MarineGEO CPOP Data Viz

July, 2018

SI Physical Monitoring Netwo

Andy

nmnhmp.riocean.com/rcl_plot.php

SI Physical Monitoring Network

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Learn about SERC

Site
Overview

Data
Recent
24-hour Report
Archives
Downloads
Wind Rose Plots

Edgewater, Maryland, Recent Measurements

Use the controls to the right to access and plot recent data. Times shown on the charts are expressed in local standard time (EST). Data on this page is accessed from the field monitoring system and has not undergone a complete QA/QC process. Please view the disclaimer for more details.

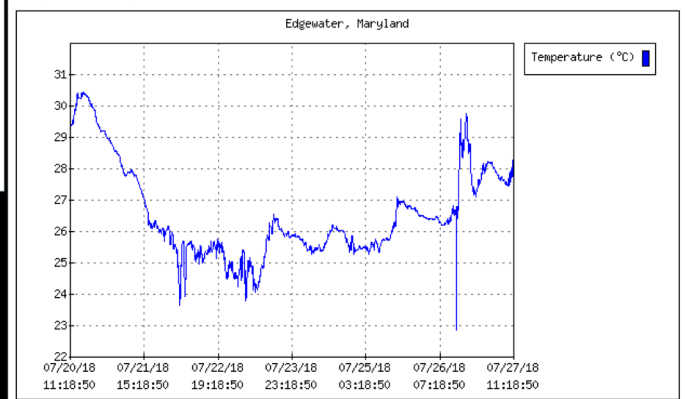

Chart Controls

Select a sensor: Water Quality
Select chart option: Overlay
View data from previous: 1 week

Select Parameters

- [x] Temperature (°C)
- [ ] Specific Cond (mS/cm)
- [ ] Conductivity (mS/cm)
- [ ] Salinity (psu)
- [ ] DO (%)
- [ ] DO (mg/l)
- [ ] Pressure (psi)
- [ ] Depth (meters)
- [ ] pH
- [ ] Turbidity (FNU)
- [ ] Chlorophyll (RFU)
- [ ] Chlorophyll (µg/l)
- [ ] BGA-PE (RFU)
- [ ] BGA-PE (µg/l)
- [ ] FDOM (RFU)
- [ ] FDOM (ppb QSE)
- [ ] Battery (Volts)

Apply

Hosting by Interactive Oceanographics

Version 23.1.4

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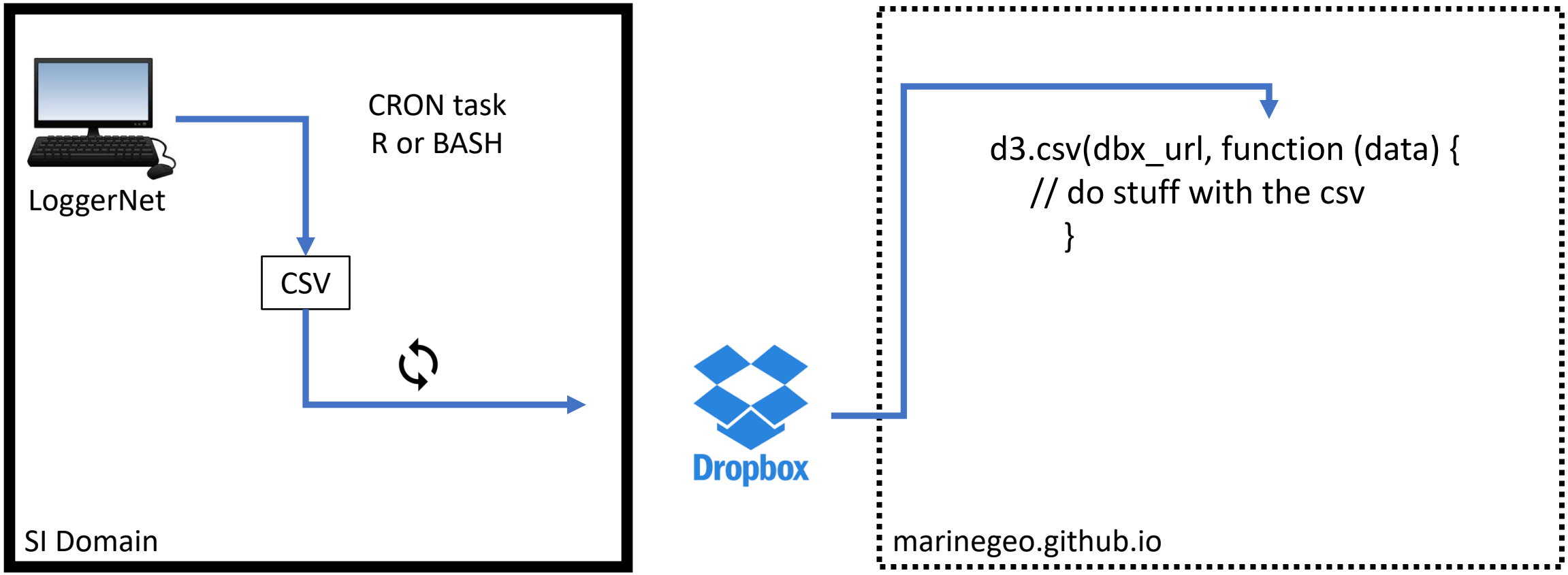
Serverless CPOP data visualization

- Cron (task scheduler – windows?)
- csv files available via a url (dropbox public file)
- github pages (marinegeo.github.io)
- D3 (javascript library)



'https://dl.dropboxusercontent.com/s/li1ciysypwc44t2/random_dice_generator.csv?dl=0'

Demo time

- Python script that simulates rolling two dice
- After each set of rolls,
  - appends results to a csv file
  - sleeps for 2 seconds between rolls
- CSV file is shared on dropbox public URL
- Website - D3 pulls in csv file on page load
  - table
  - plots

Start rolling dice….. `python random/random_dice.py`

https://marinegeo.github.io/cpop-viz-demo/

Water Quality Visualizations

- SERC
  - 2017-03-11 -> 2017-03-31
  - ~ 20 days (5k rows)
  - Data from 2017_Water_Quality_RAW_SERC.csv
- slider example
- multi-params example

- Note: sourcing csv file on github not dropbox

Issues

- LF vs CRLF line endings
  - line feed (unix) vs carriage return (windows) to separate rows
- Variable names with spaces (not sure about dashes)
  - Unable to use javascript dot notation
- Null data values
  - currently null data is: NA
    - need to figure out if D3 has a recommend format or
    - possibly catch exceptions