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# Growing Degree Day

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CMSC 6950 - COMPUTER BASED RESEARCH TOOLS AND APPLICATIONS

PROJECT REPORT

SUBMITTED BY

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# 1 Introduction

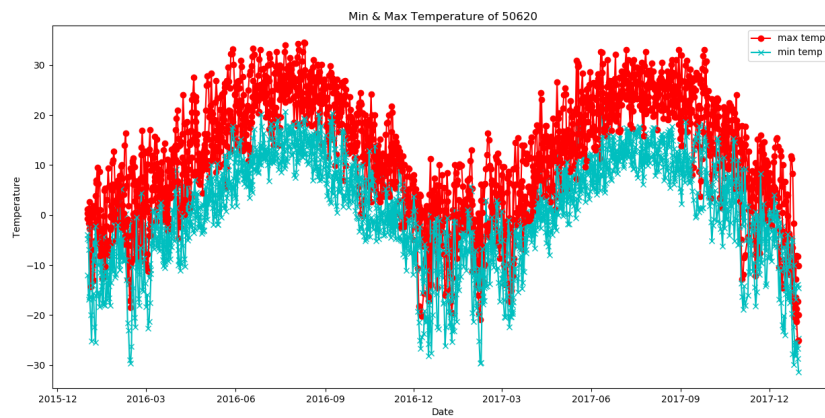
For this project, we have selected three cities from Canada, namely: Halifax, Ottawa and Calgary, for which we calculated and visually analysed the growing degree days for years 2016 and 2017.

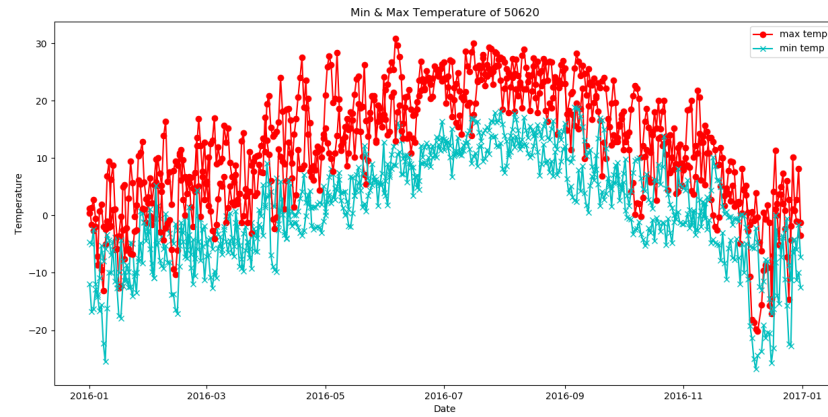
## 2 Core Tasks

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

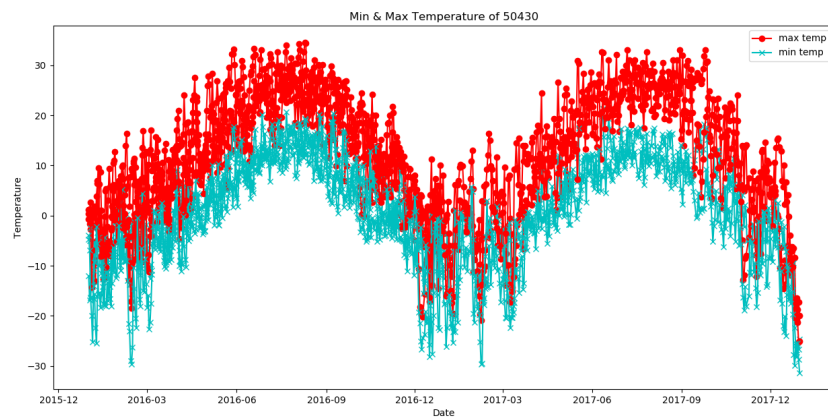
### 2.1 Min/Max Plots

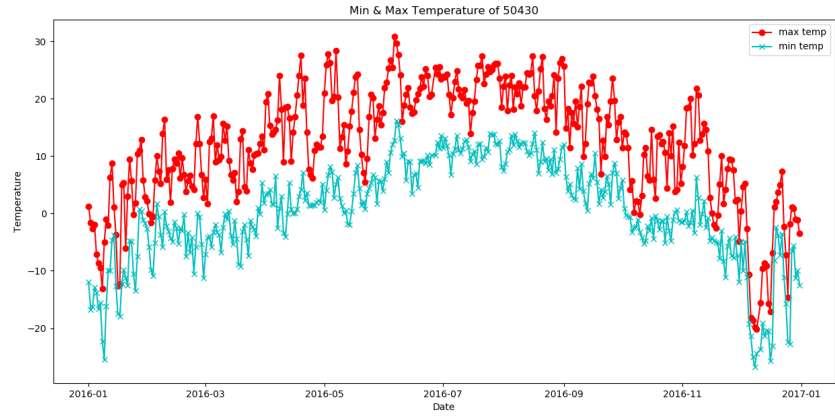
#### 2.1.1 HALIFAX



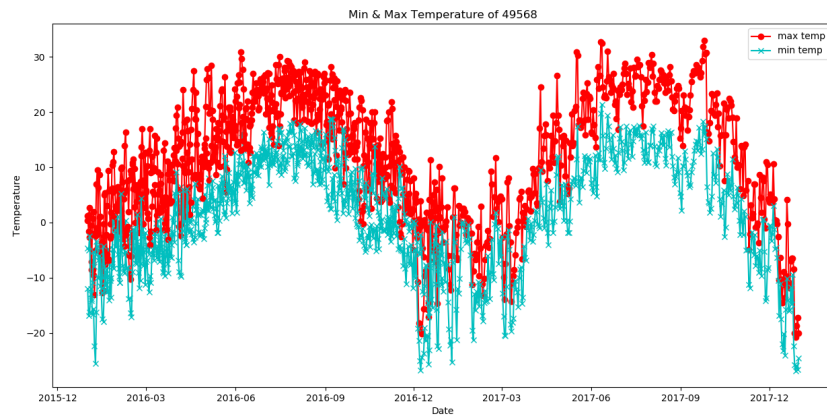


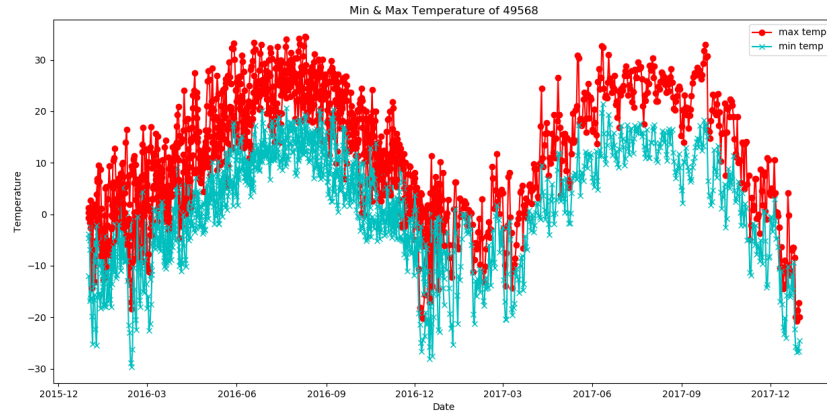
## 2.1.2 CALGARY



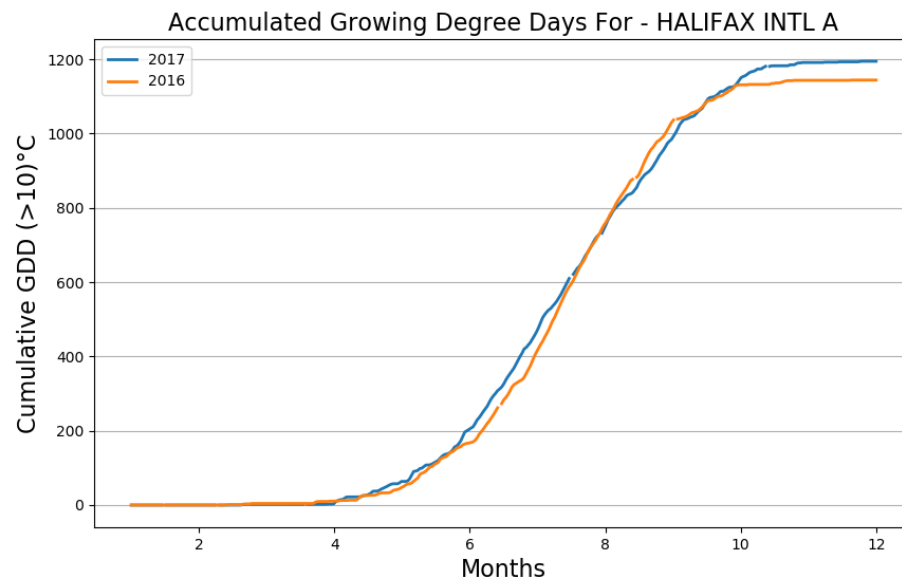


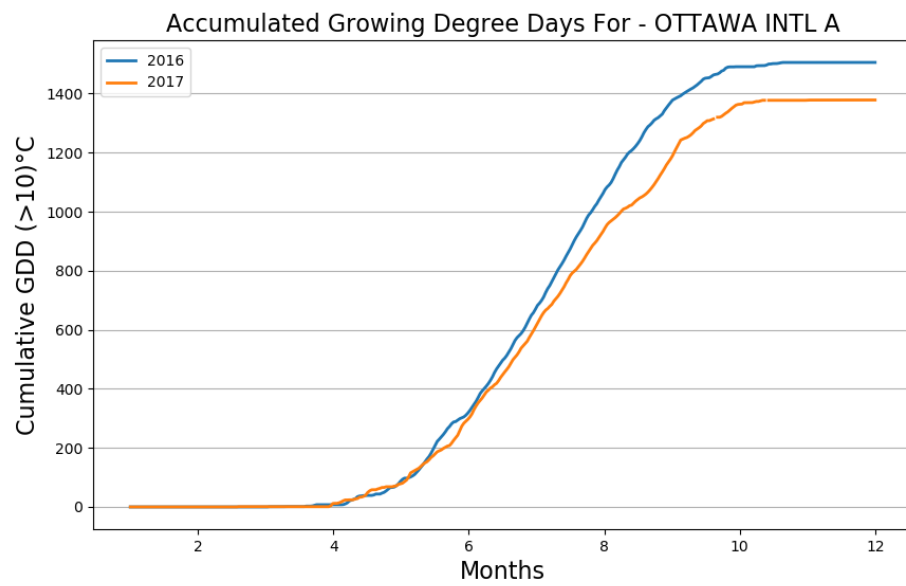
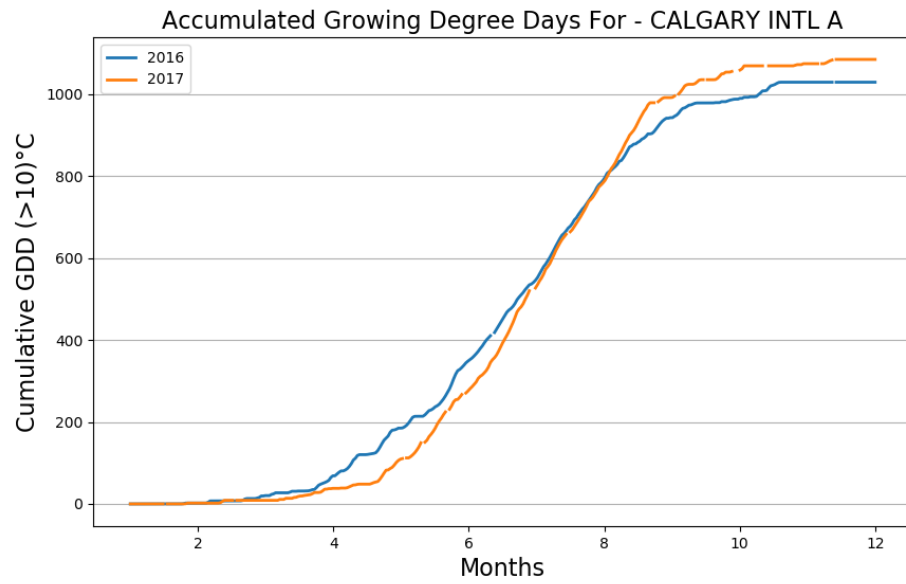
### 2.1.3 OTTAWA





## 2.2 Cumulative GDD

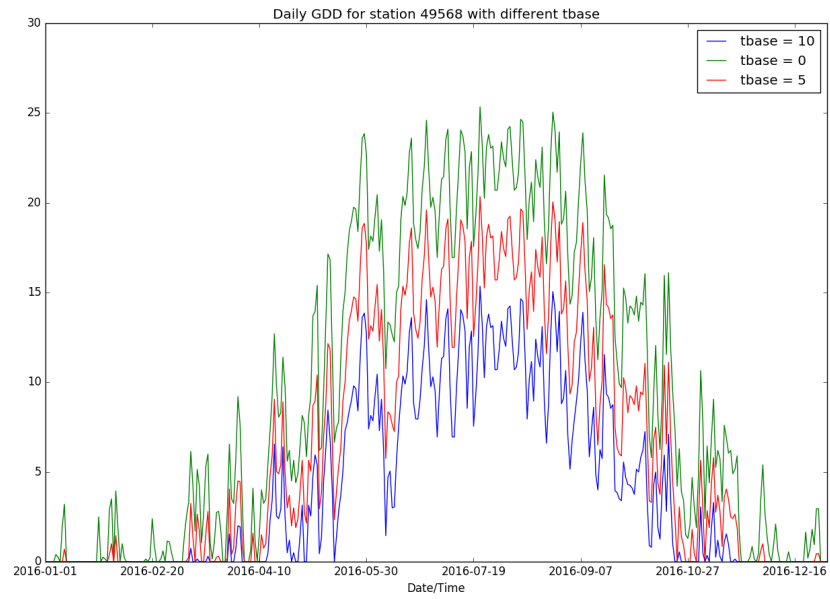




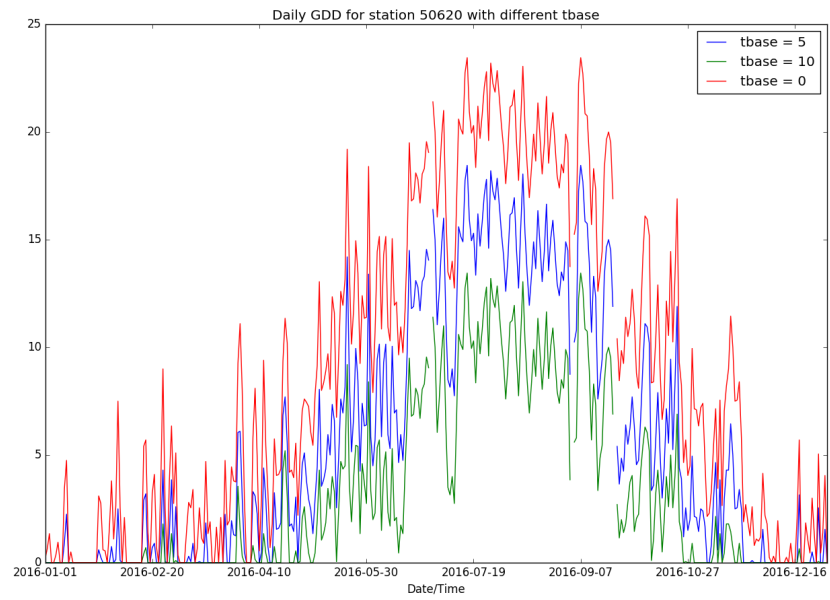
### 3 Core Tasks

#### 3.1 GDD with varying Base Temperature

##### 3.1.1 OTTAWA

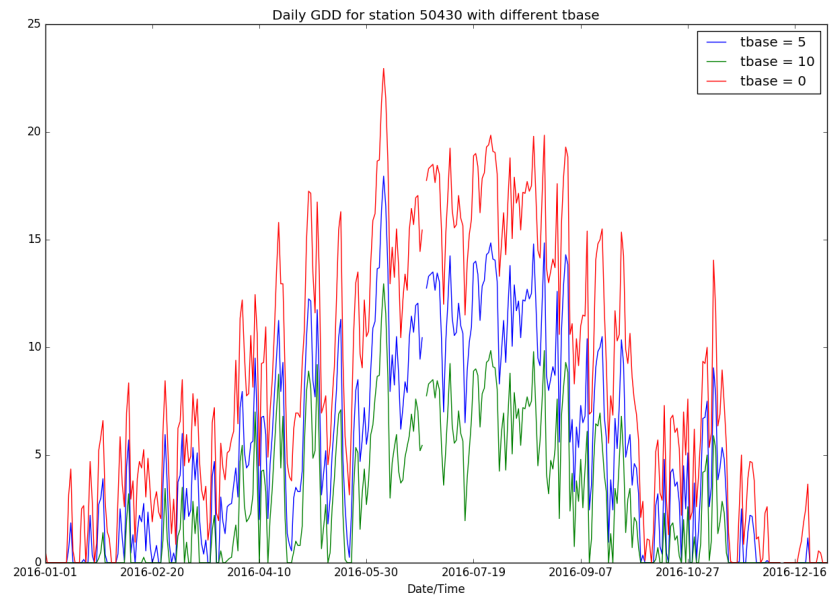


### 3.1.2 HALIFAX

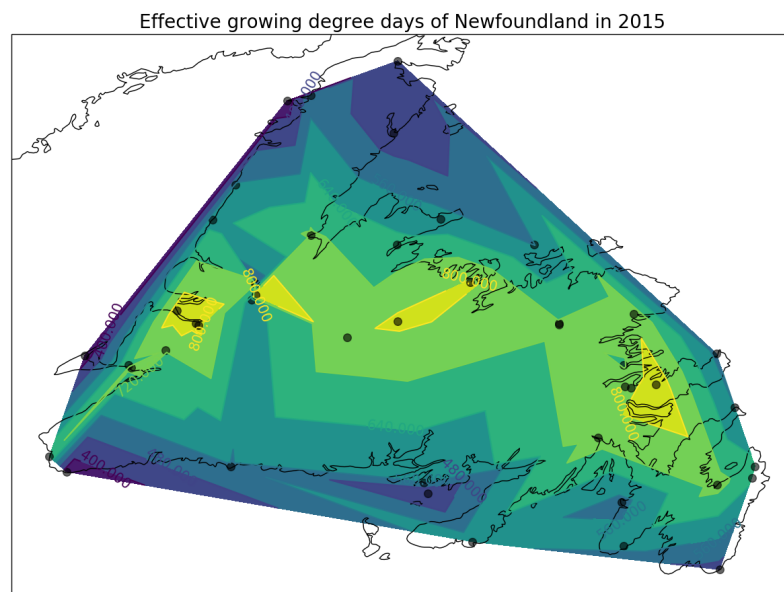




### 3.1.3 CALGARY



### 3.2 Effective growing degree days of Newfoundland in 2015



### 3.3 Effective growing degree days of Canada in 2016

