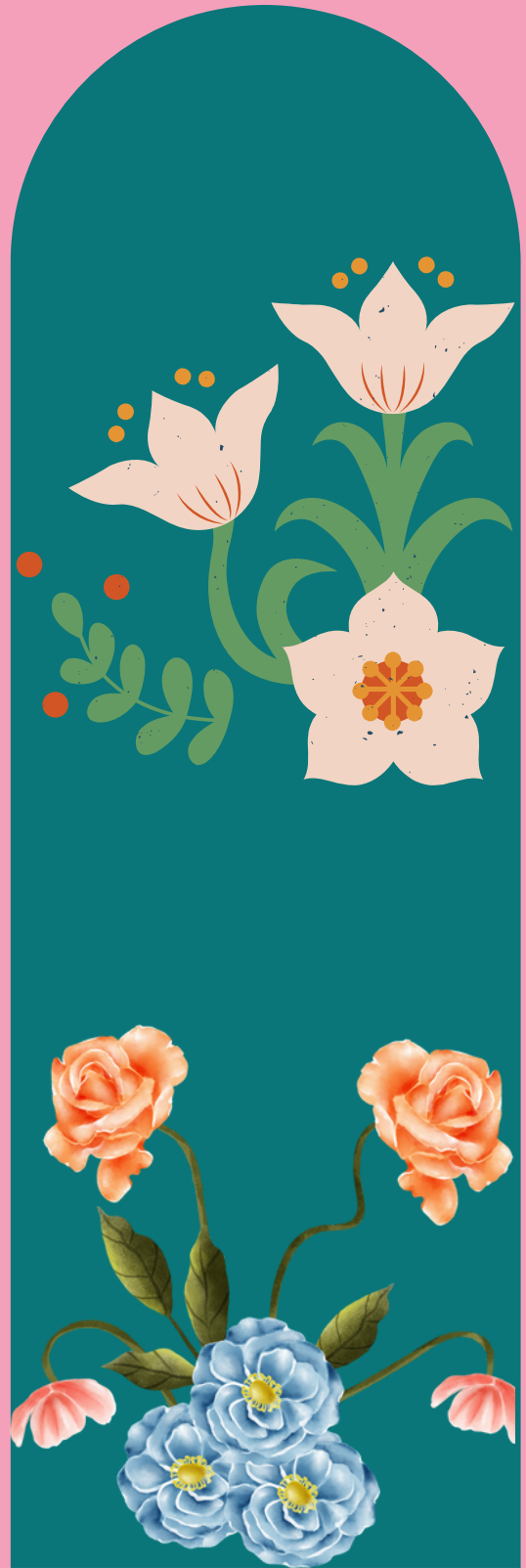


Data



Description

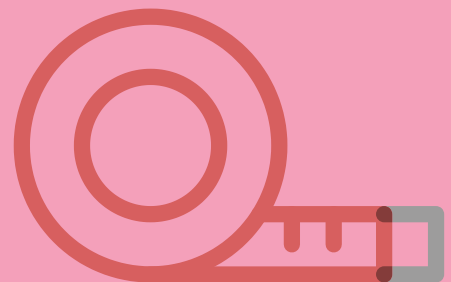


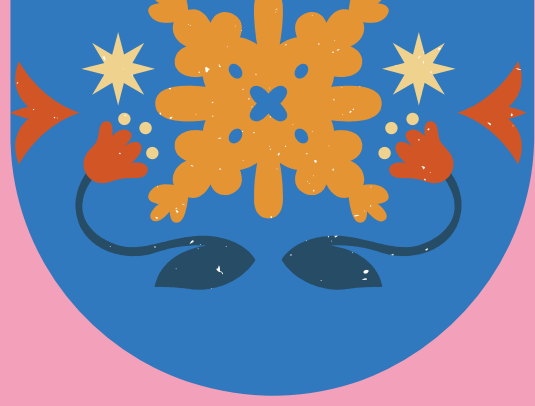
Wetlands project: Tessa S., Lauren H., Harrison L.

Sonde Data

Water Quality

- Hourly data from 10/2020 - 12/2021
- Two sites to compare: lagoon C & Wetland Basin 3
- Data on water quality parameter measurements
- Independent (site, time, date) vs. Dependent (water quality) Variables





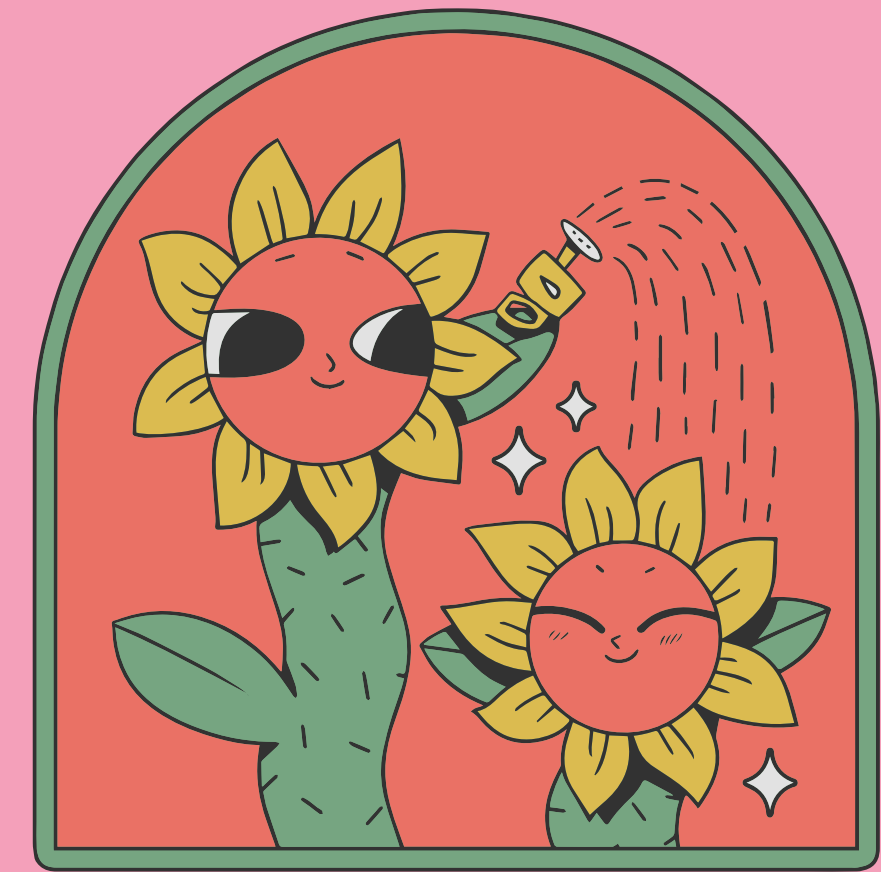
Variables

On Water Quality

- 1 Water Temp:** Changes in temp can alter existing species composition
- 2 pH:** Acidic/basic, influences solubility, low pH = high solubility = toxicity of heavy metals
- 3 Conductivity:** Water's capability to pass through an electric current; increased conductivity indicates pollution (untreated wastewater, stormwater runoff)
- 4 Turbidity:** The amount of light scattered by materials in the water (clay, silt, (in)organic matter, algae, living organisms)
- 5 Dissolved Oxygen (DO):** Important for aquatic organisms survival, DO decreases as organic matter decays (eutrophication)
- 6 Ammonia:** Product of microbiological decay of nitrogenous matter; excess harmful to vegetation and toxic to aquatic life

7 Oxidation Reduction Potential: DO commonly used as measurement to see if oxygen levels can support aquatic life; whereas ORP measures sanitation levels

8 Nitrate: Occurs naturally at safe levels (< 3 mg/L); however, concerns with levels over 10 mg/L (runoff, leakage, fertilizer)



Climatic Conditions (SUD Data)



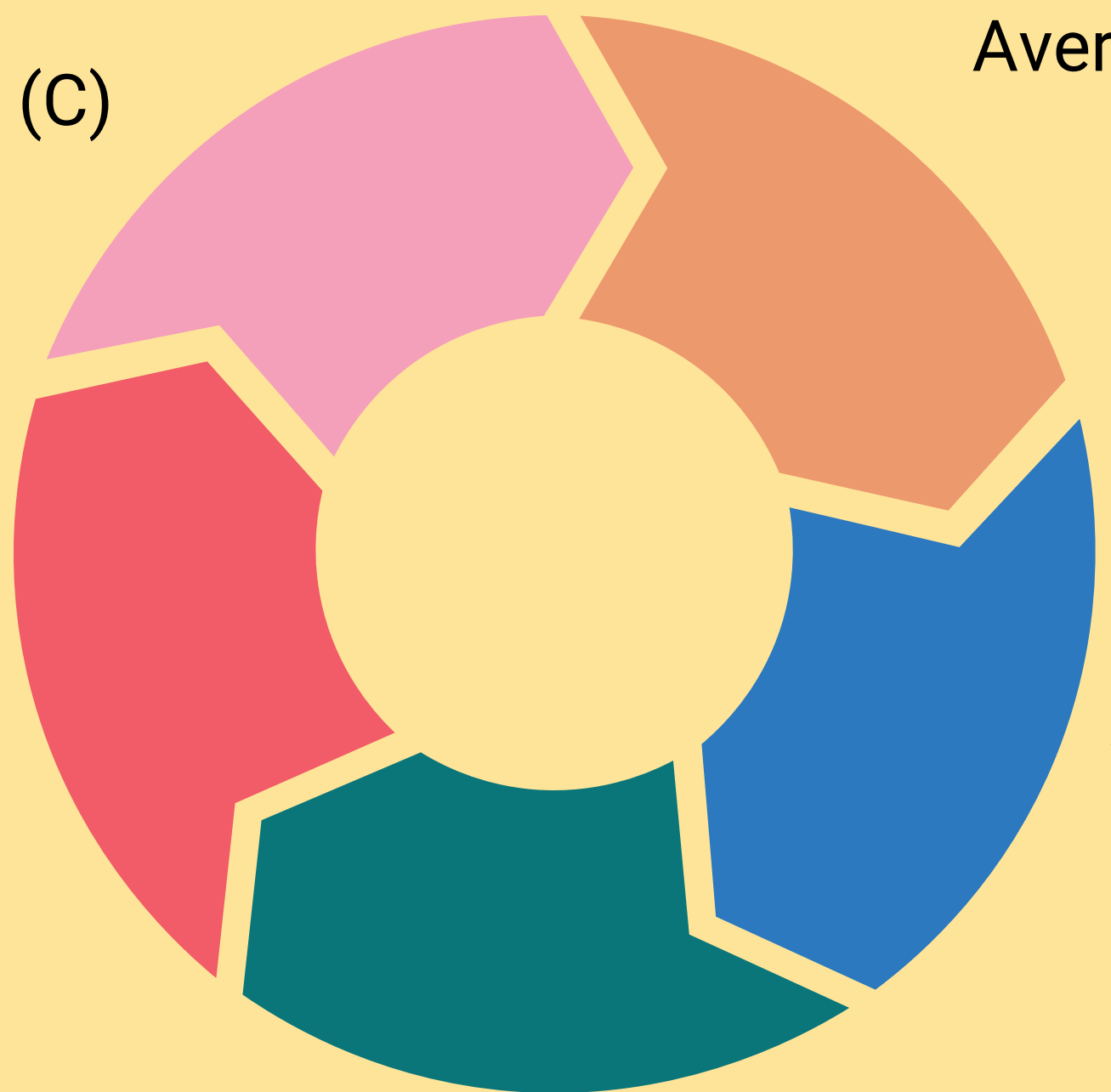
Average Air Temp (C)

Average Windspeed

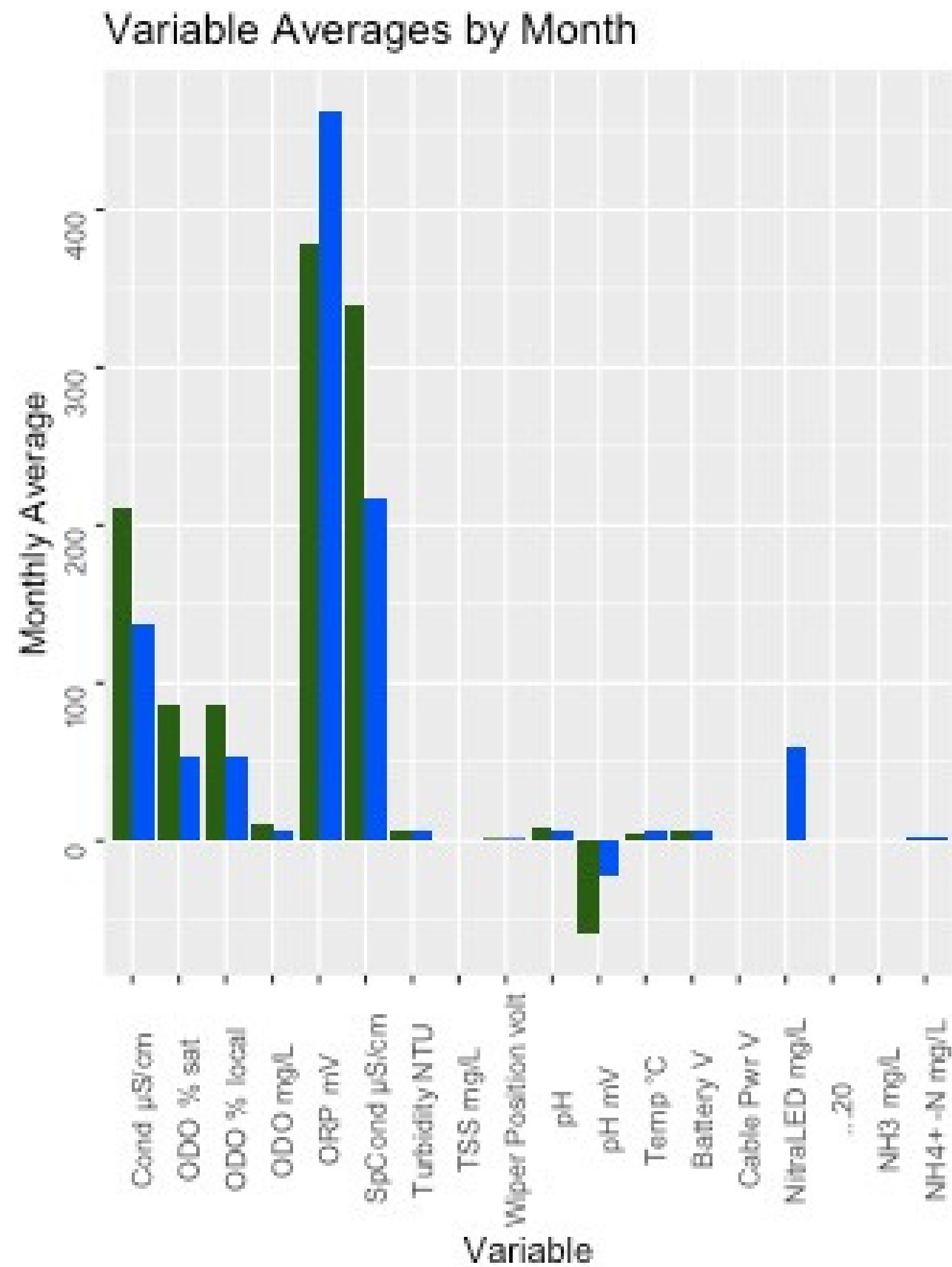
Time of Air Speed min/max

Volumetric Water Content

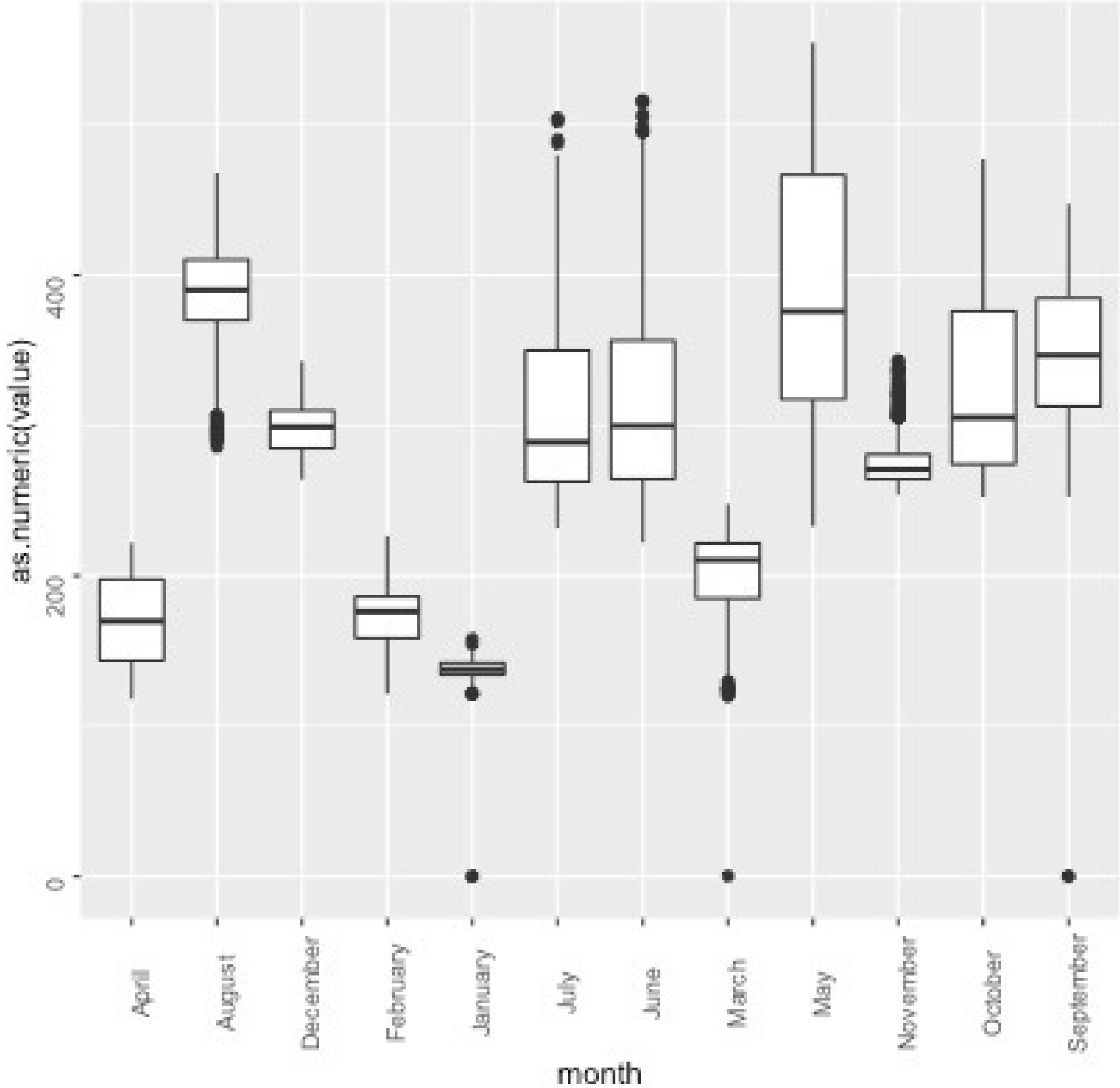
Time of Windspeed
min/max



Worst Graph



Best Graph



Select:

Year

2021

Site

Wetland Basin 3

Variable

Cond $\mu\text{S}/\text{cm}$