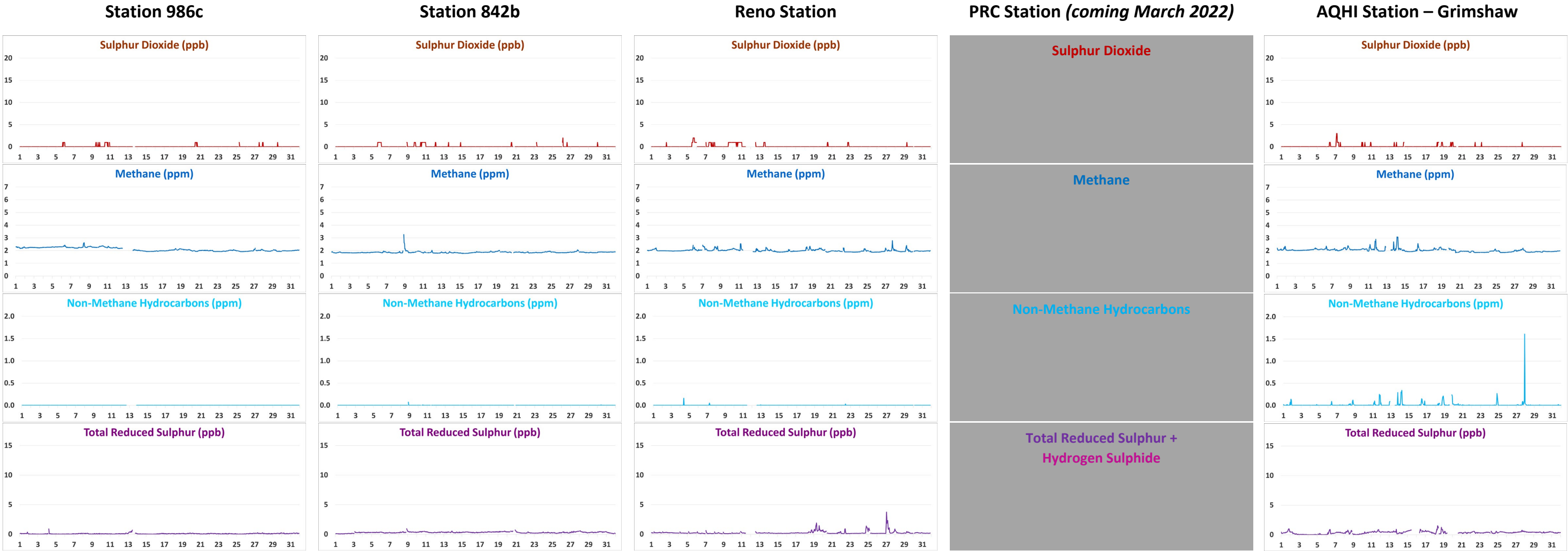
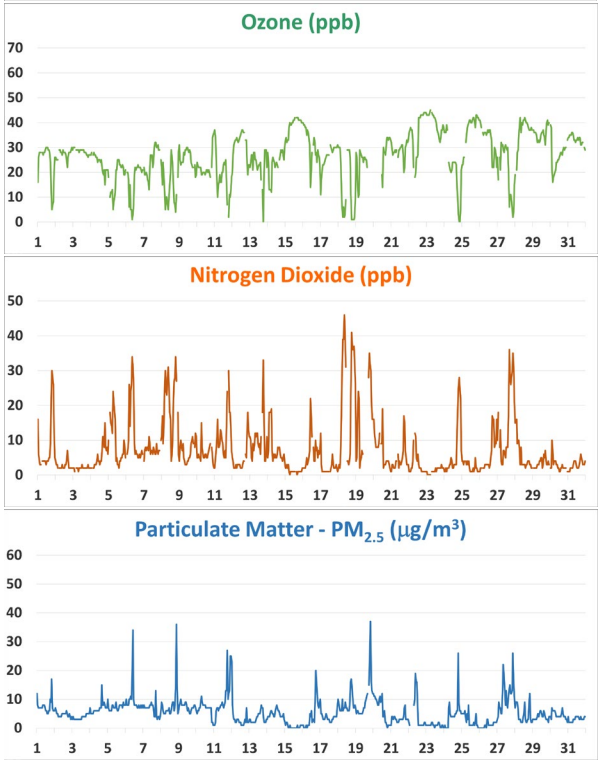


January 2022: Continuous (Active) Monitoring Program

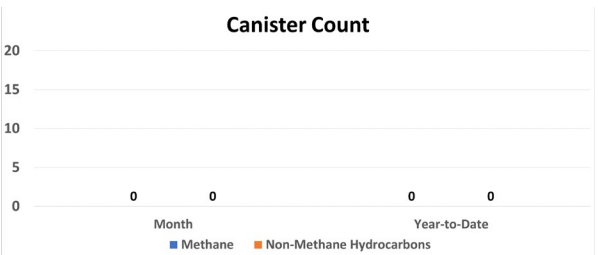
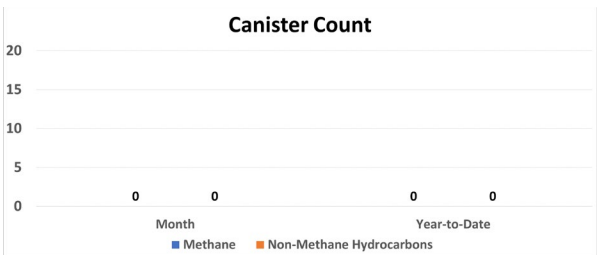
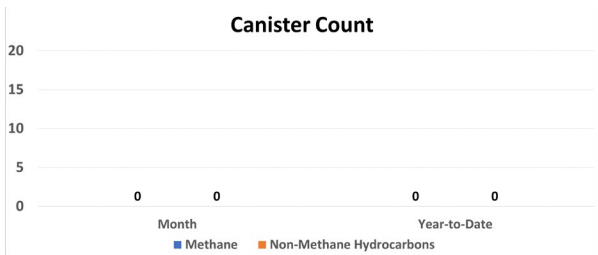
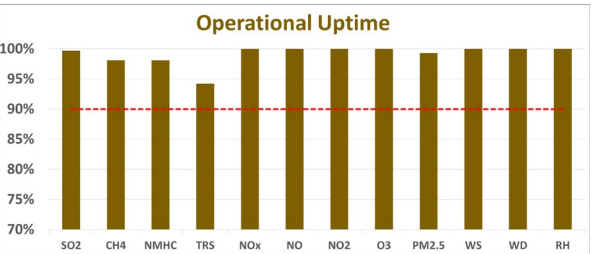
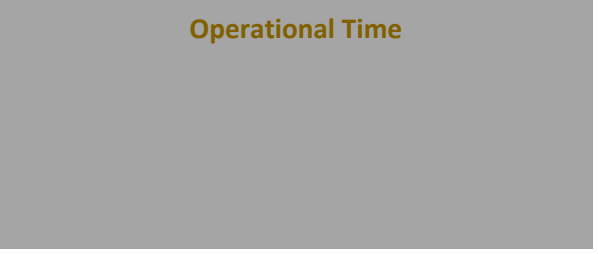
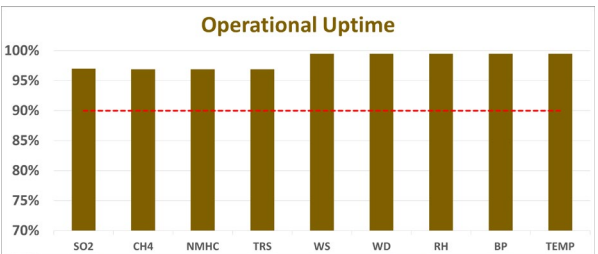
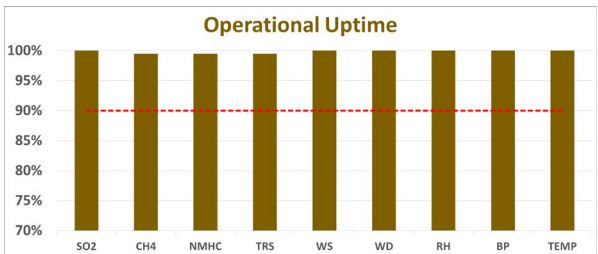
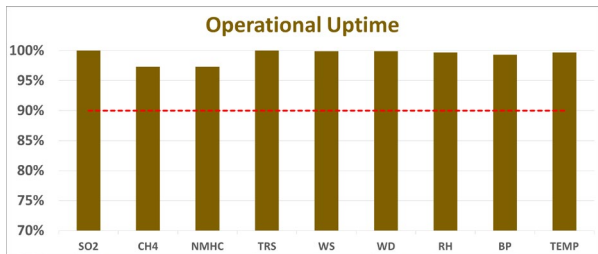
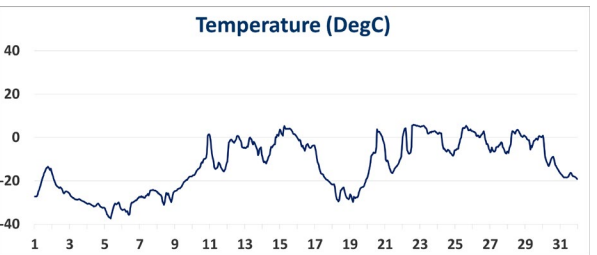
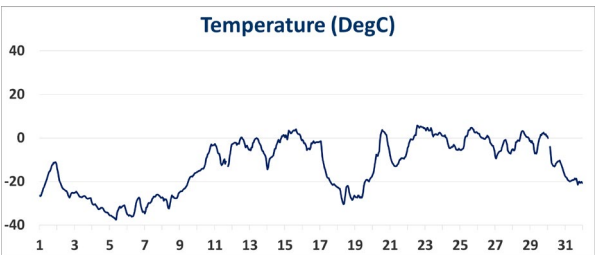
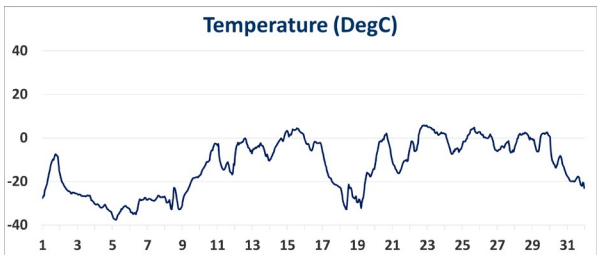
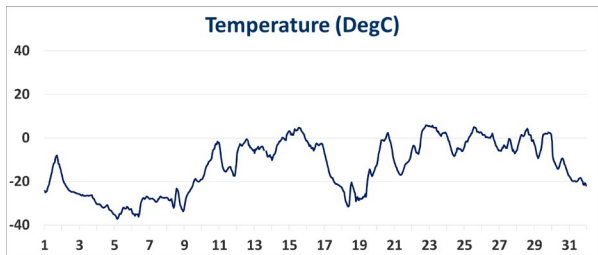
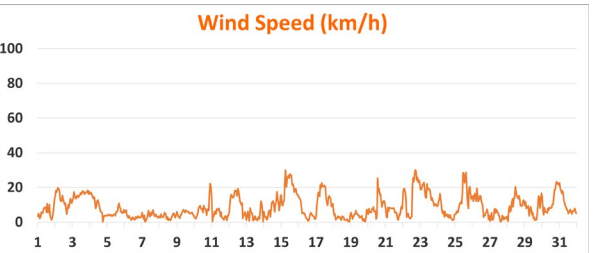
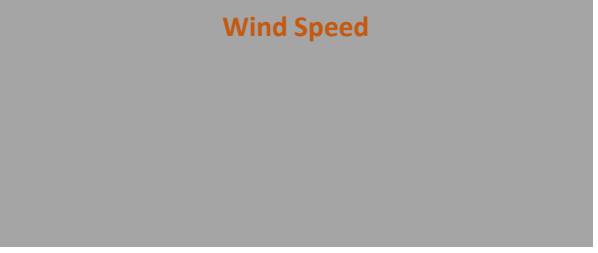
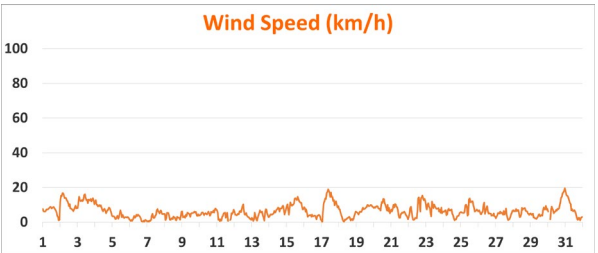
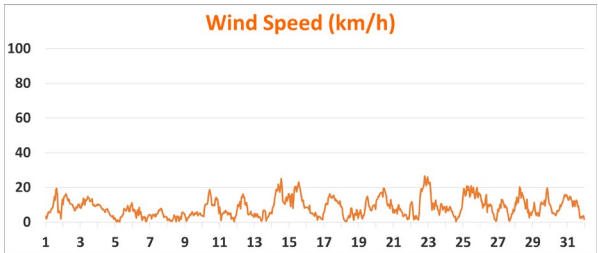
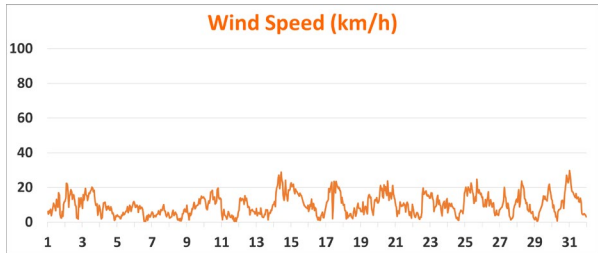
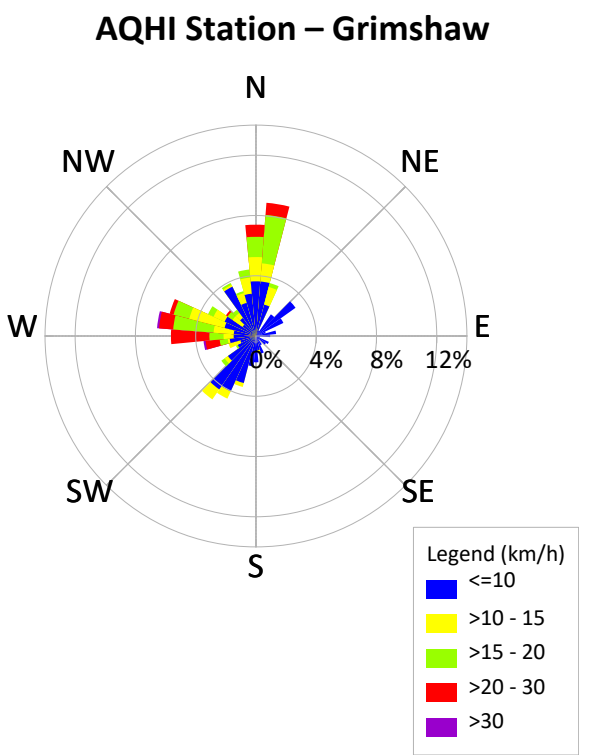
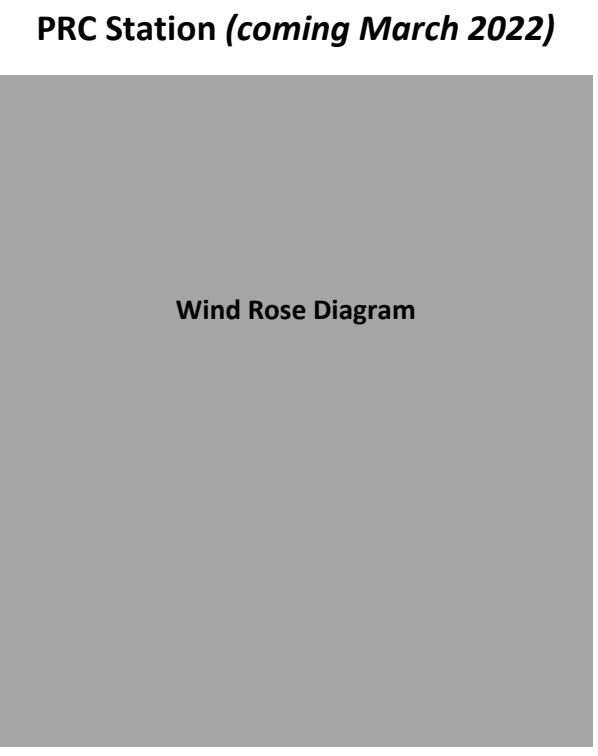
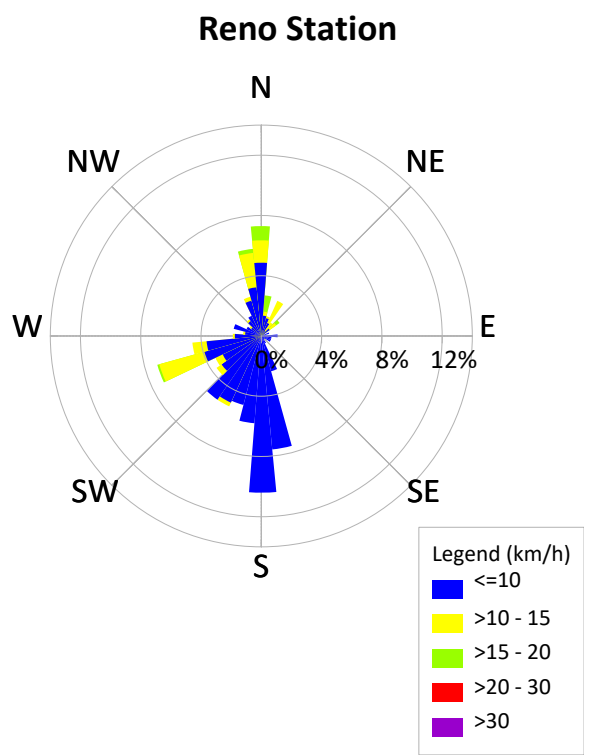
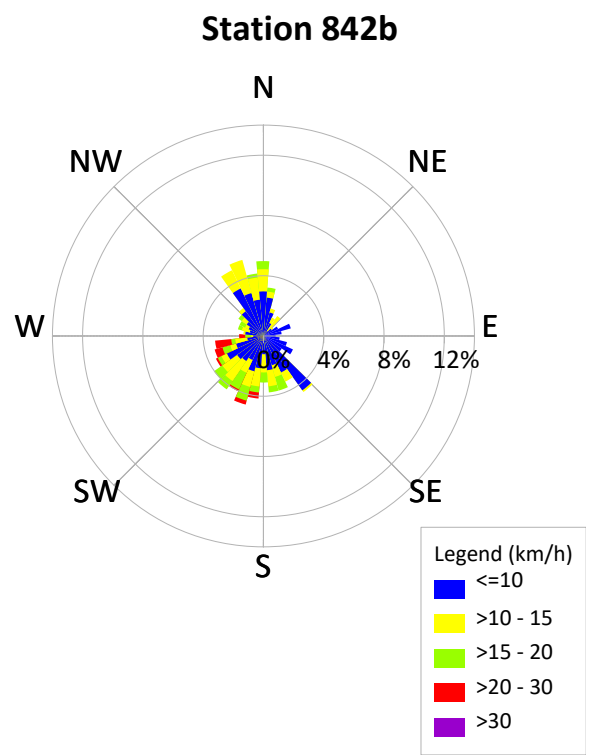
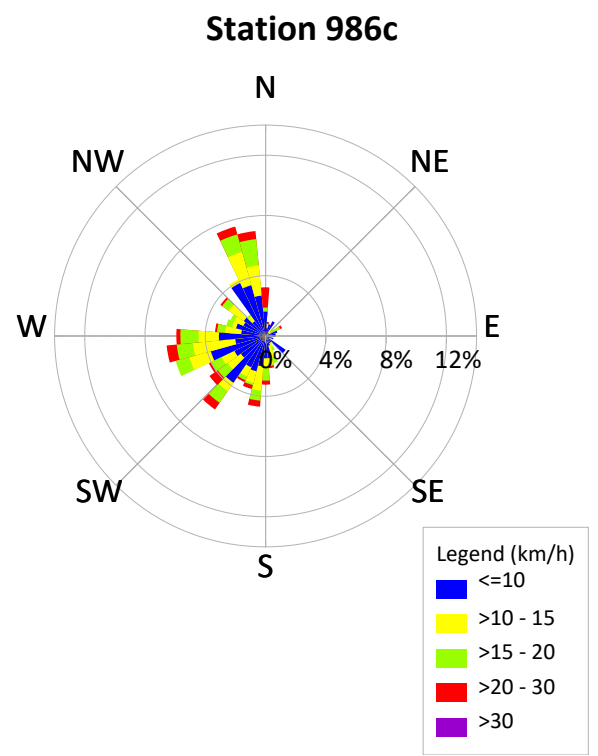


Field Operations Summary (detailed field operations notes can be found in the monthly technical reports on the PRAMP website)

- All Stations:**
- Low ambient temperatures had a marked effect on TRS spans. This problem occurs when the moisture levels in sample air drop very low, causing the TRS analyzer to respond more slowly due to the SO₂ scrubber material requiring a certain humidity to function correctly. Although daily span check results are often below the requirements and the daily zero check results occasionally close to or outside the allowable drift range (during low temperatures), experience indicates the analyzer’s performance remains in compliance with AMD performance criteria, and collected data remain valid.
- 986c Station**
- THC/CH₄/NMHC:** The HC analyzer was put offline while the desiccant was changed on January 12. Following the change, the analyzer exhibited unstable behaviour including bad injections, NMHC spikes and multiple flame-outs. The analyzer marginally passed the as-found points check on January 13. Drift appeared to be caused by the January 12’s maintenance on the hydrogen generator. A multi-point calibration was performed on January 13 to correct the issue. Some data collected between January 12 and January 13 were discarded as data quality was affected by the maintenance. Nineteen hours of downtime were recorded due to this event.
- 842b Station**
- THC/CH₄/NMHC:** The analyzer spanned low on January 9. A repeat zero-span check was completed on January 10 to investigate the drift. On January 11, a span gas cylinder was replaced followed by a repeat zero-span check. Four hours of downtime were recorded due to additional instrument checks.
- Reno Station**
- SO₂:** The analyzer was swapped on January 11. An installation calibration was completed on January 12. Twenty hours of downtime were recorded due to this event.
 - TRS:** The analyzer swapped on January 11. An installation calibration was completed on January 12. Twenty hours of downtime were recorded due to this event.
 - THC/CH₄/NMHC:** The analyzer was swapped on January 11. An installation calibration was completed on January 12. Twenty-one hours of downtime were recorded due to this event.
- AQHI – Grimshaw Station**
- TRS:** The analyzer failed due to firmware issues on January 15. The analyzer was reset and a repeat zero-span check was completed to confirm the analyzer’s functionality. Twenty-one hours of downtime were recorded due to this event. Following a shut-down calibration on January 19, the SO₂ scrubber material was renewed. The analyzer was allowed time to stabilize overnight. A successful post-repair calibration was completed on January 20. Twenty-two hours of downtime were recorded due to this event.
 - THC/CH₄/NMHC:** The analyzer failed due to low carrier gas pressure on January 12. The gas cylinder was replaced and a repeat zero-span check was completed to confirm the analyzer’s functionality on January 13. Thirteen hours of downtime were recorded due to this event.
 - O₃:** The sample line was not re-attached after the monthly calibration on January 19. The issue was corrected on January 20. Fifteen hours of downtime were recorded.
- VOCs Canister Sampling program**
- There were no canister events recorded this month.



January 2022: Continuous (Active) Monitoring Program



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

