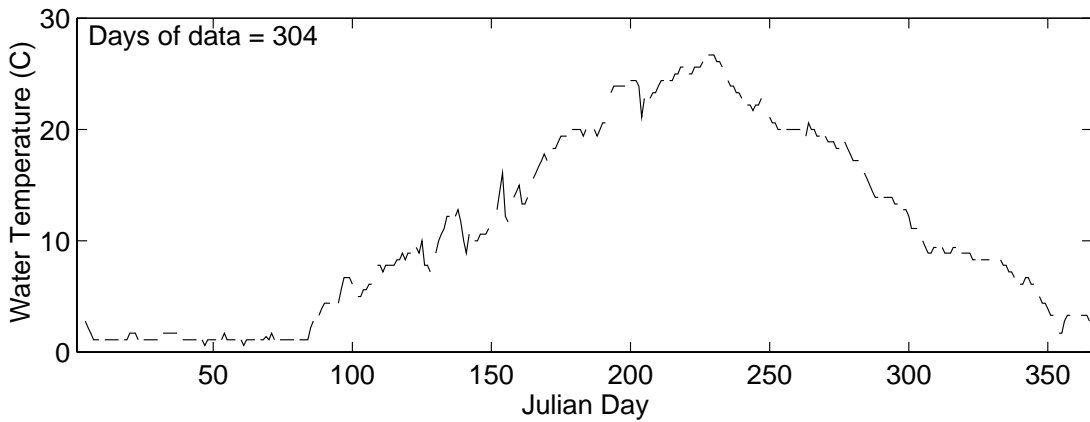
Erie, PA 1986



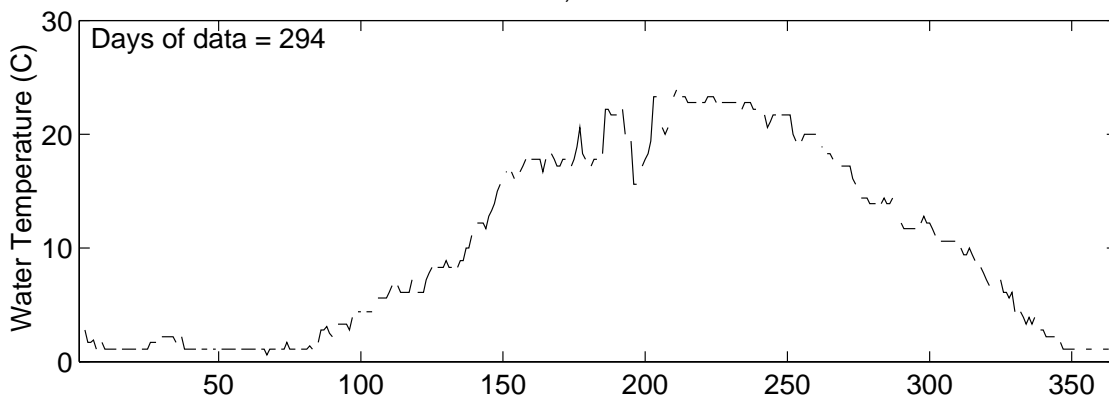
Erie, PA 1987



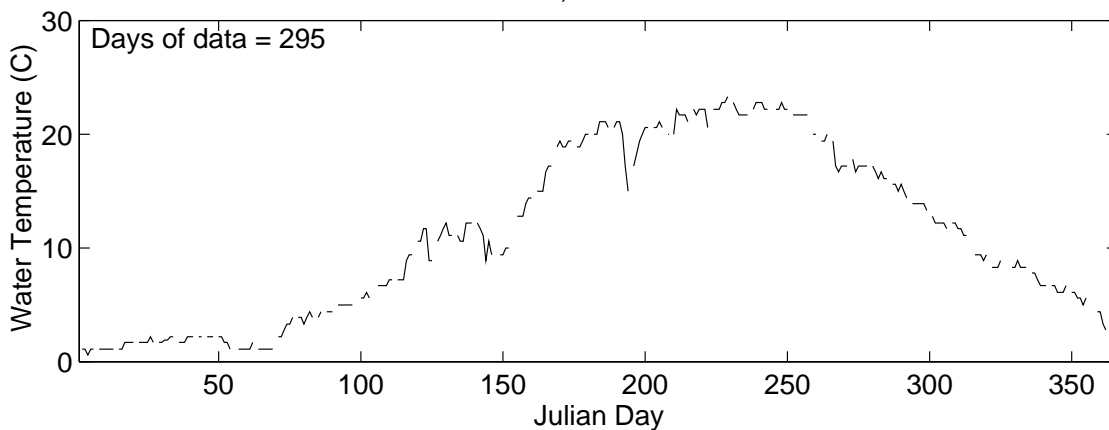
Erie, PA 1988



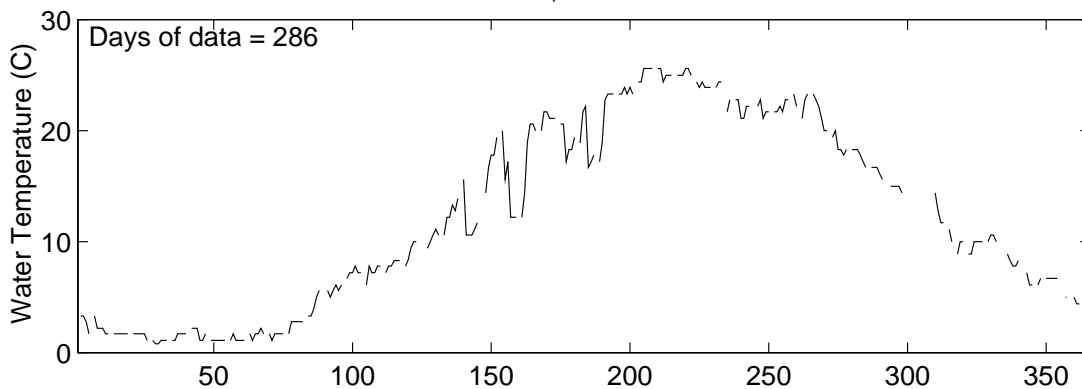
Erie, PA 1989



Erie, PA 1990



Erie, PA 1991



Erie, PA 1992

