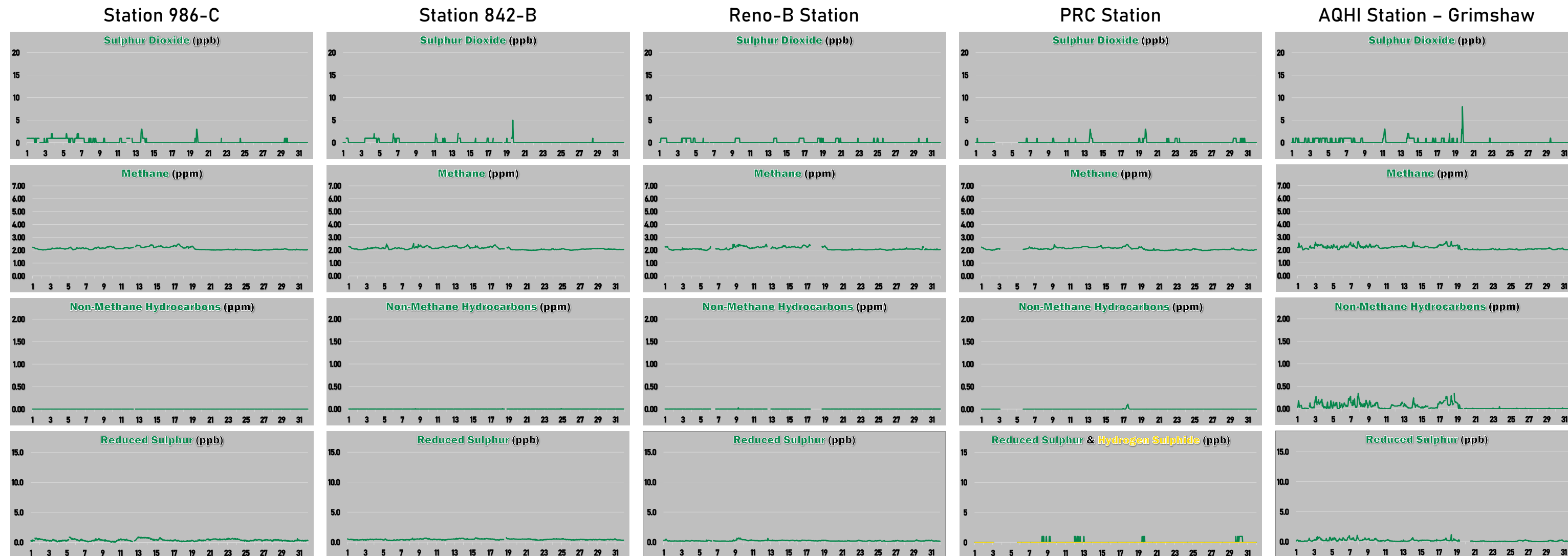


January 2023: Active Monitoring Program



Field Operations Summary (detailed field operations notes can be found in the monthly technical reports on the PRAMP [website](#))

986-C Station

- No major operational issues this month that resulted in reportable downtime events. Measured parameters were below Alberta Ambient Air Quality Objectives (AAAQOs) where applicable.
- The following parameters did not meet the 90% uptime requirement: Relative Humidity (6.9%), and Ambient Temperature (43.8%). High RH values were recorded starting in late December 2022. The probe was examined and cleaned on January 5, but it had only a temporary effect on readings. The RH/AT probe was replaced on January 12. Data were reviewed and discarded if readings were recorded near or at 100%. Forty-six hours and two hundred seventy-five hours of data recorded in December 2022 and January 2023 were invalidated due to this issue. The probe failed on January 14 due to a broken connector. Data collected between January 14 and January 31 were discarded. Four hundred seventeen hours of data were invalidated.

842-B Station

- No major operational issues this month that resulted in reportable downtime events. Measured parameters were below Alberta Ambient Air Quality Objectives (AAAQOs) where applicable.

Reno-B Station

- No major operational issues this month that resulted in reportable downtime events. Measured parameters were below Alberta Ambient Air Quality Objectives (AAAQOs) where applicable.

PRC Station

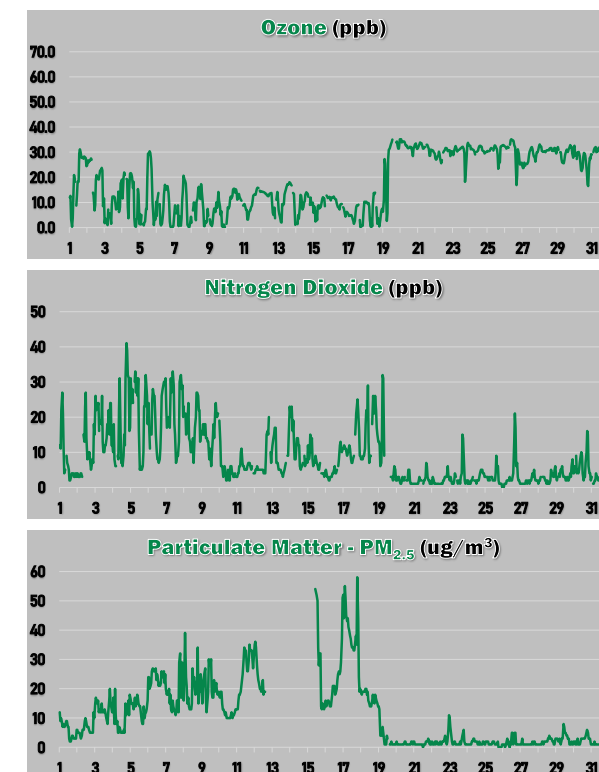
- Measured parameters were below Alberta Ambient Air Quality Objectives (AAAQOs) where applicable. The datalogger failed on January 3 and was replaced on January 5. Fifty-seven hours of data were lost due to this event.

AQHI Station - Grimshaw

- No major operational issues this month that resulted in reportable downtime events. One 24-hour exceedance of the PM_{2.5} Alberta Ambient Air Quality Objective was recorded on January 17, at a concentration of 38.9 ug/m³. This exceedance was caused by calm weather conditions; the stagnant episode was marked by sustained low wind speeds which hindered the dispersion of pollutants causing them to become built-up in the area.

NMHCs Canister Sampling Program

- One canister was collected on January 9 at 06:50 at the Reno Station; the non-methane concentration trigger was 0.39 ppm.



January 2023: Active Monitoring Program

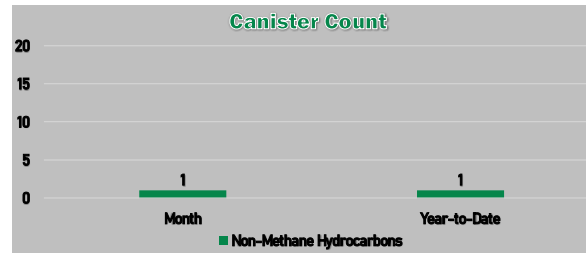
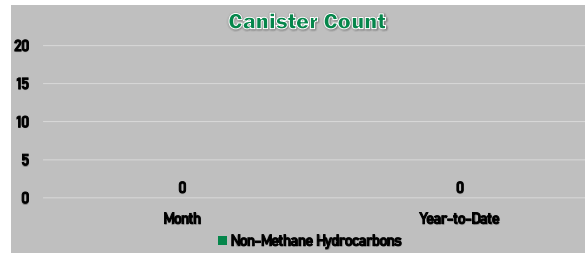
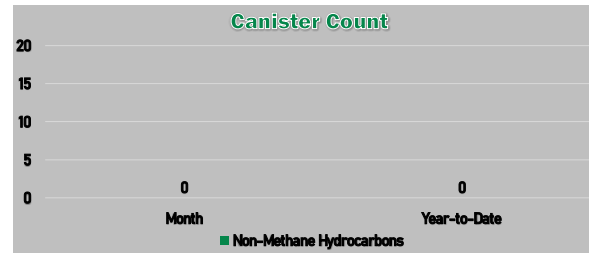
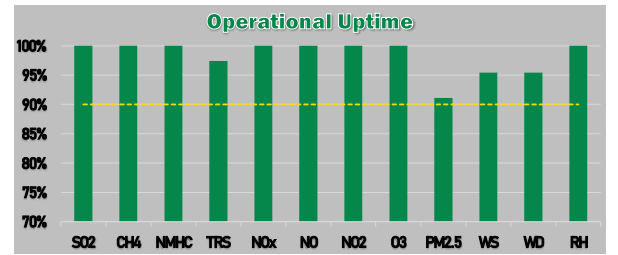
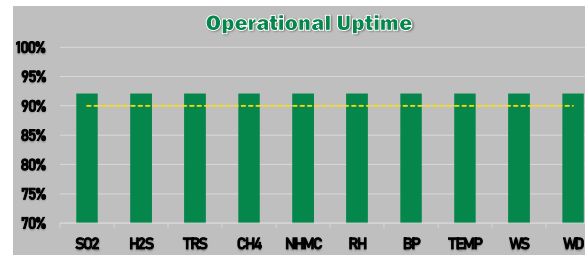
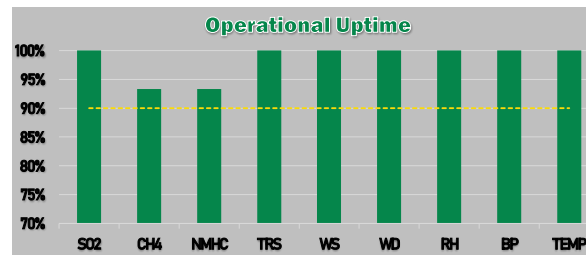
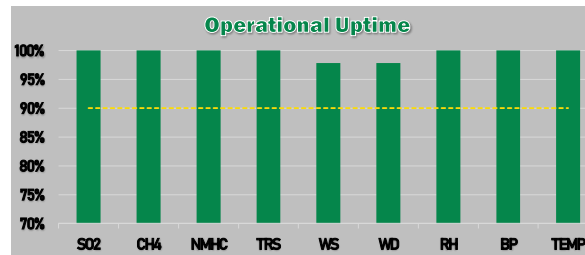
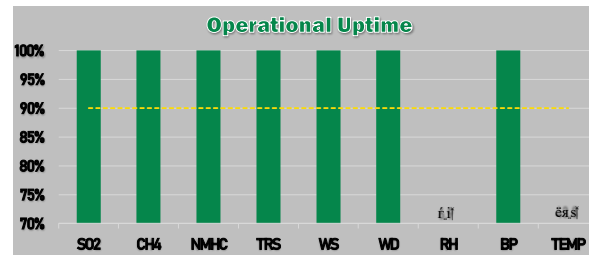
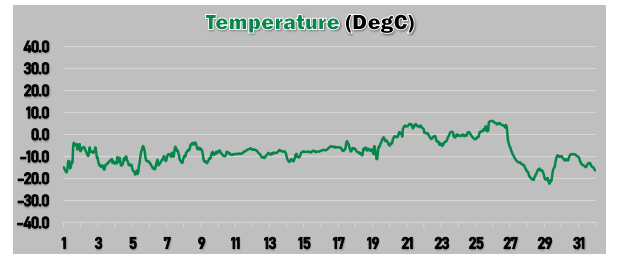
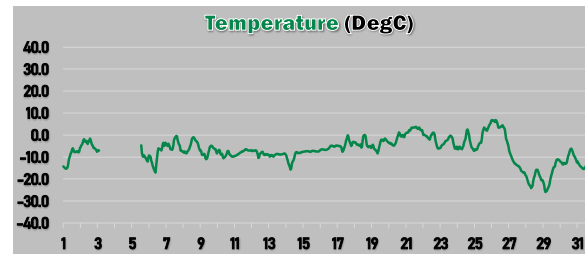
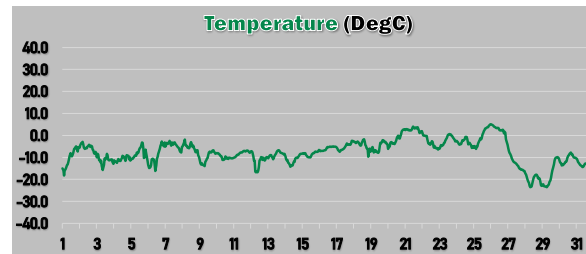
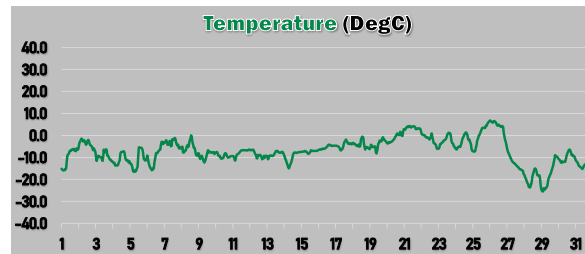
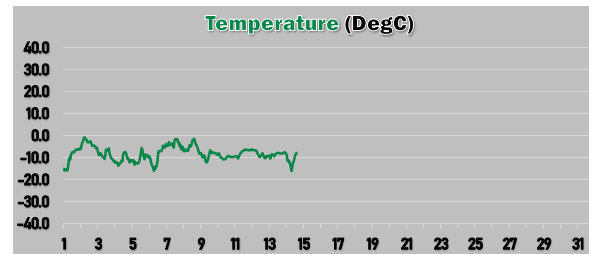
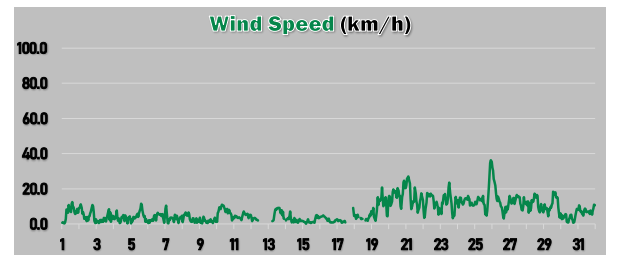
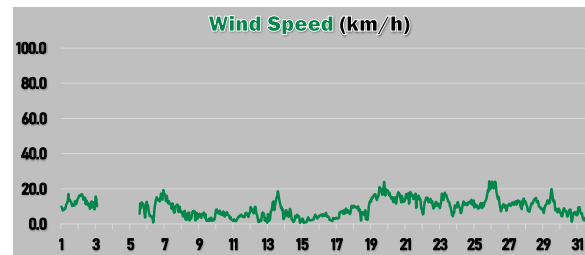
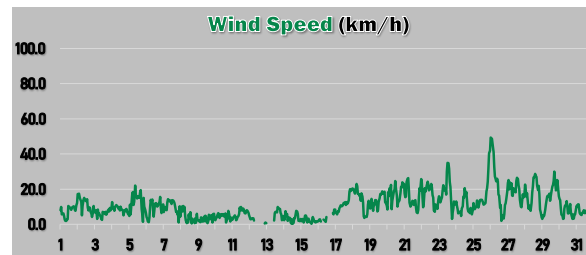
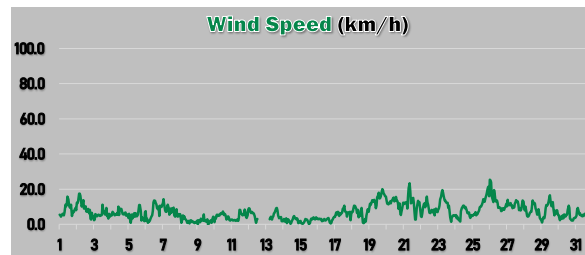
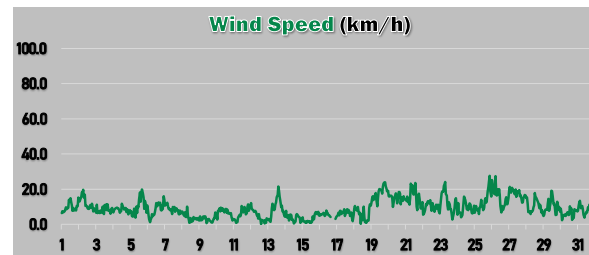
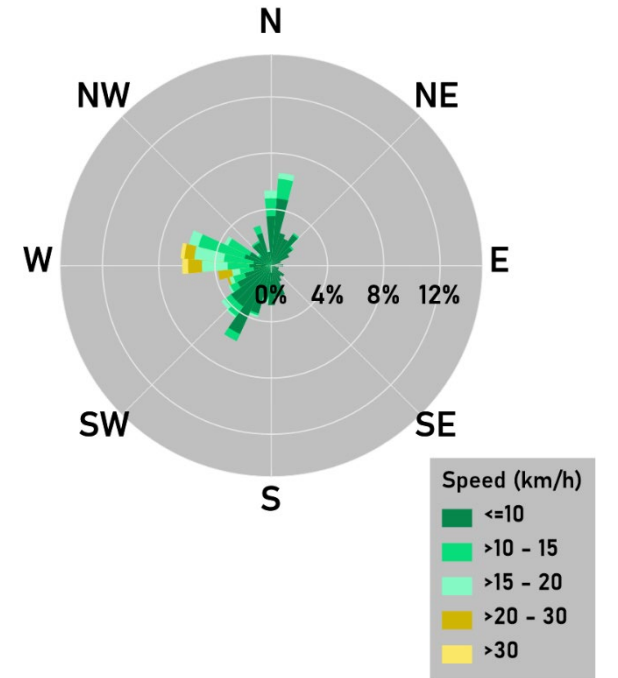
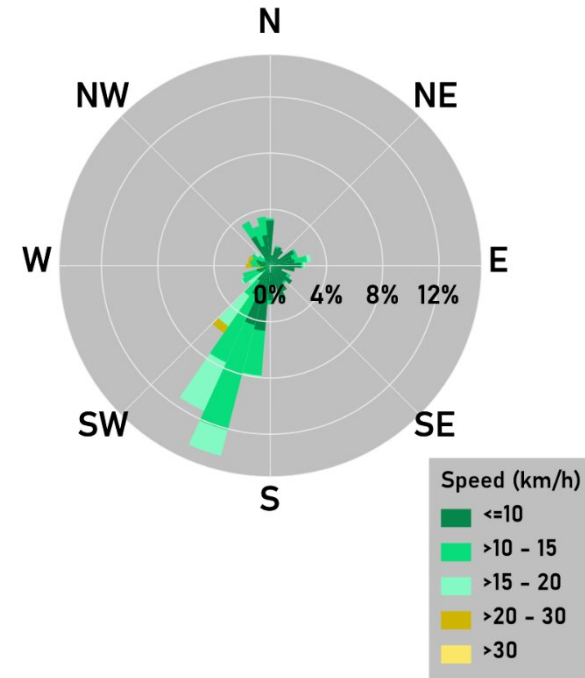
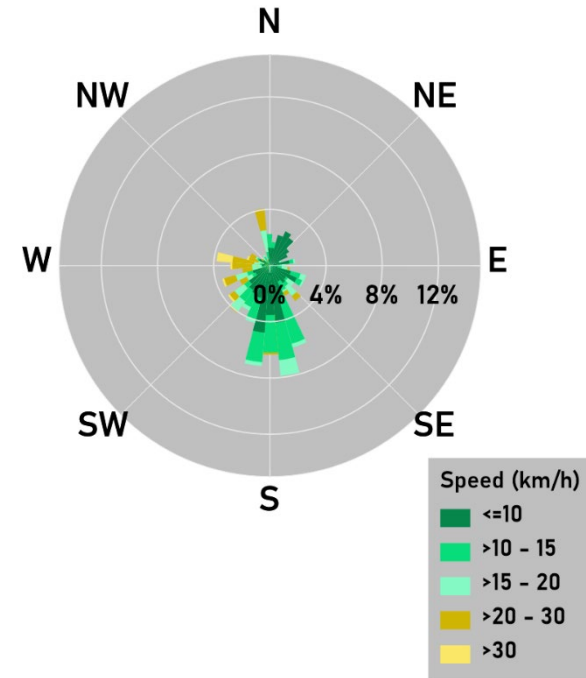
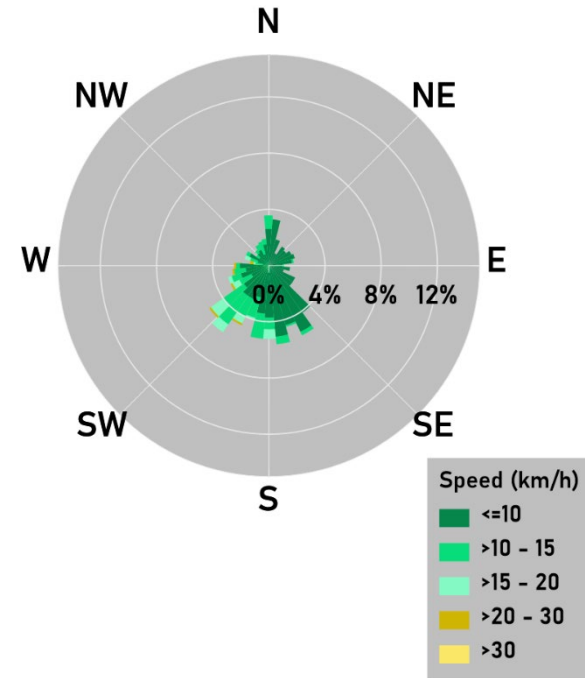
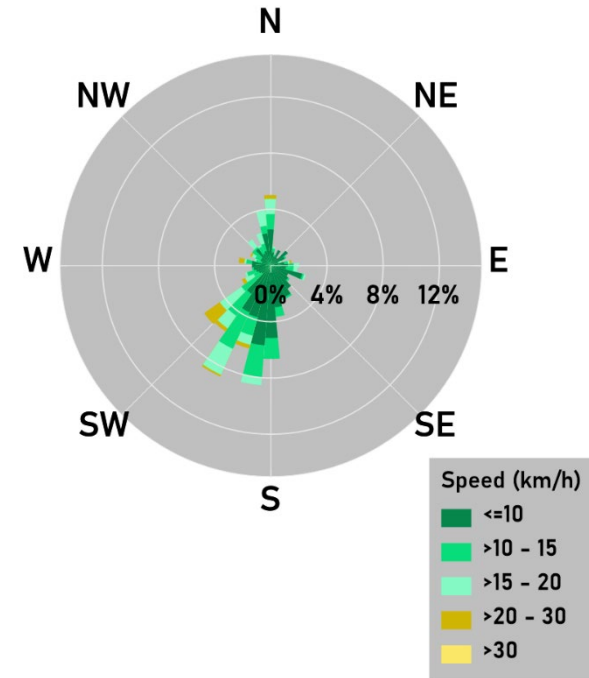
Station 986-C

Station 842-B

Reno-B Station

PRC Station

AQHI Station - Grimshaw



Targets, Guidelines, and Objectives
 Sulphur Dioxide 1h AAAQO = 172 ppb
 Ozone 1h AAAQO = 76 ppb
 Particulate Matter (PM_{2.5}) 1h AAAQO = 80 ug/m³
 Nitrogen Dioxide 1h AAAQO = 159 ppb
 Operational Uptime Requirement = 90%
 AQHI Risk Value = 1-3 Low, 4-6 Moderate, 7-10 High, >10 Very High

