
Growing Degree Day

CMSC 6950 - COMPUTER BASED RESEARCH TOOLS AND APPLICATIONS

PROJECT REPORT

SUBMITTED BY

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1 Introduction

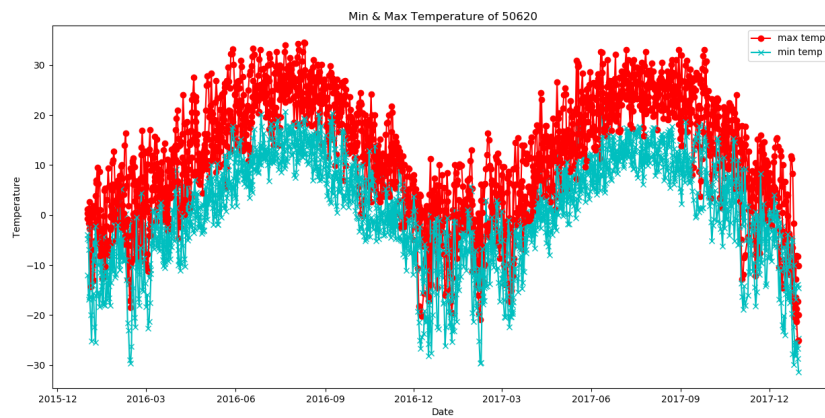
For this project, we have selected three cities from Canada, namely: Halifax, Ottawa and Calgary, for which we calculated and visually analysed the growing degree days for years 2016 and 2017.

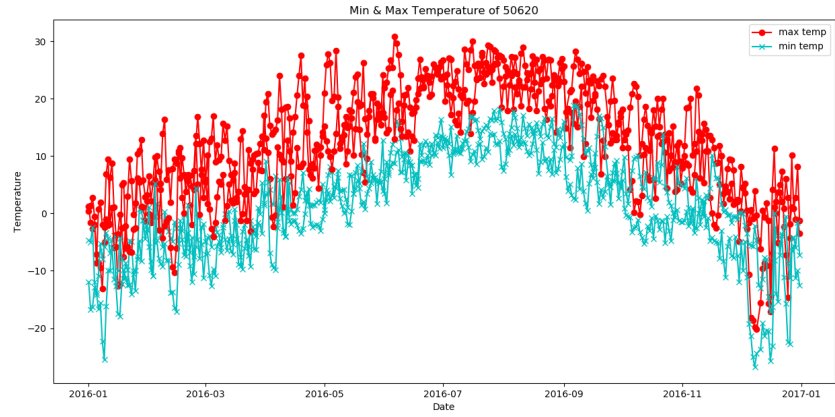
2 Core Tasks

The weather data was downloaded for the three cities and different plots were generated after calculating the GDD for those cities.

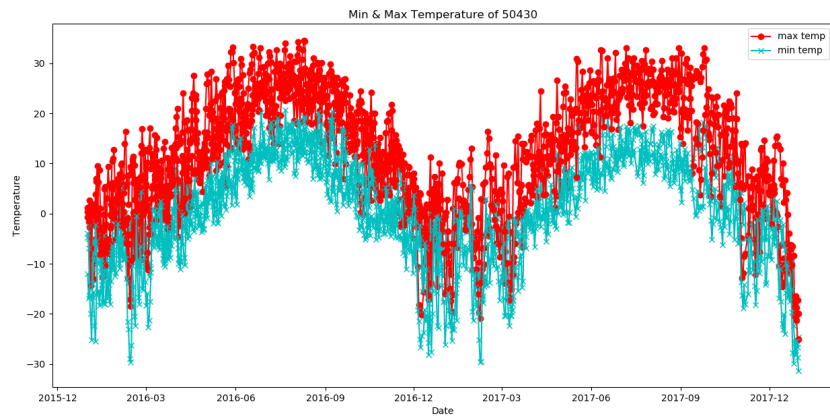
2.1 Min/Max Plots

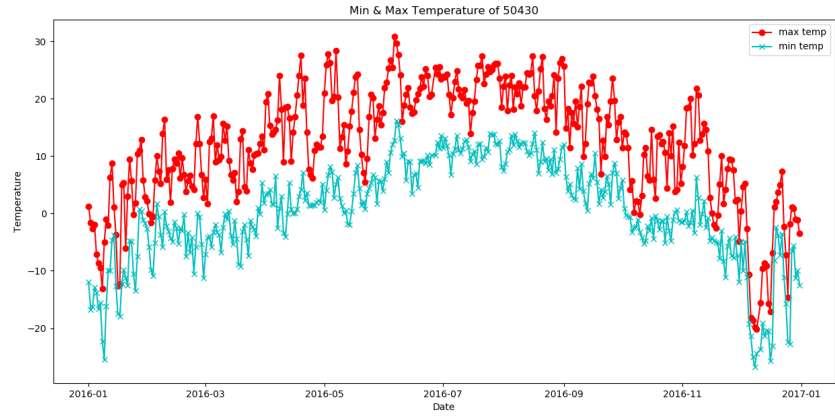
2.1.1 HALIFAX



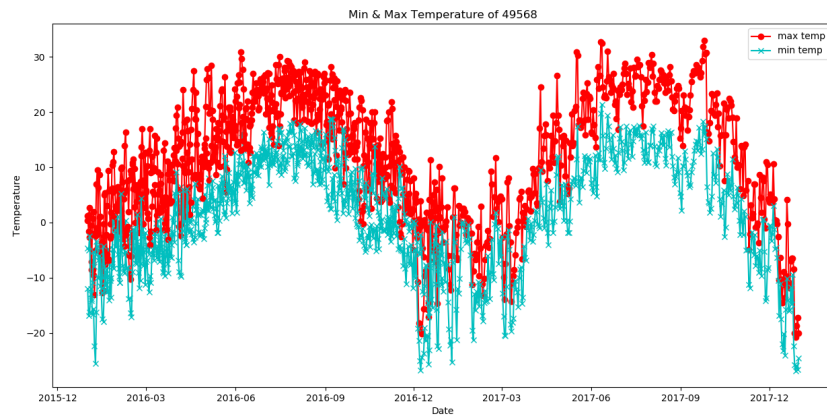


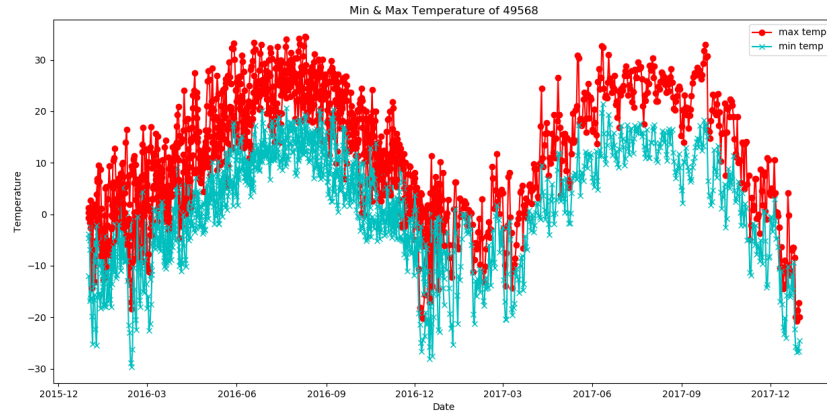
2.1.2 CALGARY



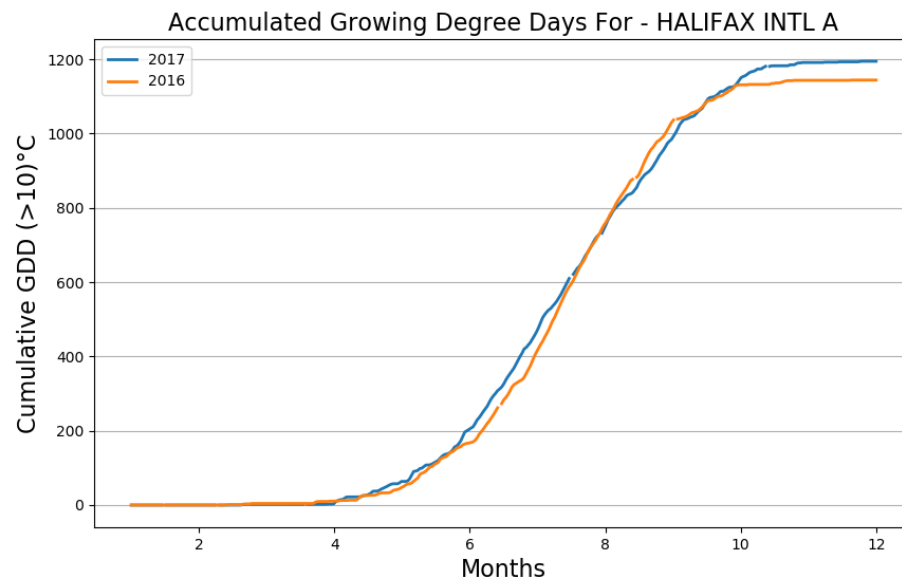


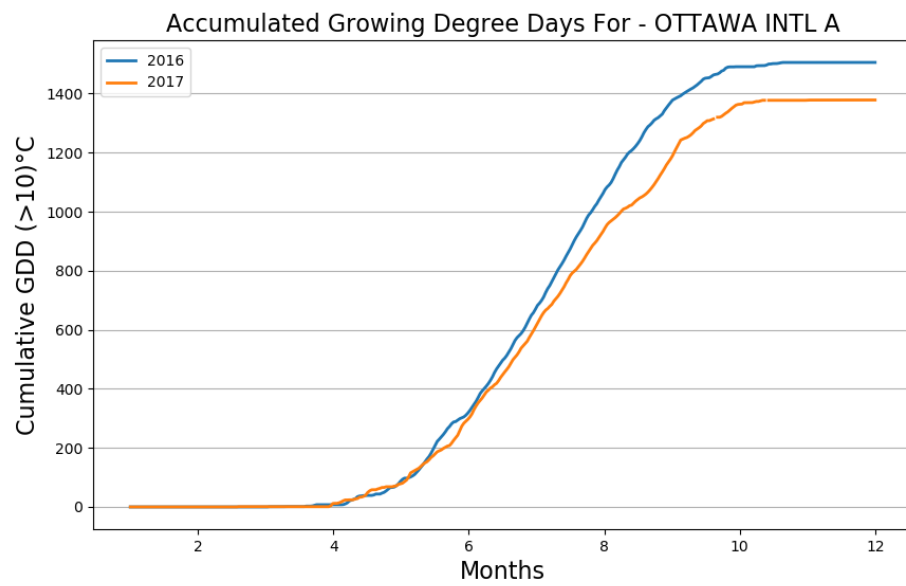
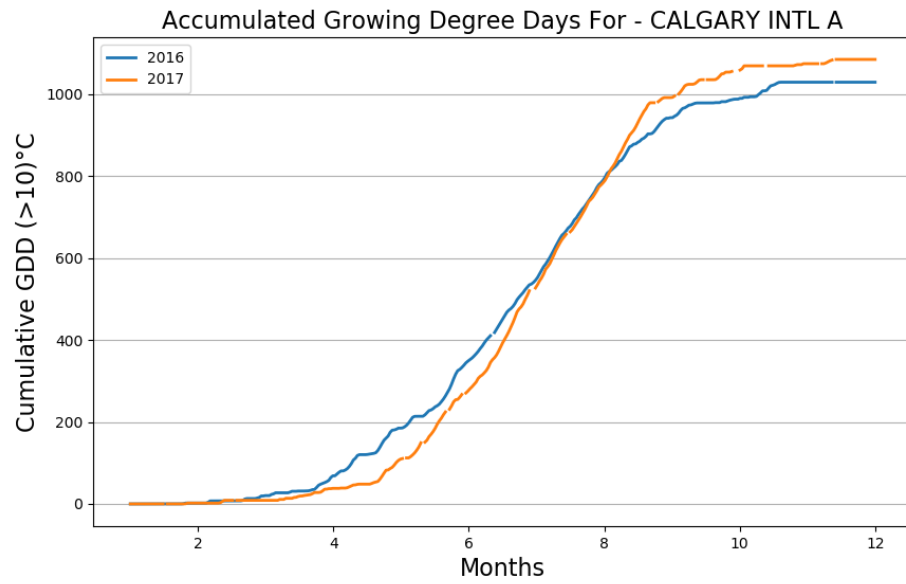
2.1.3 OTTAWA





2.2 Cumulative GDD

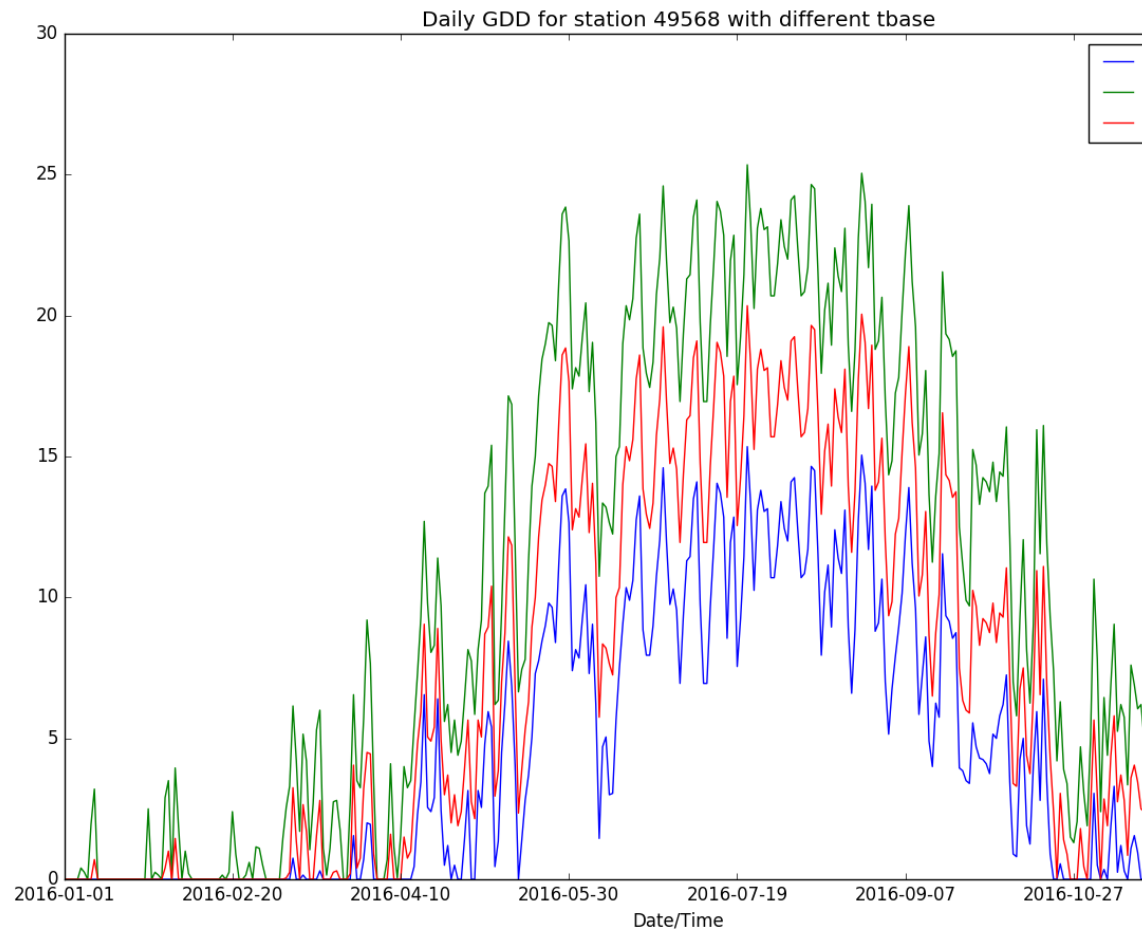




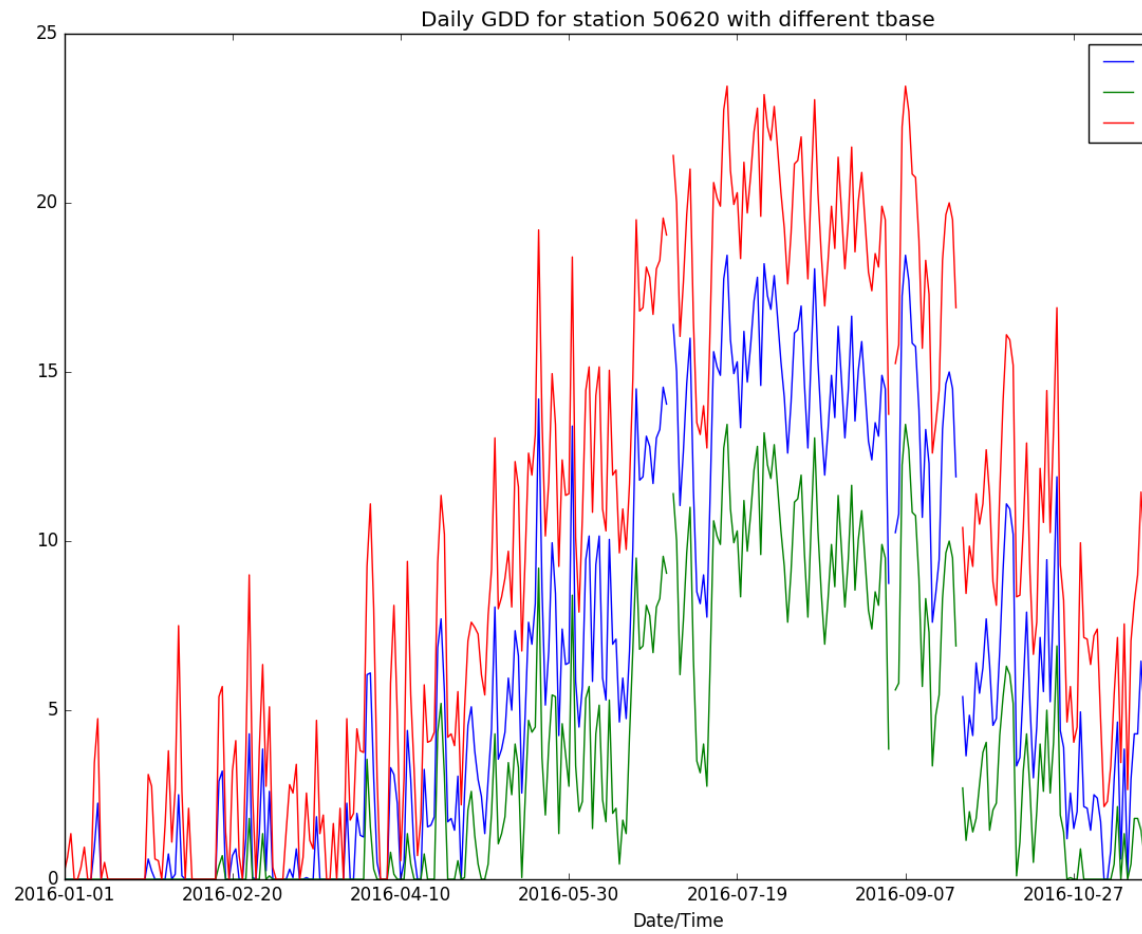
3 Core Tasks

3.1 GDD with varying Base Temperature

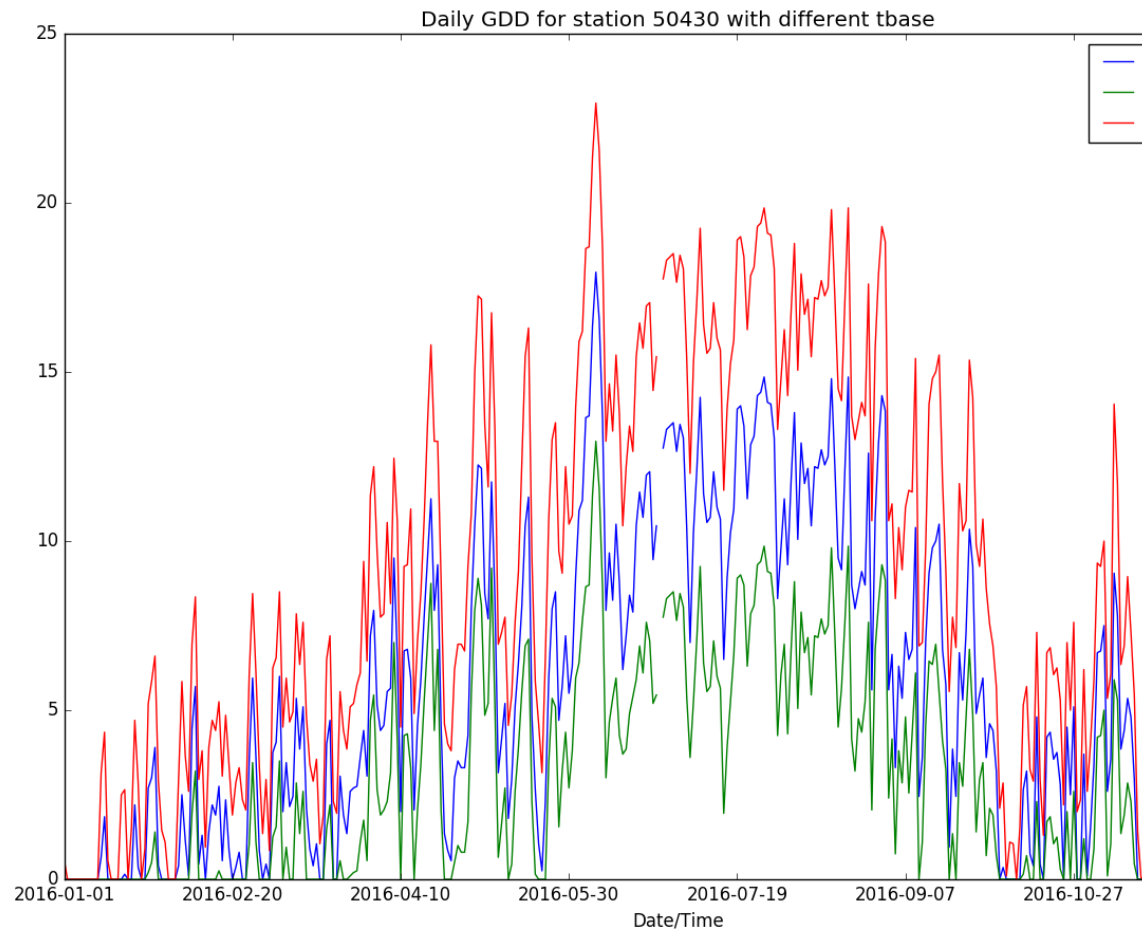
3.1.1 OTTAWA



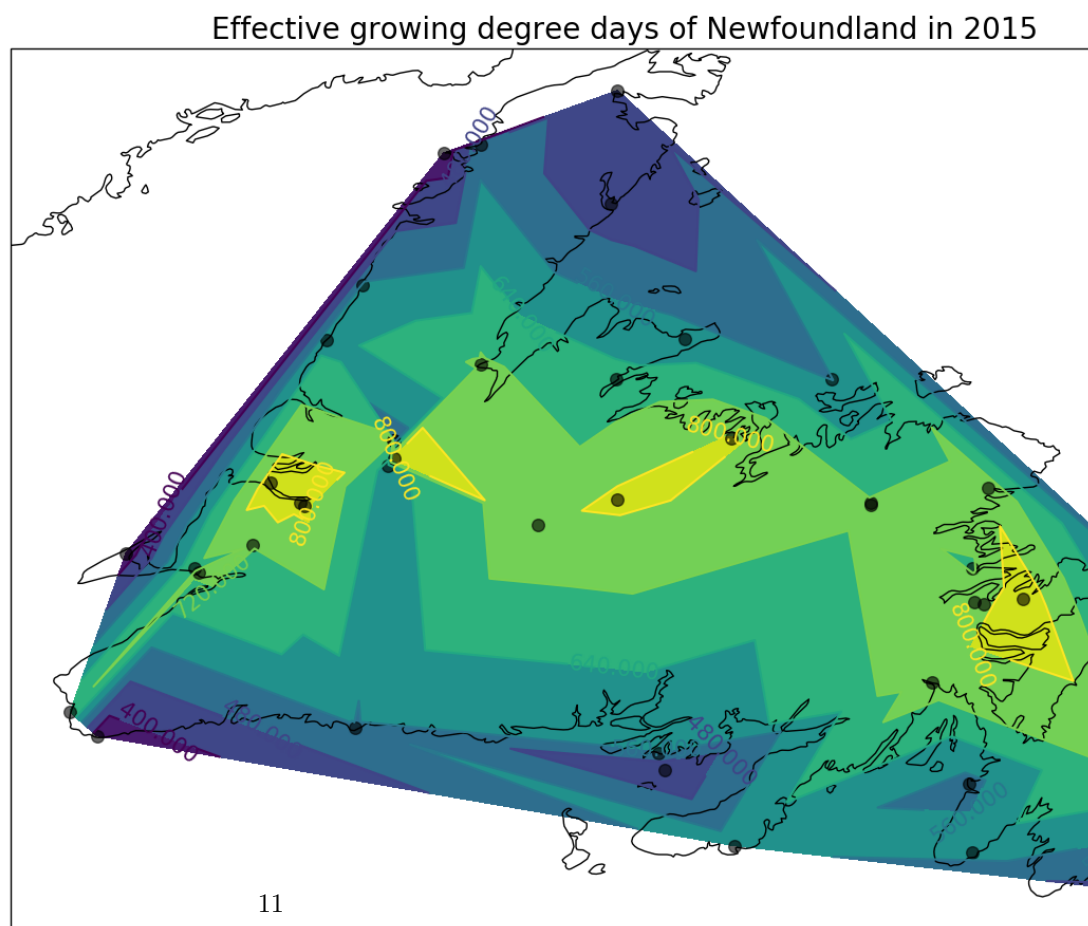
3.1.2 HALIFAX



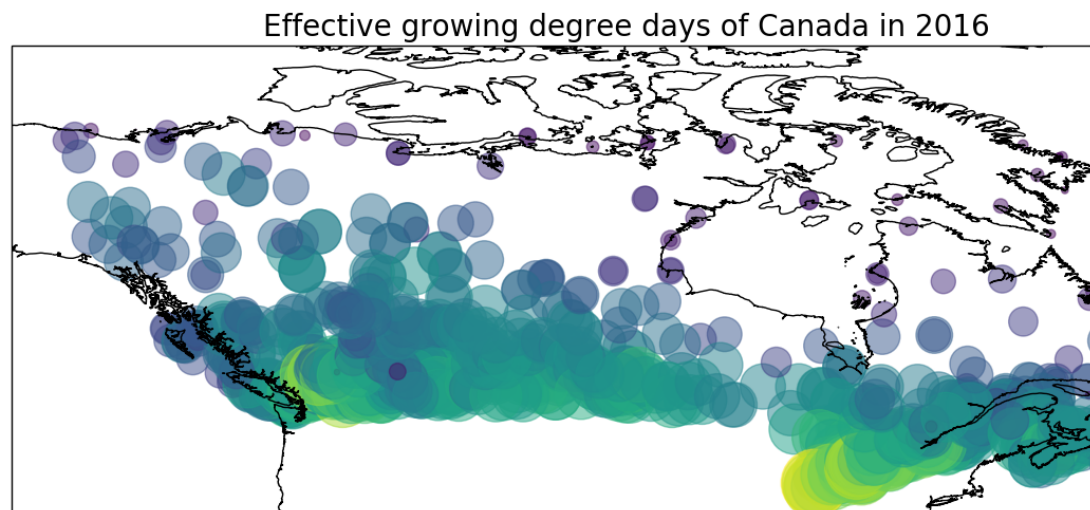
3.1.3 CALGARY



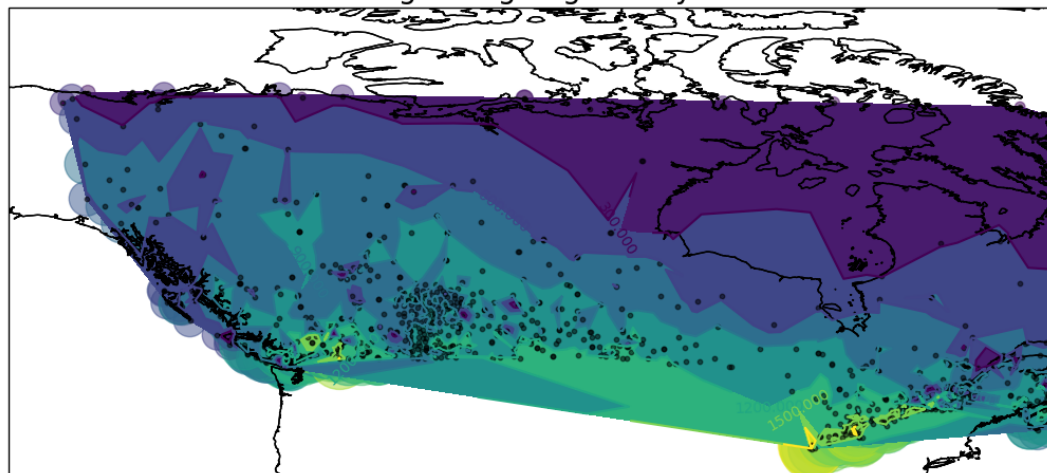
3.2 Effective growing degree days of Newfoundland in 2015



3.3 Effective growing degree days of Canada in 2016



Effective growing degree days of Canada in 2016



4 Conclusion