



Department of Environmental Conservation's Air Monitoring Program Community-Based Air Monitoring Project

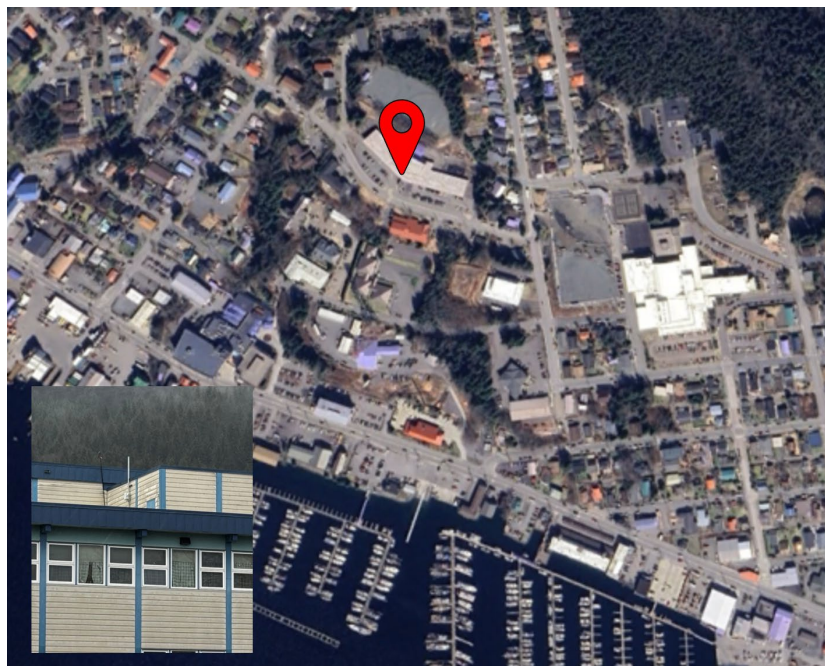
2024-25 Winter Season Air Quality Report for Ketchikan Indian Community, Ketchikan, Alaska

The QuantAQ MODULAIR™ sensor in Ketchikan (2940 Baranof Ave, Ketchikan, AK 99901) was installed on 01/31/2024.

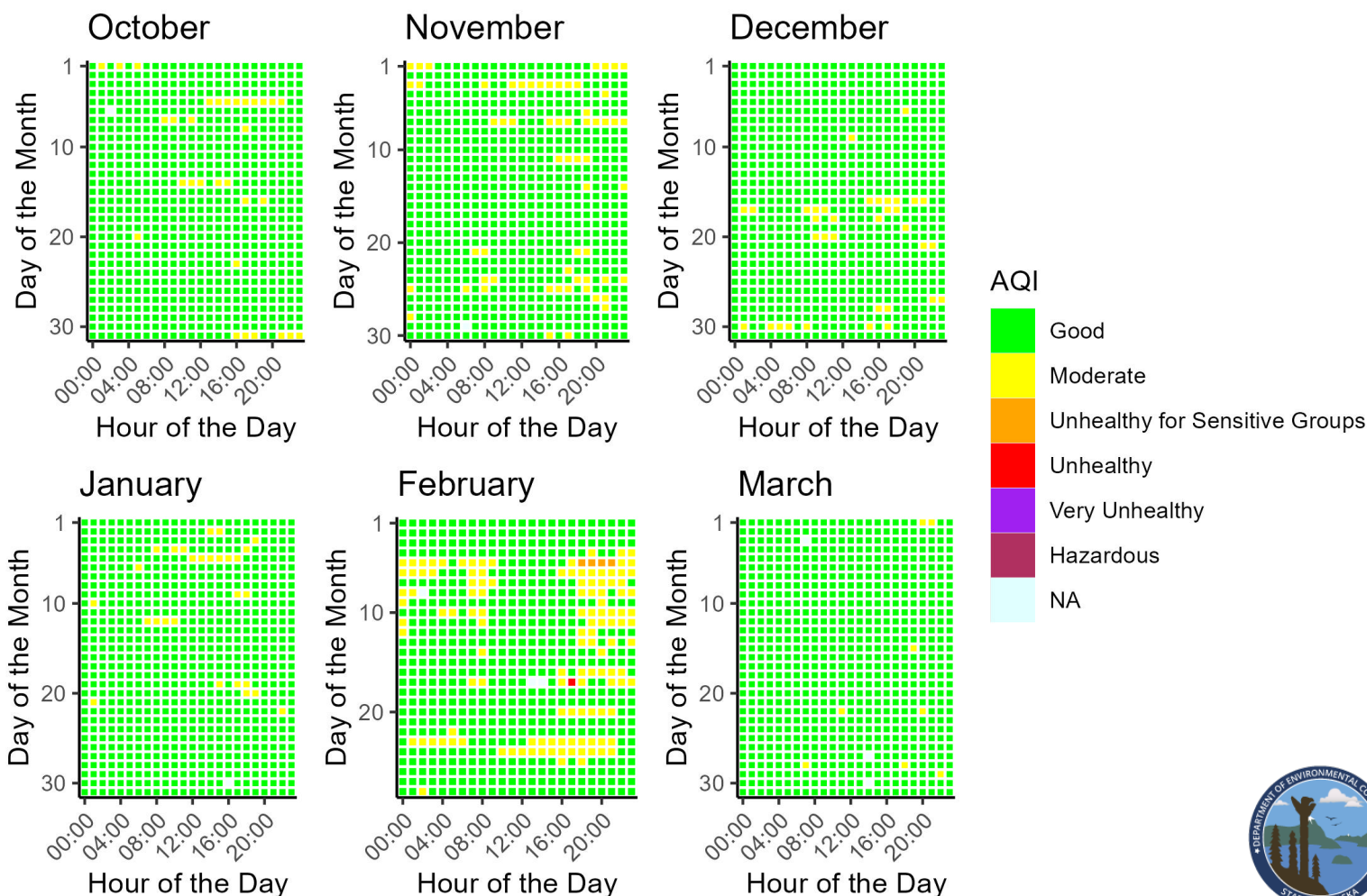
The sensor measures for carbon monoxide (CO), ozone (O₃), nitrogen oxide (NO), nitrogen dioxide (NO₂), particulate matter (PM_{2.5} and PM₁₀), temperature (°C), and relative humidity (RH). Data is collected every minute and is then processed into hourly averages.

The sensor in Ketchikan has run well since its installation in January of 2024; there have been no physical issues with the sensor.

This data report covers the date range of October 1, 2024, to March 31, 2025.

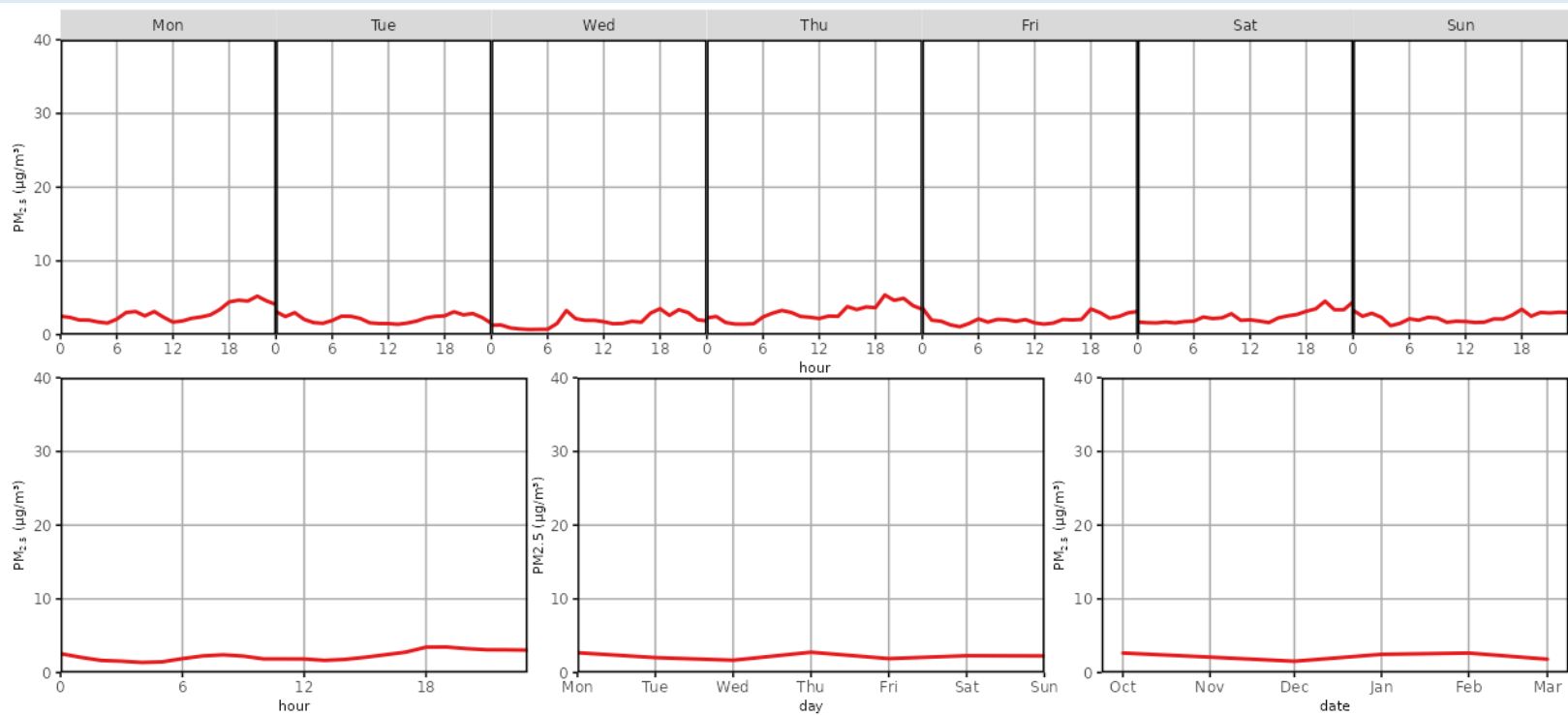


Daily PM_{2.5} Air Quality Index (AQI) for October 1, 2024 – March 31, 2025



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Median PM_{2.5} Concentrations for October 1, 2024 – March 31, 2025



Descriptive Statistics of Air Pollutants*

Parameter	1-hr PM _{2.5} (µg/m³)	24-hr PM _{2.5} (µg/m³)	1-hr PM ₁₀ (µg/m³)**	24-hr PM ₁₀ (µg/m³)**	1-hr O ₃ (ppb)	1-hr NO ₂ (ppb)	1-hr NO (ppb)	1-hr CO (ppb)
Min	0.04	0.43	0.00	1.25	0.00	2.07	0.58	0.20
Mean	3.41	3.39	13.73	12.73	33.28	25.94	2.88	0.29
1 st Max	57.44	16.44	798.00	138.12	51.21	43.34	17.45	0.90
2 nd Max	47.40	15.10	700.00	112.42	50.99	41.96	14.85	0.70

Data Discussion

Ketchikan’s PM_{2.5} ambient air quality for the winter 2024-25 season fell mostly in the “good” range of the Air Quality Index (AQI; more information about AQI is provided on page 3), with brief periods each month reporting “moderate” values. Diurnal patterns show little variability of PM_{2.5} concentrations across different hours of the day or days of the week. From October to March, February showed the most significant spike of PM_{2.5} with AQI levels reaching the “hazardous for sensitive groups” range for several hours and the “hazardous” range for one hour before returning to normal levels.

* These statistics are based on preliminary data readings and are intended to provide a brief overview of sensor activity. Finalized data may be obtained upon request and through our annual statistical reports. Data from the community sensor network is non-regulatory and not comparable to the EPA’s National Ambient Air Quality Standards (NAAQS; more information about the EPA NAAQS is provided on page 3).

** PM₁₀ particle sensors are influenced by weather events such as fog and snow due to hygroscopic effects, creating false maximum values that do not pose health risks.



Resources



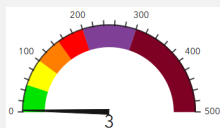
[Alaska Department of Environmental Conservation](#)



[EPA NAAQS Information](#)



[Air Quality Index \(AQI\) Basics](#)



[Real-Time AQI Data](#)



Data Access

To access historical data for your community's sensor, please email a request to: AMQA-Data-Request@alaska.gov . Data will be provided in Excel or .csv format.

Questions or Comments?

Please contact us!

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