List of sites I will need to obtain observed water level data for along the St. Lawrence River:

I WILL USE THE DATA FROM NOAA FOR ALEXANDRIA BAY AND OGDENSBURG. I REALLY JUST NEED 1 MORE SITE DOWNSTREAM OF THE DAM…NEED TO OBTAIN THESE DATA FROM THE CANADIAN HYDROLOGIC SURVEY TIDES AND CURRENTS.

* ~~Kingston (ID = 02HM005)~~
  + Data Source: Environment Canada Historical Hydrometric Data
    - [Historical Hydrometric Data Download - Water Level and Flow - Environment Canada (ec.gc.ca)](https://wateroffice.ec.gc.ca/download/index_e.html?results_type=historical)
  + Period of record: 1969-2024 (can just extract 2017 data)
  + Unit of measurement: daily water level (m)
  + Need to filter this to just use the water level data (the CSV file I downloaded also contains discharge data, which I don’t need).
  + Need to clean this data too (some of which before loading into python), but save the meta data.
  + Datum: ASSUMED DATUM
* ~~Ogdensburg (ID = 8311030)~~
  + Data Source: NOAA Tides and Currents
    - Obtained in R using rnoaa package version = 1.3.4
  + Period of record: 01/01/2017 – 05/31/2017 (what I extracted)
  + Unit of measurement: daily average water level (m)
    - The column “f” represents a flag for data quality. When set to 1, this flag indicates that the water level value has been inferred or estimated rather than directly measured. All the data I queried have (0,0) for the column “f”, which means that there are no flags are associated with the water level data I obtained. That is, there are no special conditions or anomalies related to that specific water level reading (no flags in the data).
  + Datum: IGLD 1985
* ~~Alexandria Bay (ID = 8311062)~~
  + Data Source: NOAA Tides and Currents
    - Obtained in R using rnoaa package version = 1.3.4
  + Metadata: [Station Home Page - NOAA Tides & Currents](https://tidesandcurrents.noaa.gov/stationhome.html?id=8311062)
  + Period of record: 06/01/1983-present (just extract 017 data)
  + Unit of measurement: daily average water level (m)
  + Datum: IGLD 1985
* Brockville (ID = 02MB010)
  + Data Source: Environment Canada Historical Hydrometric Data
    - [Real-Time Hydrometric Data Graph for BUELLS CREEK AT BROCKVILLE (02MB010) [ON] - Water Level and Flow - Environment Canada (ec.gc.ca)](https://wateroffice.ec.gc.ca/report/real_time_e.html?stn=02MB010)
  + Period of record: 1988-2024
  + Unit of measurement: daily water level (m)
  + Datum: ASSUMED DATUM
* Cardinal
  + No available observed water level data from my knowledge
* Iroquois Dam headwaters
* Morrisburg
* Long Sault dam
* Moses-Saunders headwaters and tailwaters
* Cornwall
* Summerstown
* Lery Beauharnois
* Pointe Claire (Lac St. Louis) (ID = 02OA039)
  + Data Source: Environment Canada Historical Hydrometric Data
    - [Real-Time Hydrometric Data Graph for SAINT-LOUIS (LAC) A POINTE-CLAIRE (02OA039) [QC] - Water Level and Flow - Environment Canada (ec.gc.ca)](https://wateroffice.ec.gc.ca/report/real_time_e.html?stn=02OA039)
  + Period of record: 1915-2024 (can just extract 2017 data, but might want to look at full period of record)
  + Unit of measurement: daily water level (m)
  + Need to clean this data (some of which before loading into python), but save the meta data.
  + Datum: IGLD 1985
* St. Lambert
* Varennes
* Sorel
* Lac St. Pierre
* Maskinonge
* Trois Rivieres
* Batiscan

Note: The Lake Ontario water level data use the IGLD 1985 for the datum. I feel most confident using observed water level data from Ogdensburg and Alexandria Bay because these data are all recorded on the same datum, IGLD 1985, and they come from the NOAA tides data set. Other locations simply don’t have data available, are not recorded on the same datum (and the conversion across datum’s doesn’t seem straightforward…), or they have data only on nearby tributaries, not the actual SLR.

* Also note that the Board made major deviations from Plan 2014 during the last week of May in 2017. For most of January through May and September through December 2017, outflows were set according to the rules in Plan 2014 (no deviations). The Board made deviations since the last week of May through the start of September 2017 (ILOSLRB, 2018)