

WHISTLER PURPLEAIR/BAM OCTOBER SUMMARY

Monitoring Period: October 1st – October 31st 2023

Location: Whistler, BC, Canada



Figure 1 - Monitoring Locations

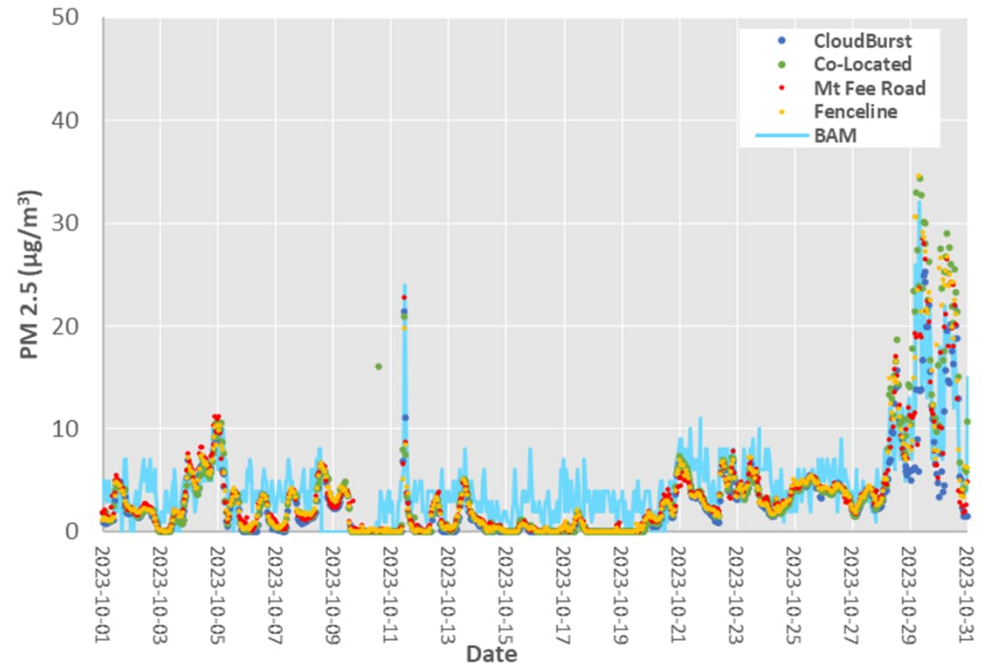


Figure 2 - PM_{2.5} Time Series of Purple Air Monitors and Whistler BAM

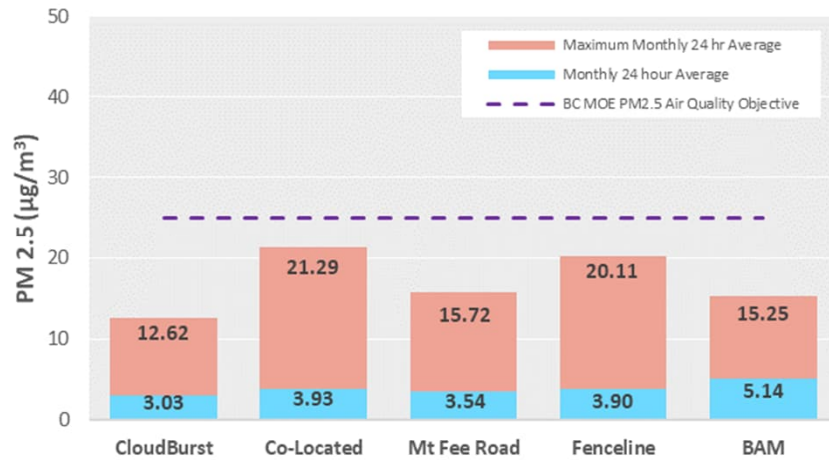


Figure 3 - Monthly Averages and Maximum 24-Hour Averages By Station

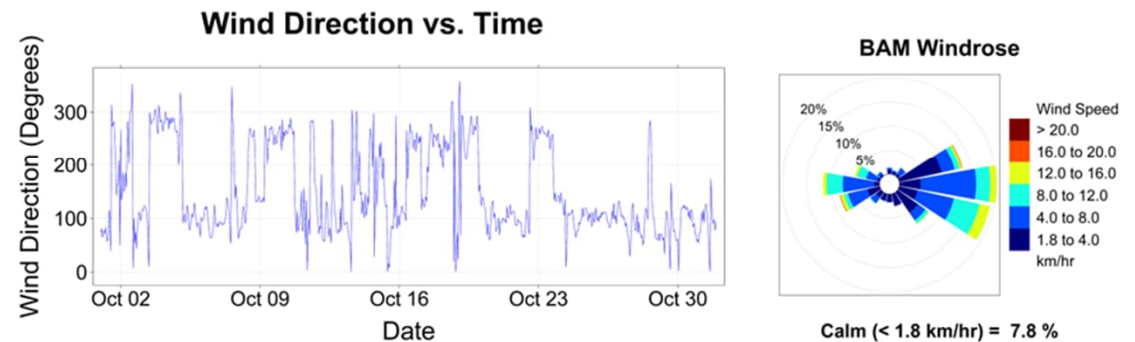


Figure 4 - Wind Direction vs. Time and BAM Windrose

Discussion: The 24-hour maximums for the monitors were all below the BC MOE PM_{2.5} Air Quality Objective as shown in Figure 3.

The BAM monitor did not collect data from October 10 to 11 due to an equipment malfunction.

It was reported by the RMOW that during the end of the month there were controlled burns being conducted in the area as part of fire mitigation efforts. This activity is likely the cause of the elevated levels of PM recorded in Figure 2.

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