

December 2022: Active Monitoring Program

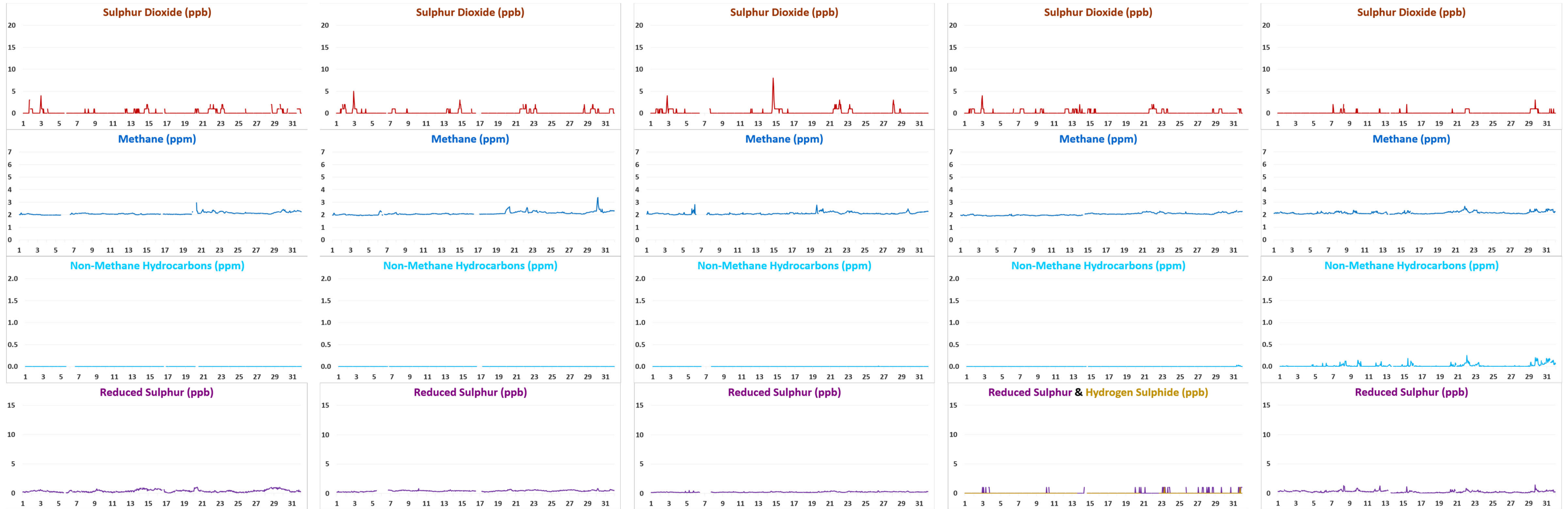
Station 986-C

Station 842-B

Reno-B Station

PRC Station

AQHI Station – Grimshaw



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

All Stations:

- Low ambient temperatures had a marked effect on TRS/H₂S span results. This is a perennial problem when the moisture levels in sample air drop very low, causing TRS/H₂S analyzer to respond more slowly due to the SO₂ scrubber requiring a certain ambient humidity to function optimally. Although daily span check results were often below the requirements, and the daily zero check results were occasionally close to or outside the allowable drift range, experience indicates the analyzer's performance remains in compliance with AMD performance criteria, and collected data remain valid. To minimize the impact by the ambient temperatures and humidity, a new batch of the SO₂ scrubber beads were used in the field. The SO₂ scrubber material is renewed as needed.

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.
- **THC/CH₄/NMHC:** The analyzer started having bad injections on December 1. Maintenance was performed on December 5. Data collected between December 1 and December 5 were reviewed and were discarded if data quality was affected by the injection issues. Hourly data collected on December 4 hour 5 was discarded as a result.

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

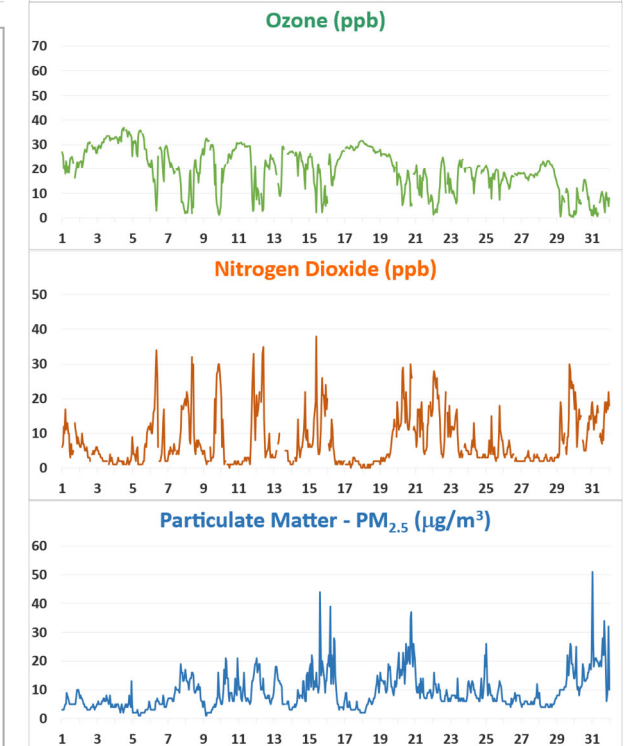
- No major operational issues this month that resulted in reportable downtime events. Measured parameters were below Alberta Ambient Air Quality Objectives (AAAQOs) where applicable.

AQHI Station – Grimshaw

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

NMHCs Canister Sampling Program

- There were no canister events recorded this month.



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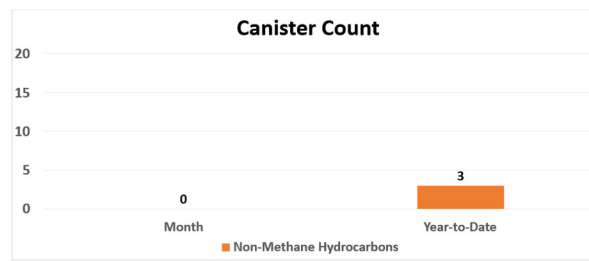
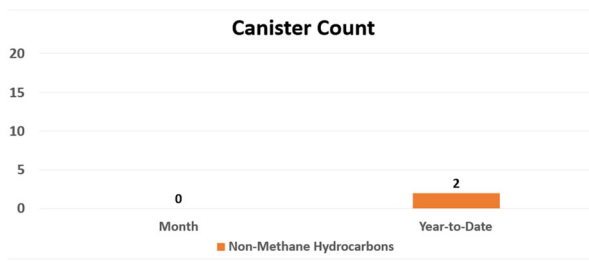
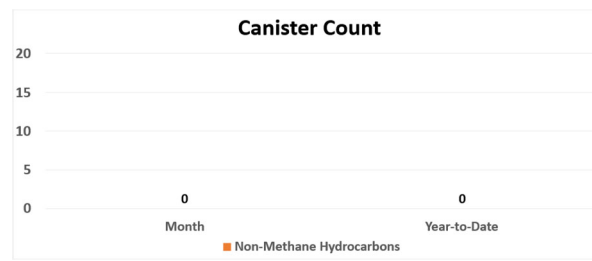
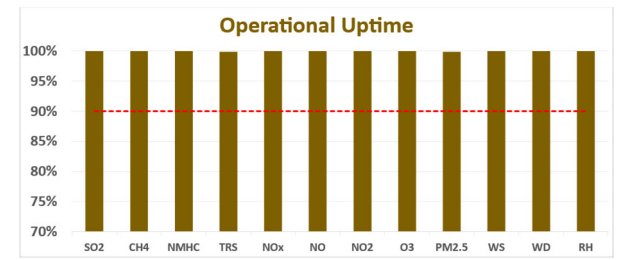
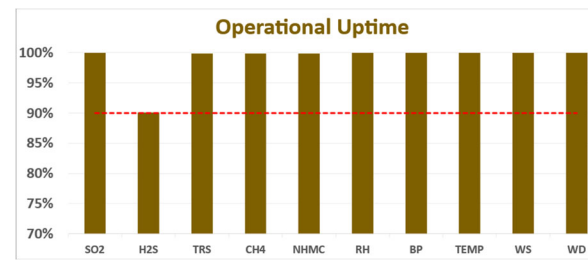
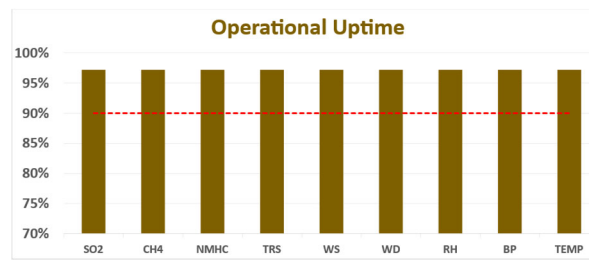
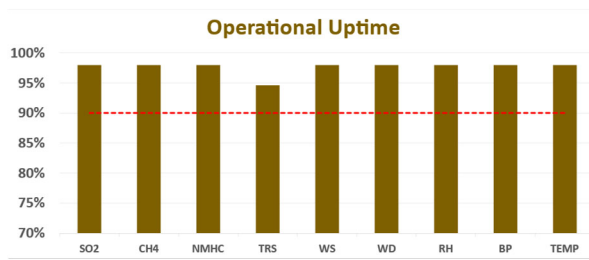
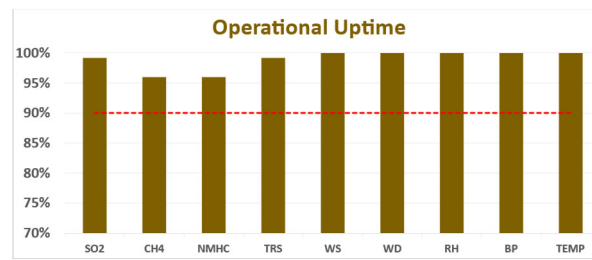
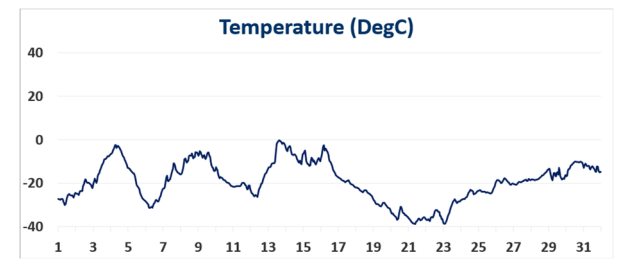
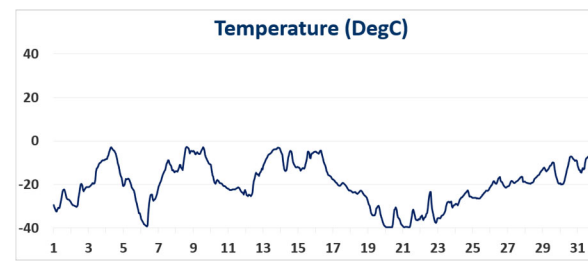
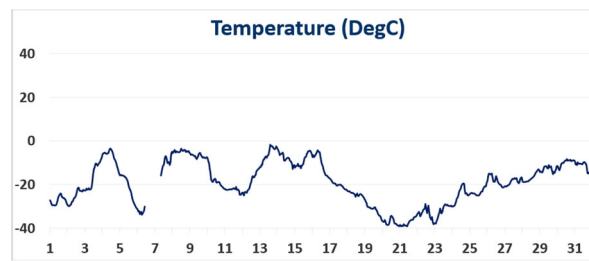
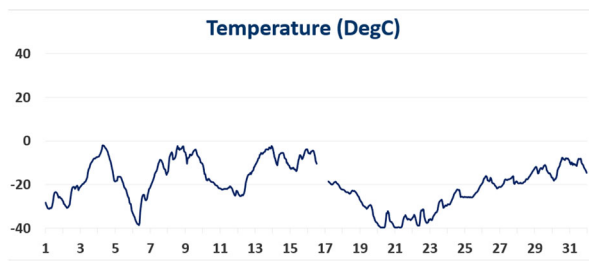
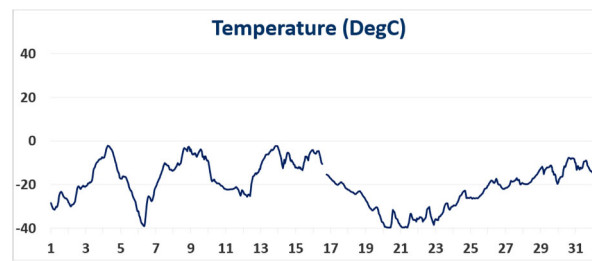
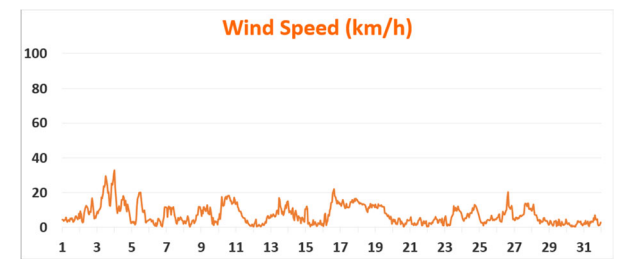
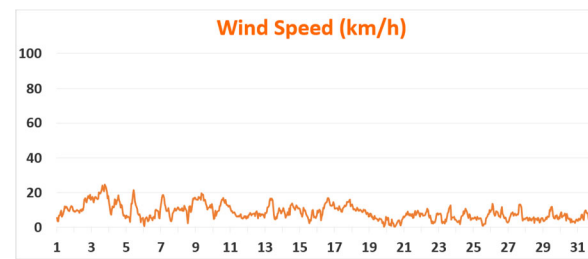
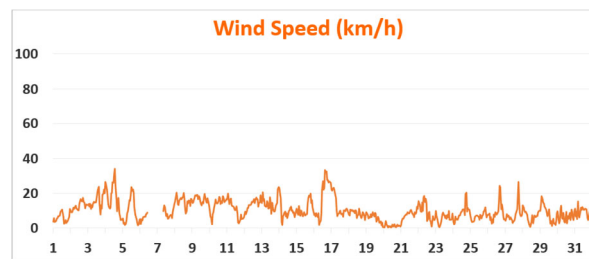
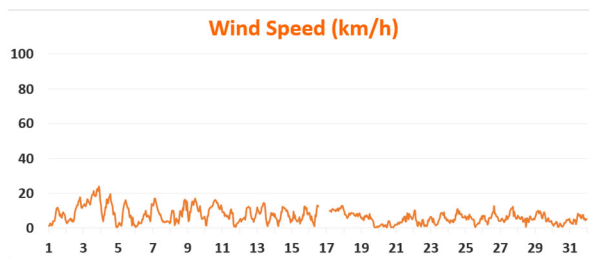
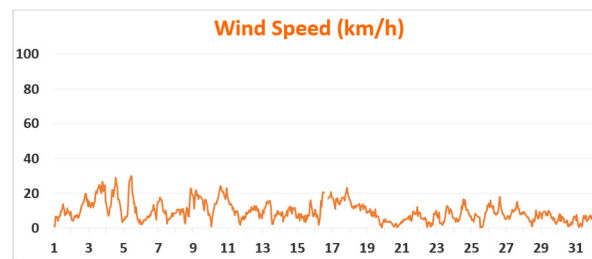
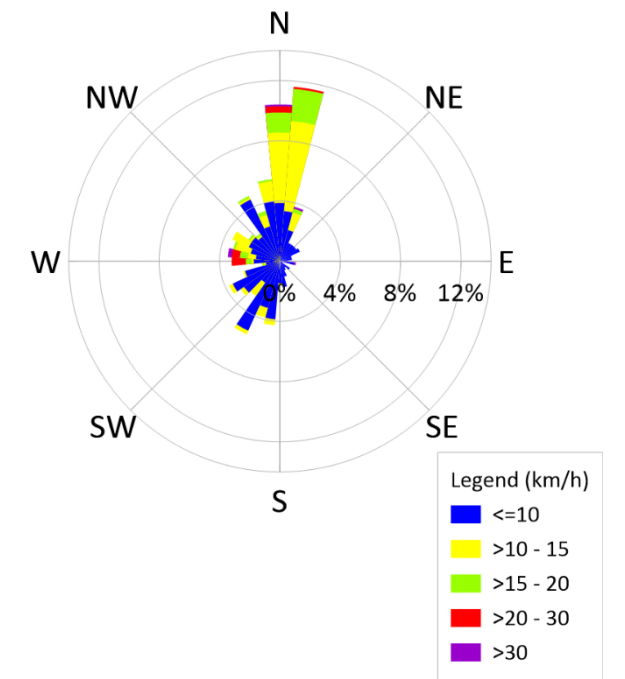
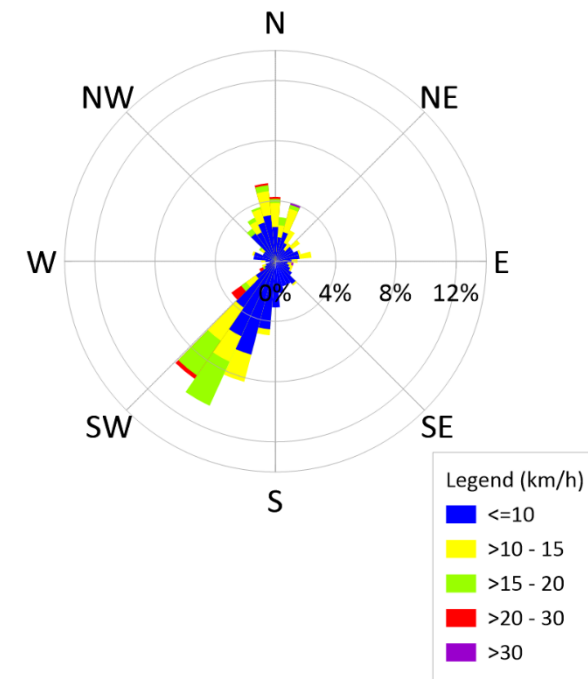
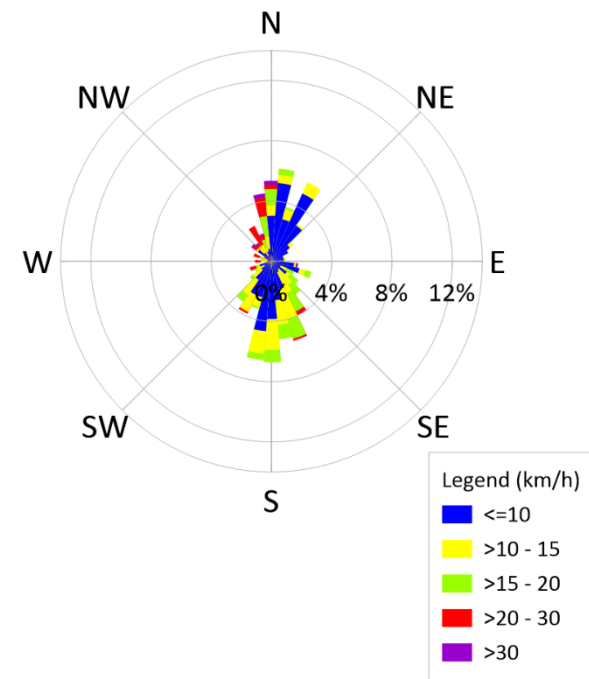
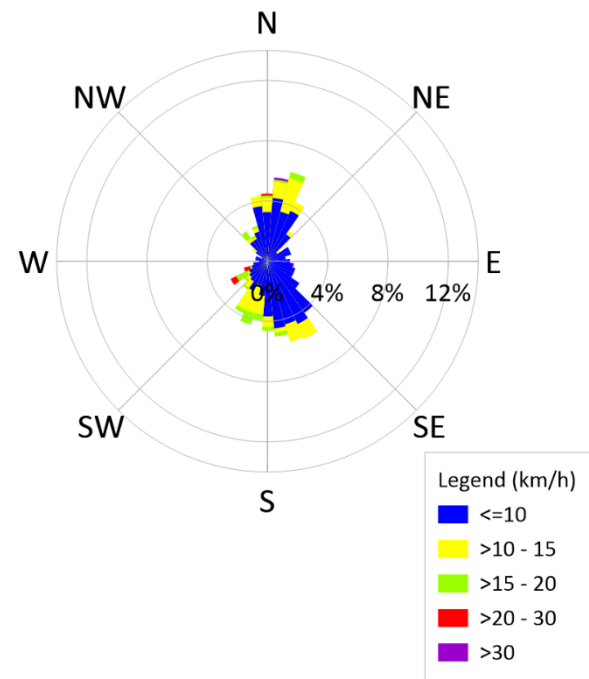
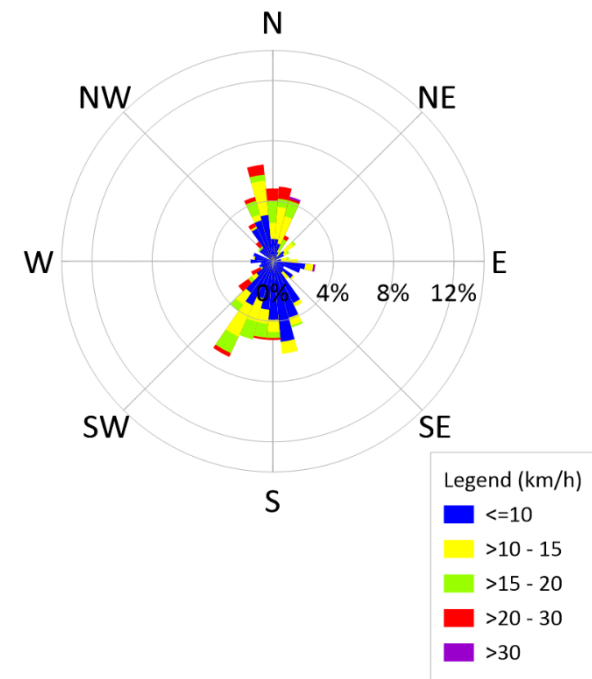
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Targets, Guidelines, and Objectives
 Sulphur Dioxide 1h AAAQO = 172 ppb
 Ozone 1h AAAQO = 76 ppb
 Particulate Matter (PM_{2.5}) 1h AAAQO = 80 µg/m³
 Nitrogen Dioxide 1h AAAQO = 159 ppb
 Operational Uptime Requirement = 90%
 AQHI Risk Value = 1-3 Low,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

