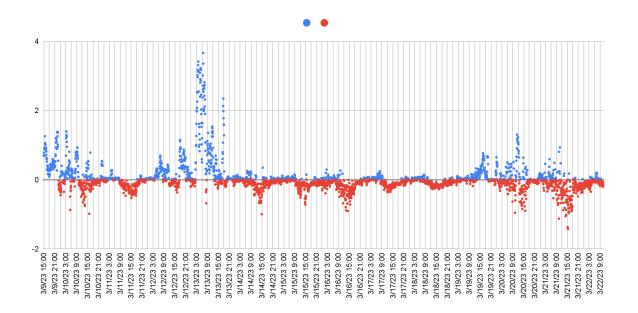
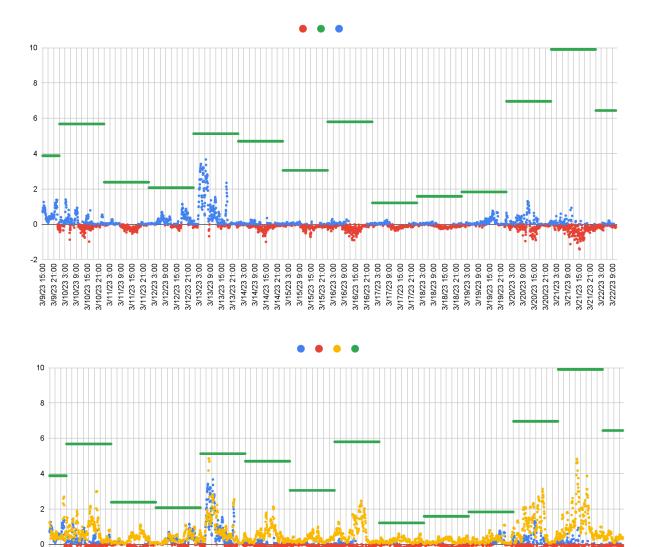
Evaporometer Project Written Report April 7, 2023 Marat Muzaffarov

I started by gathering wind data from Hydromet/Agrimet Data access. The reason why I chose their data depository is because after doing some of my own research and checking wind data across all of Corvallis, I realized that the values for the wind speed (mph) were very similar and did not change much across the entire city of Corvallis. Additionally, Hydromet had mph values per day rather than daily air movement that Hyslup had.

I also worked on creating standard deviation code and made sure that it was accurate. As we discussed, the standard deviation is based on the changes in total weight of the water, so the more it changes, the more deviation there is. I was not sure what sort of graphing method would be preferred, so if I can make any edits, please let me know. Otherwise here is the labeling:

Blue- Rain
Red- Evaporation
Yellow- Standard Deviation Value
Green- Wind speed (over the course of a day)





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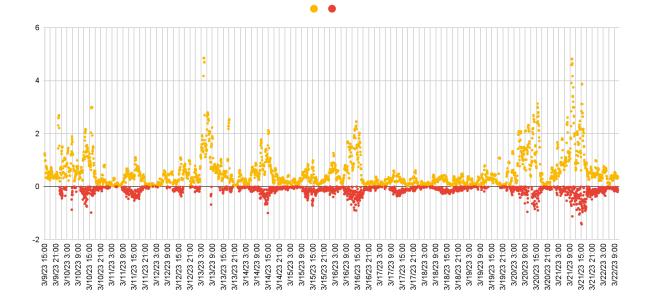
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Based on these graphs, I do believe that there is a relationship between wind speed and the weird, unnatural rain and evaporation levels. I believe this should be looked into more, however, I will make sure to check any new data and our previous data as well, with new wind speeds.

In my upcoming report, I will run the older, December/January data through this same process and graph them as well, to see if there are any other relationships we will see.