## WHISTLER PURPLEAIR/BAM DECEMBER SUMMARY

Monitoring Period: December 1st – December 31st 2023

Location: Whistler, BC, Canada



Figure 1 - Monitoring Locations



50 CloudBurst Co-Located Mt Fee Road Fenceline 40 BAM PM 2.5 (µg/m³) 30 20 10 0 2023-12-01 2023-12-03 2023-12-05 2023-12-07 2023-12-09 2023-12-19 2023-12-25 2023-12-29 2023-12-21 2023-12-23 2023-12-27 2023-12-31

Figure 2 - PM<sub>2.5</sub> Time Series of Purple Air Monitors and Whistler BAM

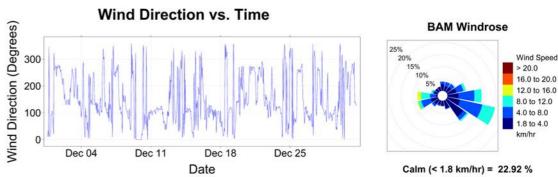


Figure 3 - Monthly Averages and Maximum 24-Hour Averages By Station

Figure 4 - Wind Direction vs. Time and BAM Windrose

**Discussion:** The 24-hour maximums for the monitors were all below the BC MOE PM2.5 Air Quality Objective as shown in Figure 3.

Data from the PurpleAir monitors was corrected using Model 7, as suggested by Nilson et al. in the journal Atmospheric Measurement Techniques (<a href="https://doi.org/10.5194/amt-2021-425">https://doi.org/10.5194/amt-2021-425</a>).

PurpleAir monitors become more inaccurate at lower PM2.5 levels.