Hourly precipitation data in .CSV format from NOAA Climate Data Online (Historical field observations)

[Climate Data Online (CDO) - The National Climatic Data Center's (NCDC)](https://www.ncei.noaa.gov/cdo-web/)

1. Step 1) Navigate to Data Tools: Find a Station
   1. Click on “Data Tools”
   2. Click on “Find a Station”
2. Step 2) Find Stations around the geographical location of interest
   1. Enter Location
   2. Select Dataset: Choose “Precipitation Hourly”
   3. Select Date Range. For example:
      1. From: Jan 1, 2013
      2. To: Dec 31, 2013
   4. Check Precipitation
   5. The available stations with the data that was requested should show up on the map. Click on the station and “Add to Cart”
3. Check out your data
   1. Click on your Cart
   2. Step 1: Choose Options - click “Continue”
   3. Step 2: Review Order
      1. Station Detail & Data Flag Options: Check “Station Name” and “Geographic Location”
      2. Select data types for custom output: Check “Precipitation”
      3. Click “Continue”
   4. Step 3: Order Complete
      1. Enter Email Address
      2. Click “Submit Order”
4. Download from Email
   1. \*NOTE: check junk/spam email for Climate Data Online. You will receive two emails - one email confirming your order and the other email with the processed dataset.
   2. In the email, “Your order has been processed and is ready for download,” click on the hyperlink provided and download the dataset.

Tide Gauge Data: NOAA Tides & Currents

[Station Selection - NOAA Tides & Currents](https://tidesandcurrents.noaa.gov/stations.html?type=Water+Levels) - produces a .csv file with hourly tide data for all stations with harmonic constituents. It also offers high/low data for all stations in NOAA's published tide and current table.

1. Step 1) Select your Station based on city
2. Step 2) Set time frame. For example:
   1. From: Jan 1, 2013
   2. To: Dec 31, 2013
3. Step 3) Change Interval to 1 hr
4. Step 4) Change Datum to MSL for Mean Sea Level
5. Step 5) Click on “Data Only”
6. Step 6) Click on “Export to .CSV”