



Peace Airshed Zone Association

Ambient Air Monitoring Network Summary

Ambient Air Quality Monitoring Program

Monthly Report

March 2022

April 30, 2022

Alberta Environment and Parks

11th Floor, Oxbridge Place
9820-106 Street
Edmonton Alberta T5K 2J6

Subject: **Peace Airshed Zone Association (PAZA)**
March 2022 Ambient Air Quality Monitoring Report

Please find enclosed the PAZA Ambient Air Quality Monitoring Network Report for the month of March 2022.

The representative of the Person Responsible for this monitoring program is:

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This report was prepared by Dr. Kevin McCullum and reviewed by Mandeep Dhaliwal.

PAZA has retained the services of WSP Canada Inc. to conduct continuous ambient monitoring and Dr Kevin McCullum to provide data validation and reporting.

This report is submitted by PAZA on behalf of the industrial member companies to satisfy the requirements of the facility Operating Approvals listed in Table A

The monthly summary report includes the operational summaries and hourly continuous monitoring and monthly passive results. The Milner station is being reported under the PAZA Monthly report.

Continuous Monitoring:

Eight (8) Stations including Henry Pirker (Grande Prairie), Dunes, Smoky Heights, Beaverlodge, Valleyview, Donnelly, Poplar-Portable and Milner.
Detailed Summaries are included in the report

Calibration and Data Submission:

Monthly report, hourly data and calibration reports for March 2022 were submitted to the ETS data system.

Table A. PAZA members with Facility Operating Approvals

Company	Facility	LSD	EPEA Approval No.
Advantage Oil & Gas Ltd.	Glacier	05-02-076-13-W6	00262479-00-00
Alberta Power (2000) Ltd. (an ATCO company)	Sturgeon	SW-06-069-21-W5	00010283-02-02
ATCO Power Canada	Poplar Hill	11-19-073-08-W6	00067774-01-01
ATCO Power Canada	Valleyview	SW-06-069-21-W5	00147709-01-01
AltaGas Ltd.	Pouce Coupe	03-03-081-13-W6	00247673-00-00
	Ante Creek	02-26-068-25-W5	00266694-00-00
	Gordondale	02-26-068-25-W5	00287474-00-00
Apache Canada Ltd.	House Mountain	01-08-070-10-W5	00010137-02-02
Birchcliff Energy Ltd.	Pouce Coupe	03-22-078-12-W6	00252529-00-00
Canadian Natural Resources Limited	Bonanza	11-25-081-11-W6	00000029-01-00
	Progress/Gordondale	01-01-077-10-W6	00010036-02-00
	Gold Creek	13-26-067-05-W6	00010446-02-00
	Teepee Creek	SE-2-074-04-W6	00001635-02-00
	Sturgeon/Valleyview	02-02-069-22-W5	00001633-02-00
Canfor Forest Products	Grande Prairie	SW-23-071-06-W6	00152645-01-00
Conocophillips Canada Energy Partnership	Wembley	06-19-073-08-W6	00000212-01-00
Encana Corporation	Sexsmith	04-08-075-07-W6	00010002-01-00
Enerplus Resources	Pouce Coupe	SW-06-069-21-W5	00001464-02-03
Exshaw Oil Corporation	Spirit River	03-10-077-07-W6	00344521-00-00
Grande Prairie Generation Inc.	Northern Prairie Power Project	04-19-073-08-W6	00238762-00-00
Inception Exploration Ltd.	Gold Creek	03-26-069-05-W6	00335317-00-02
KANATA Energy Group Ltd.	Valhalla	13-21-076-09-W6	00017620-02-02
Long Run Exploration	Eaglesham	01-25-076-01-W6	00241532-00-00
	Kakut	14-12-075-03-W6	00248469-00-00
	Donnelly	06-01-077-21-W5	00000087-02-00
	Puskwaskau	03-26-074-01-W6	00017524-01-00
Longview Oil Corp.	Sunset House	06-22-070-20-W5	00138884-01-00
Milner Power Limited Partnership	H.R. Milner thermal electric power plant	SE-15-058-08-W6	00009814-03-03
NorthRiver Midstream Inc.	Fourth Creek	16-11-082-09-W6	00000263-01-00
	Gordondale	11-26-079-09-W6	00011495-01-01
	Pouce Coupe/Bonanza	03-23-080-13-W6	00070203-01-01
Penn West Petroleum Ltd.	Tangent	13-29-080-23-W5	00001746-02-00
	Pouce Coupe	16-07-078-11-W6	00000614-01-00
Petrus Resources	Rycroft	08-25-077-06-W6	00011351-02-00
	Spirit River	08-34-077-06-W6	00011096-02-00
Strathcona Resources Ltd.	Jayar Sour Gas Processing Plant	06-08-062-03 W6	03612040-00-00
Suncor Energy Inc.	Progress	07-22-078-09-W6	00011428-02-00
Tidewater Midstream and Infrastructure Ltd.	Pipestone Sour Gas Plant	NW-35-70-9 W6	00403309-00-00
Veresen Energy	Hythe Brainard	11-18-074-12-W6	00010910-02-00
Weyerhaeuser Canada	Grande Prairie Pulp and Wood Plant	01-14-070-05-W6	00000113-02-00

Concentrations in excess of the Clean Air (Maximum Levels) Regulation:

There were no readings above the AAAQO or AAAQG in the month

Operational times less than 90 percent:

All stations reported above 90% operational times with the exception of:

CH₄/NMHC at Henry Pirker station not collected (reference #387816)

THC/ CH₄/NMHC at Poplar station (reference #389129)

Air Incidents

None were reported

Deviations from Authorized Monitoring Methods

None to report

Passive Monitoring to be updated

- 49 Stations throughout the PAZA zone
 - Passive sample analyses were performed by Bureau Veritas Laboratories
- There were 15 duplicates sampled in the month of March
 - Six SO₂ duplicates located at Gold Creek, Steeprock Creek, McLennan, Duvernay 3, Jayar3 Bone Yard, Wanyandie, RPD ranging from 0% to 37% (no fails)
 - One O₃ duplicate located at Bay Tree; RPD 7% (no fails)
 - Six NO₂ duplicates at Steeprock Creek, Little Smoky, Bay Tree, Wembley, Jayar5 Camp, Wanyandie; RPD ranging from 3% to 64% (1 fail, Peavine)
 - Two H₂S duplicates, Duvernay 3, Jayar2 14-8; RPD 0% to 14% (no fails)
- There was one missing sample at Girouxville 4, with the field note recorded as “Unable to collect - no access”.
- There were no exceedances of the AAAQOs for all monitored parameters at any of the passive monitoring stations during this month.

Dustfall Monitoring

- Five Stations collected Total Dustfall and Fixed Dustfall previously collected by Milner Power Limited
- There was one duplicate sampled collected for each in the month of March
 - RPD ranged from 4% to 5%
- Total dustfall ranged from 19.8 to 105.8 mg/100cm²/30day

I certify that I have reviewed and verified this report and that the information is complete, accurate and representative of the monitoring results, reporting timeframe and the specified analysis, summarization and reporting requirements.



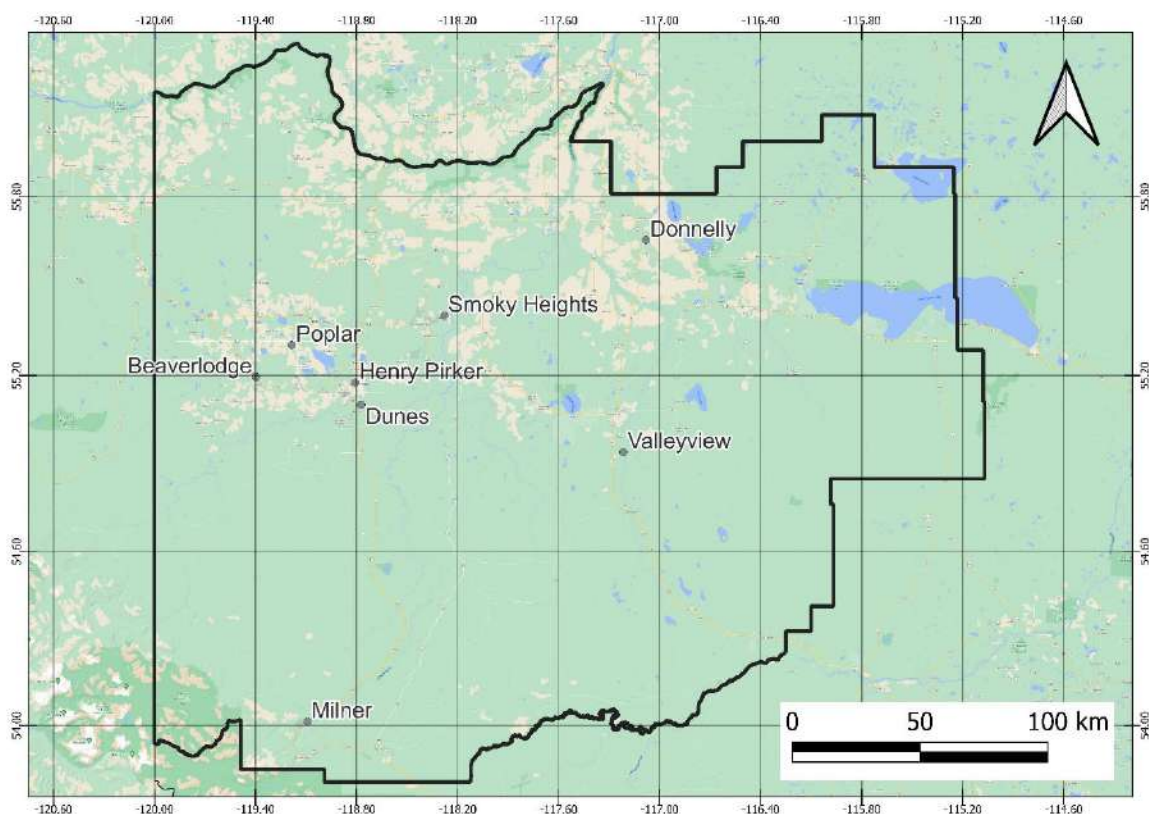
Mandeep Dhaliwal, B.Sc., P.Chem.

Program Manager

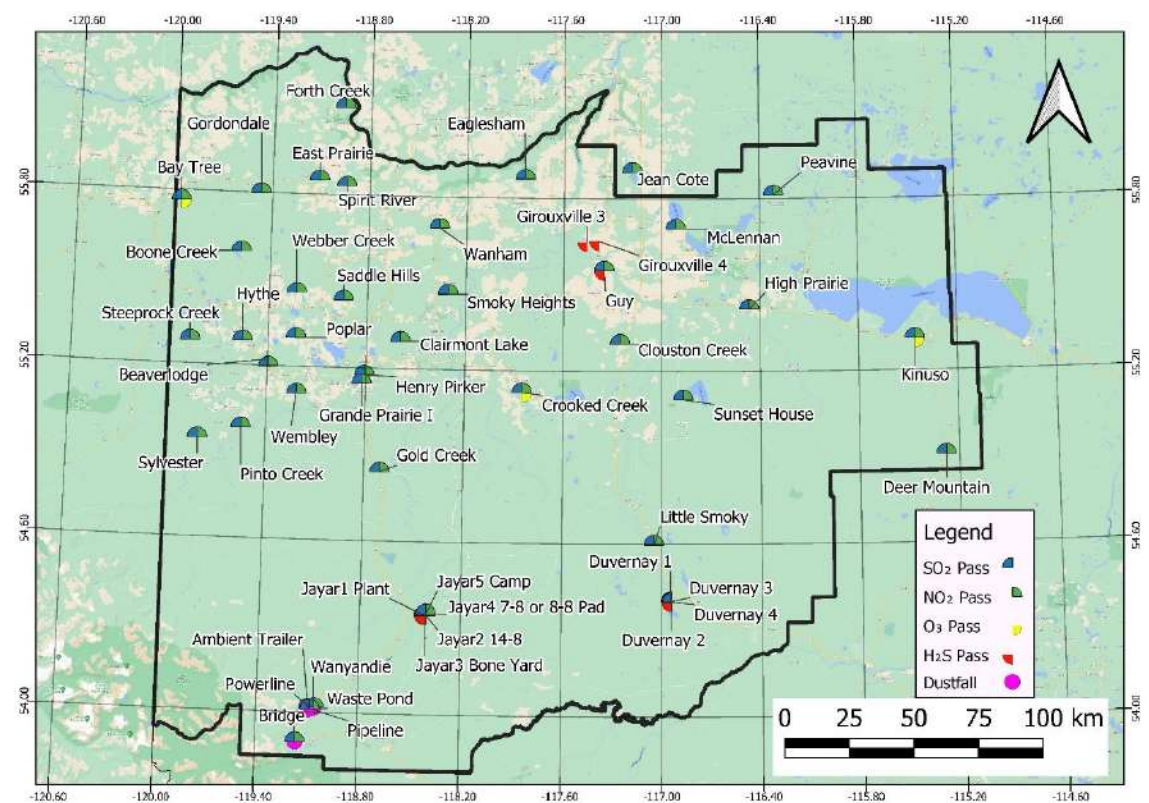
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PAZA Continuous Monitoring Station Locations



PAZA Passive Monitoring Station Locations



1 March Monthly Station Summaries

The following summaries are for the equipment and data results from the continuous ambient monitoring network

1.1 Beaverlodge Air Monitoring Station

PAZA - March 2022 Beaverlodge Station Report

March					1-hour			24-hour			Exceedance				Calibration	
Parameter	Average	Minimum	Valid	Operational	Max	Objective	Max Day and Time	Max	Objective	Max Day	1hr	8hr	24hr	30d	Date	
NO (ppb)	0.7	0.0	95.0%	100.0%	12.6	-	Mar-08 11:00	1.6	-	Mar-10	-	-	-	-	Mar 01, 2022	
NO ₂ (ppb)	4.2	0.4	95.0%	100.0%	23.5	159	Mar-14 08:00	7.9	-	Mar-02	0	-	-	-	Mar 01, 2022	
NO _x (ppb)	4.8	0.4	95.0%	100.0%	30.0	-	Mar-15 09:00	9.2	-	Mar-22	-	-	-	-	Mar 01, 2022	
O ₃ (ppb)	36.3	7.9	95.3%	100.0%	50.1	76	Mar-17 16:00	45.7	-	Mar-07	0	-	-	-	Mar 01, 2022	
PM _{2.5} (µg/m³)	3.4	0.0	99.6%	100.0%	23.8	80	Mar-03 10:00	13.4	29	Mar-03	0	-	0	-	Mar 02, 2022	
SO ₂ (ppb)	0.8	0.0	95.3%	100.0%	34.6	172	Mar-10 16:00	4.0	48	Mar-10	0	-	0	0	Mar 02, 2022	
	Average	Minimum	Valid	Operational	Maximum											
Temp (°C)	-1.2	-19.0	100.0%	100.0%	12.8	Note: Valid hours must be greater than 75% Operational hours must be greater than 90%										
RH (%)	66.3	25.4	100.0%	100.0%	99.9											
WS (km/hr)	10.4	0.1	100.0%	100.0%	43.3											
WD (deg)	269	0.2	100.0%	100.0%	358.4	Average Wind Direction		269	W							

Update Summary:

Parameter	Make	Model	Equipment summary
NO/NO ₂ /NO _x	Thermo	42i	No Operational issues noted
O ₃	Thermo	49IQ	No Operational issues noted
PM _{2.5}	Sharp	5030	No Operational issues noted
SO ₂	Thermo	43i-TLE	No Operational issues noted
Met Equip	MetOne	50.5	No Operational issues noted

1.2 Dunes Air Monitoring Station

PAZA - March 2022 Dunes Station Report

MAR - March 2022 Data Summary Report																
Parameter	March				1-hour			24-hour			Exceedance				Calibration	
	Average	Minimum	Valid	Operational	Max	Objective	Max Day and Time	Max	Objective	Max Day	1hr	8hr	24hr	30d	Date	
PM _{2.5} (µg/m³)	2.4	0.0	99.6%	100.0%	18.7	80	Mar-27 11:00	9.9	29	Mar-27	0	-	0	-	Mar-10-2022	
SO ₂ (ppb)	0.4	0.0	95.3%	100.0%	18.6	172	Mar-16 02:00	2.6	48	Mar-16	0	-	0	0	Mar-10-2022	
TRS (ppb)	0.2	0.0	95.3%	100.0%	3.3	-	Mar-15 01:00	0.6	-	Mar-19	-	-	-	-	Mar-10-2022	
	Average	Minimum	Valid	Operational	Maximum											
Temp (°C)	-1.3	-20.9	100.0%	100.0%	15.0	Note: Valid hours must be greater than 75% Operational hours must be greater than 90%										
RH (%)	63.5	19.1	100.0%	100.0%	96.4											
WS (km/hr)	4.5	0.0	100.0%	100.0%	12.6	Average Wind Direction 300 WNW										
WD (deg)	300	0.2	100.0%	100.0%	360.0											

Update Summary:

Parameter	Make	Model	Equipment summary
PM _{2.5}	Thermo	TEOM AB	No Operational issues noted
SO ₂	TECO	43i	No Operational issues noted
TRS	TECO	43C	No Operational issues noted
Met Equip	Gil/RMYoung	MetPak/RMY86004	No Operational issues noted

1.3 Grande Prairie - Henry Pirker Air Monitoring Station

PAZA - March 2022 Henry Pirker Station Report

MAR - March 2022 Henry Hiker Station Report															
March					1-hour			8-hour / 24-hour			Exceedance				Calibration
Parameter	Average	Minimum	Valid	Operational	Max	Objective	Max Day and Time	Max	Objective	Max Day	1hr	8hr	24hr	30d	Date
NO (ppb)	3.8	0.0	92.3%	97.2%	63.8	-	Mar-23 09:00	13.4	-	Mar-30	-	-	-	-	Mar 11, 2022
NO ₂ (ppb)	11.3	1.0	92.3%	97.2%	49.6	159	Mar-14 22:00	19.9	-	Mar-29	0	-	-	-	Mar 11, 2022
NO _x (ppb)	15.3	1.3	92.3%	97.2%	96.2	-	Mar-15 08:00	30.9	-	Mar-29	-	-	-	-	Mar 11, 2022
O ₃ (ppb)	29.7	0.4	95.3%	100.0%	48.8	76	Mar-07 05:00	44.9	-	Mar-07	0	-	-	-	Mar 11, 2022
PM _{2.5} (µg/m³)	4.2	0.0	99.2%	99.6%	25.5	80	Mar-14 22:00	9.7	29	Mar-27	0	-	0	-	Mar 14, 2022
SO ₂ (ppb)	0.5	0.0	95.3%	100.0%	14.4	172	Mar-10 00:00	1.8	48	Mar-04	0	-	0	0	Mar 11, 2022
H ₂ S (ppb)	0.2	0.0	95.3%	100.0%	1.1	10	Mar-30 05:00	0.4	3	Mar-22	0	-	0	-	Mar 04, 2022
CH ₄ (ppm)															
THC (ppm)	2.3	1.9	87.4%	91.8%	3.7	-	Mar-30 02:00	2.5	-	Mar-21	-	-	-	-	Mar 03, 2022
NMHC (ppm)															
CO (ppm)	0.2	0.1	95.3%	100.0%	0.9	13	Mar-21 07:00	0.3	5	Mar-29	0	0	-	-	Mar 04, 2022
	Average	Minimum	Valid	Operational	Maximum	Note: Valid hours must be greater than 75% Operational hours must be greater than 90%									
Temp (°C)	-0.9	-20.4	100.0%	100.0%	17.5										
RH (%)	61.1	22.9	100.0%	100.0%	85.9										
SR (W/m²)	93.8	0.0	100.0%	100.0%	518.5										
WS (km/hr)	7.0	0.2	100.0%	100.0%	27.2										
WD (deg)	268	0.5	100.0%	100.0%	357.3										
Average Wind Direction		268	W												

Update Summary:

Parameter	Make	Model	Equipment summary
NO/NO ₂ /NO _x	Thermo	42IQ	42IQ equipment swap after repairs, (6hrs maintenance + 15hrs data removed between calibrations)
O ₃	TECO	49I	No Operational issues noted
PM _{2.5}	Sharp	5030	Second calibration flagged as maintenance (3hrs)
SO ₂	TEI	43I-TLE	No Operational issues noted
H ₂ S	TEI	450i	No Operational issues noted
THC/CH ₄ /NMHC	TEI	51i	Replacement THC put into service, data from Mar 1 to calibration removed (58 hrs not in service)
CO	TEI	48I-TLE	No Operational issues noted
Met Equip	MetOne	50.5	No Operational issues noted

1.4 Smoky Heights Air Monitoring Station

PAZA - March 2022 Smoky Heights Station Report

AAR - March 2022 Smoky Heights Station Report															
Parameter	March				1-hour			24-hour			Exceedance				Calibration
	Average	Minimum	Valid	Operational	Max	Objective	Max Day and Time	Max	Objective	Max Day	1hr	8hr	24hr	30d	Date
PM _{2.5} (µg/m³)	2.9	0.0	99.5%	100.0%	31.2	80	Mar-25 10:00	10.8	29	Mar-27	0	-	0	-	Mar 11, 2022
SO ₂ (ppb)	0.6	0.0	95.3%	100.0%	20.5	172	Mar-09 18:00	4.5	48	Mar-09	0	-	0	0	Mar 11, 2022
TRS (ppb)	0.2	0.0	95.3%	100.0%	1.3	-	Mar-14 19:00	0.4	-	Mar-14	-	-	-	-	Mar 11, 2022
	Average	Minimum	Valid	Operational	Maximum	Note: Valid hours must be greater than 75% Operational hours must be greater than 90% Average Wind Direction276WNW									
Temp (°C)	-2.6	-18.2	100.0%	100.0%	10.6										
WS (km/hr)	12.2	0.5	100.0%	100.0%	41.1										
WD (deg)	276	0.1	100.0%	100.0%	359.0										

Update Summary:

Parameter	Make	Model	Equipment summary
PM _{2.5}	Sharp	5030	No Operational issues noted
SO ₂	TECO	43i	No Operational issues noted
TRS	TEI	43I APSAA	No Operational issues noted
Met Equip	MetOne	50.5	No Operational issues noted

1.5 Valleyview Air Monitoring Station

PAZA - March 2022 Valleyview Station Report

AAR - March 2022 Valleyview Station Report																
Parameter	March				1-hour			24-hour			Exceedance				Calibration	
	Average	Minimum	Valid	Operational	Max	Objective	Max Day and Time	Max	Objective	Max Day	1hr	8hr	24hr	30d	Date	
SO ₂ (ppb)	0.1	0.0	95.3%	100.0%	1.2	172	Mar-05 16:00	0.3	48	Mar-05	0	-	0	0	Mar 16, 2022	
H ₂ S (ppb)	0.1	0.0	95.3%	100.0%	0.3	10	Mar-13 02:00	0.2	3	Mar-06	0	-	0	-	Mar 16, 2022	
	Average	Minimum	Valid	Operational	Maximum											
Temp (°C)	-1.0	-19.7	100.0%	100.0%	19.0	Note: Valid hours must be greater than 75% Operational hours must be greater than 90%										
RH (%)	68.5	27.6	100.0%	100.0%	100.2											
WS (km/hr)	5.0	0.1	100.0%	100.0%	19.4											
WD (deg)	277	0.2	100.0%	100.0%	359.6											
Average Wind Direction										277	NW					

Update Summary:

Parameter	Make	Model	Equipment summary
SO ₂	TEI	43I-APSCB	No Operational issues noted during the month
H ₂ S	TEI	450I-APHAA	No Operational issues noted during the month
Met Equip	RMYoung	RMY86004	No Operational issues noted during the month

1.6 Donnelly Air Monitoring Station

PAZA - March 2022 Donnelly Station Report

AER - March 2022 Delivery Station Report																
Parameter	March				Operational	1-hour			24-hour			Exceedance				Calibration
	Average	Minimum	Valid	Max		Objective	Max Day and Time	Max	Objective	Max Day	1hr	8hr	24hr	30d	Date	
SO ₂ (ppb)	0.2	0.0	94.5%	99.2%	3.4	172	Mar-05 18:00	0.7	48	Mar-09	0	-	0	0	Mar 14, 2022	
H ₂ S (ppb)	0.0	0.0	94.5%	99.2%	0.4	10	Mar-19 08:00	0.1	3	Mar-01	0	-	0	-	Mar 14, 2022	
	Average	Minimum	Valid	Operational	Maximum											
Temp (°C)	-2.4	-19.6	99.2%	99.2%	11.9	Note: Valid hours must be greater than 75% Operational hours must be greater than 90%										
WS (km/hr)	11.0	0.0	99.2%	99.2%	36.5											
WD (deg)	219	0.0	99.2%	99.2%	359.9											
Average Wind Direction										219	SW					

Update Summary:

Parameter	Make	Model	Equipment summary
SO ₂	Teco	43I	Mar 7 power failure (2hrs); Mar 27 communications issue (4hrs)
H ₂ S	Thermo	45C	Mar 7 power failure (2hrs); Mar 27 communications issue (4hrs)
Met Equip	RMYoung	5103	Mar 7 power failure (2hrs); Mar 27 communications issue (4hrs)

1.7 Poplar Air Monitoring Station

PAZA - March 2022 Poplar Station Report

March 2022 - Operational Review																
Parameter	March				Operational	1-hour			24-hour			Exceedance				Calibration
	Average	Minimum	Valid	Max		Objective	Max Day and Time	Max	Objective	Max Day	1hr	8hr	24hr	30d	Date	
NO (ppb)	1.3	0.0	94.0%	98.9%	36.5	-	Mar-06 11:00	6.8	-	Mar-06	-	-	-	-	Mar 17, 2022	
NO ₂ (ppb)	5.3	0.4	94.0%	98.9%	34.0	159	Mar-06 07:00	12.8	-	Mar-06	0	-	-	-	Mar 17, 2022	
NO _x (ppb)	6.7	0.3	94.0%	98.9%	61.3	-	Mar-06 11:00	19.7	-	Mar-06	-	-	-	-	Mar 17, 2022	
O ₃ (ppb)	35.3	3.6	91.7%	96.4%	48.6	76	Mar-23 14:00	46.0	-	Mar-07	0	-	-	-	Mar 17, 2022	
PM _{2.5} (µg/m³)	1.9	0.0	97.4%	97.7%	10.2	80	Mar-03 13:00	6.0	29	Mar-02	0	-	0	-	Mar 17, 2022	
SO ₂ (ppb)	1.0	0.0	94.2%	98.9%	28.3	172	Mar-24 09:00	3.3	48	Mar-24	0	-	0	0	Mar 17, 2022	
TRS (ppb)	0.4	0.0	94.4%	98.9%	5.0	-	Mar-05 09:00	0.8	-	Mar-05	-	-	-	-	Mar 18, 2022	
CH ₄ (ppm)																
THC (ppm)																
NMHC (ppm)																
	Average	Minimum	Valid	Operational	Maximum											
Temp (°C)	-2.4	-20.1	98.9%	98.9%	9.5	Note: Valid hours must be greater than 75% Operational hours must be greater than 90%										
WS (km/hr)	11.0	0.1	94.0%	94.0%	39.6											
WD (deg)	266	0.1	94.0%	94.0%	359.5											
Average Wind Direction										266	W					

Update Summary:

Parameter	Make	Model	Equipment summary
NO/NO ₂ /NO _x	TEI	42I	Mar 20 power failure, 8hrs removed
O ₃	TEI	49I	Mar 20 power failure (8hrs); Removal for service and replaced scrubber, 16hrs removed, 3hrs maint.
PM _{2.5}	Thermo	TEOM AB	Mar 20 power failure (8hrs); Several hours of data removed due to negative drift (<3µg/m³, 11hrs)
SO ₂	TEI	43I	Mar 20 power failure, 8hrs removed
TRS	TEI	43I	Mar 20 power failure, 8hrs removed
THC/CH ₄ /NMHC	TEI	55I-A3PHAA	Mar 20 power failure, 8hrs removed
Met Equip	MetOne	50.5	Mar 20 power failure, 8hrs removed; Mar 6-8, 37hrs removed due to frozen wind head

1.8 Milner Air Monitoring Station

PAZA - March 2022 Milner Station Report

March					1-hour			24-hour			Exceedance				Calibration
Parameter	Average	Minimum	Valid	Operational	Max	Objective	Max Day and Time	Max	Objective	Max Day	1hr	8hr	24hr	30d	Date
NO (ppb)	0.9	0.0	94.6%	99.9%	29.2	-	Mar-13 04:00	2.9	-	Mar-19	-	-	-	-	Mar 15, 2022
NO ₂ (ppb)	3.7	0.2	94.6%	99.9%	24.8	159	Mar-13 07:00	10.6	-	Mar-01	0	-	-	-	Mar 15, 2022
NO _x (ppb)	4.7	0.3	94.6%	99.9%	51.3	-	Mar-13 04:00	12.5	-	Mar-01	-	-	-	-	Mar 15, 2022
PM _{2.5} (µg/m³)	7.1	0.0	98.7%	99.2%	29.0	80	Mar-06 21:00	14.8	29	Mar-02	0	-	0	-	Mar 15, 2022
	Average	Minimum	Valid	Operational	Maximum										
WS (km/hr)	8.9	0.0	100.0%	100.0%	42.6										
WD (deg)	269	1.3	100.0%	100.0%	356.9										
Note: Valid hours must be greater than 75% Operational hours must be greater than 90%															
Average Wind Direction									269		W				

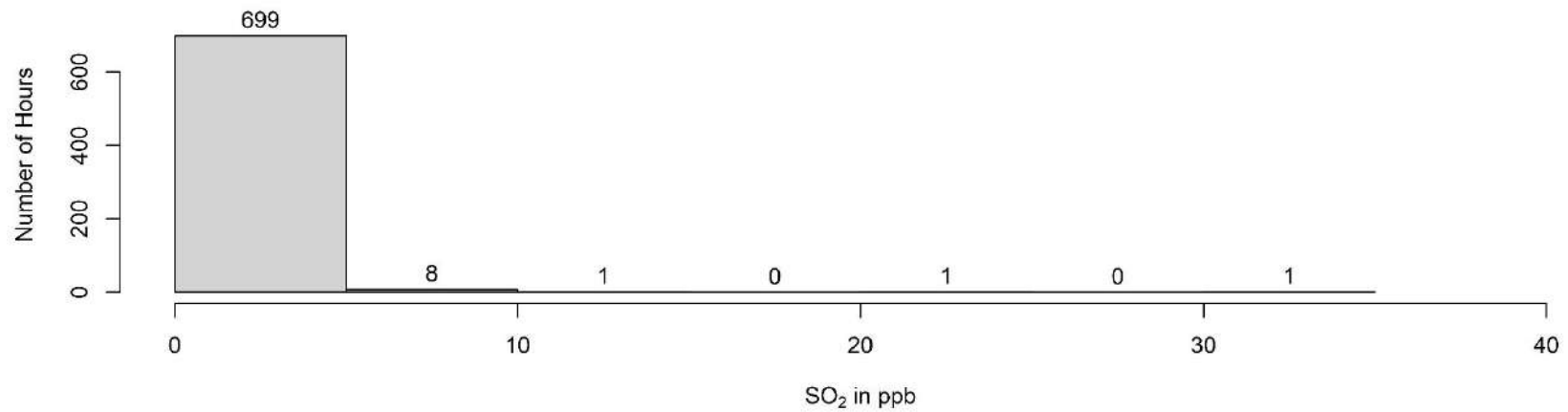
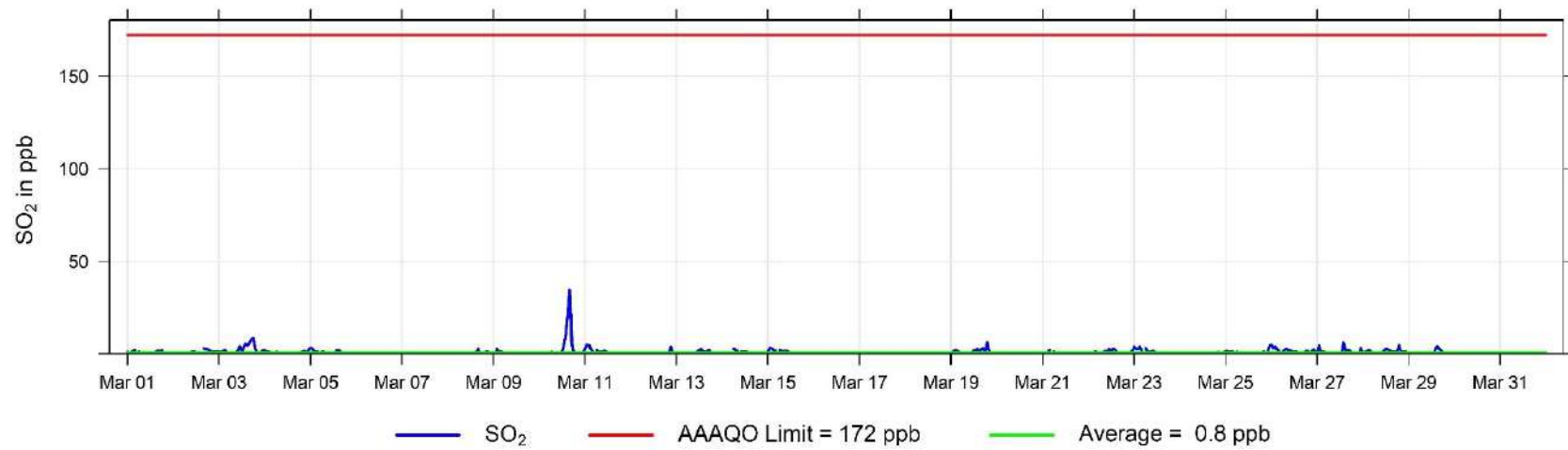
Update Summary:

Parameter	Make	Model	Equipment summary
NO/NO ₂ /NO _x	Thermo	42i	No Operational issues noted; Mar 1, two hours of unstable data removed
PM _{2.5}	TEOM	0	Several periods of data less than -3µg/m³, removed 6hrs
Met Equip	MetOne	50.5	No Operational issues noted

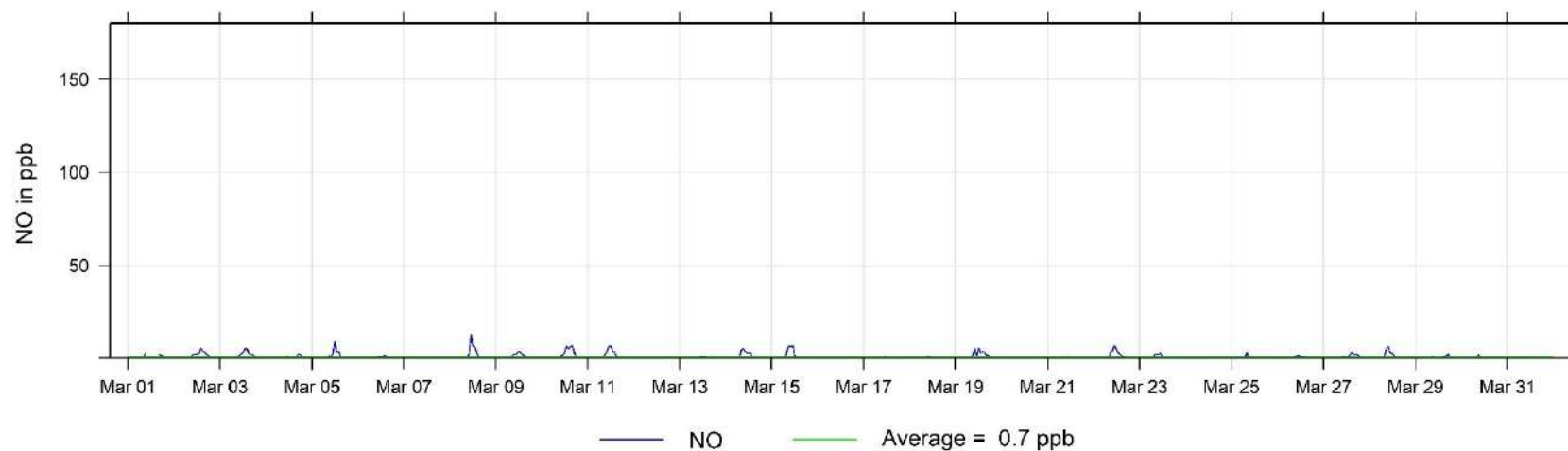
2 Beaverlodge Charts

The following pages include the charts and histograms for Beaverlodge Station

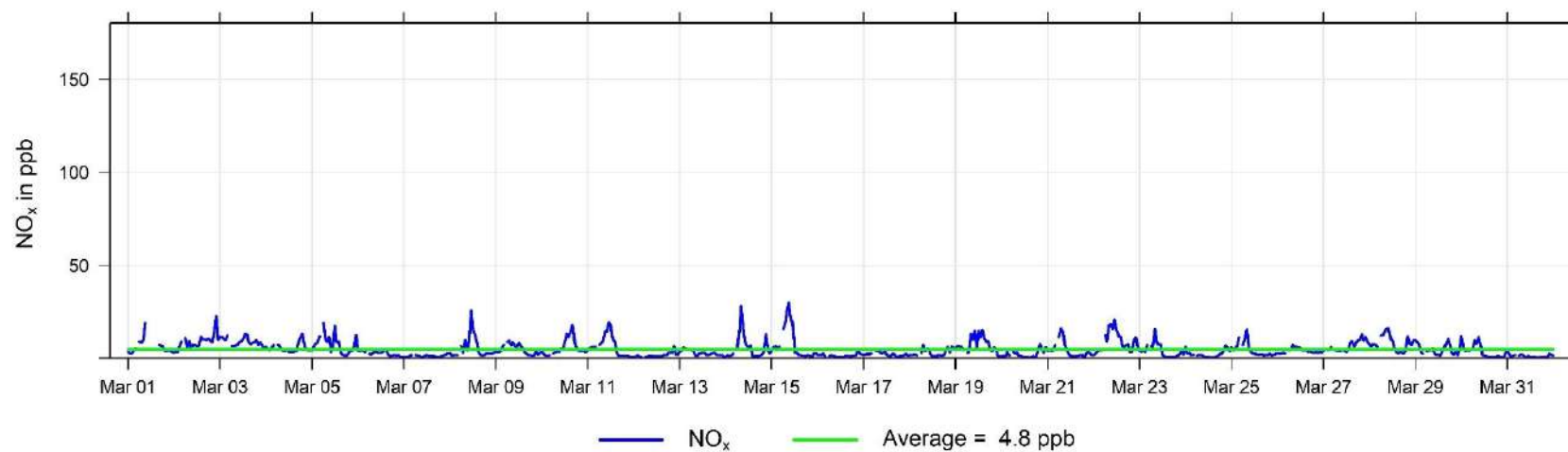
March 2022 Hourly Concentration Readings of SO₂ (in ppb) at Beaverlodge



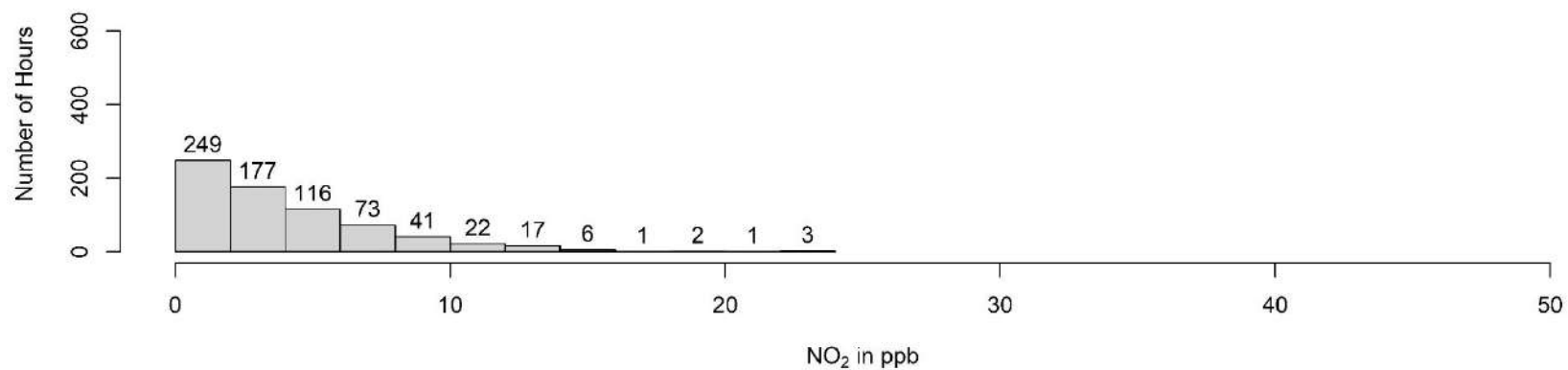
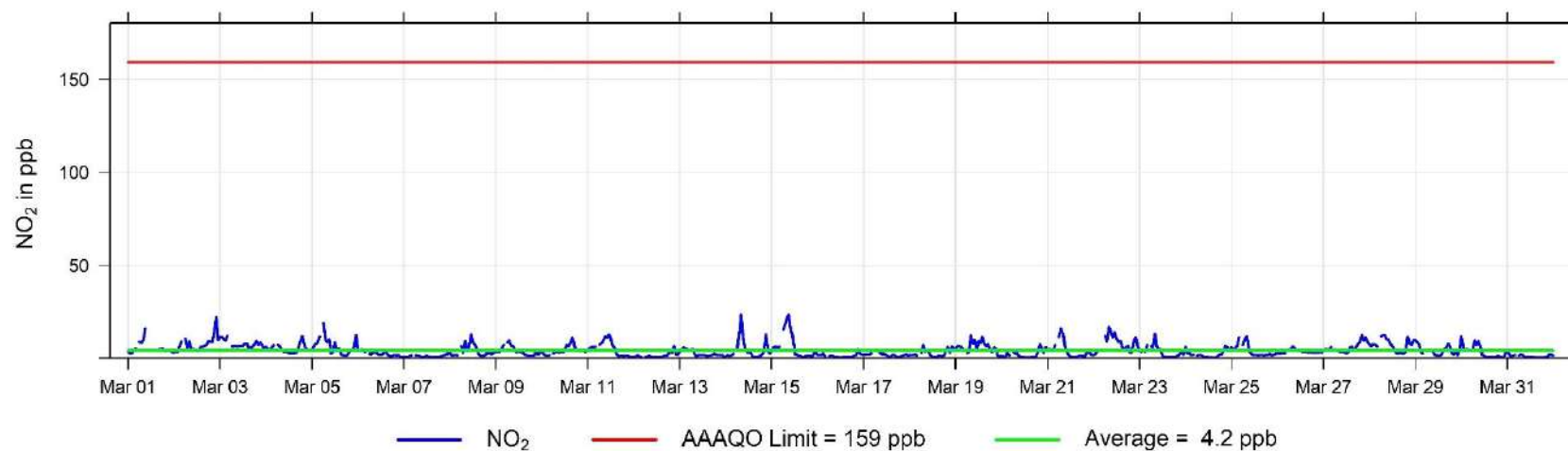
March 2022 Hourly Concentration Readings of NO (in ppb) at Beaverlodge



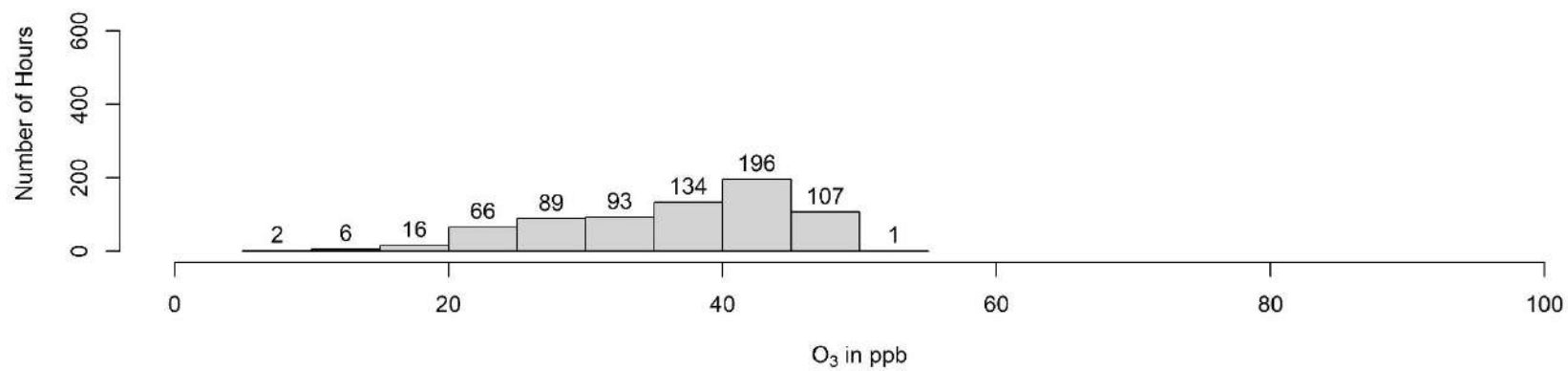
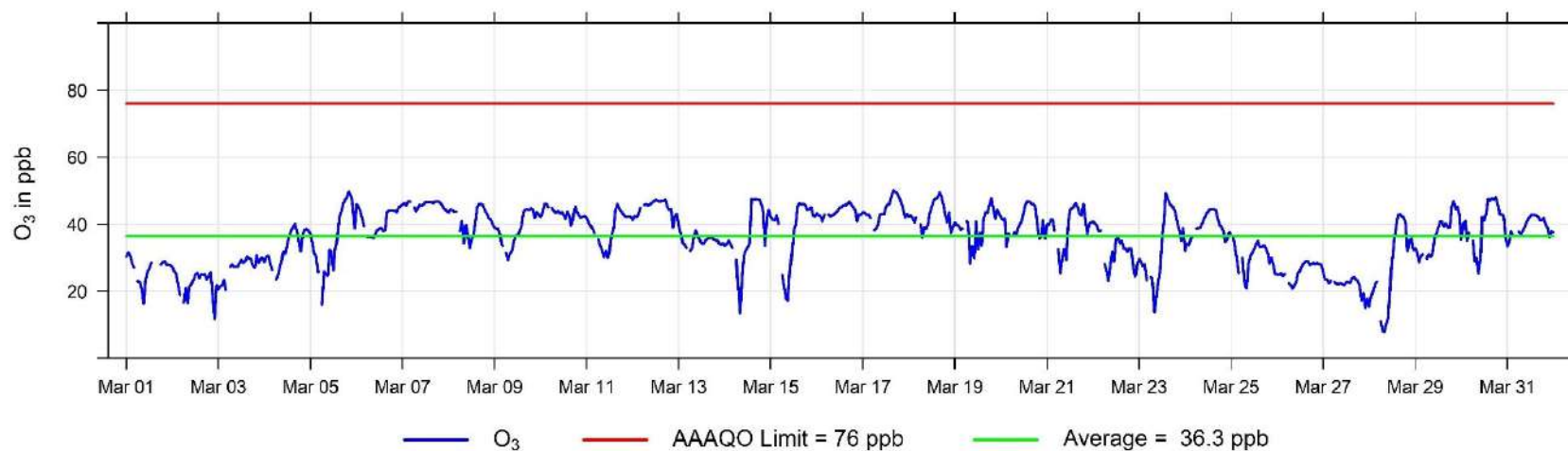
March 2022 Hourly Concentration Readings of NO_x (in ppb) at Beaverlodge



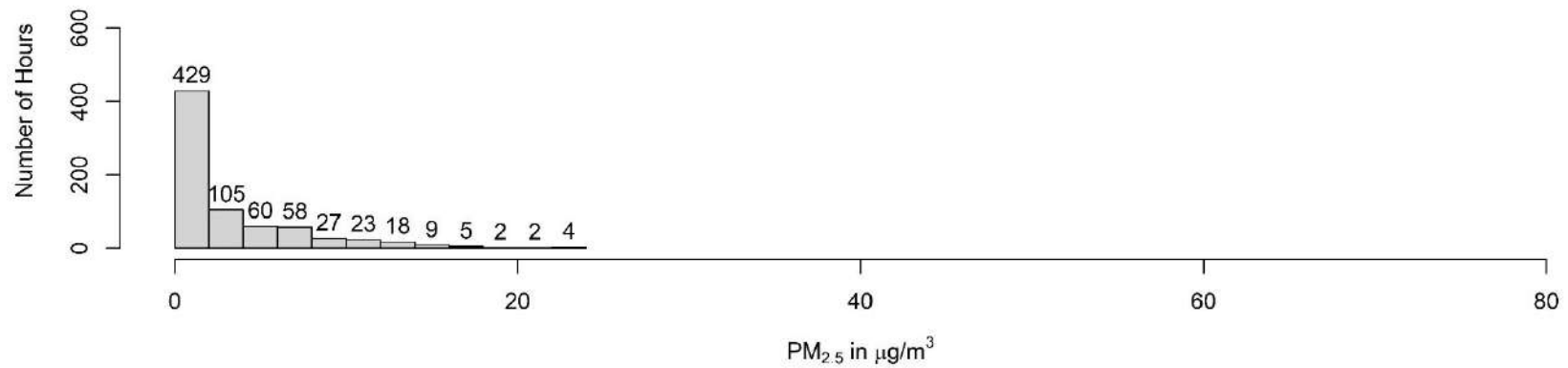
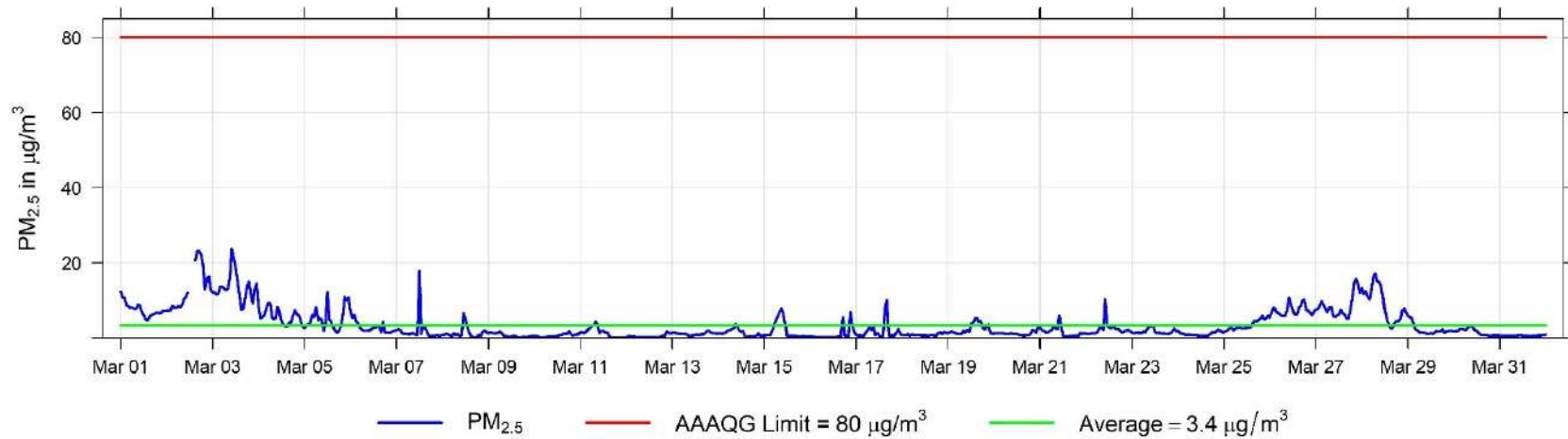
March 2022 Hourly Concentration Readings of NO₂ (in ppb) at Beaverlodge



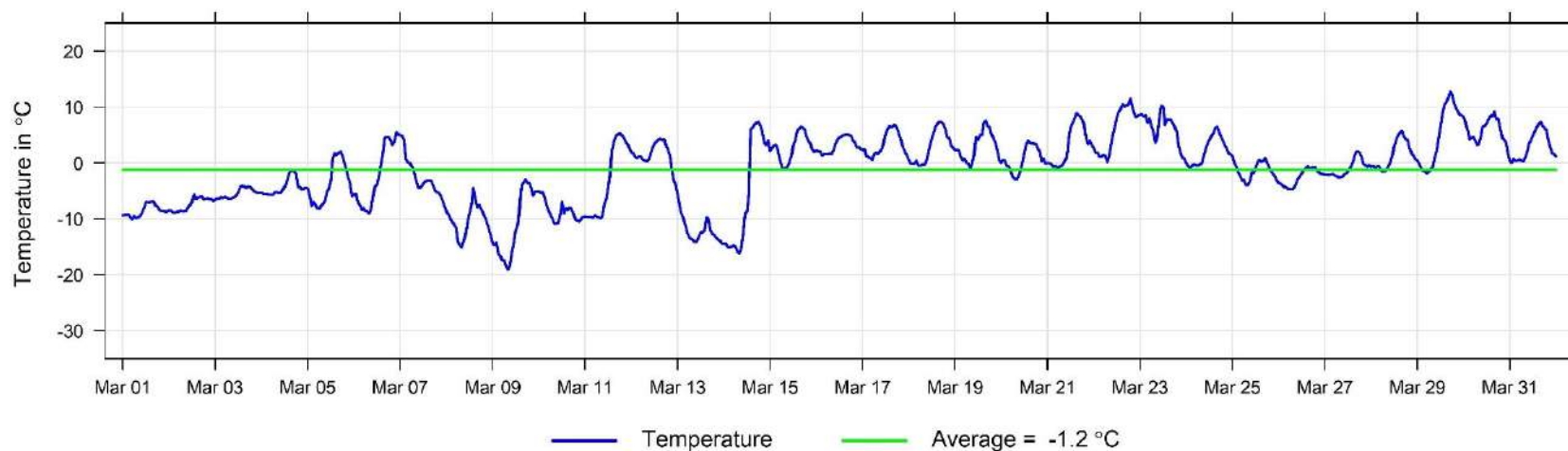
March 2022 Hourly Concentration Readings of O₃ (in ppb) at Beaverlodge



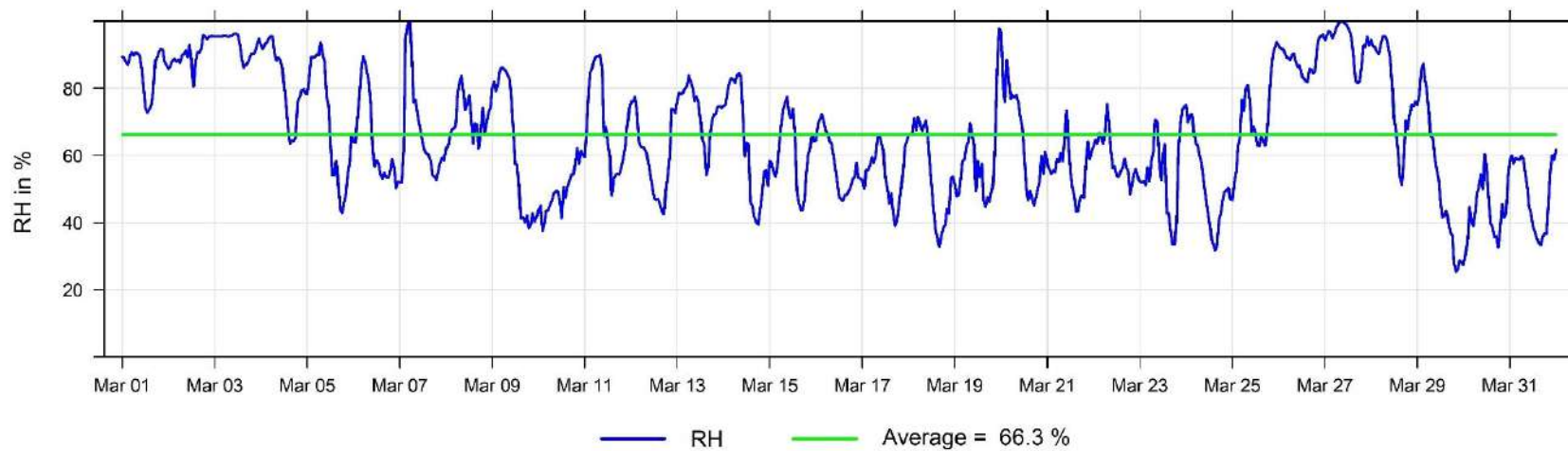
March 2022 Hourly Concentration Readings of PM_{2.5} in $\mu\text{g}/\text{m}^3$ at Beaverlodge



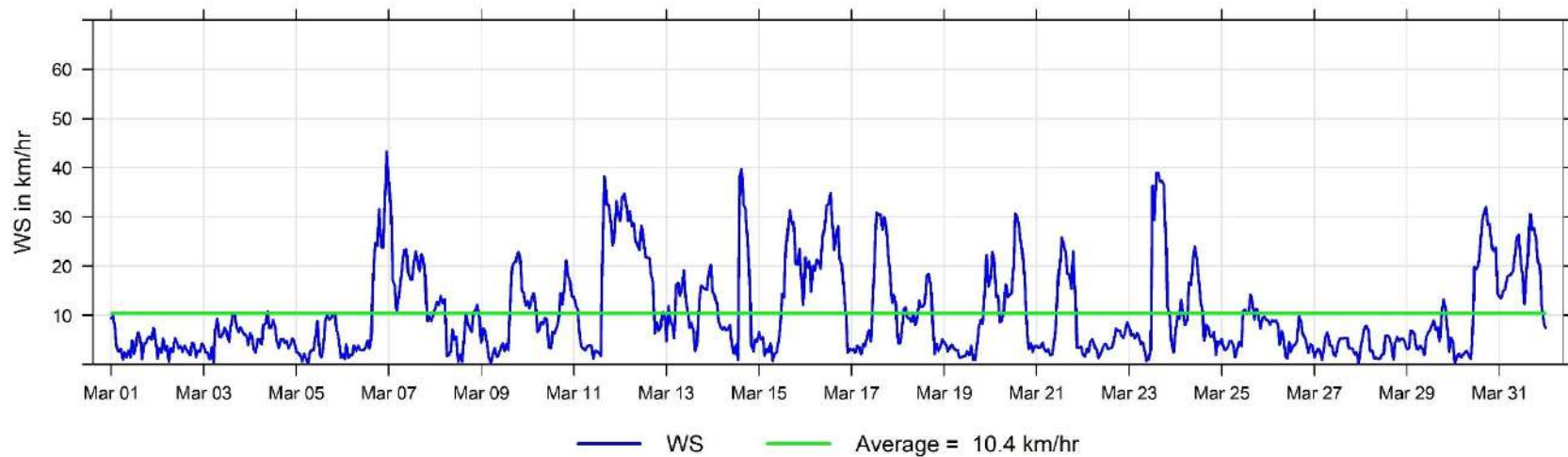
March 2022 Hourly Temperature Readings (in °C) at Beaverlodge



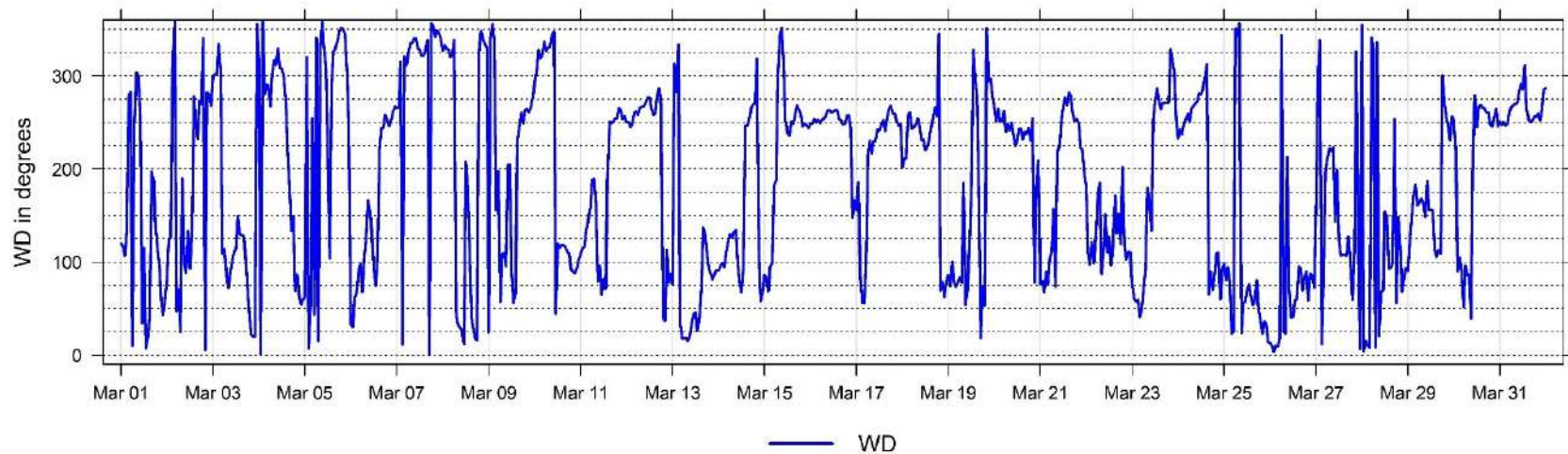
March 2022 Hourly Readings of Relative Humidity (in %) at Beaverlodge



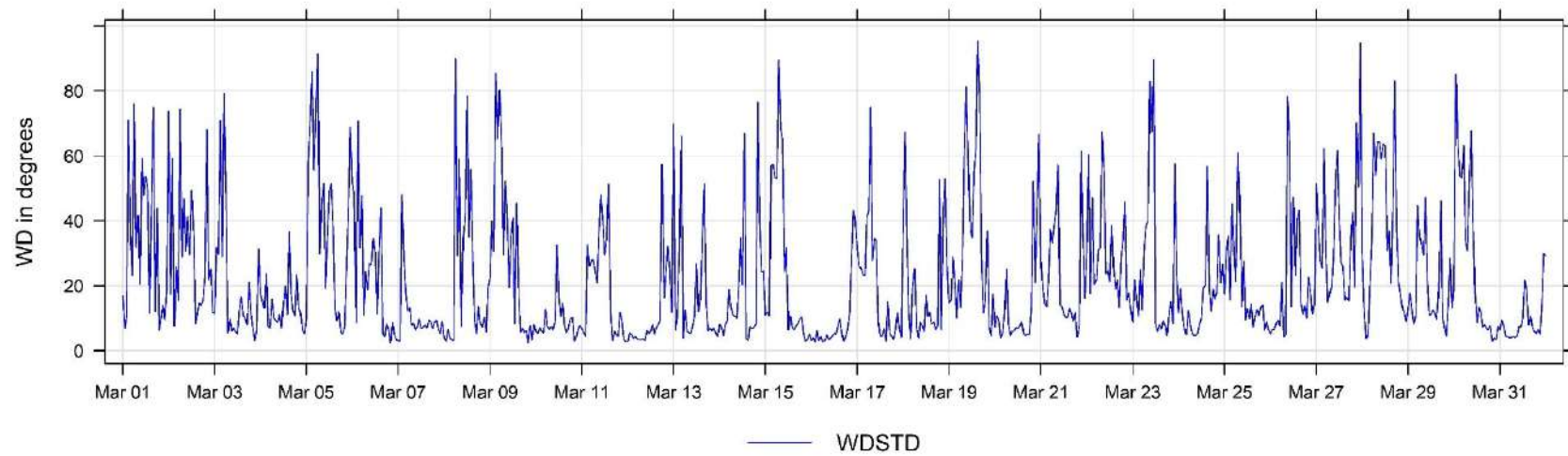
March 2022 Hourly Readings of Wind Speed (in km/hr) at Beaverlodge

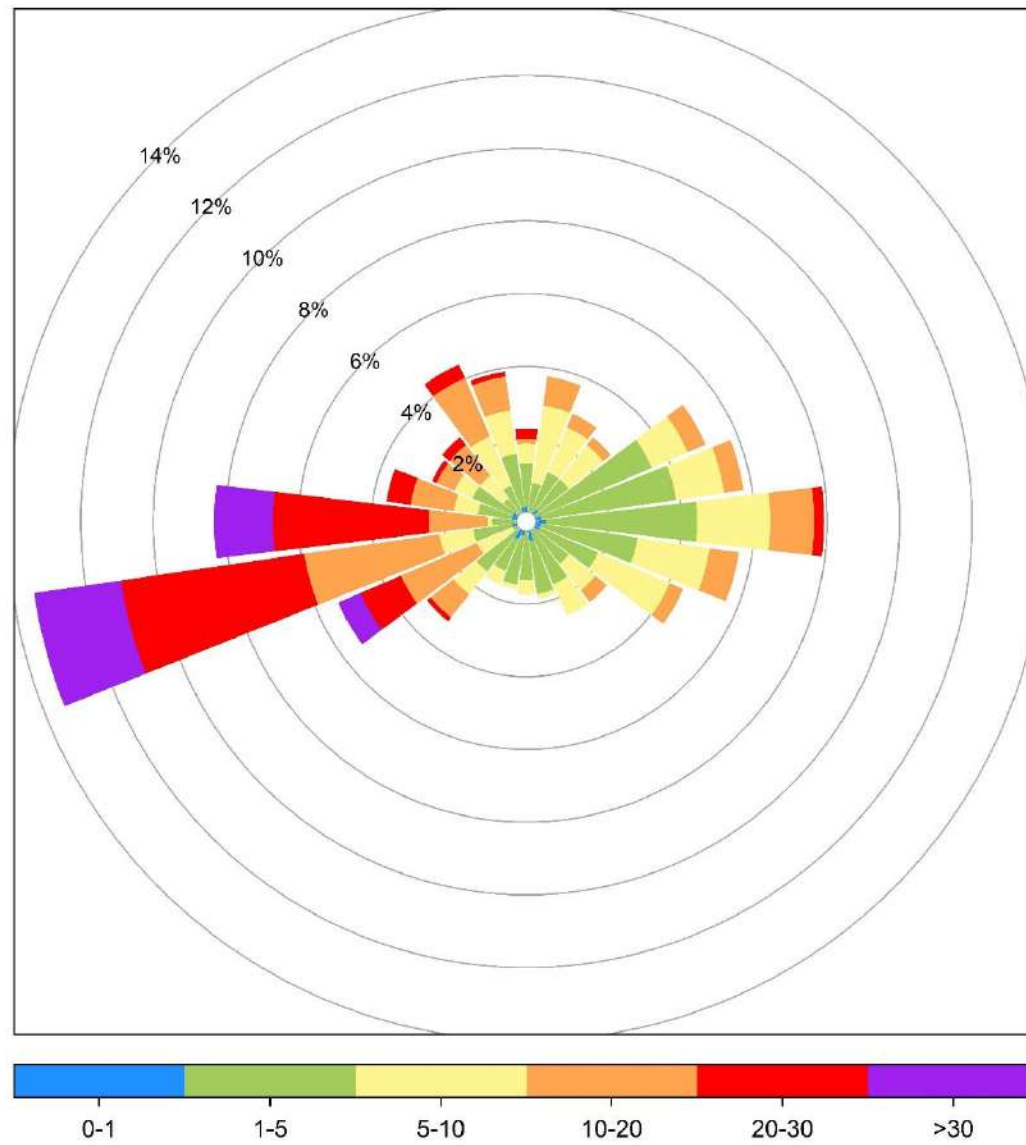


March 2022 Hourly Readings of Wind Direction (in degrees) at Beaverlodge



March 2022 Hourly Readings of Wind Direction Standard Deviation (in degrees) at Beaverlodge



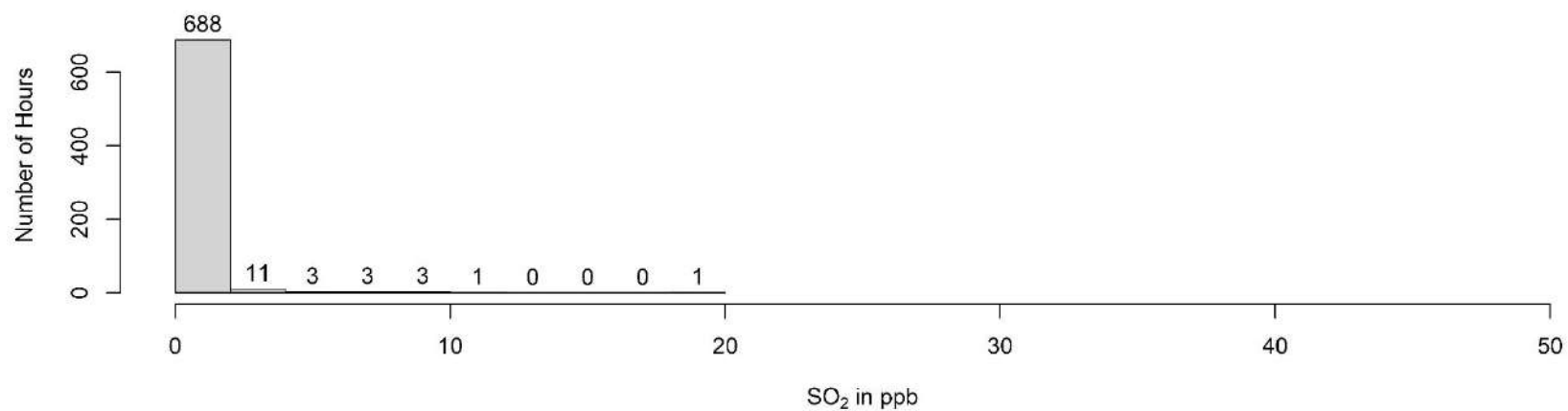
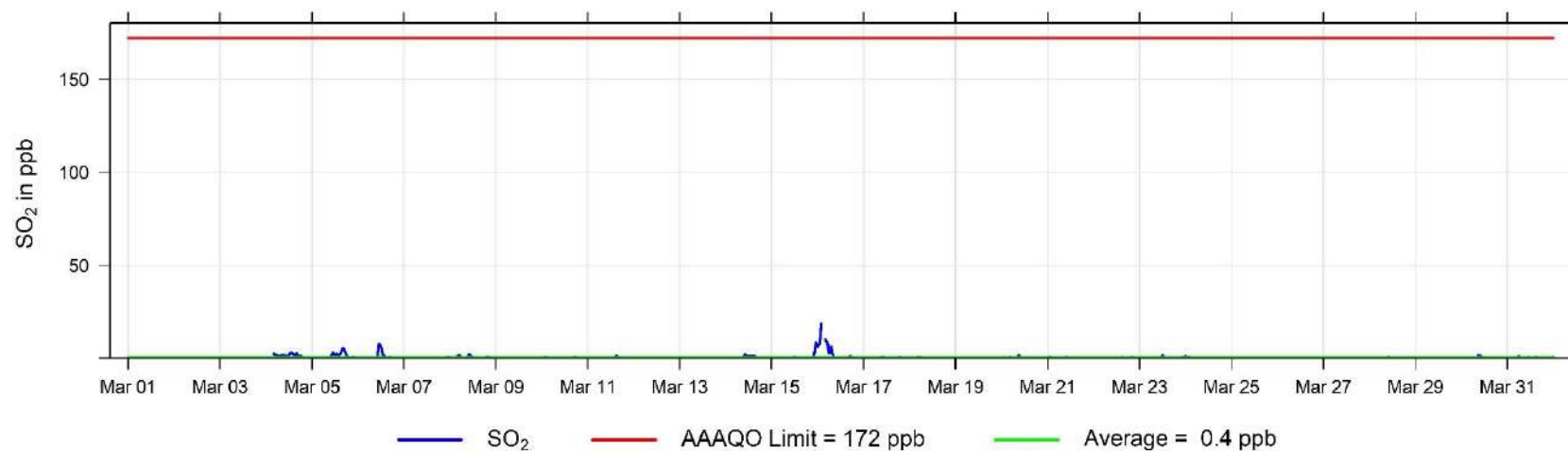


Beaverlodge March 2022 Wind Rose, wind speed in km/hr

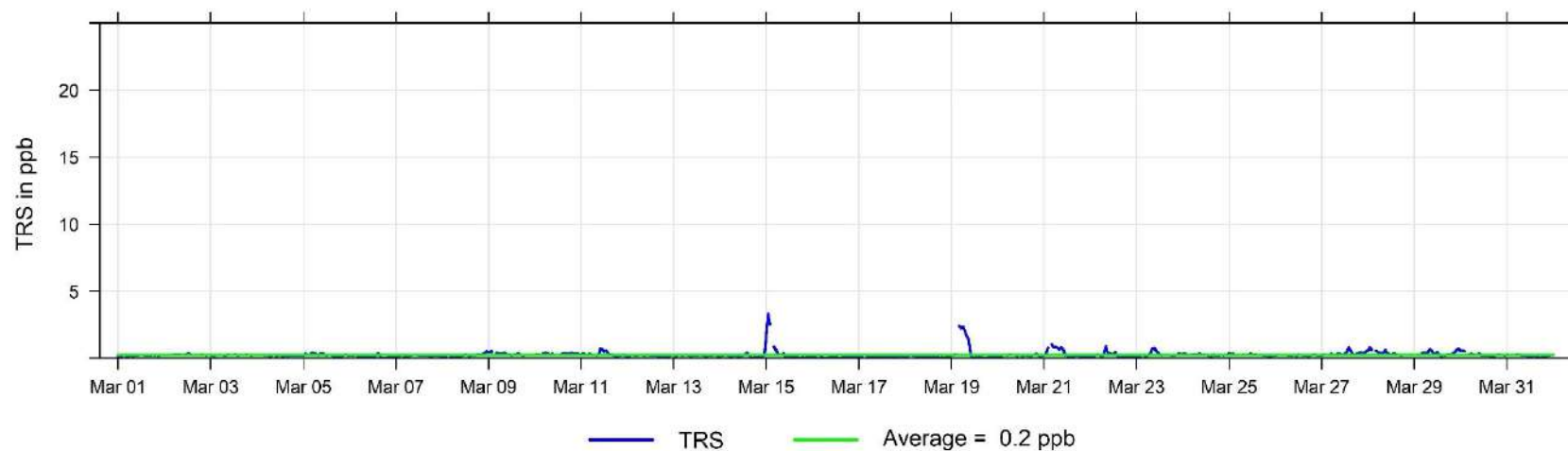
3 Dunes Charts

The following pages include the charts and histograms for Dunes Station

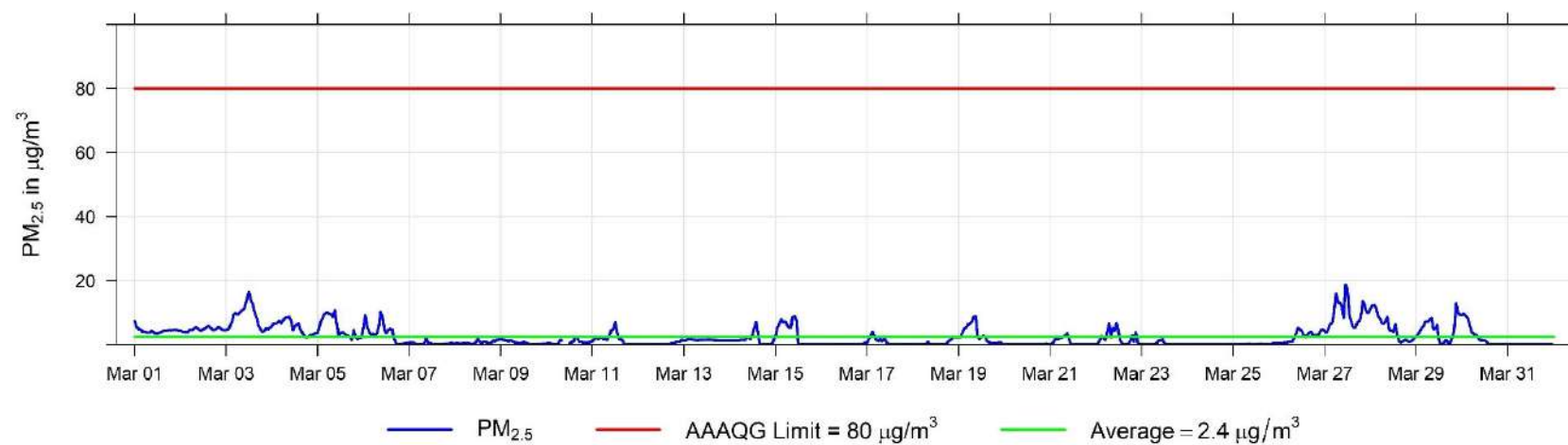
March 2022 Hourly Concentration Readings of SO₂ (in ppb) at Dunes

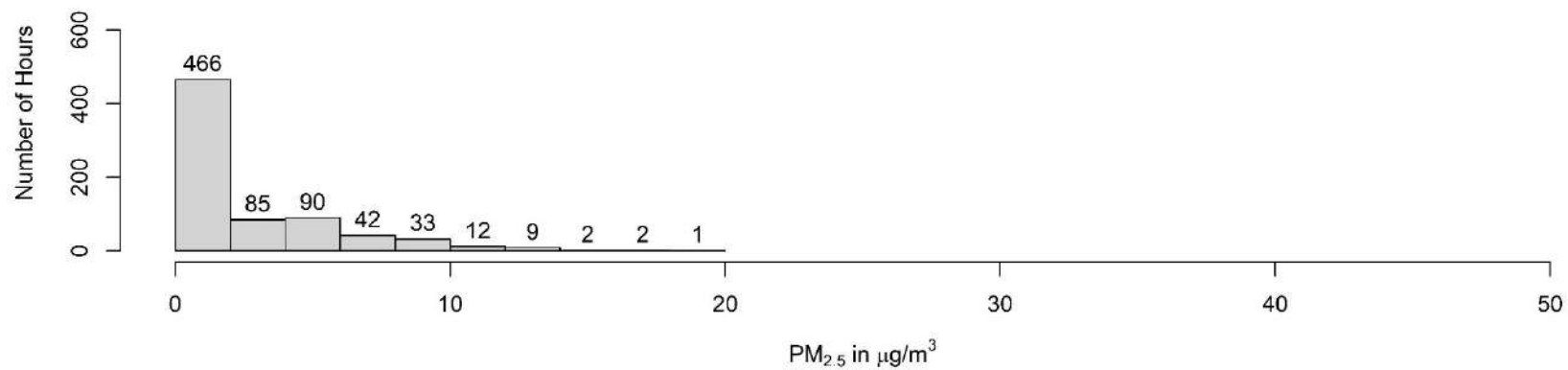


March 2022 Hourly Concentration Readings of TRS (in ppb) at Dunes

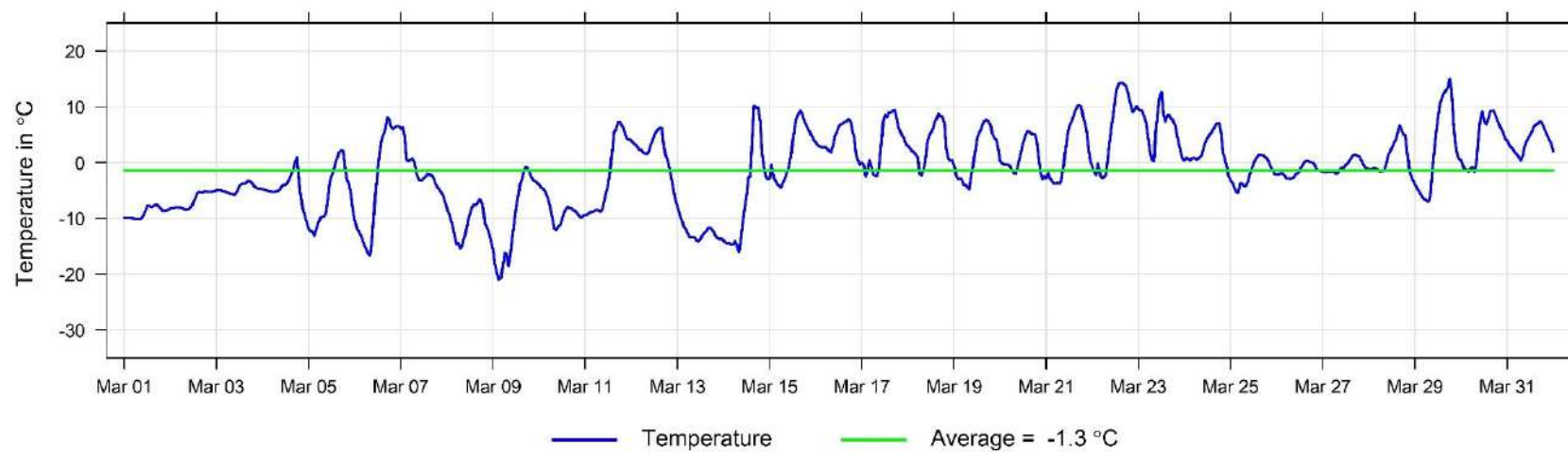


March 2022 Hourly Concentration Readings of PM_{2.5} in $\mu\text{g}/\text{m}^3$ at Dunes

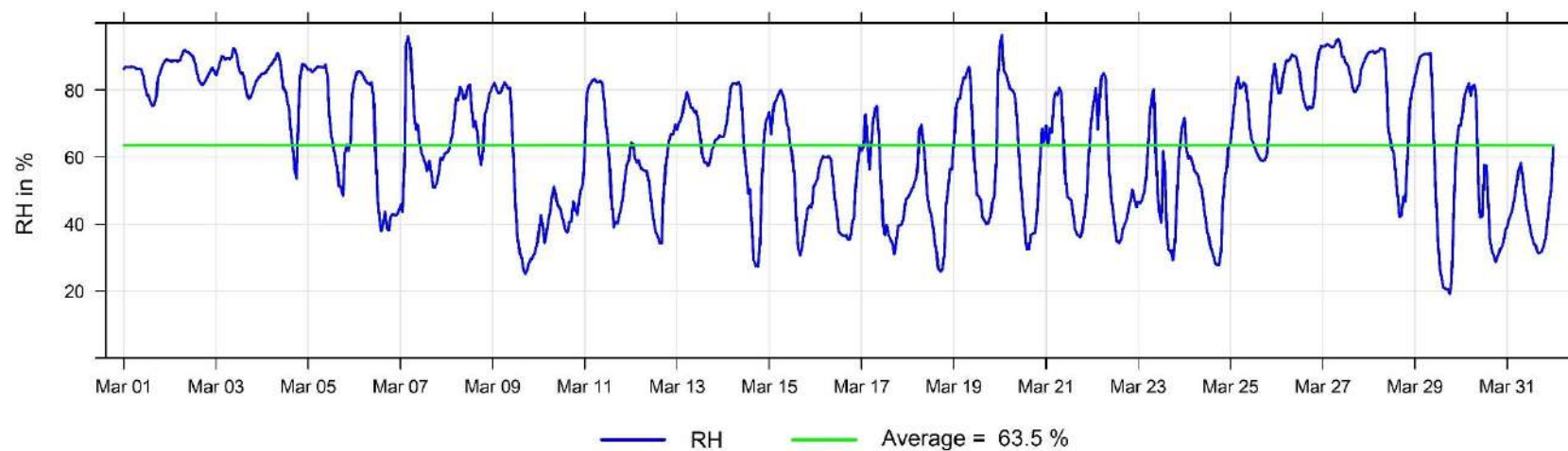




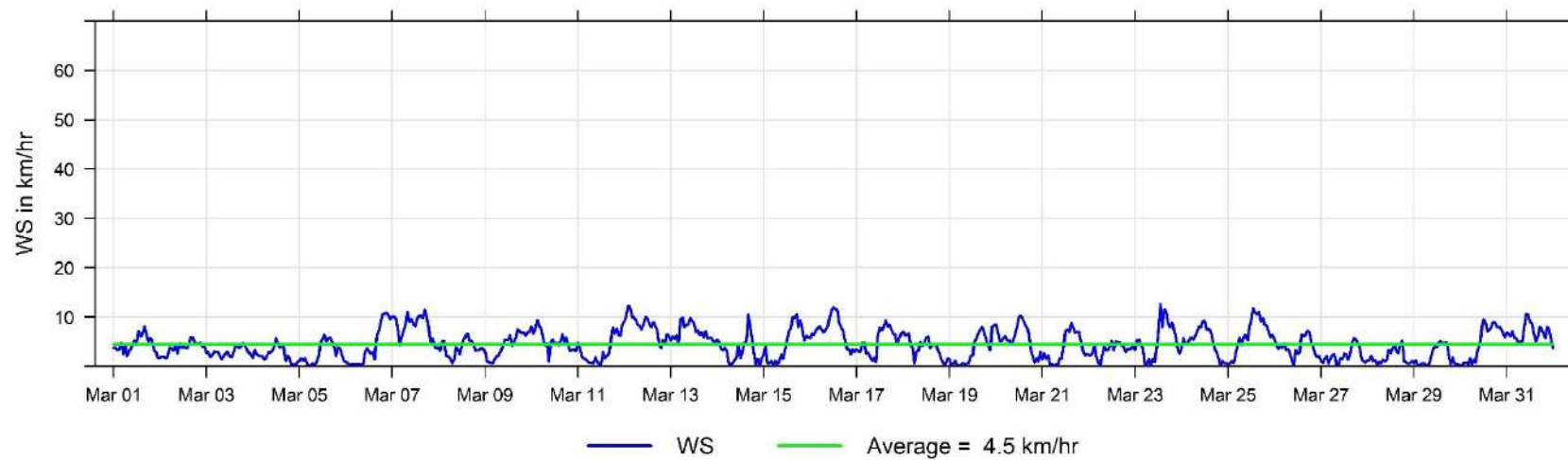
March 2022 Hourly Temperature Readings (in °C) at Dunes



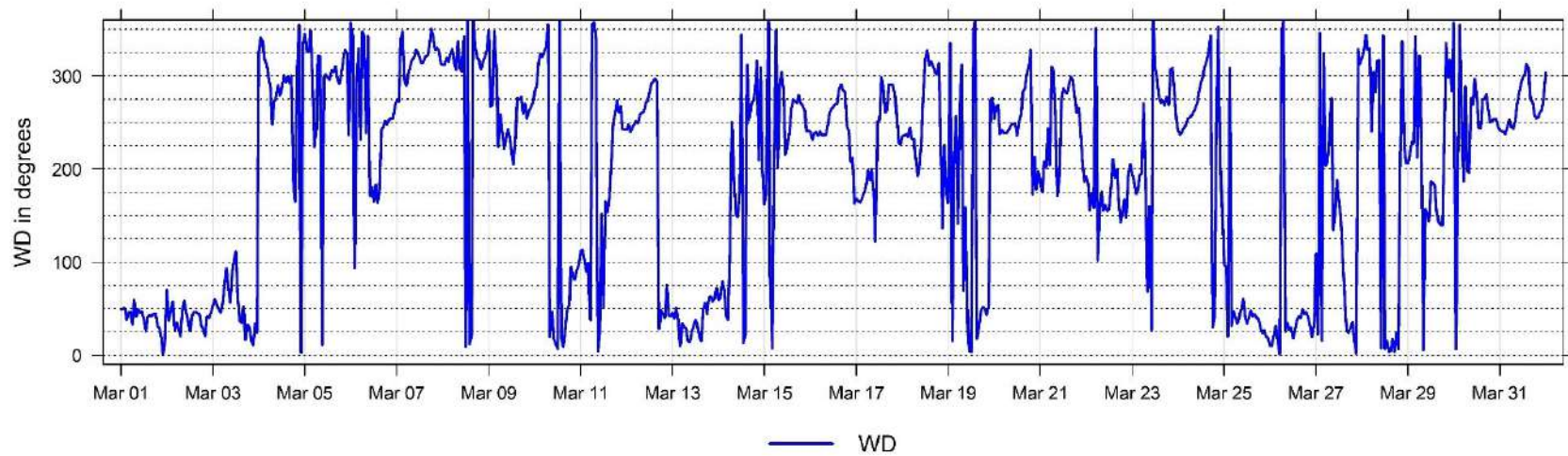
March 2022 Hourly Readings of Relative Humidity (in %) at Dunes



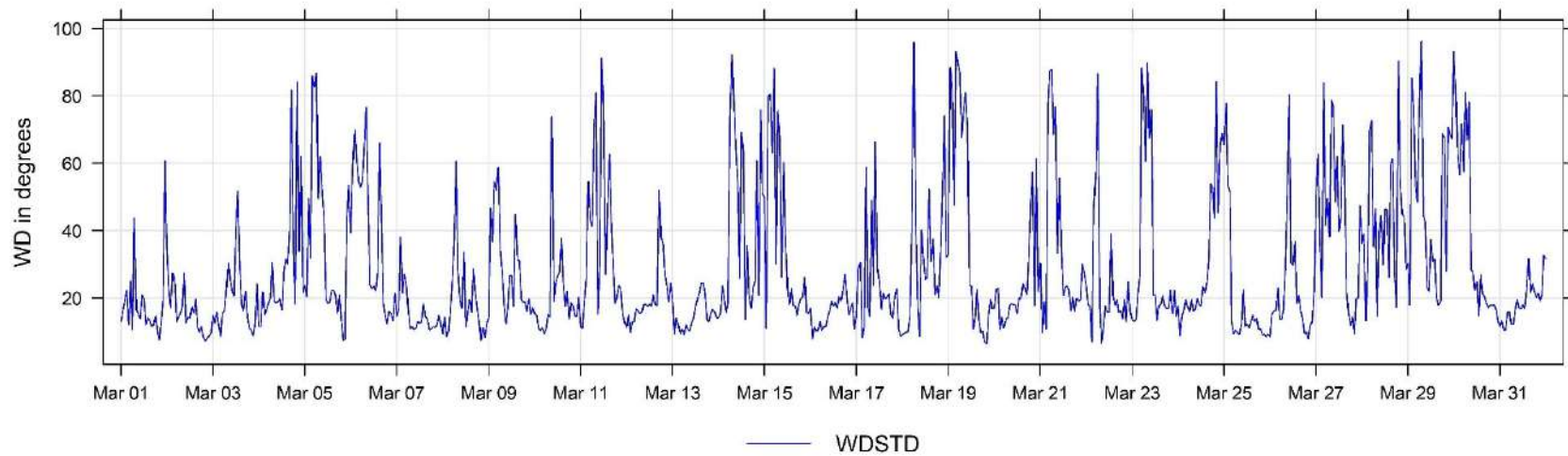
March 2022 Hourly Readings of Wind Speed (in km/hr) at Dunes

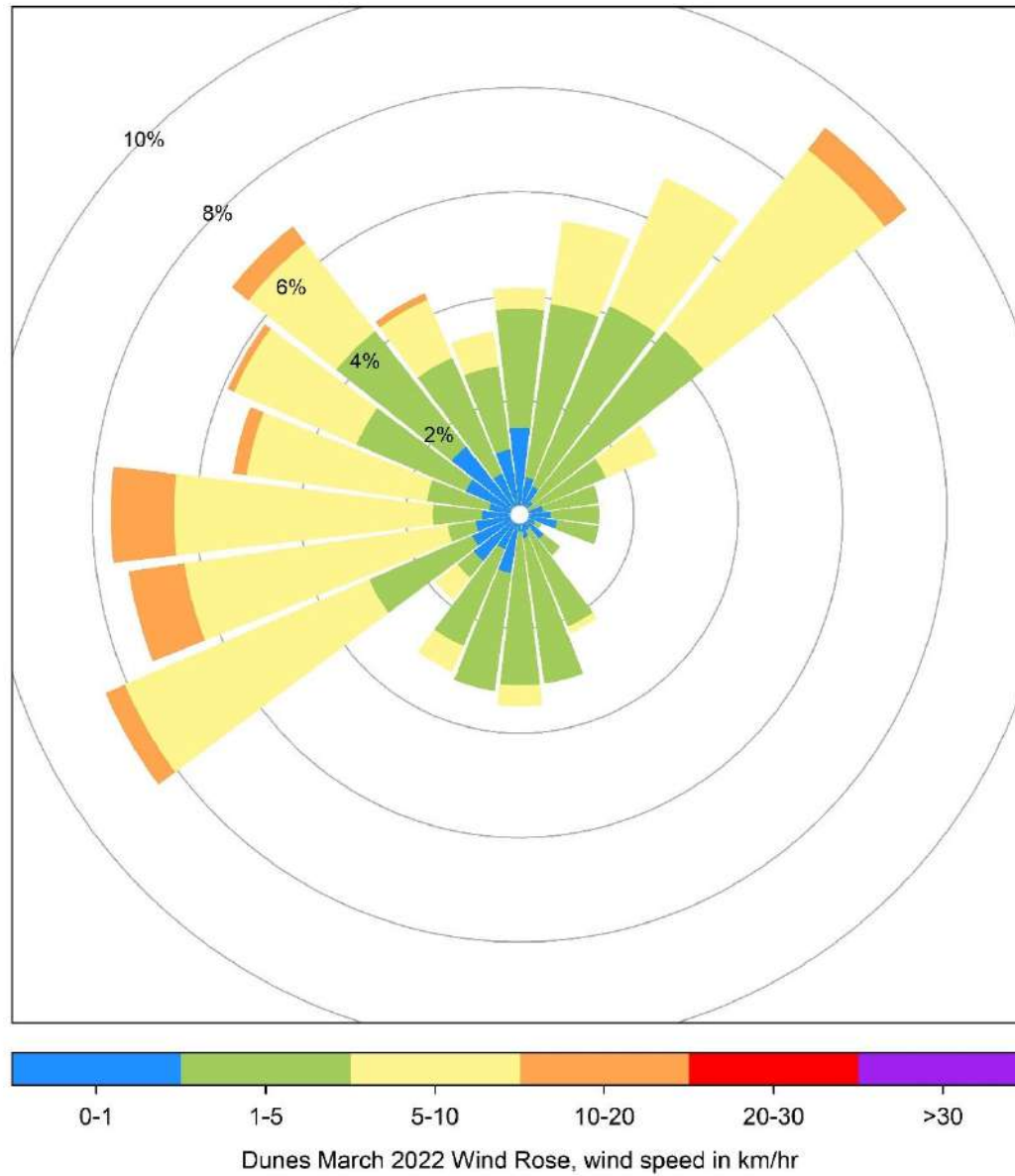


March 2022 Hourly Readings of Wind Direction (in degrees) at Dunes



March 2022 Hourly Readings of Wind Direction Standard Deviation (in degrees) at Dunes

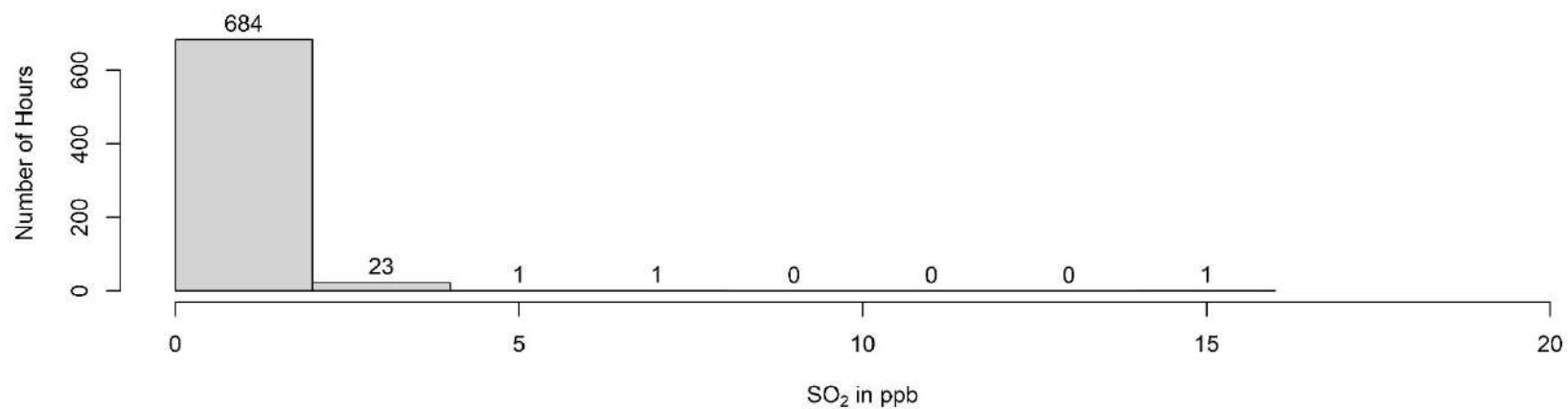
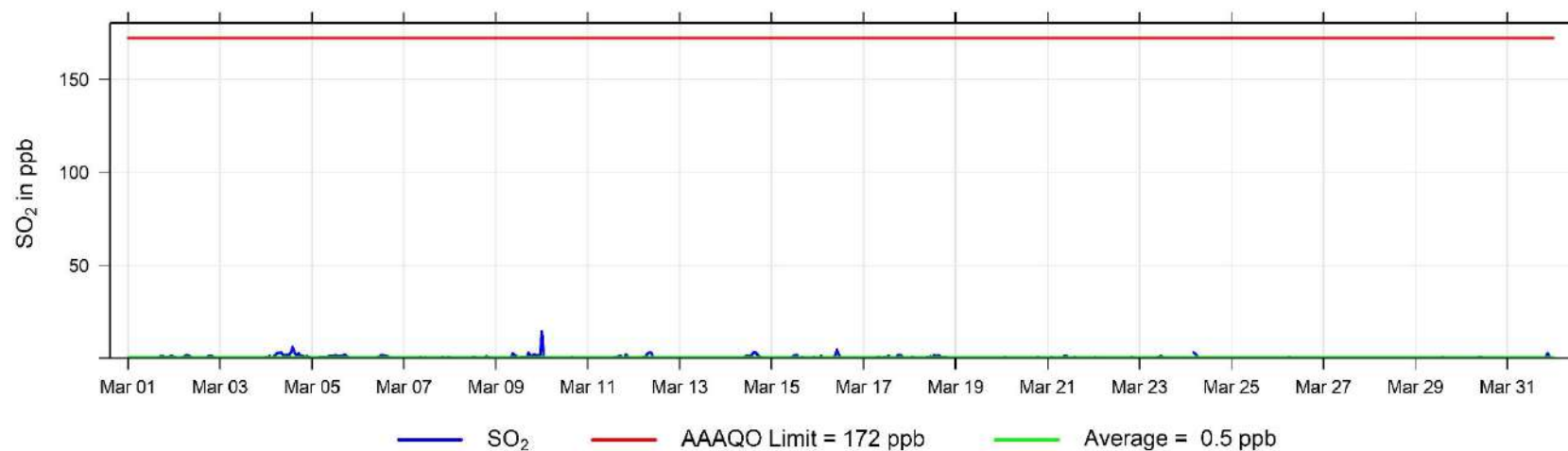




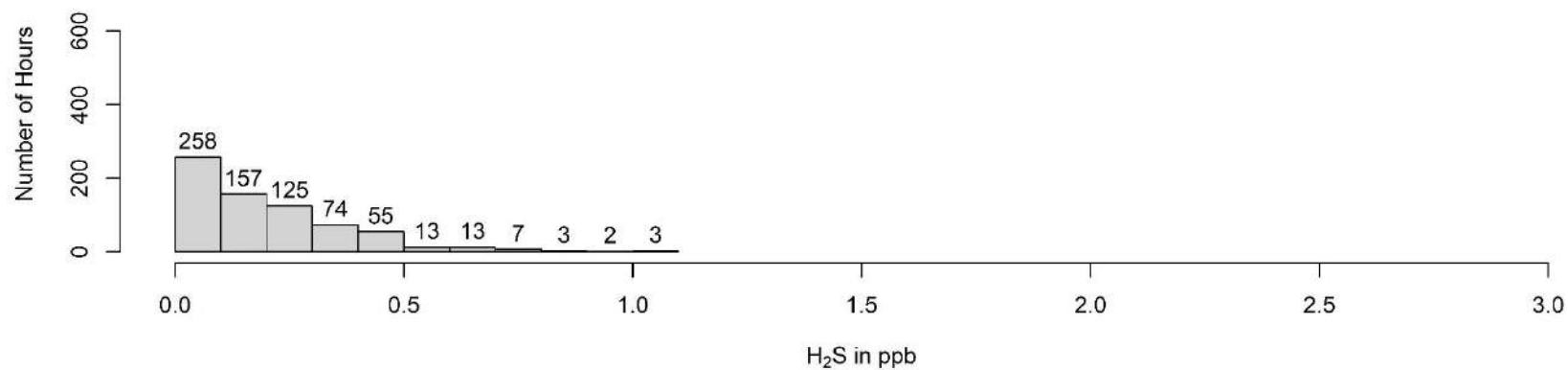
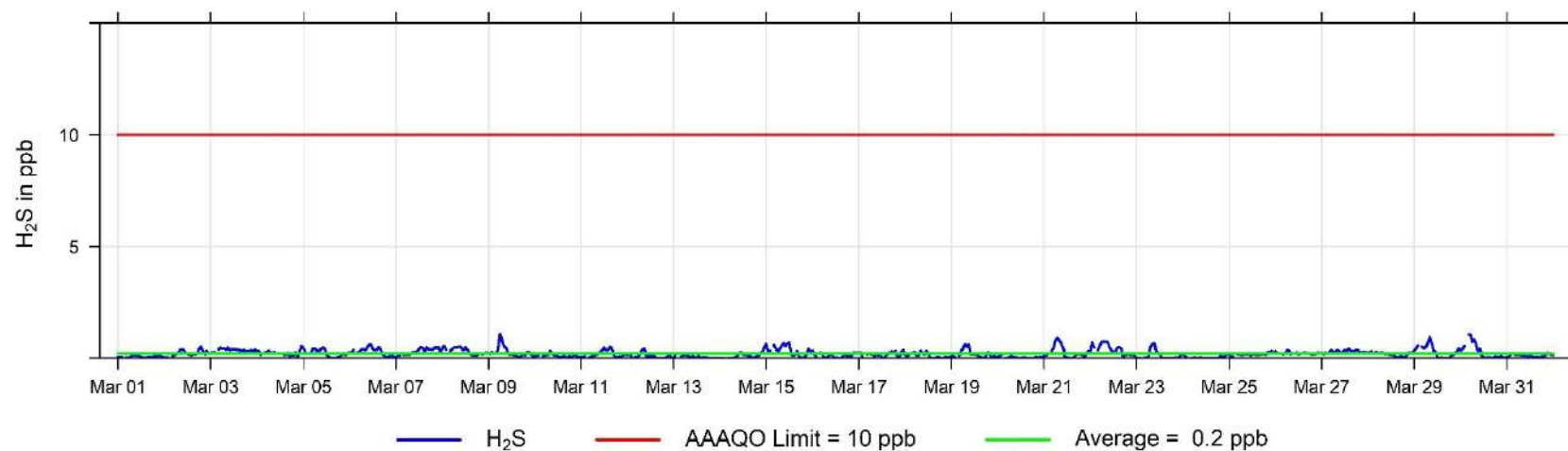
4 Grande Prairie - Henry Pirker Charts

The following pages include the charts and histograms for Henry Pirker Station in Grande Prairie

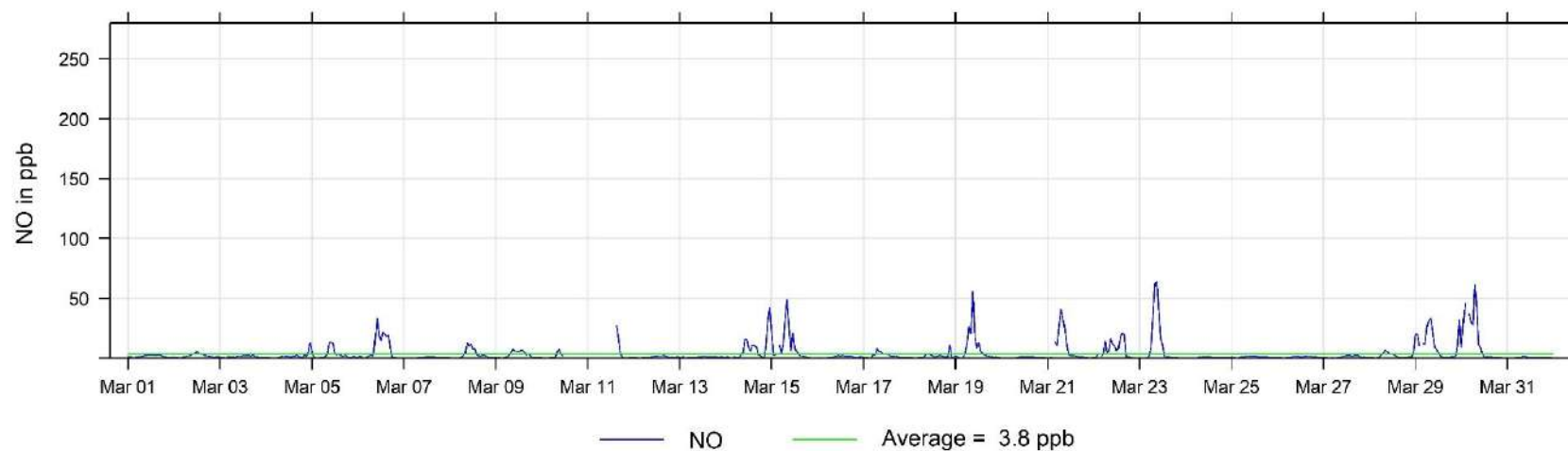
March 2022 Hourly Concentration Readings of SO₂ (in ppb) at Henry Pirker



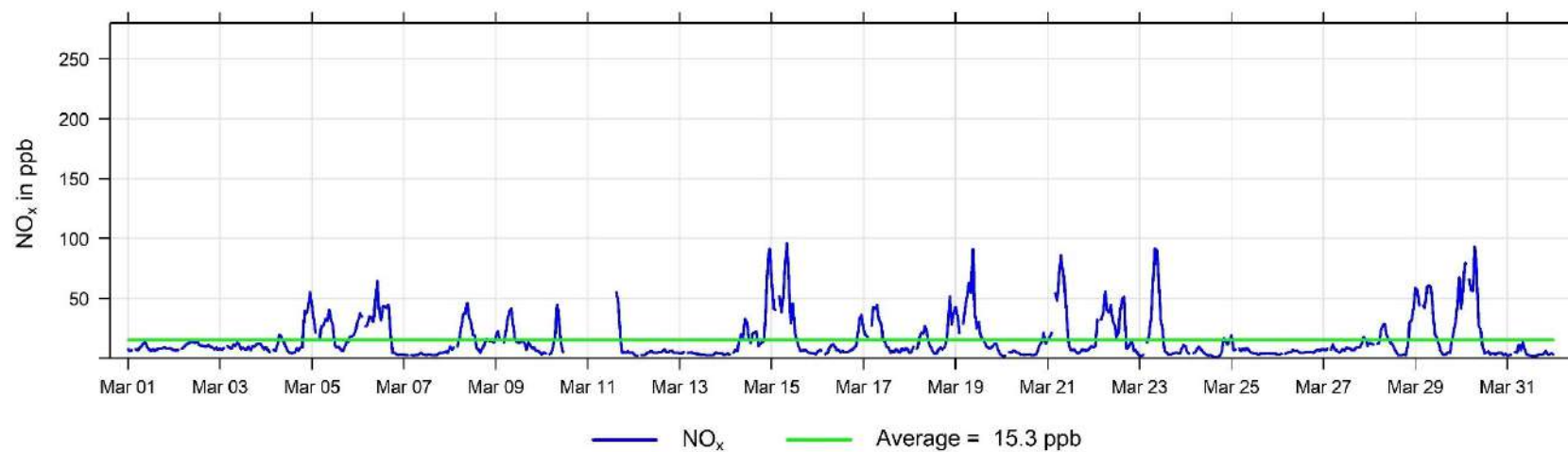
March 2022 Hourly Concentration Readings of H₂S (in ppb) at Henry Pirker



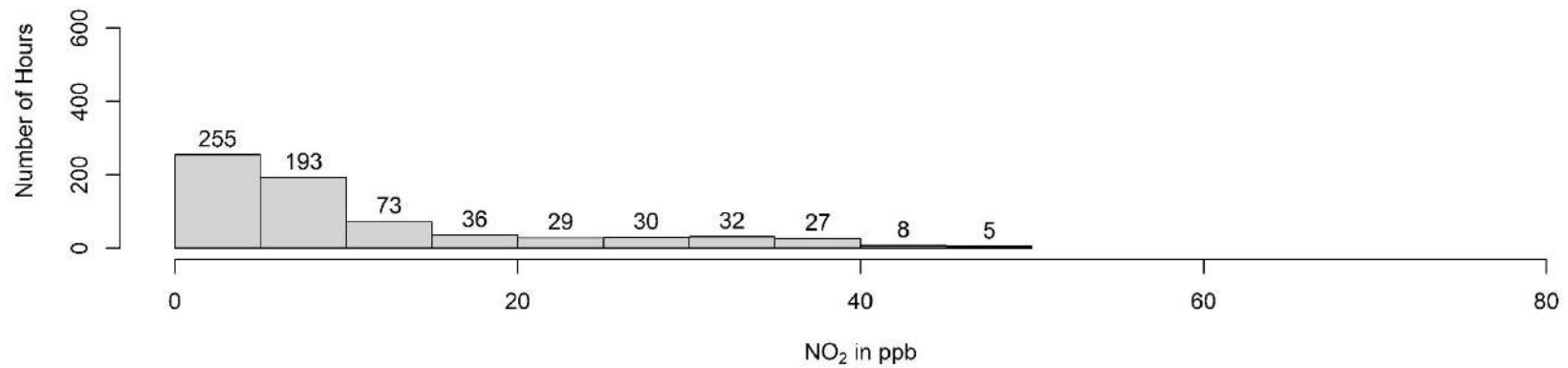
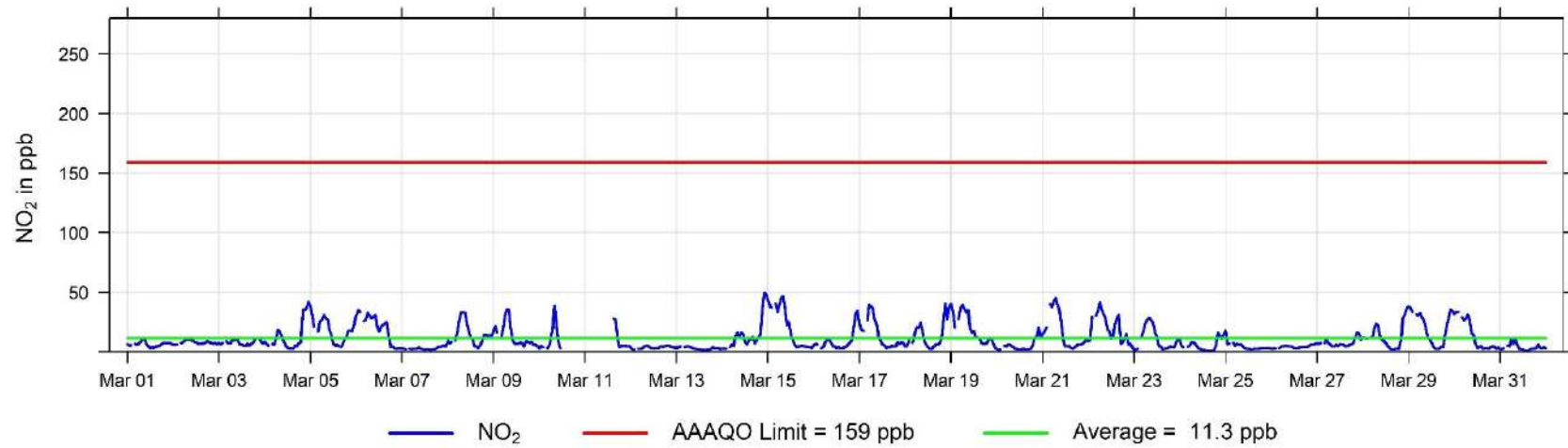
March 2022 Hourly Concentration Readings of NO (in ppb) at Henry Pirker



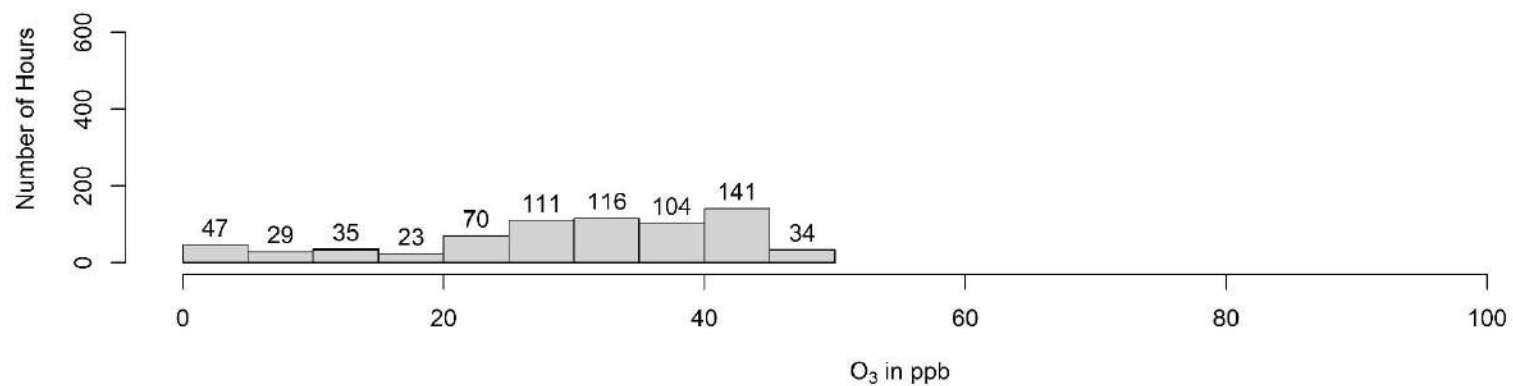
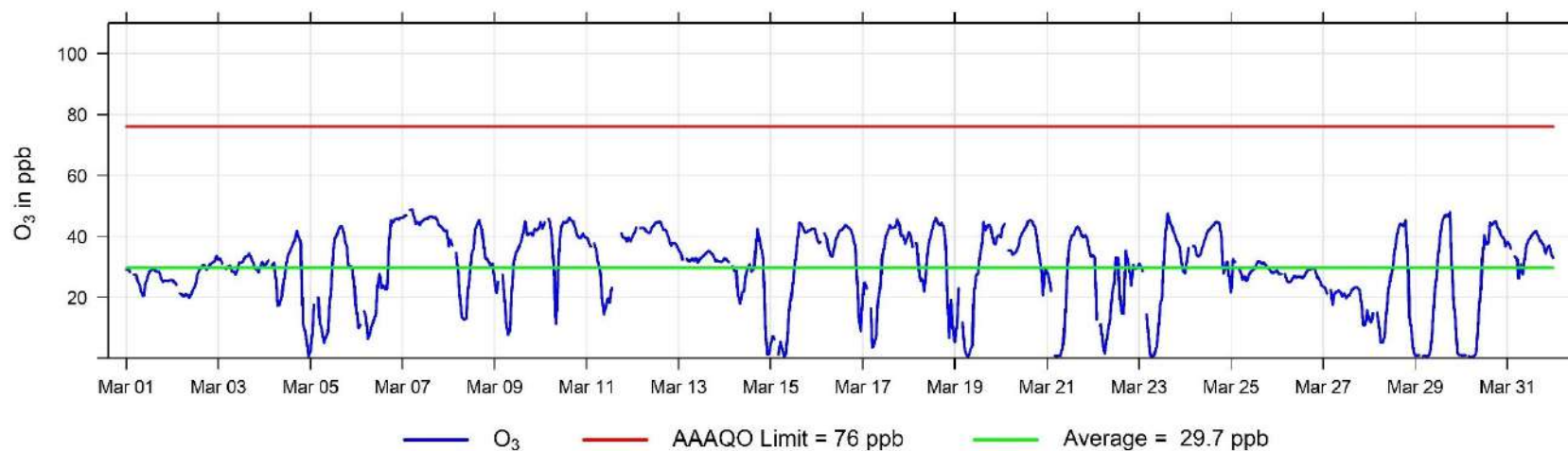
March 2022 Hourly Concentration Readings of NO_x (in ppb) at Henry Pirker



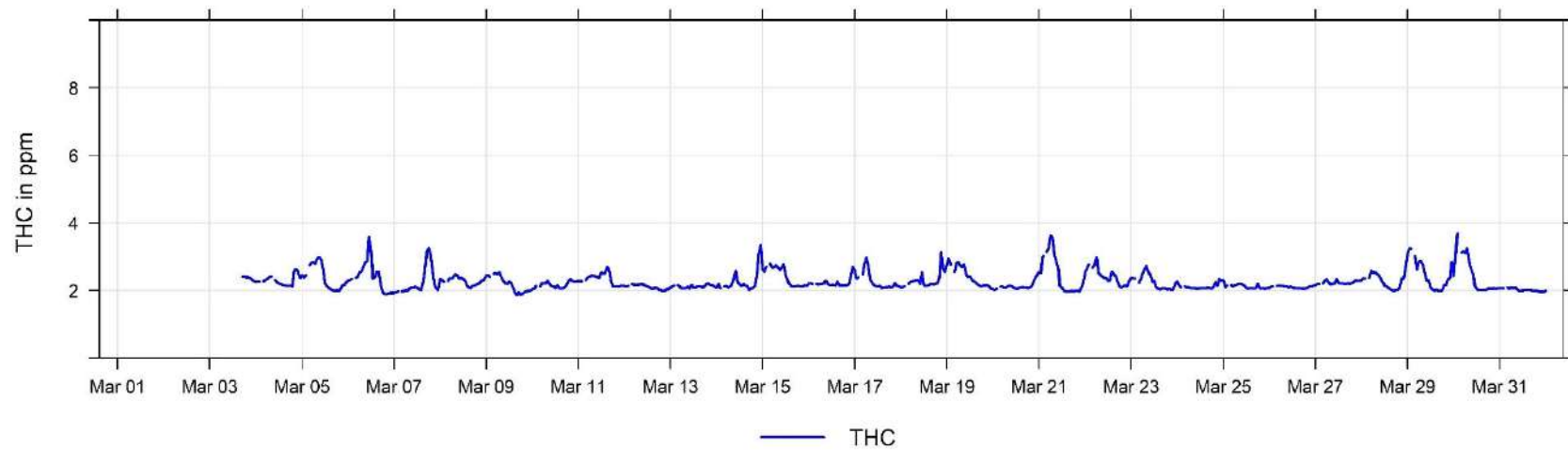
March 2022 Hourly Concentration Readings of NO₂ (in ppb) at Henry Pirker



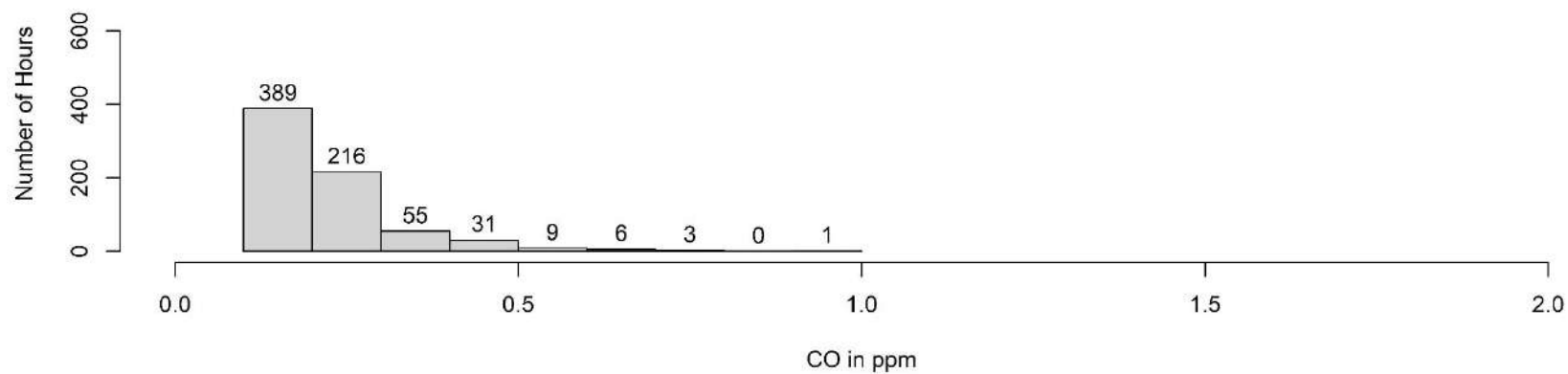
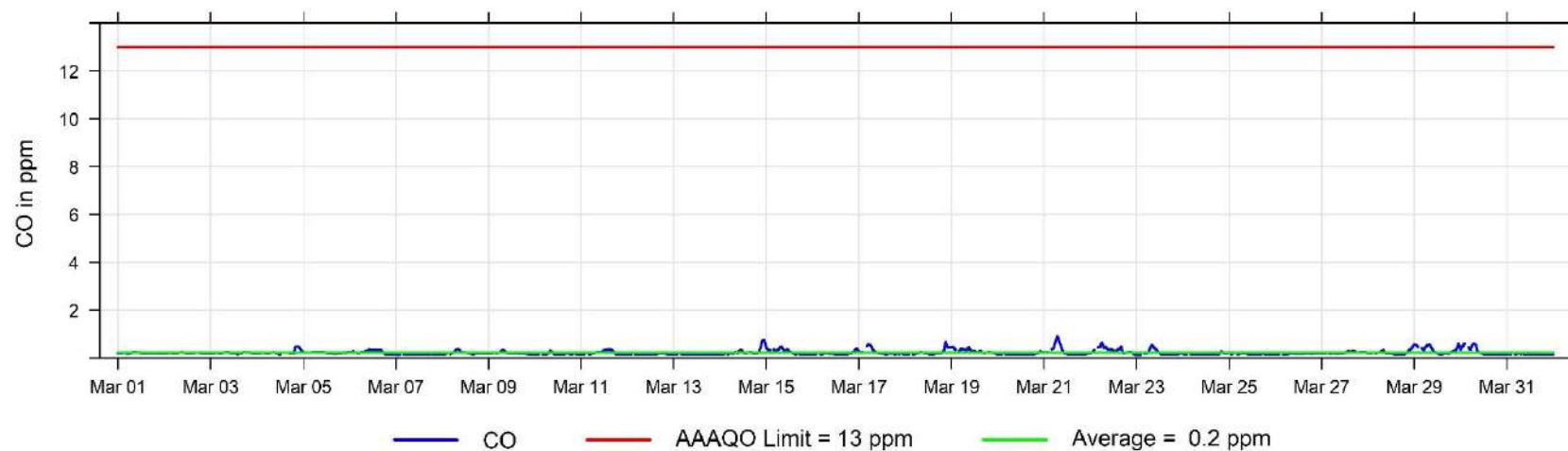
March 2022 Hourly Concentration Readings of O₃ (in ppb) at Henry Pirker



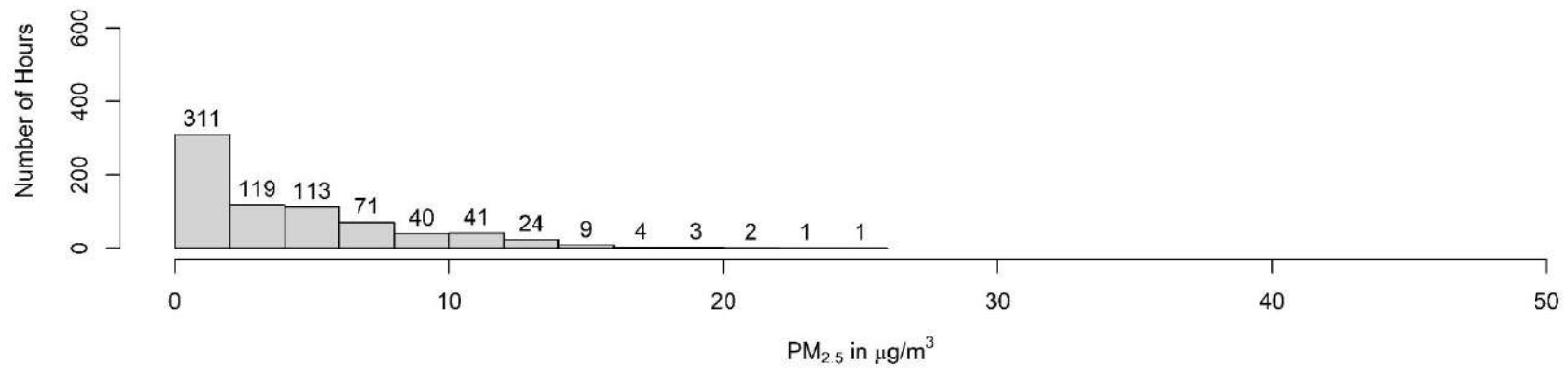
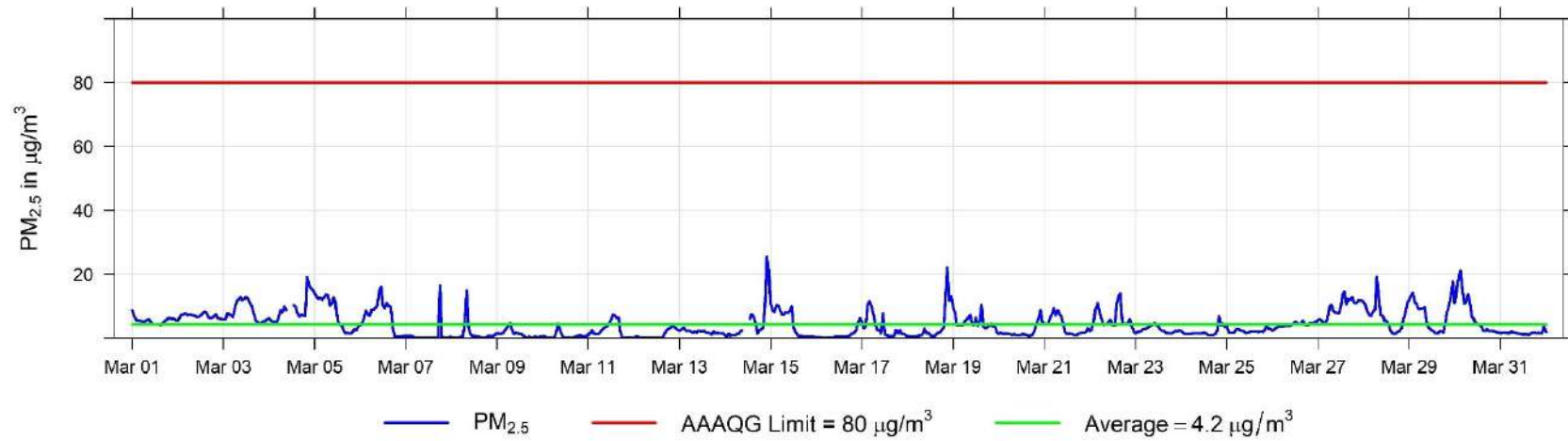
March 2022 Hourly Concentration Readings of THC (in ppm) at Henry Pirker



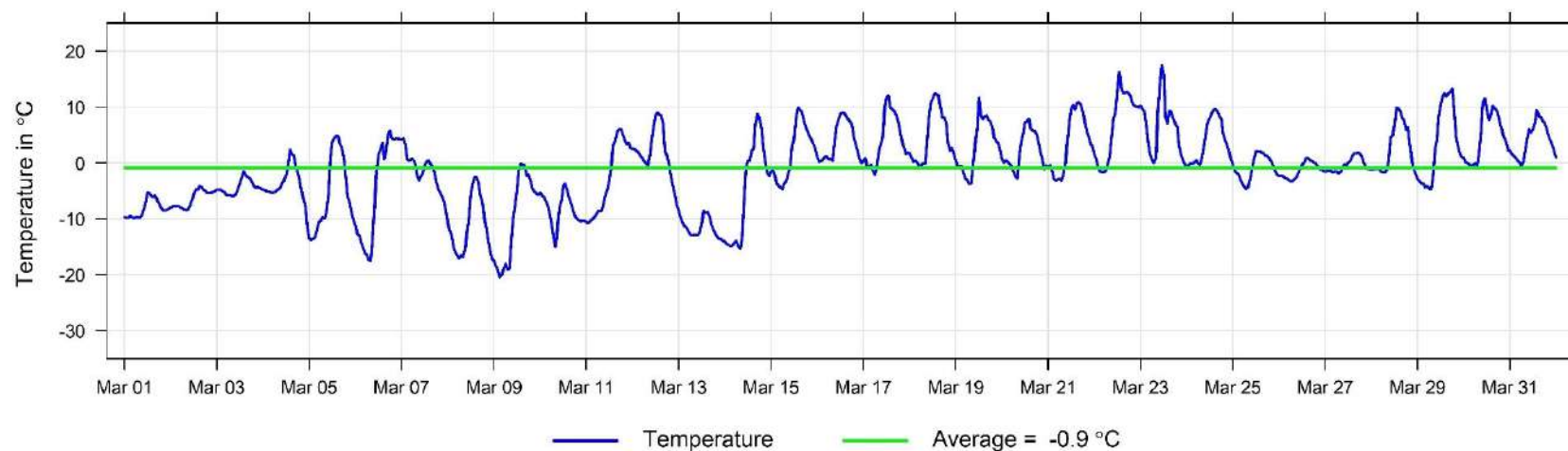
March 2022 Hourly Concentration Readings of CO (in ppm) at Henry Pirker



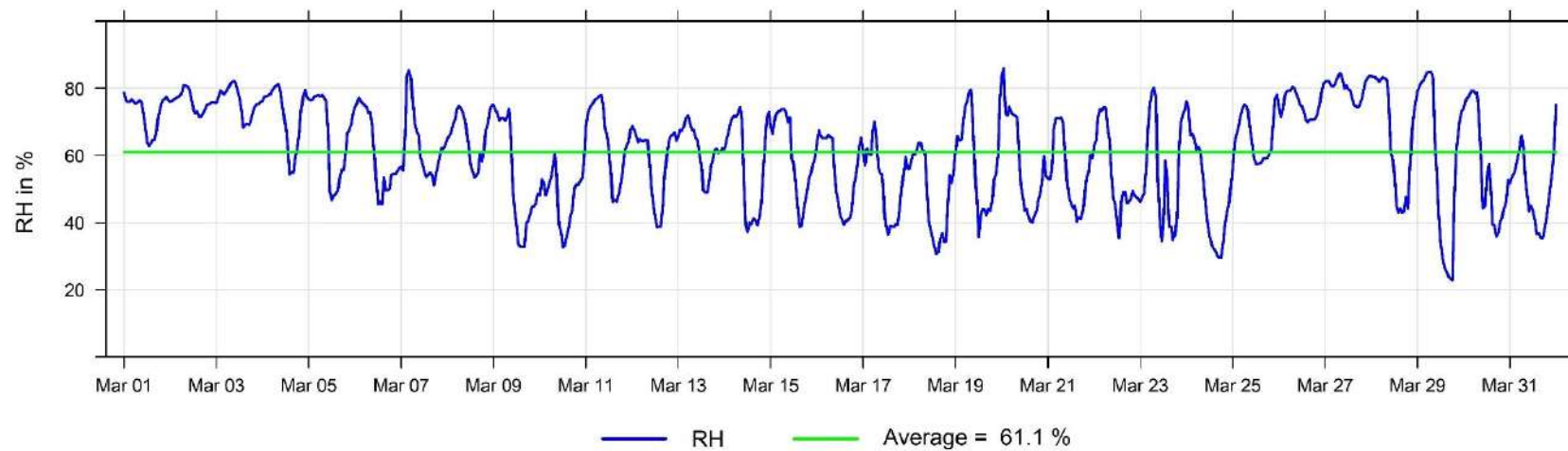
March 2022 Hourly Concentration Readings of PM_{2.5} in $\mu\text{g}/\text{m}^3$ at Henry Pirker



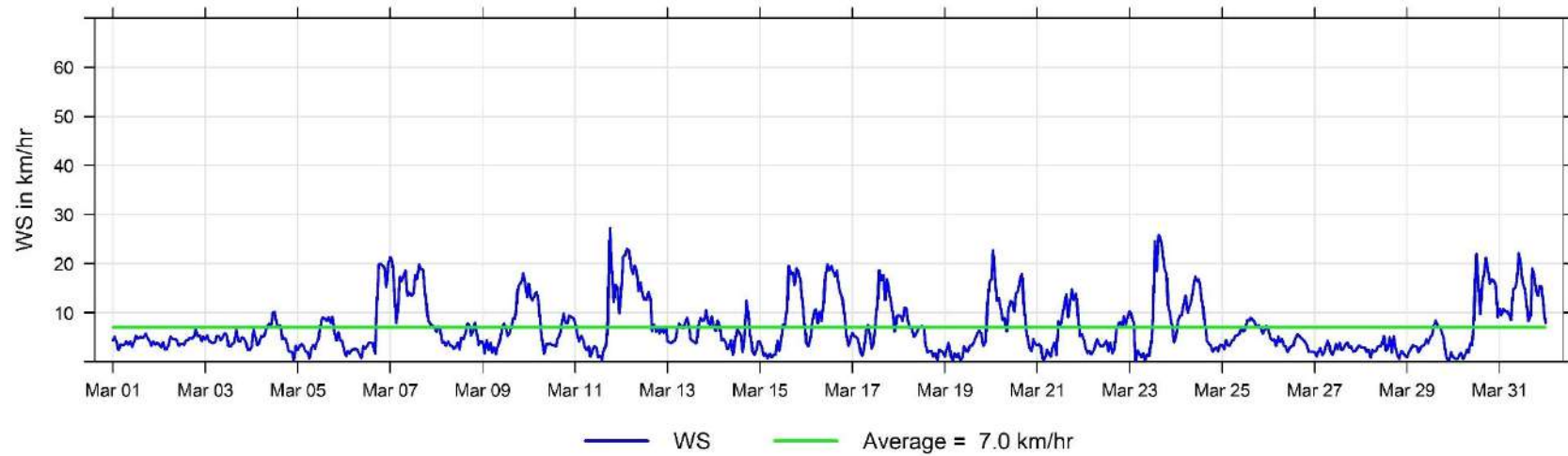
March 2022 Hourly Temperature Readings (in °C) at Henry Pirker



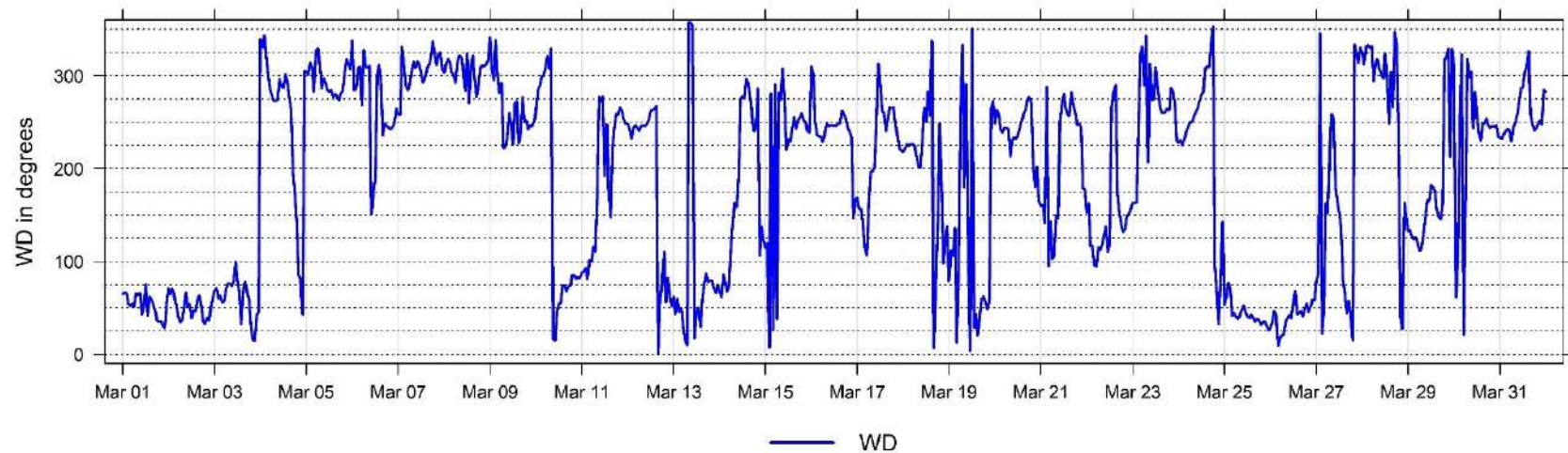
March 2022 Hourly Readings of Relative Humidity (in %) at Henry Pirker



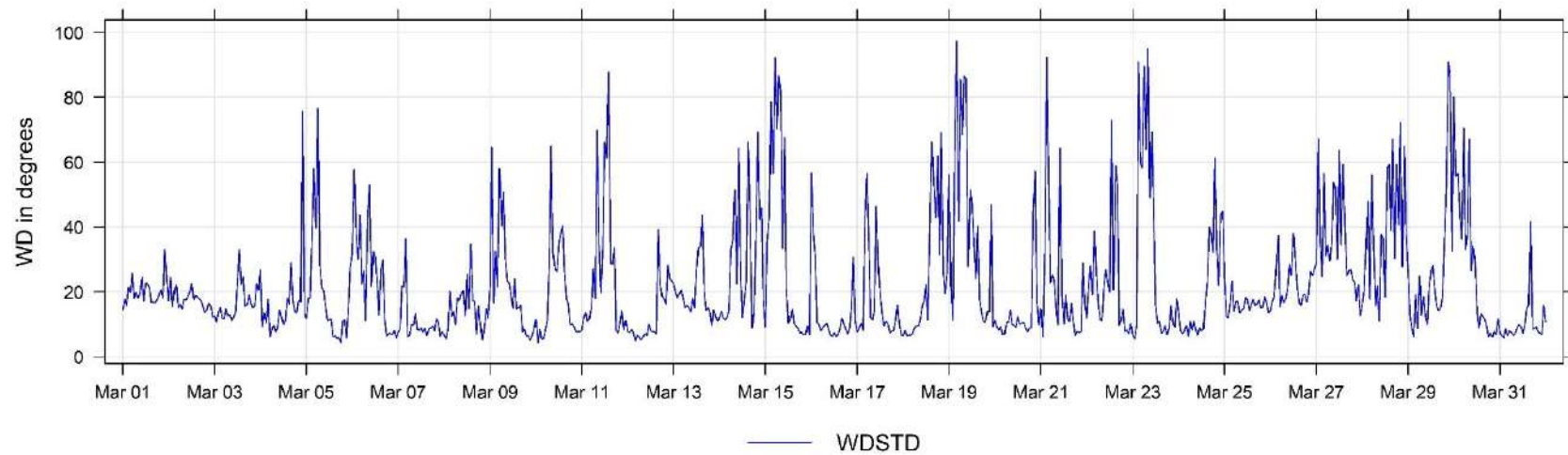
March 2022 Hourly Readings of Wind Speed (in km/hr) at Henry Pirker

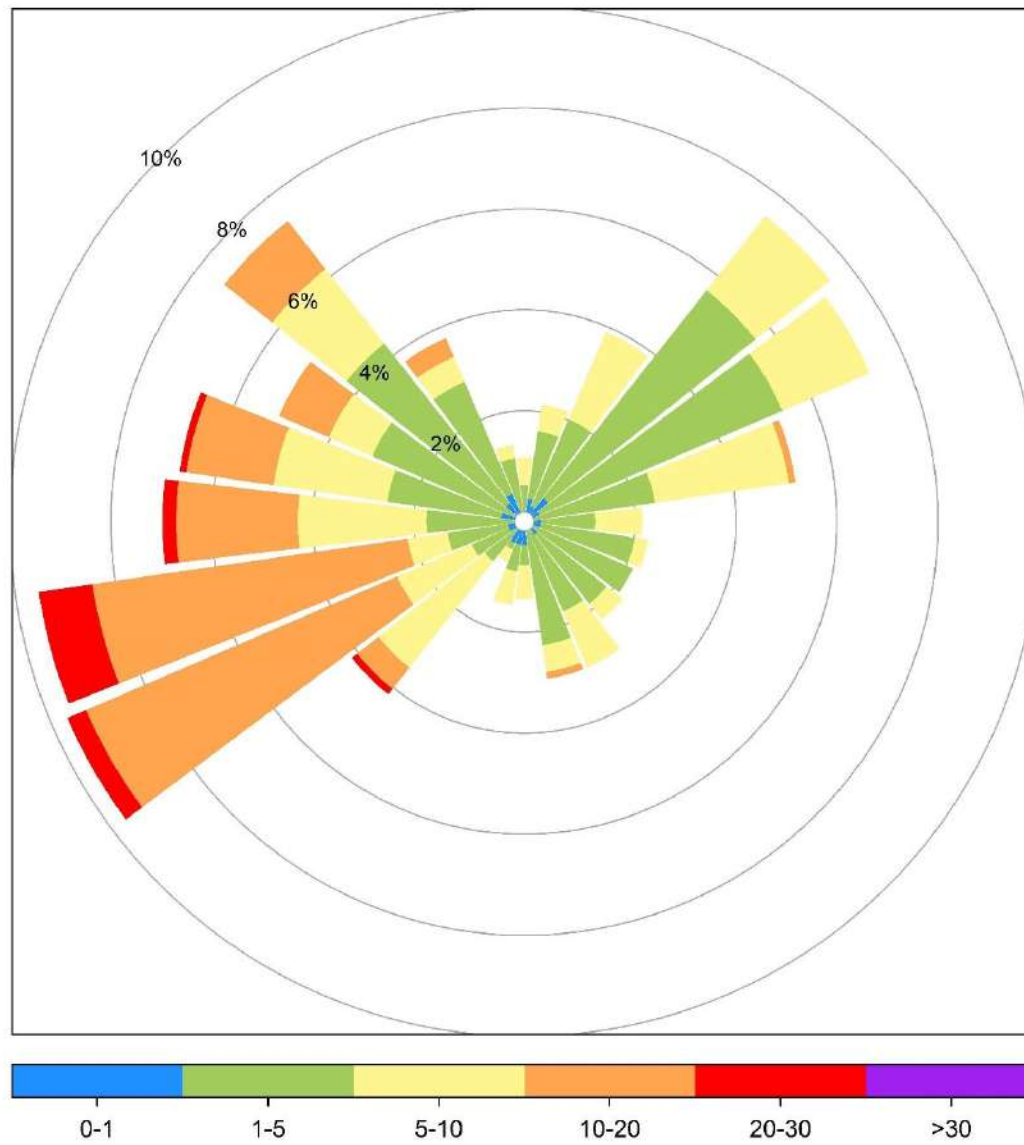


March 2022 Hourly Readings of Wind Direction (in degrees) at Henry Pirker



March 2022 Hourly Readings of Wind Direction Standard Deviation (in degrees) at Henry Pirker



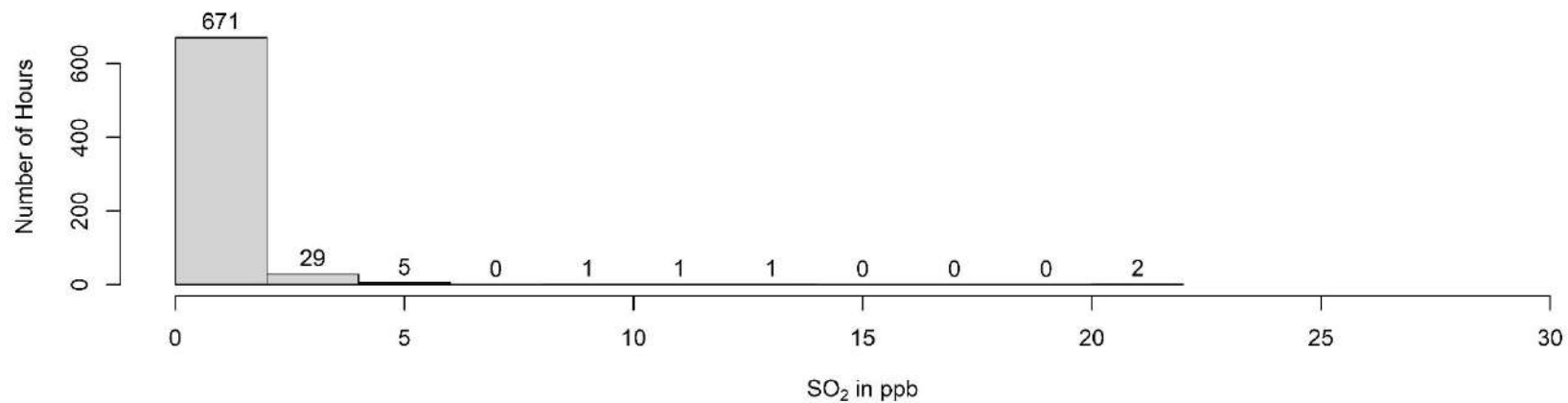
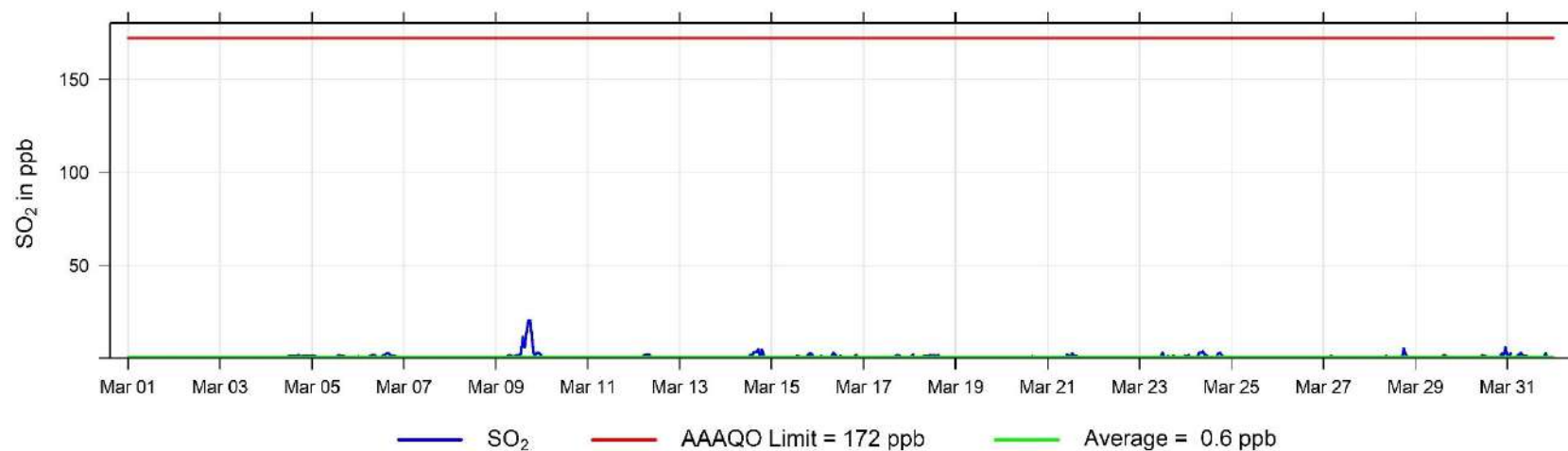


Henry Pirker March 2022 Wind Rose, wind speed in km/hr

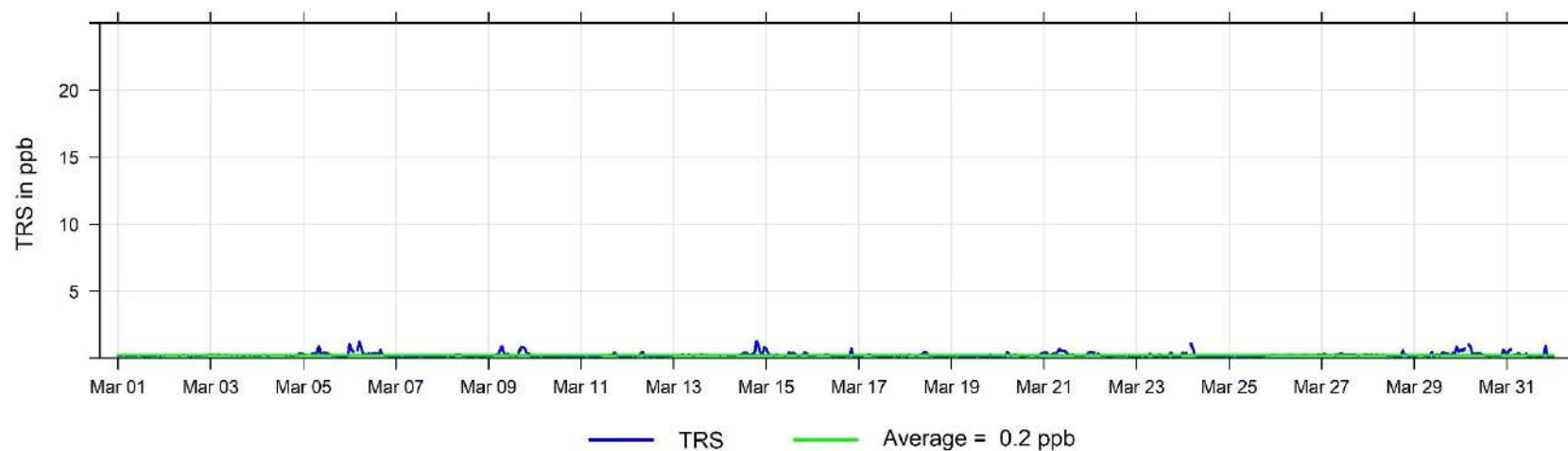
5 Smoky Heights Charts

The following pages include the charts and histograms for Smoky Heights Station

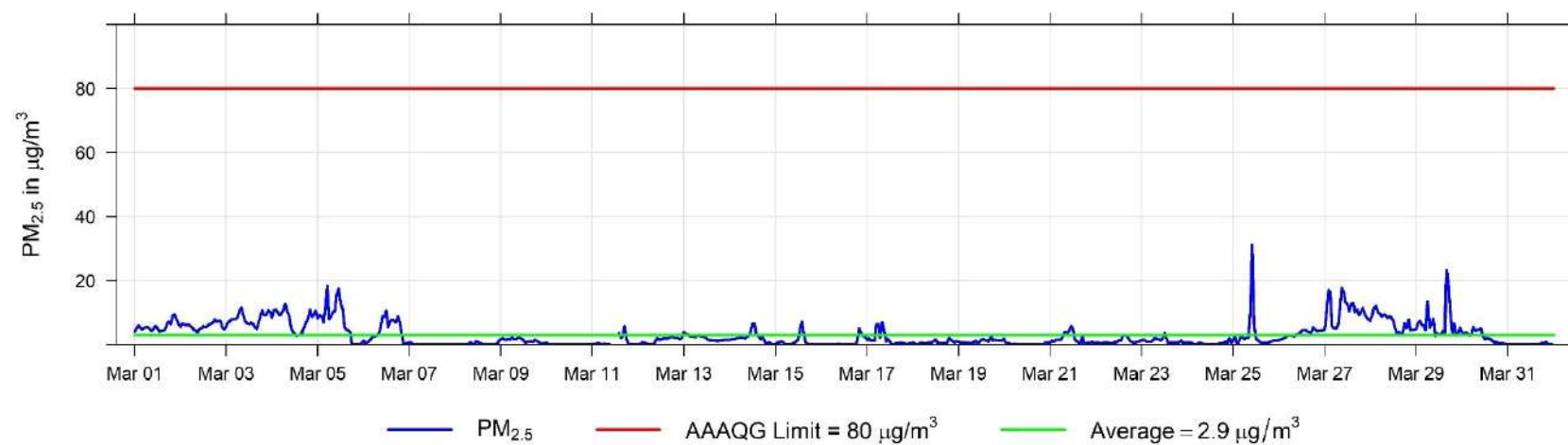
March 2022 Hourly Concentration Readings of SO₂ (in ppb) at Smoky Heights

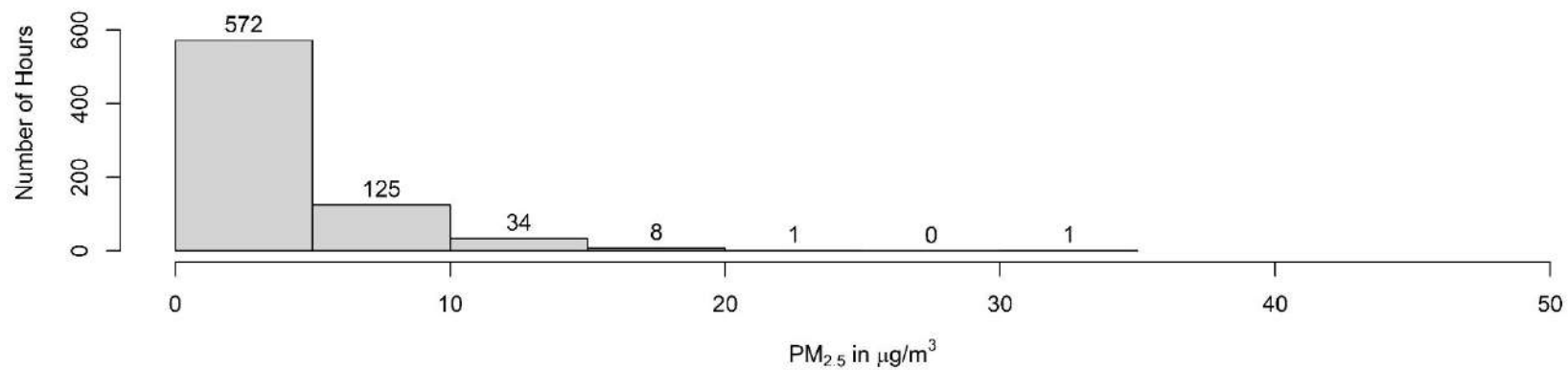


March 2022 Hourly Concentration Readings of TRS (in ppb) at Smoky Heights

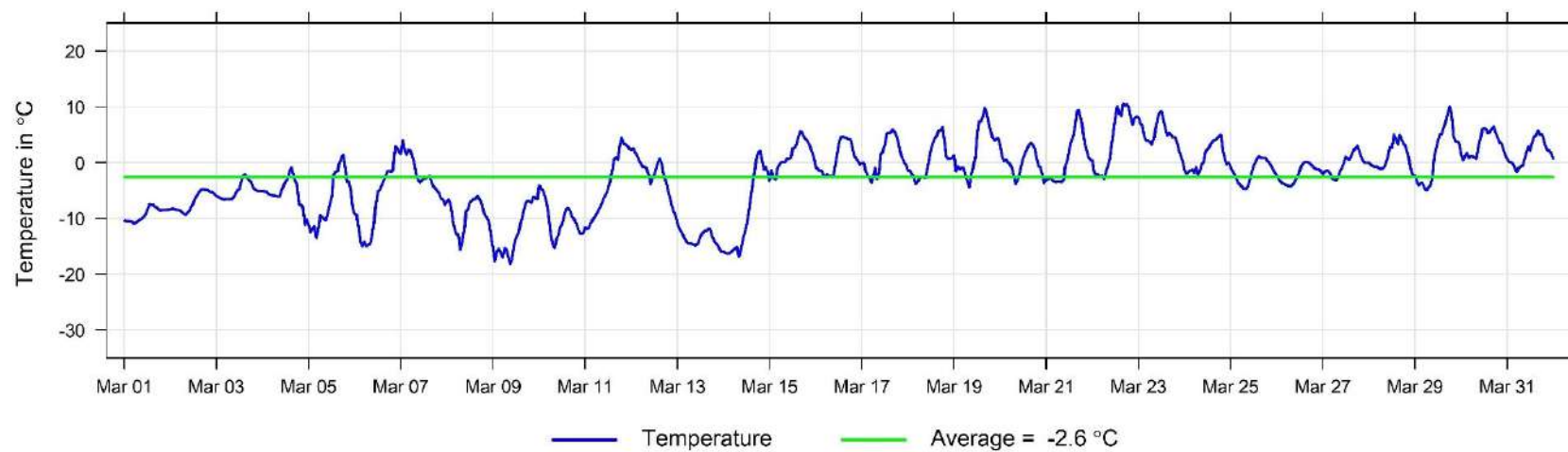


March 2022 Hourly Concentration Readings of PM_{2.5} in $\mu\text{g}/\text{m}^3$ at Smoky Heights

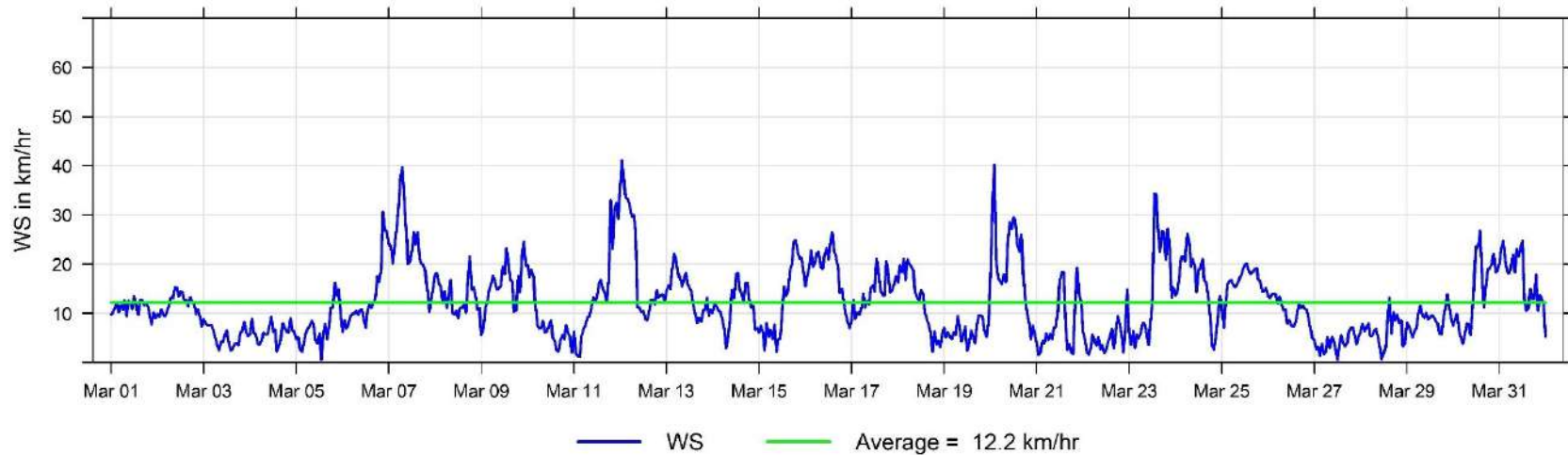




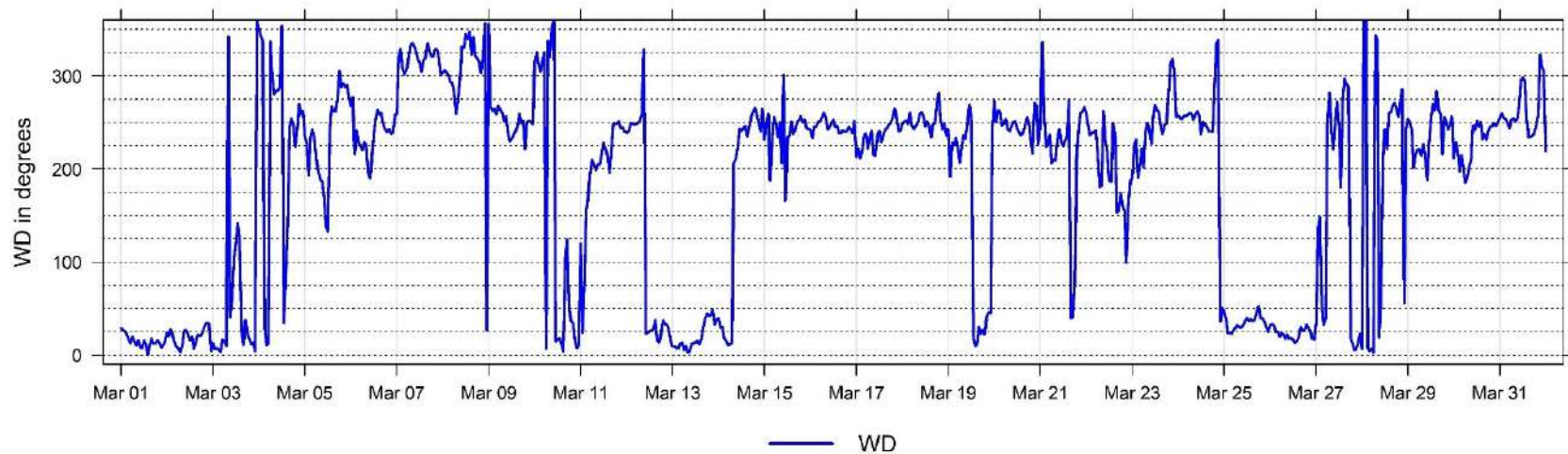
March 2022 Hourly Temperature Readings (in °C) at Smoky Heights



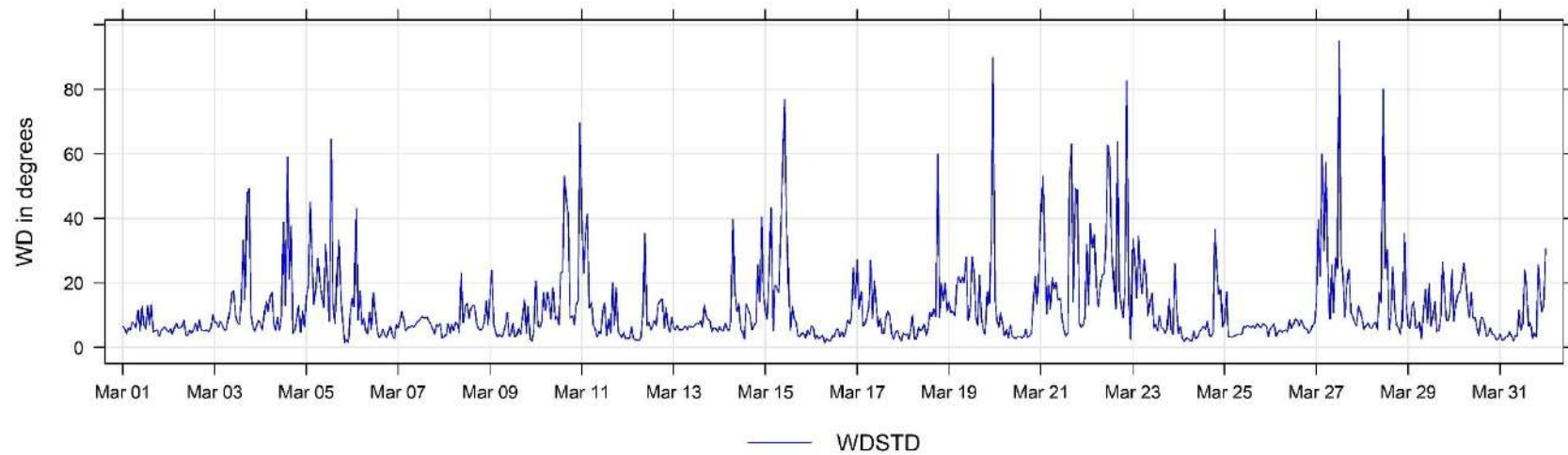
March 2022 Hourly Readings of Wind Speed (in km/hr) at Smoky Heights

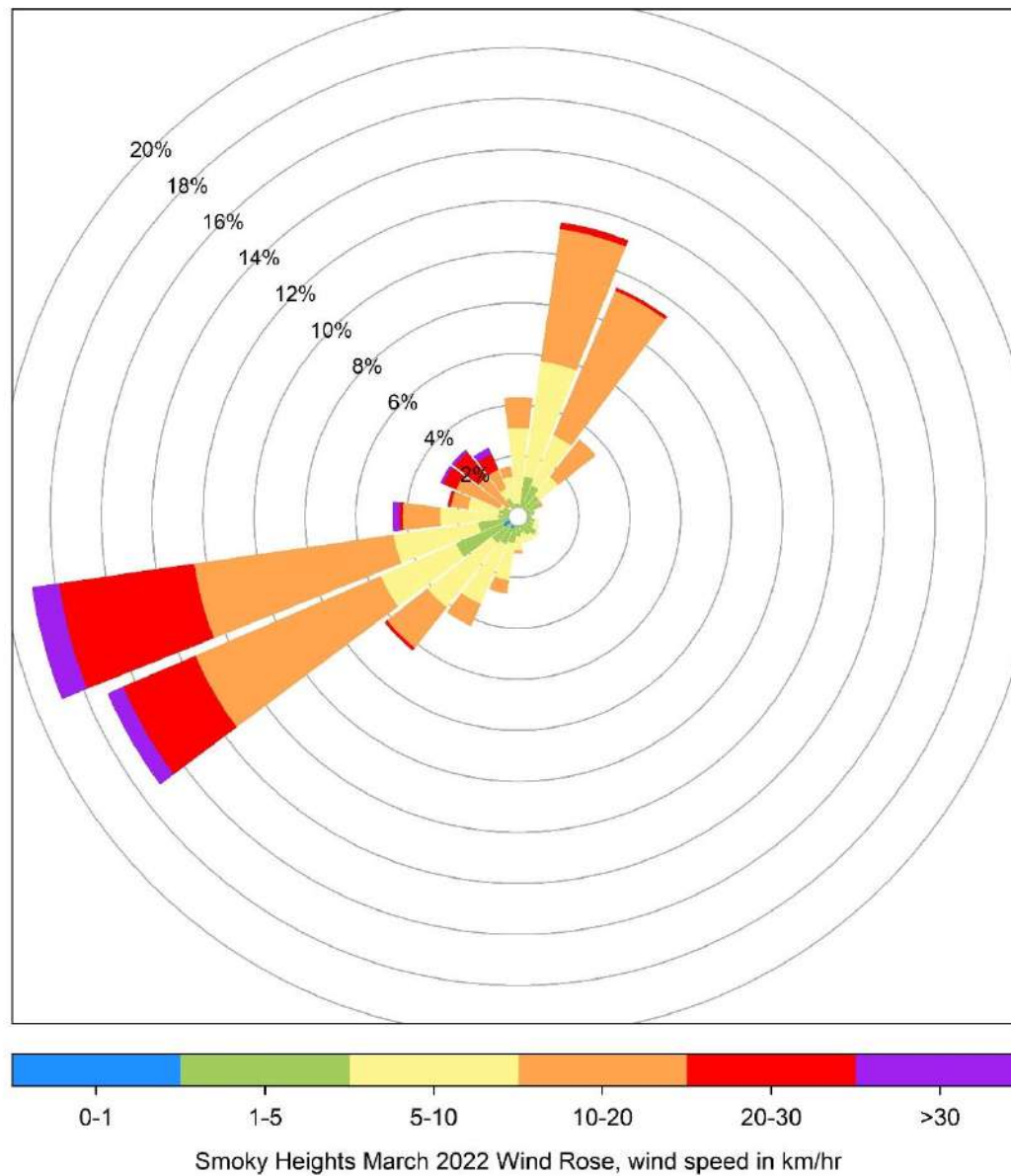


March 2022 Hourly Readings of Wind Direction (in degrees) at Smoky Heights



March 2022 Hourly Readings of Wind Direction Standard Deviation (in degrees) at Smoky Heights

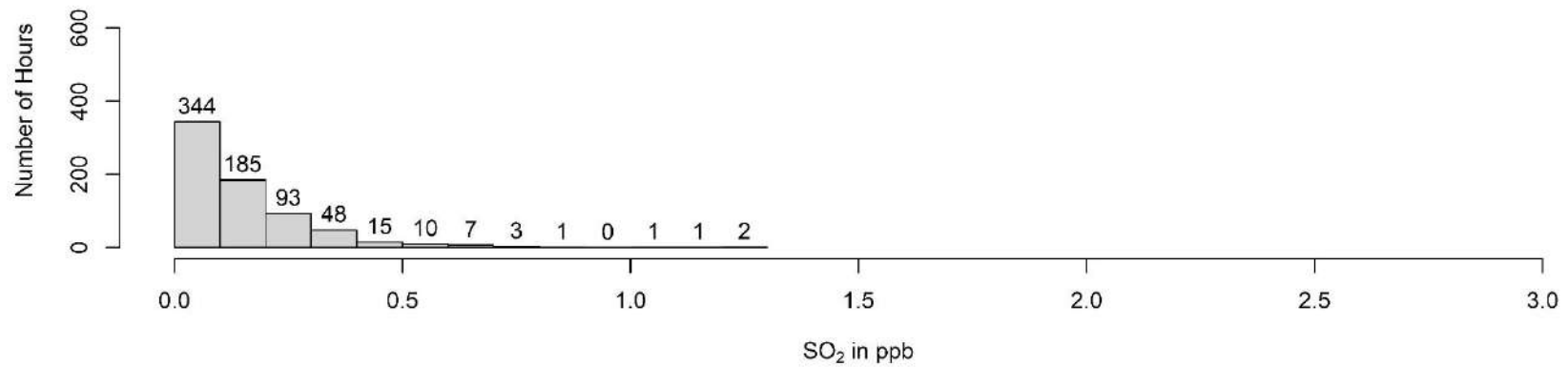
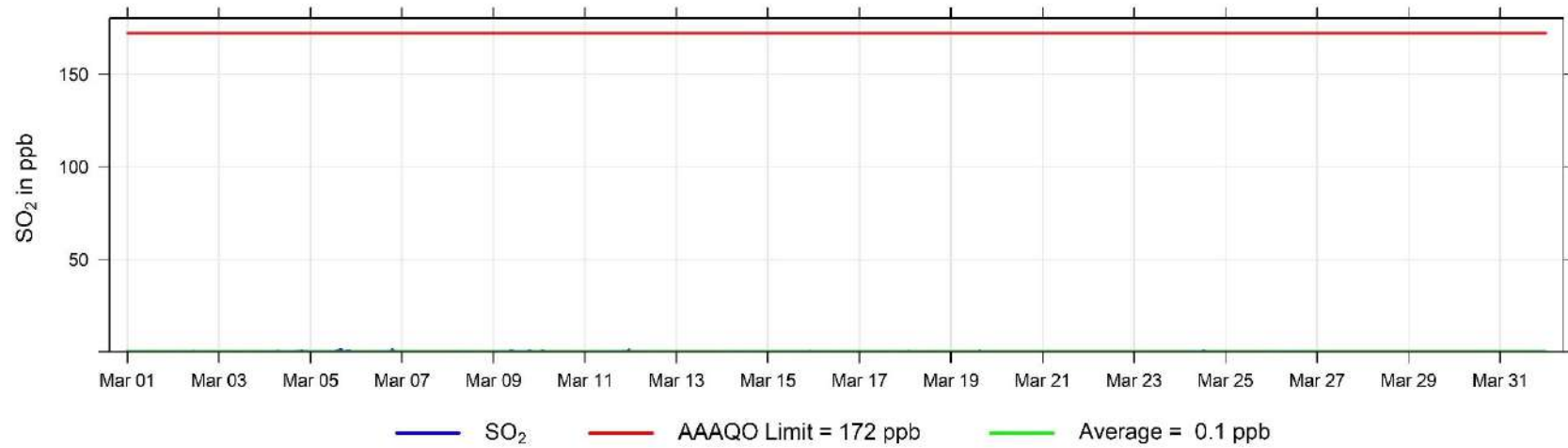




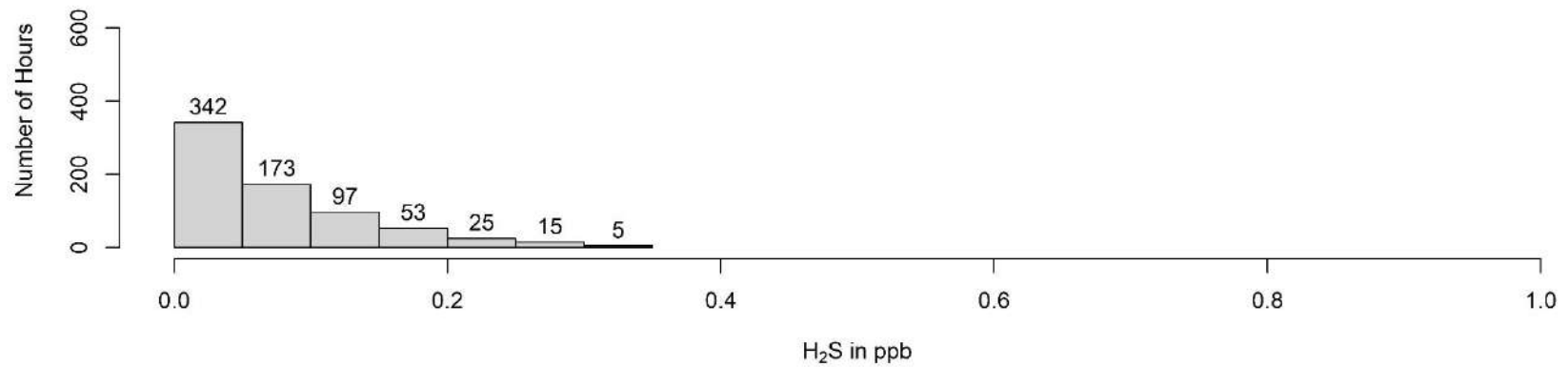
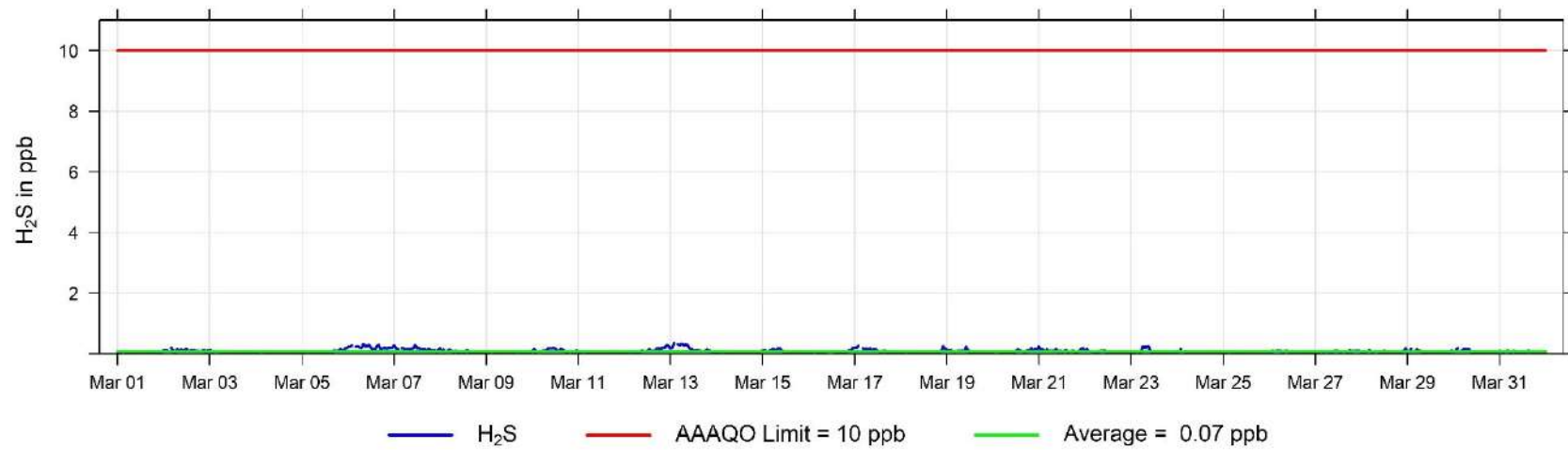
6 Valleyview Charts

The following pages include the charts and histograms for Valleyview Station

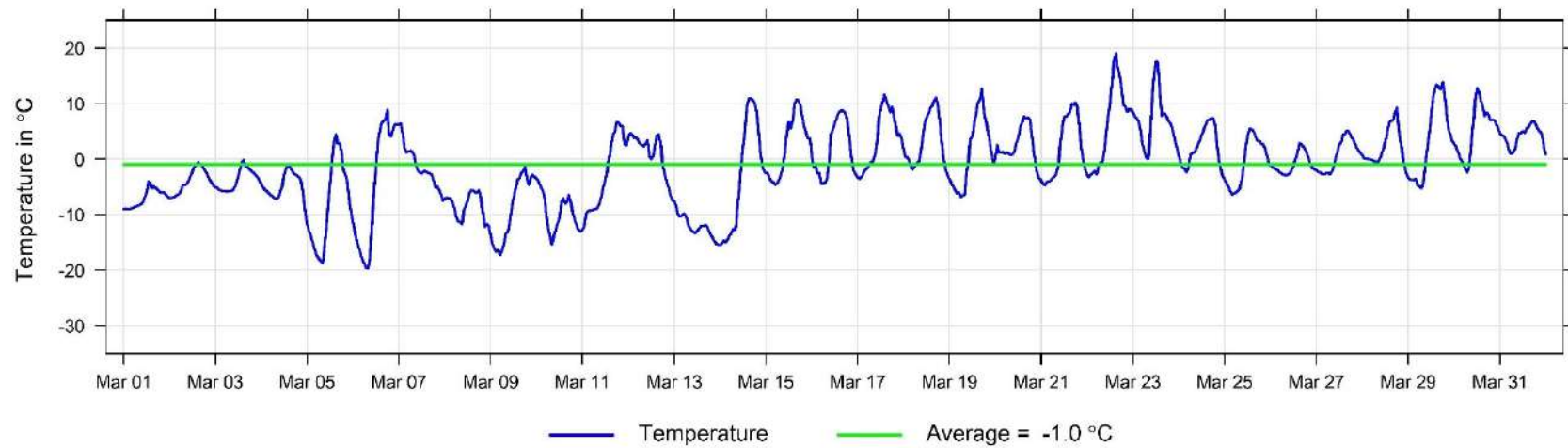
March 2022 Hourly Concentration Readings of SO₂ (in ppb) at Valleyview



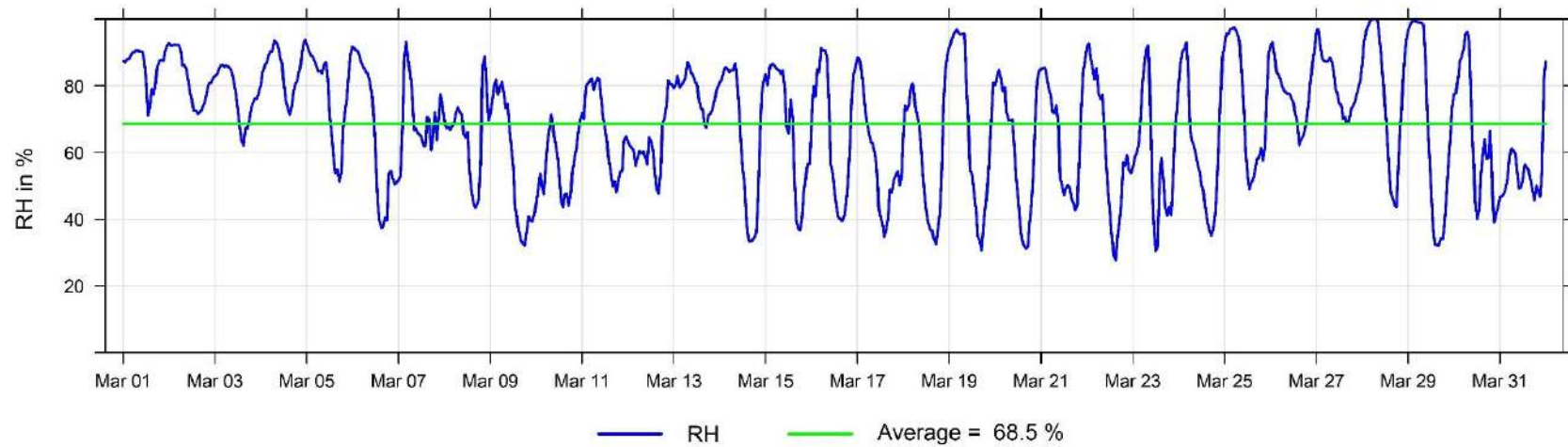
March 2022 Hourly Concentration Readings of H₂S (in ppb) at Valleyview



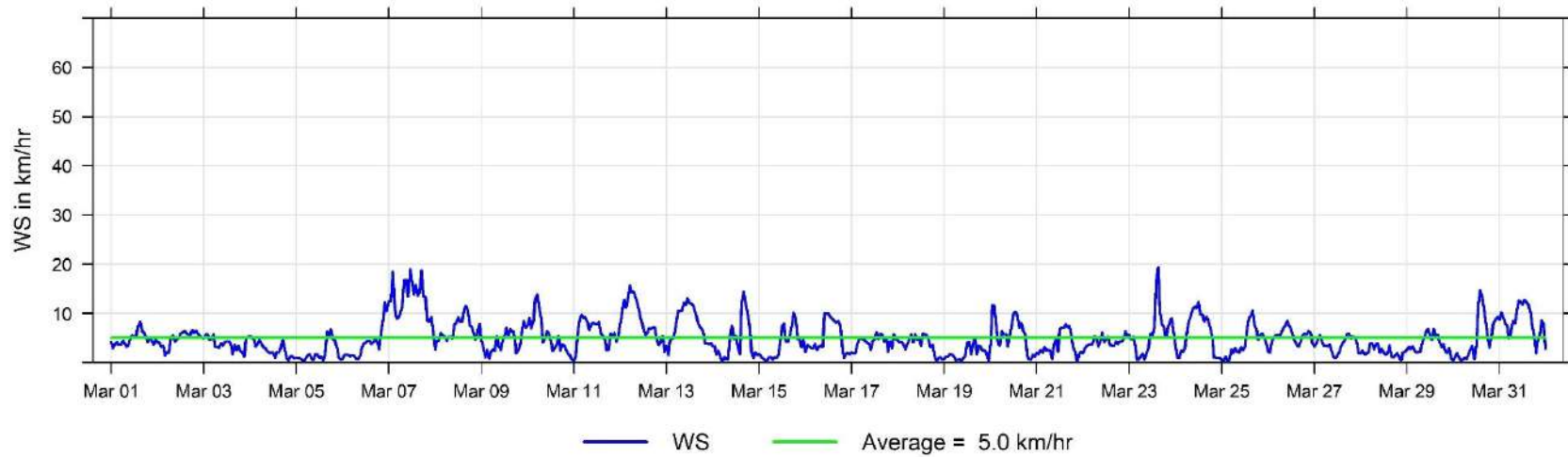
March 2022 Hourly Temperature Readings (in °C) at Valleyview



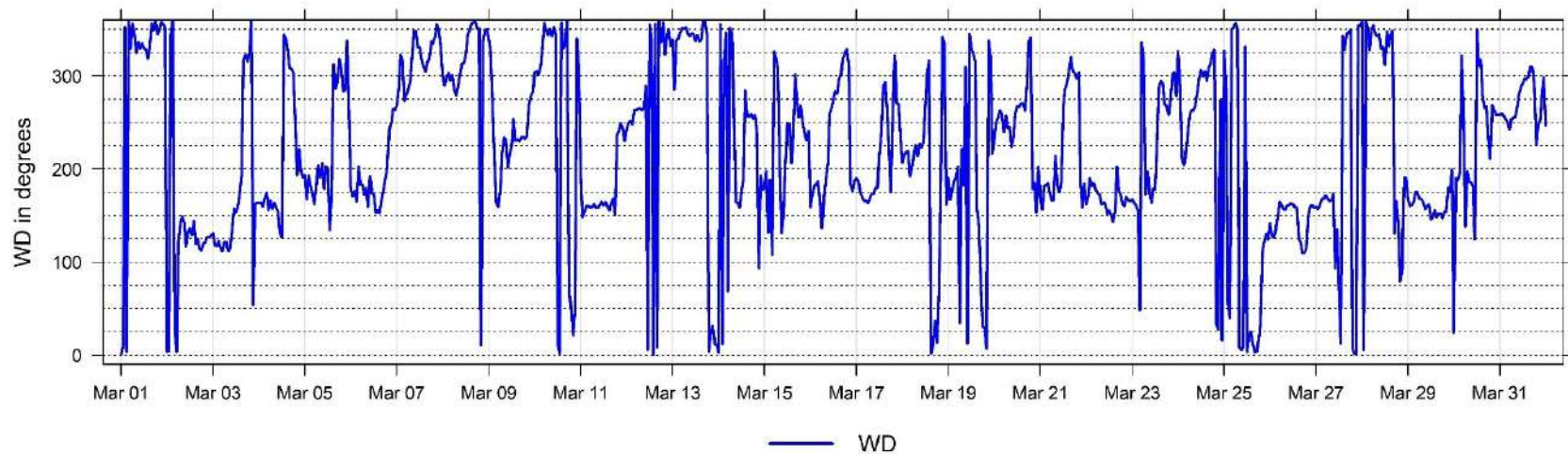
March 2022 Hourly Readings of Relative Humidity (in %) at Valleyview



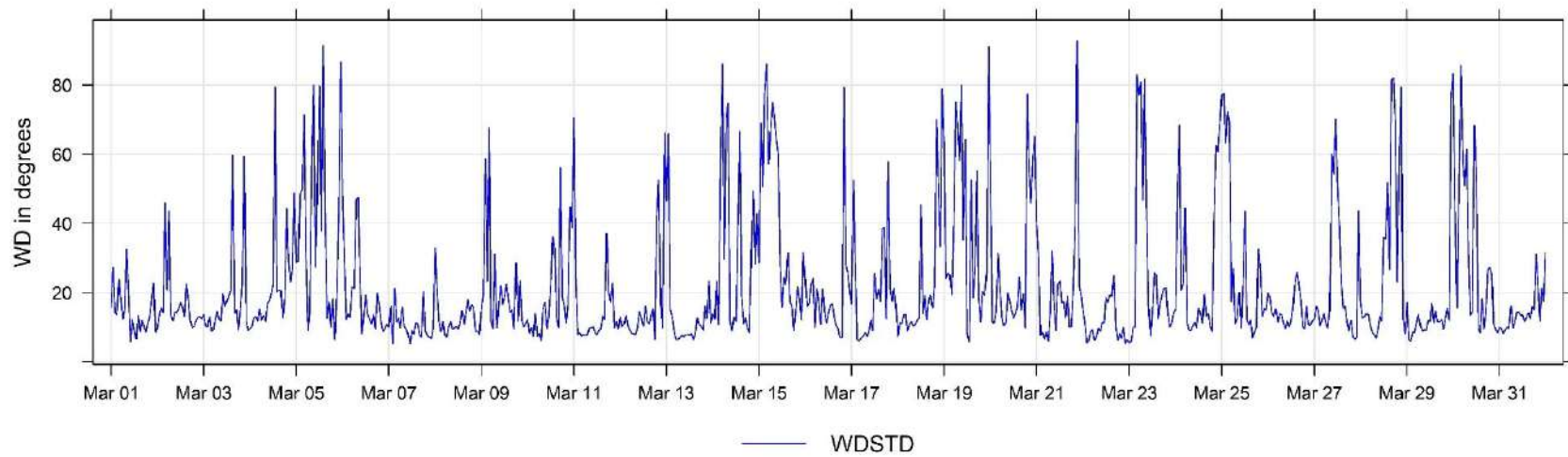
March 2022 Hourly Readings of Wind Speed (in km/hr) at Valleyview

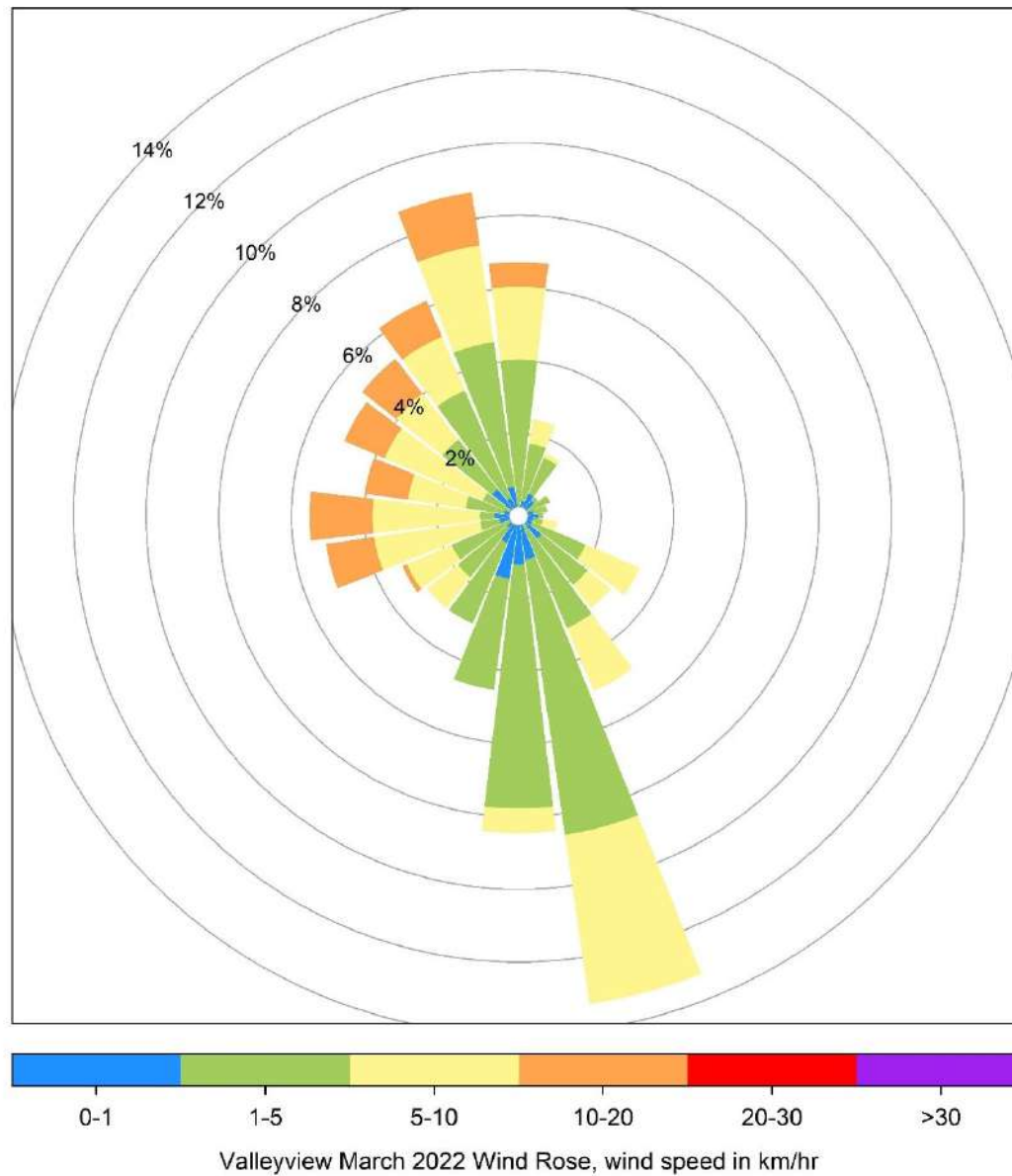


March 2022 Hourly Readings of Wind Direction (in degrees) at Valleyview



March 2022 Hourly Readings of Wind Direction Standard Deviation (in degrees) at Valleyview

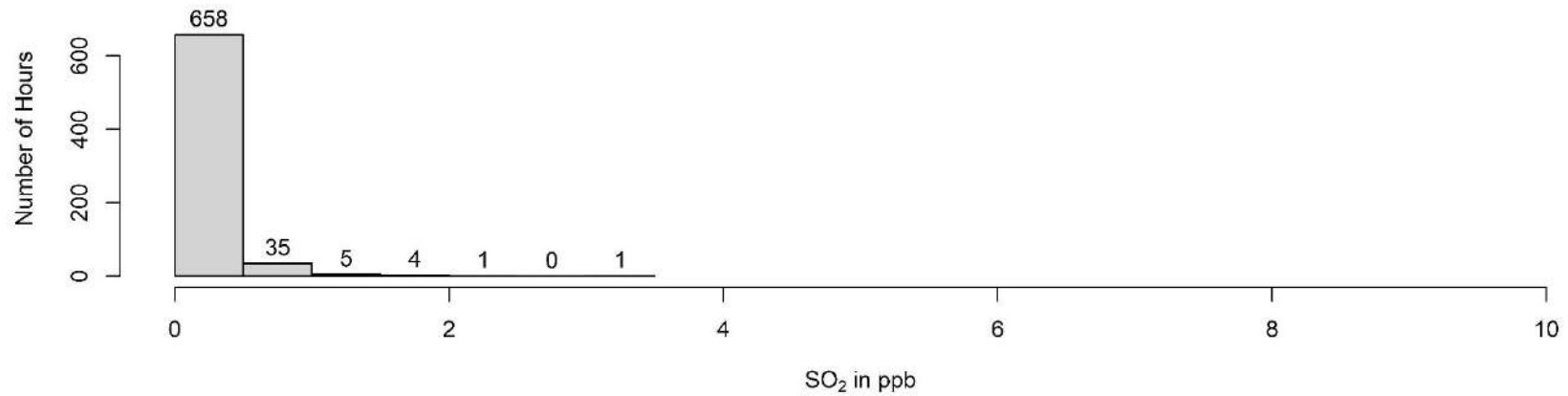
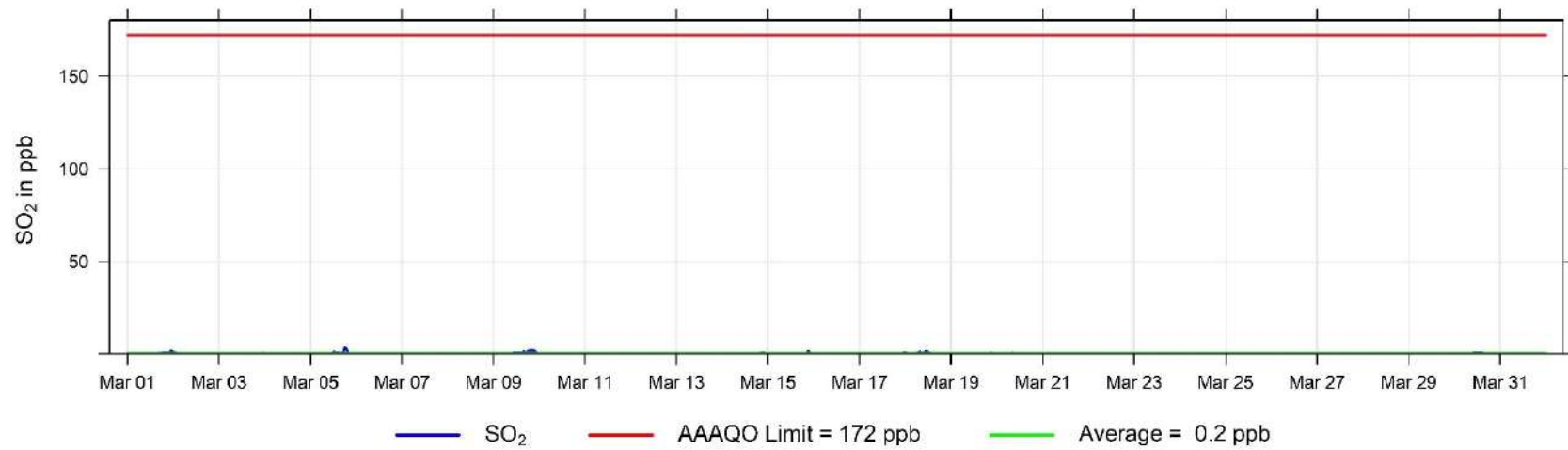




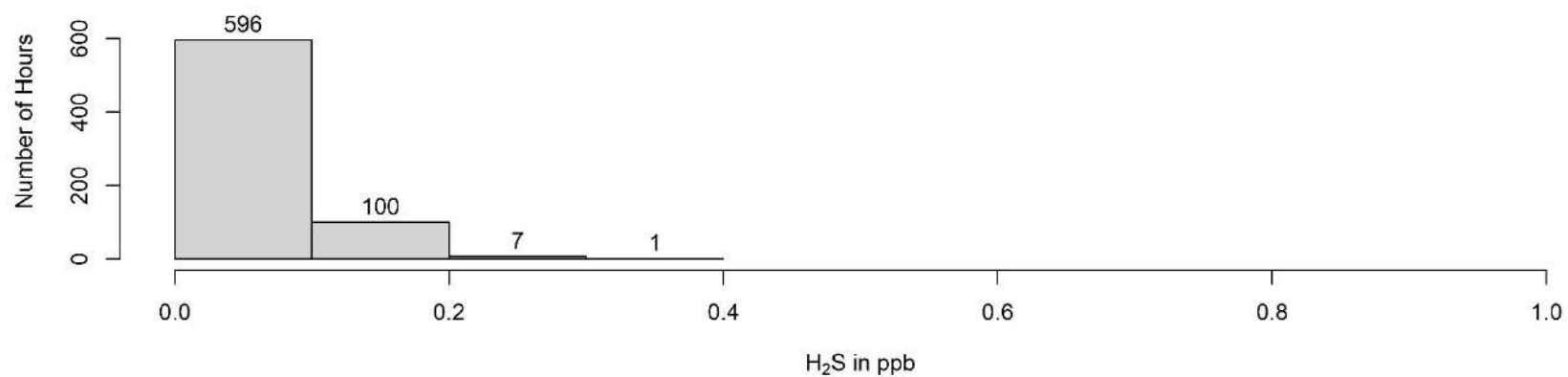
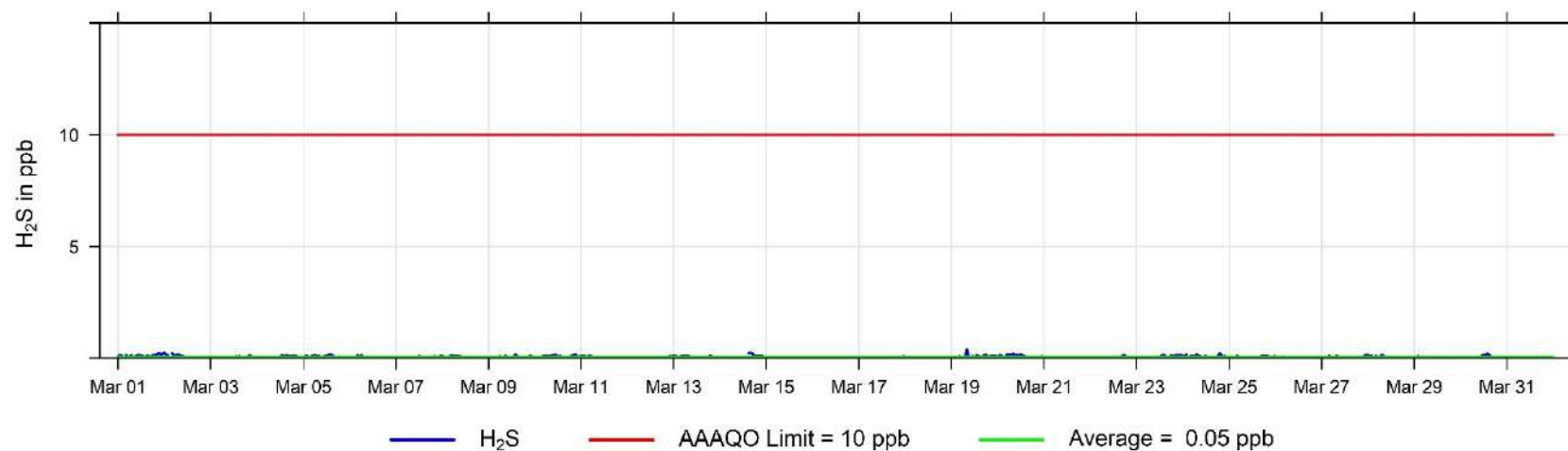
7 Donnelly Charts

The following pages include the charts and histograms for Donnelly Station

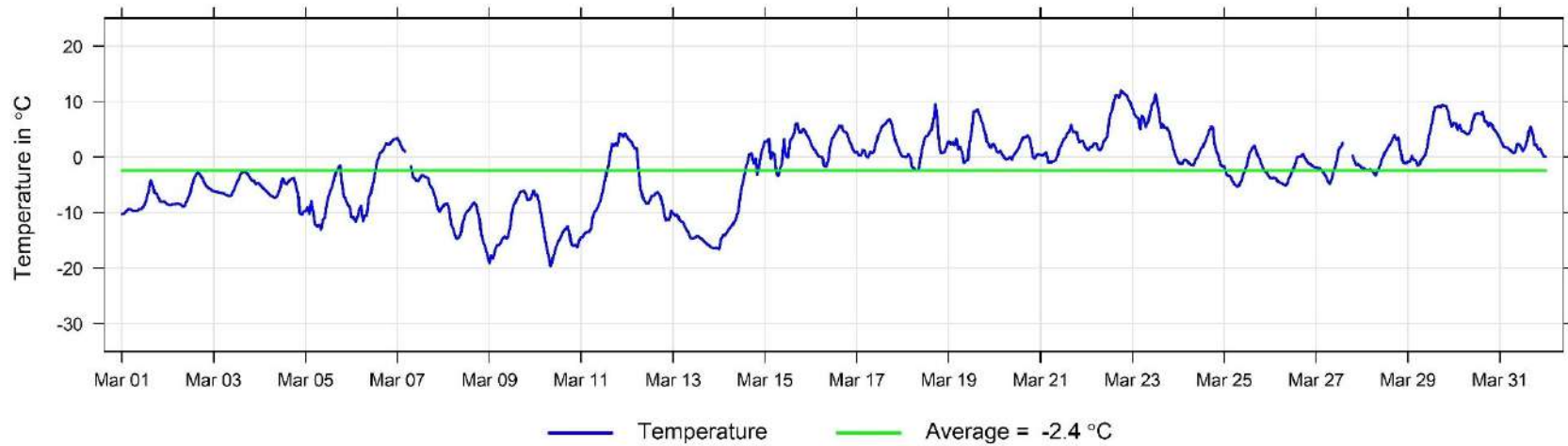
March 2022 Hourly Concentration Readings of SO₂ (in ppb) at Donnelly



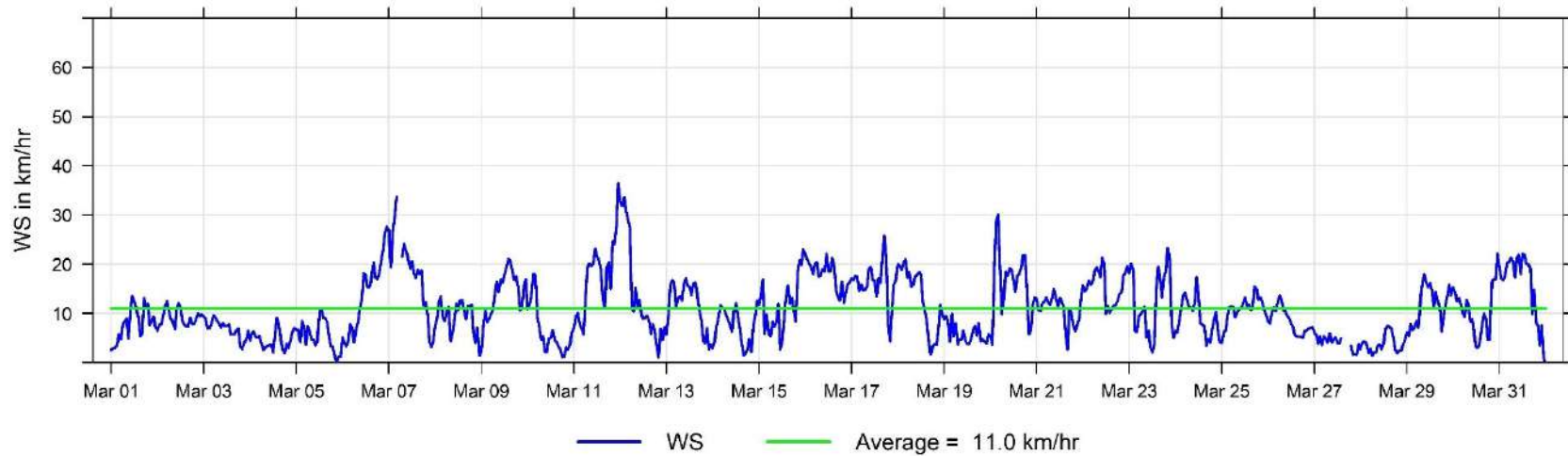
March 2022 Hourly Concentration Readings of H₂S (in ppb) at Donnelly



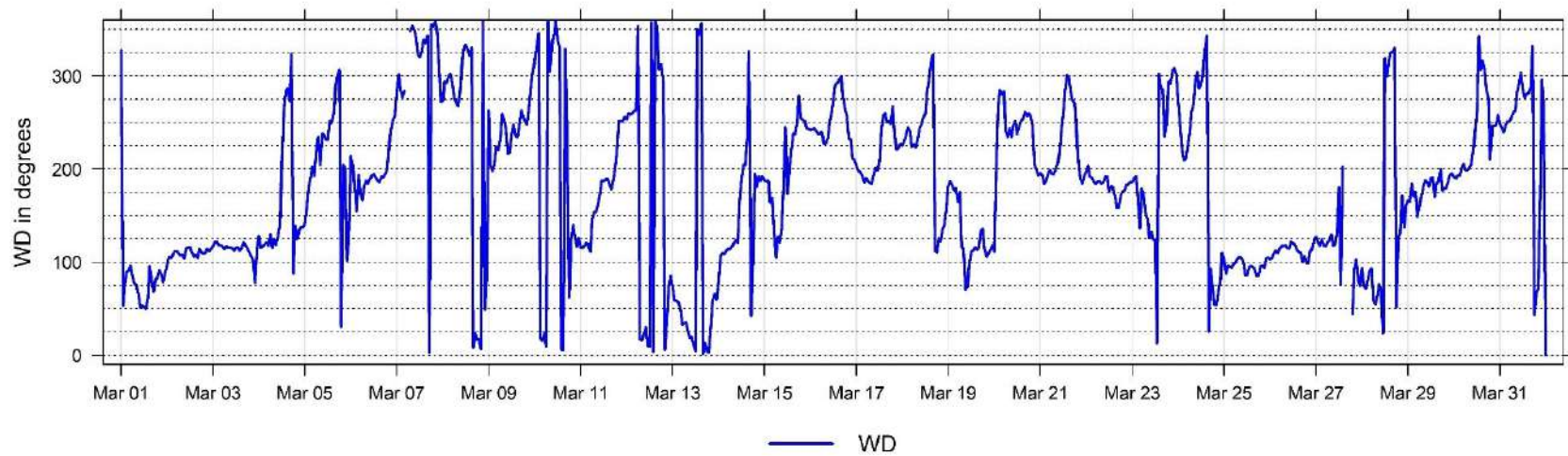
March 2022 Hourly Temperature Readings (in °C) at Donnelly



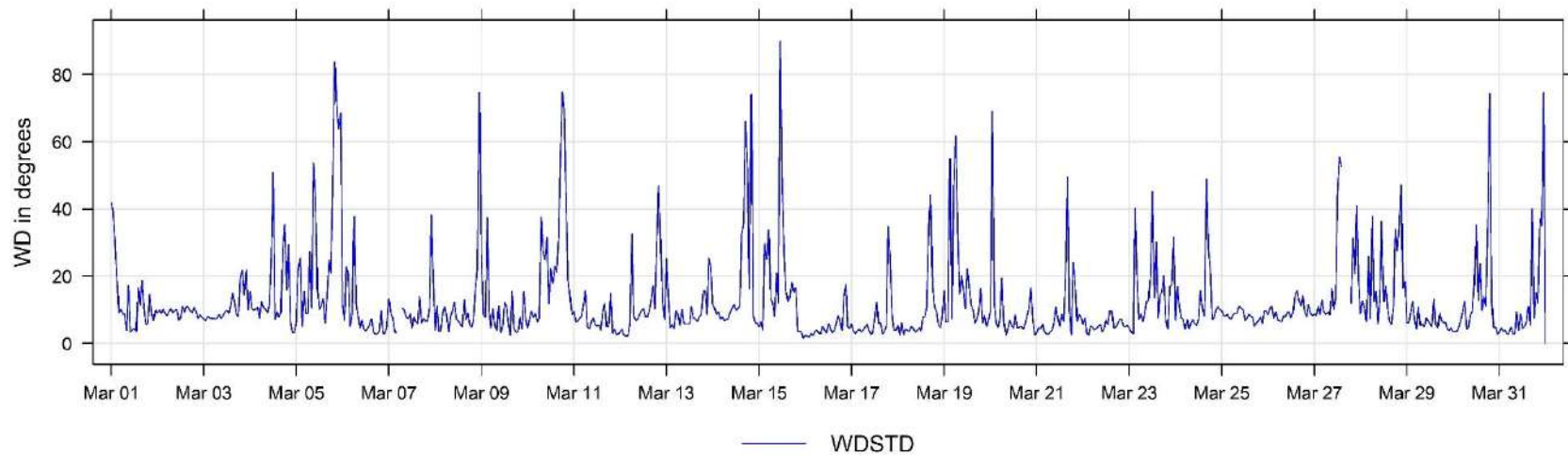
March 2022 Hourly Readings of Wind Speed (in km/hr) at Donnelly

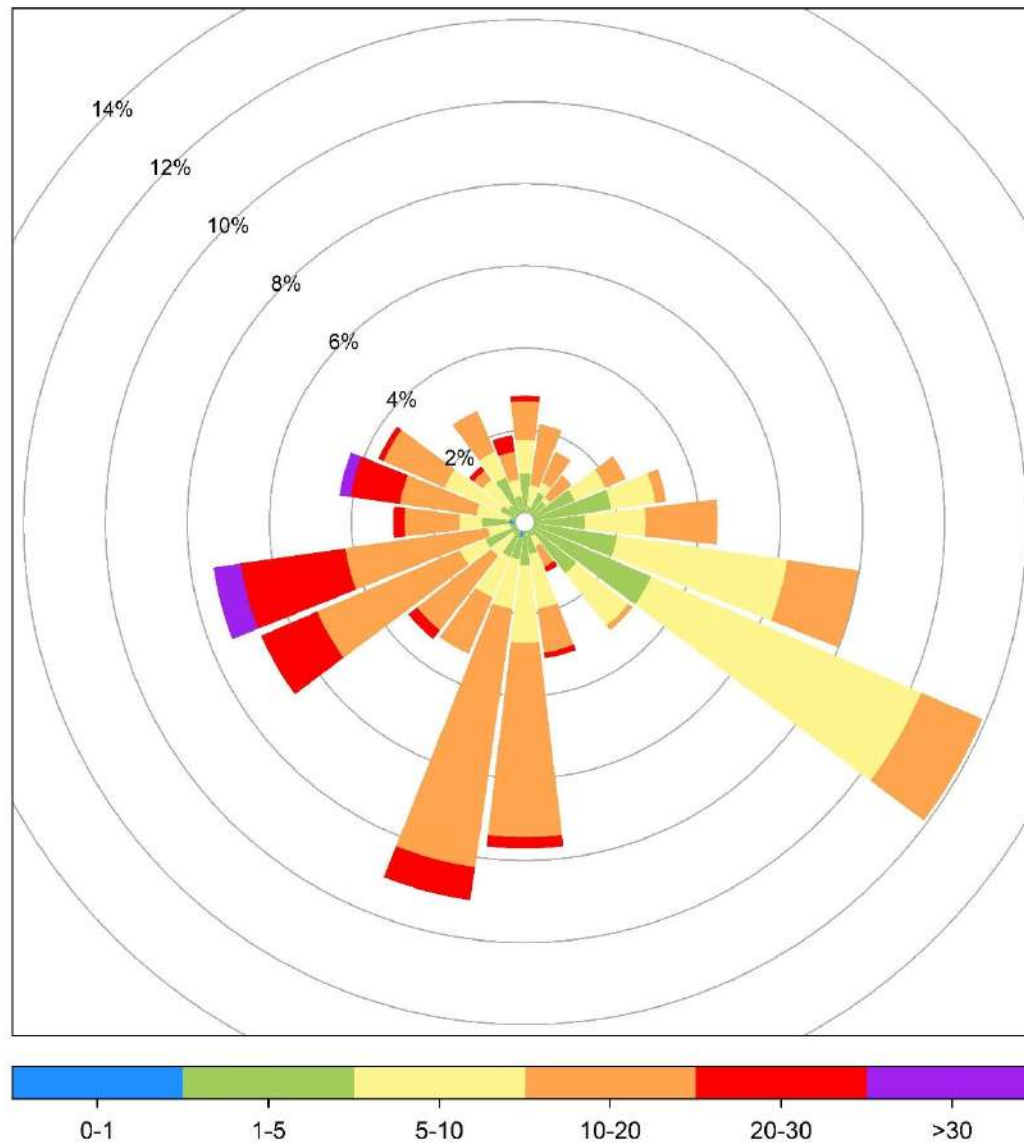


March 2022 Hourly Readings of Wind Direction (in degrees) at Donnelly



March 2022 Hourly Readings of Wind Direction Standard Deviation (in degrees) at Donnelly



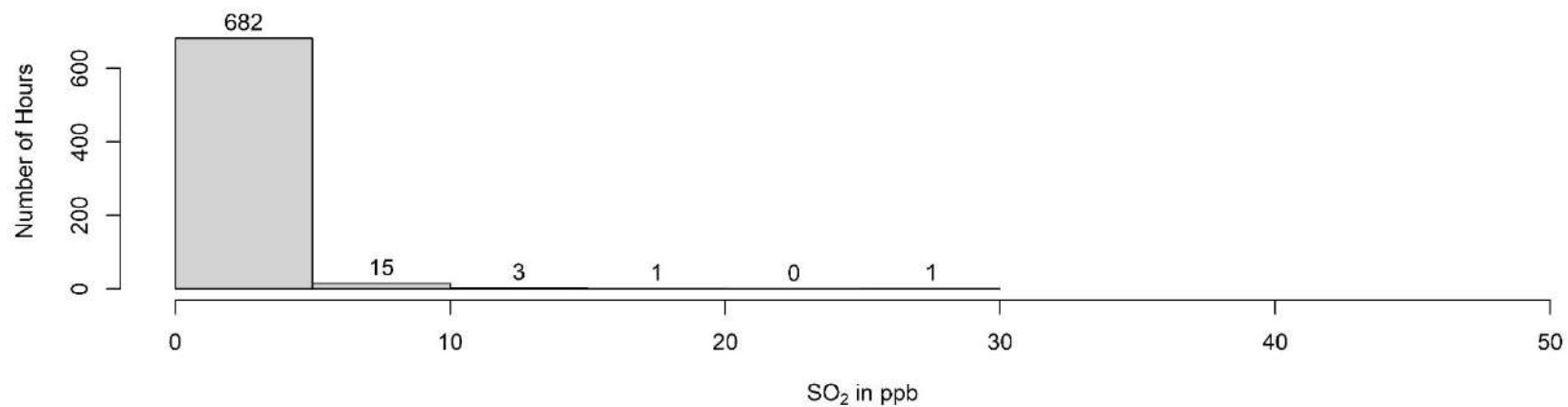
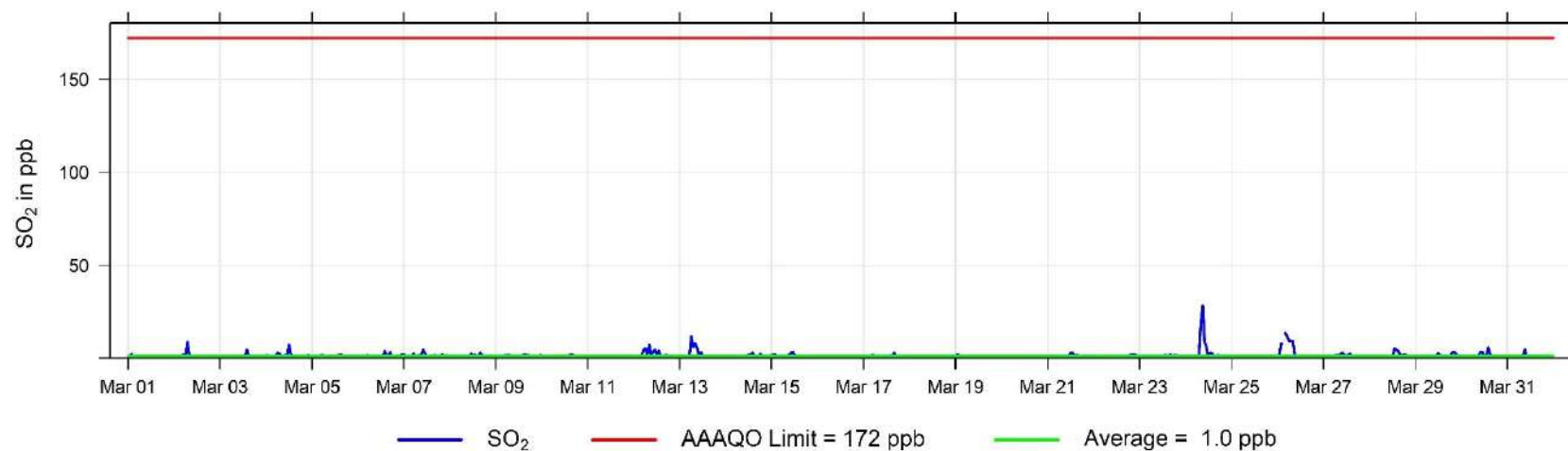


Donnelly March 2022 Wind Rose, wind speed in km/hr

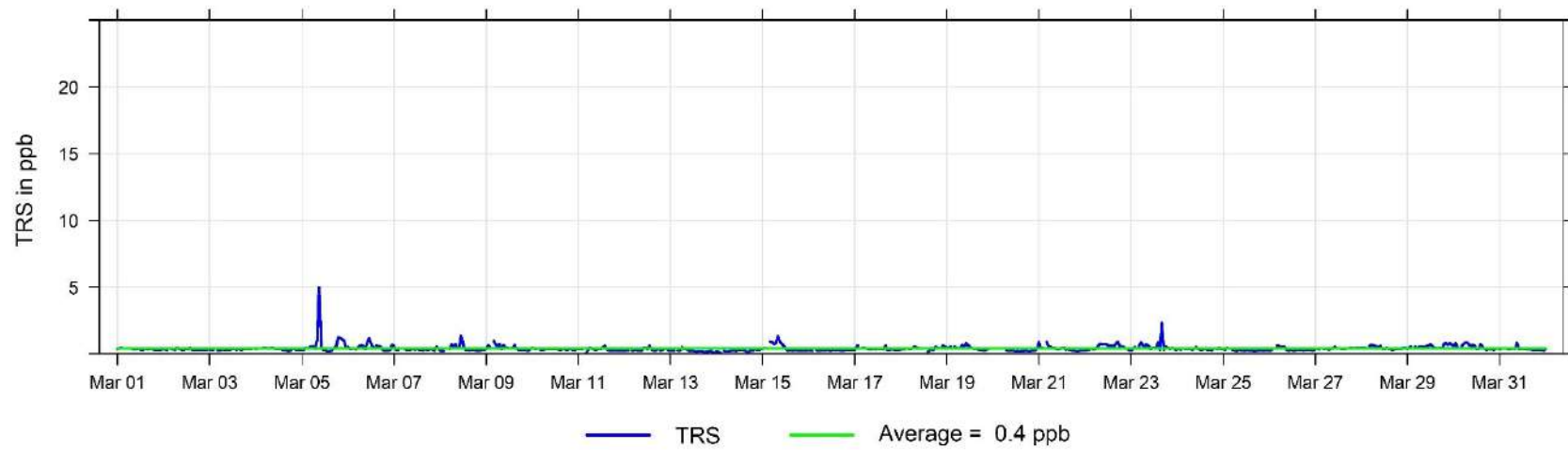
8 Poplar (Portable) Charts

The following pages include the charts and histograms for Poplar Portable Station

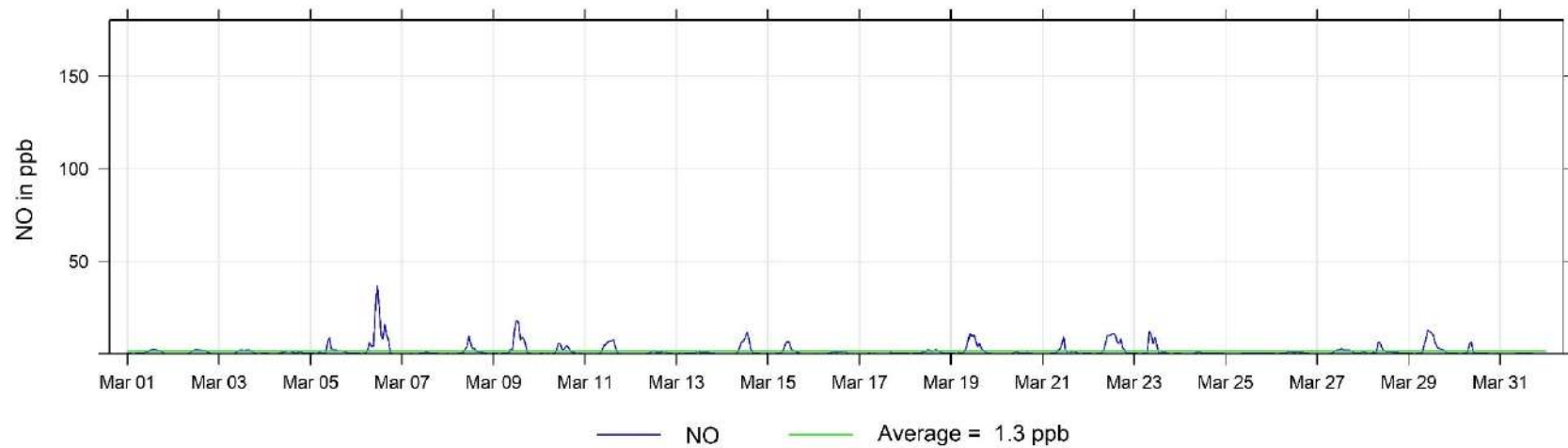
March 2022 Hourly Concentration Readings of SO₂ (in ppb) at Poplar



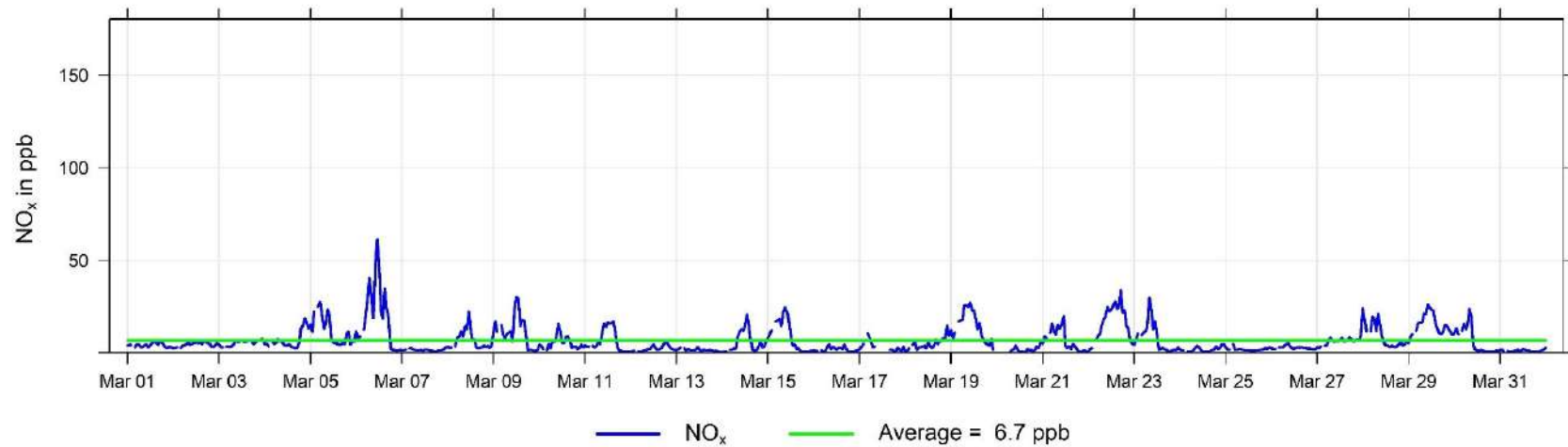
March 2022 Hourly Concentration Readings of TRS (in ppb) at Poplar



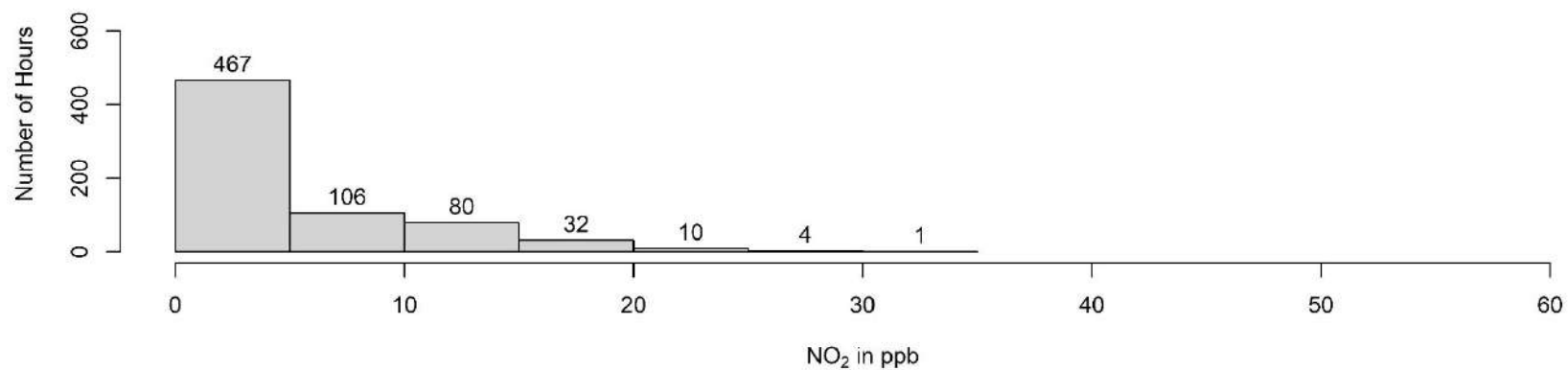
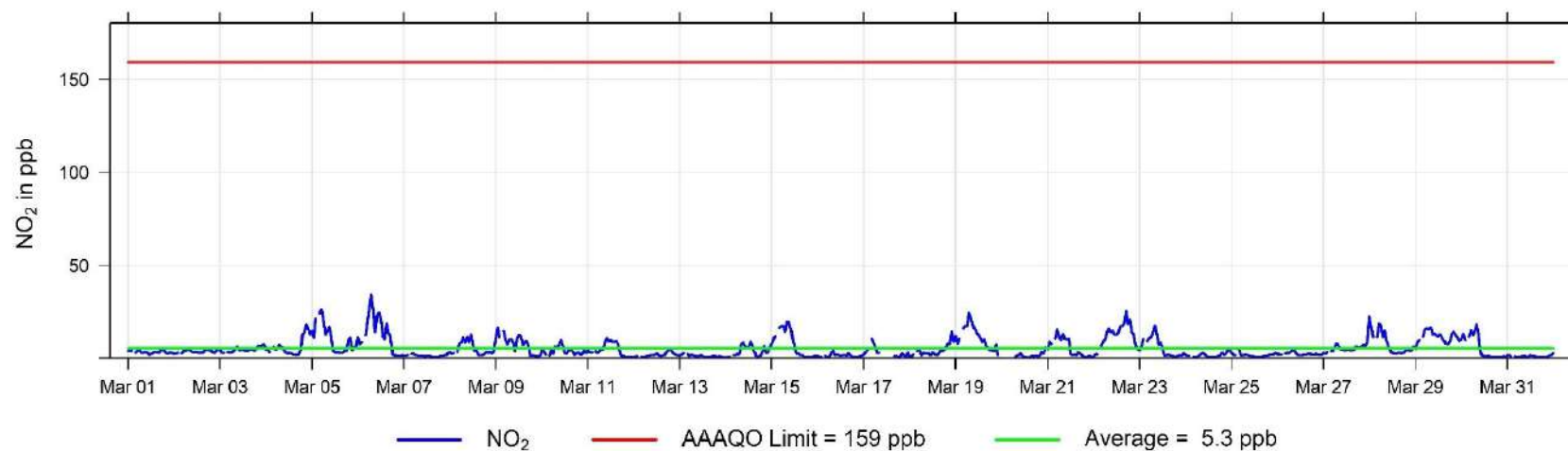
March 2022 Hourly Concentration Readings of NO (in ppb) at Poplar



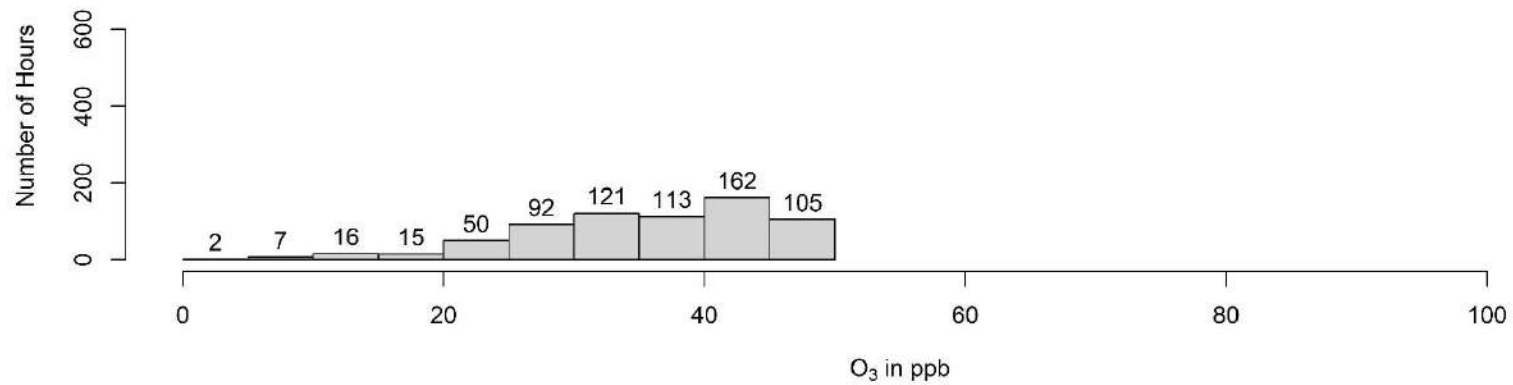
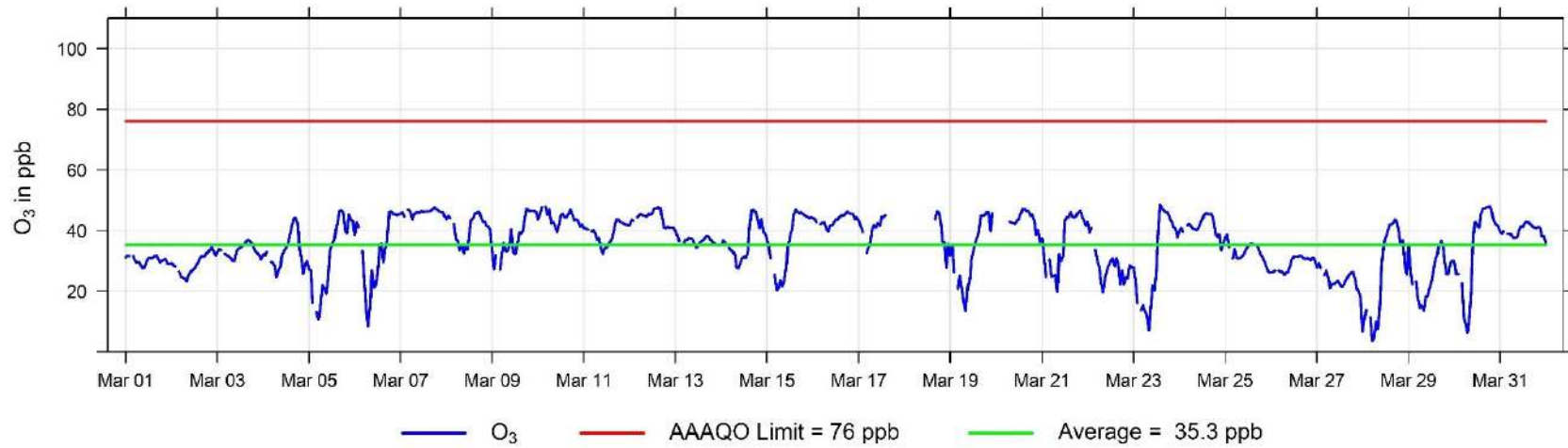
March 2022 Hourly Concentration Readings of NO_x (in ppb) at Poplar



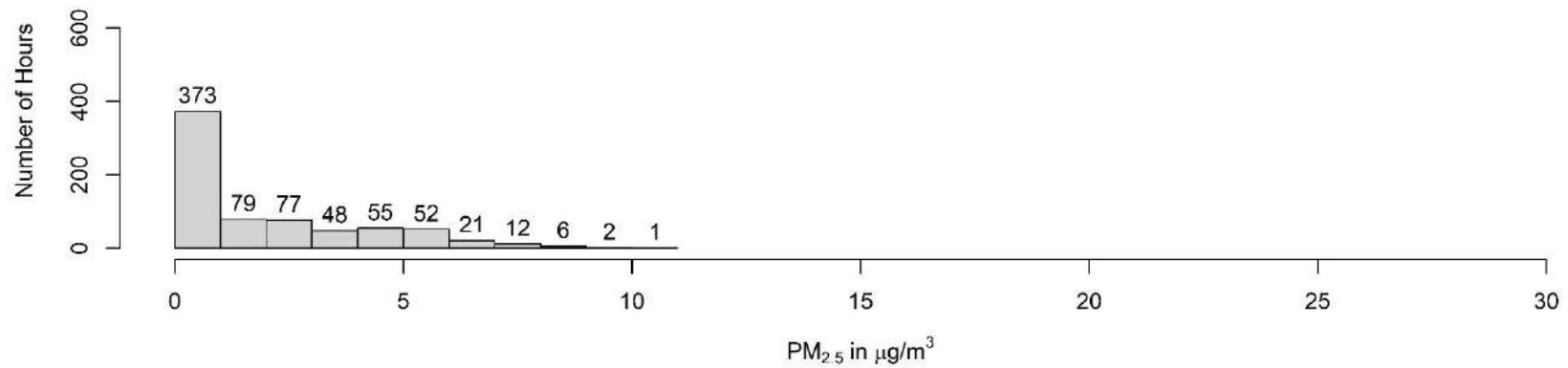
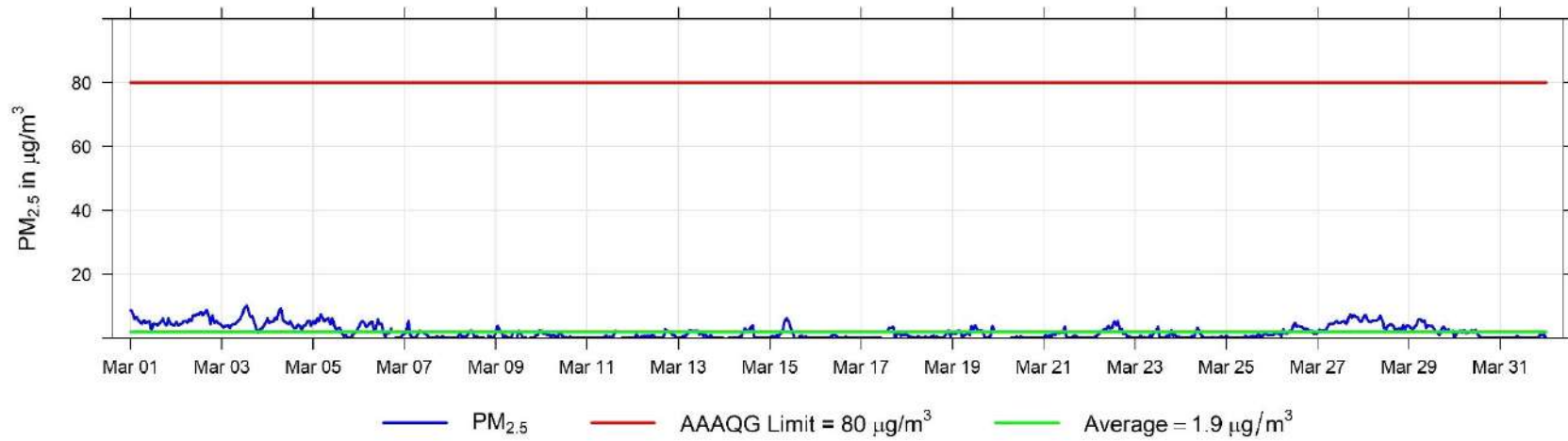
March 2022 Hourly Concentration Readings of NO₂ (in ppb) at Poplar



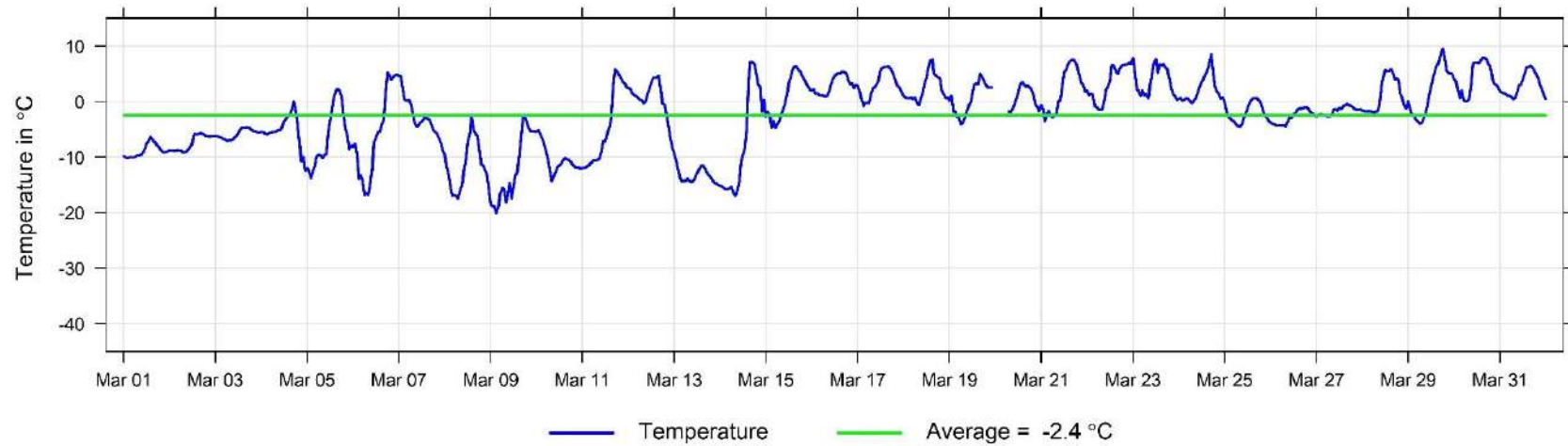
March 2022 Hourly Concentration Readings of O₃ (in ppb) at Poplar



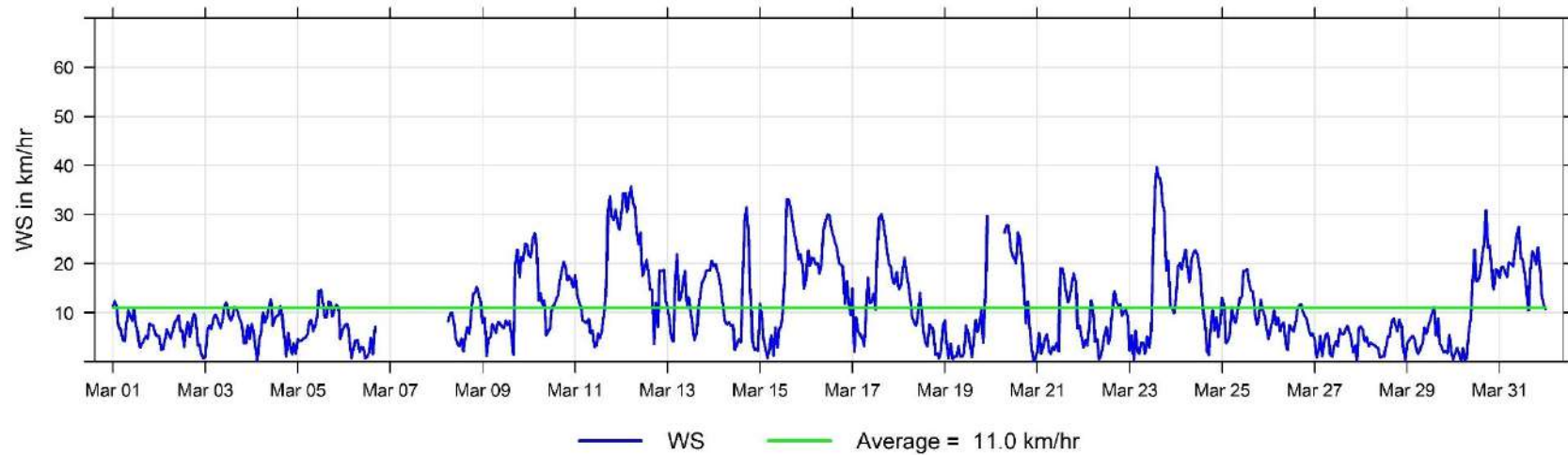
March 2022 Hourly Concentration Readings of PM_{2.5} in $\mu\text{g}/\text{m}^3$ at Poplar



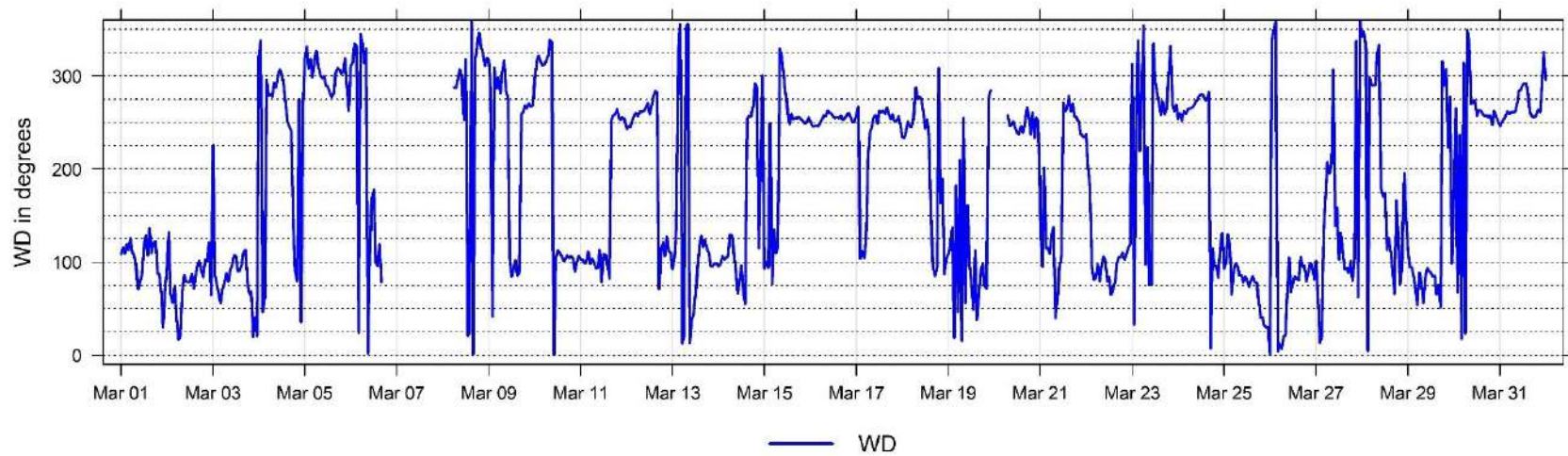
March 2022 Hourly Temperature Readings (in °C) at Poplar



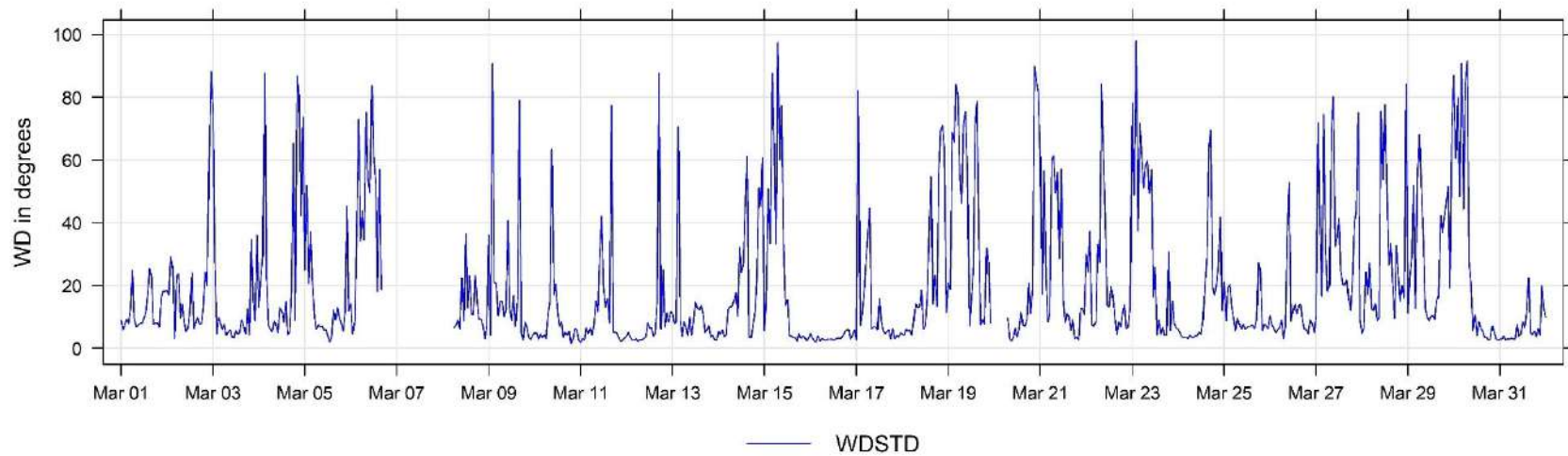
March 2022 Hourly Readings of Wind Speed (in km/hr) at Poplar

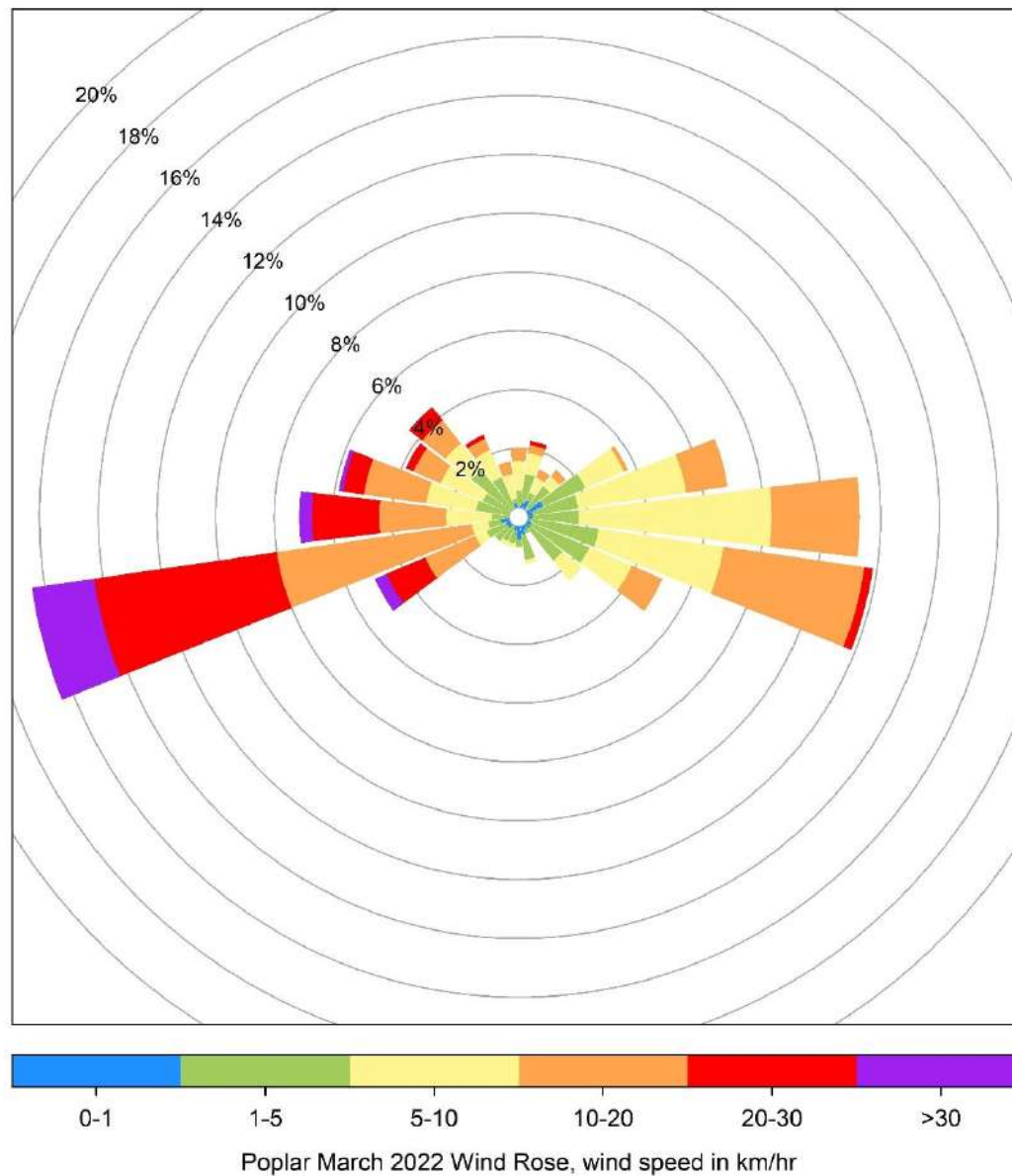


March 2022 Hourly Readings of Wind Direction (in degrees) at Poplar



March 2022 Hourly Readings of Wind Direction Standard Deviation (in degrees) at Poplar

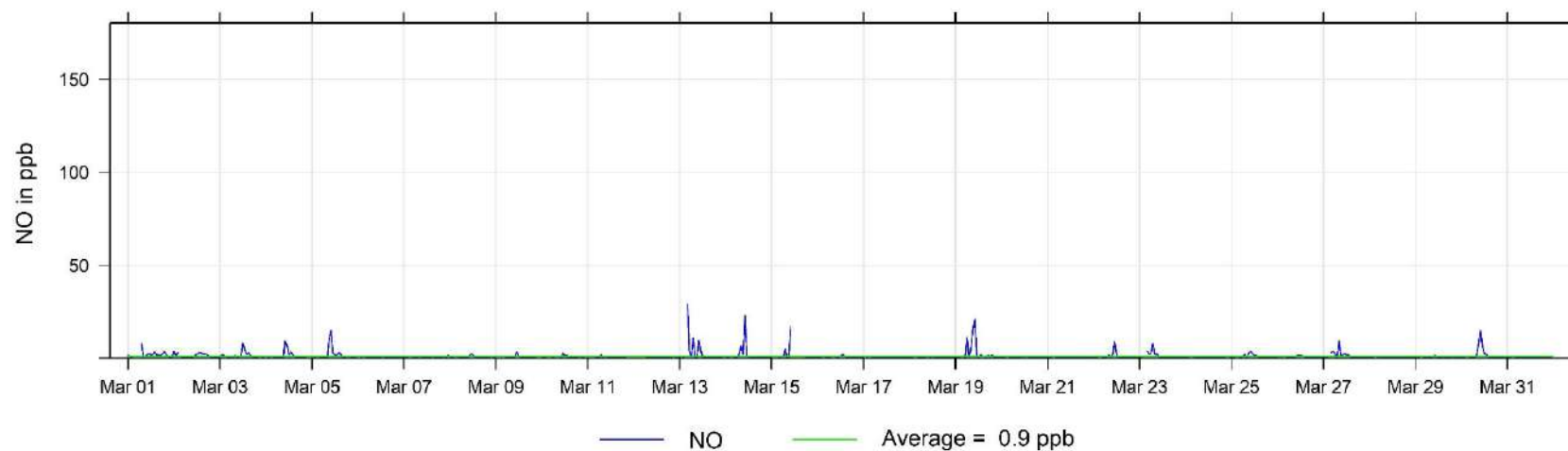




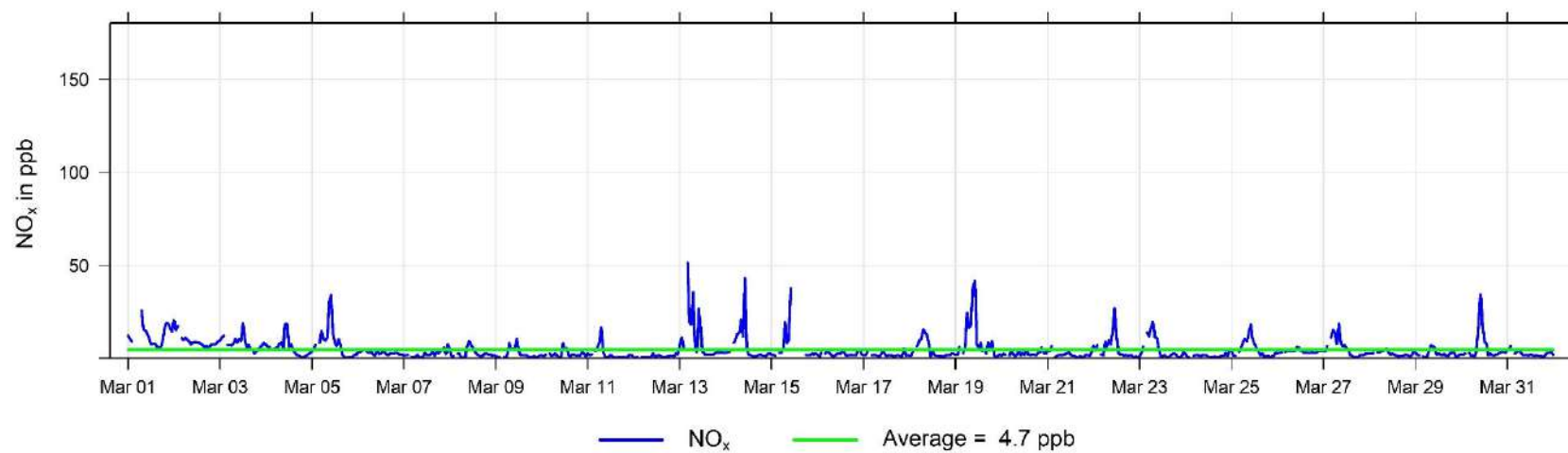
9 Milner Charts

The following pages include the charts and histograms for Poplar Portable Station

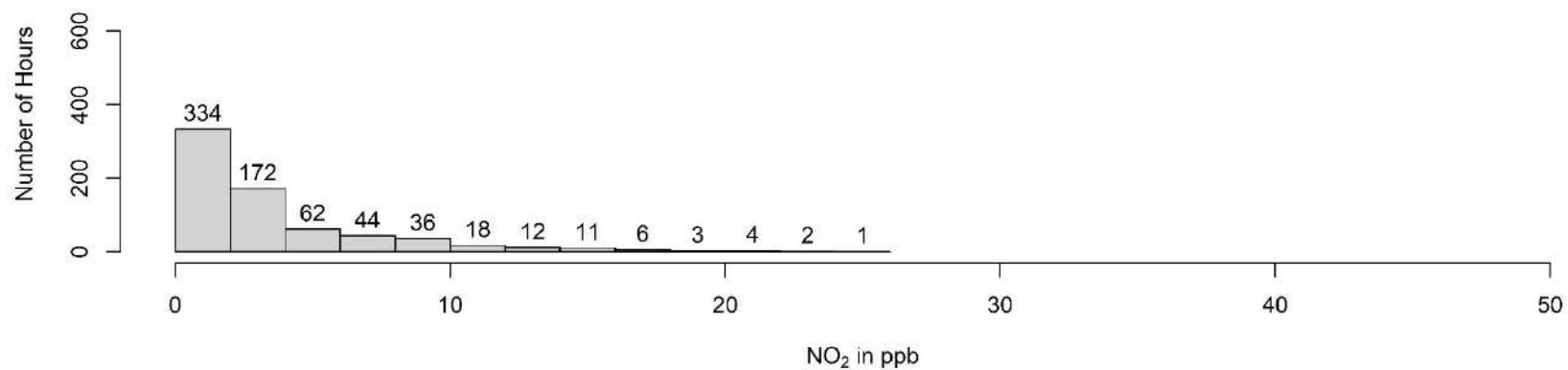
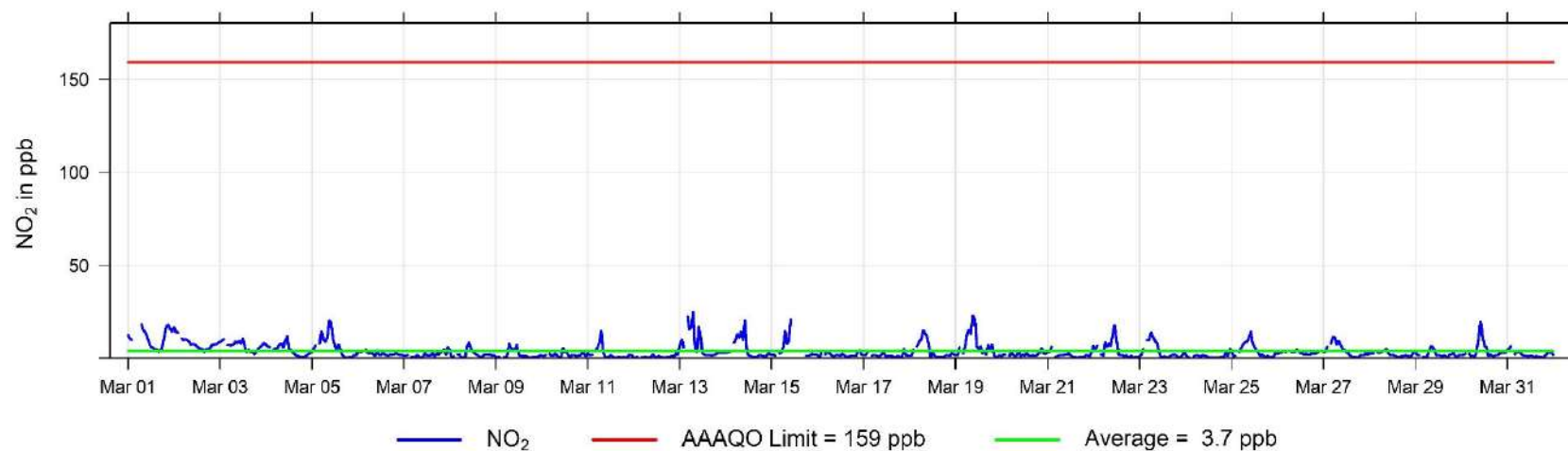
March 2022 Hourly Concentration Readings of NO (in ppb) at Milner



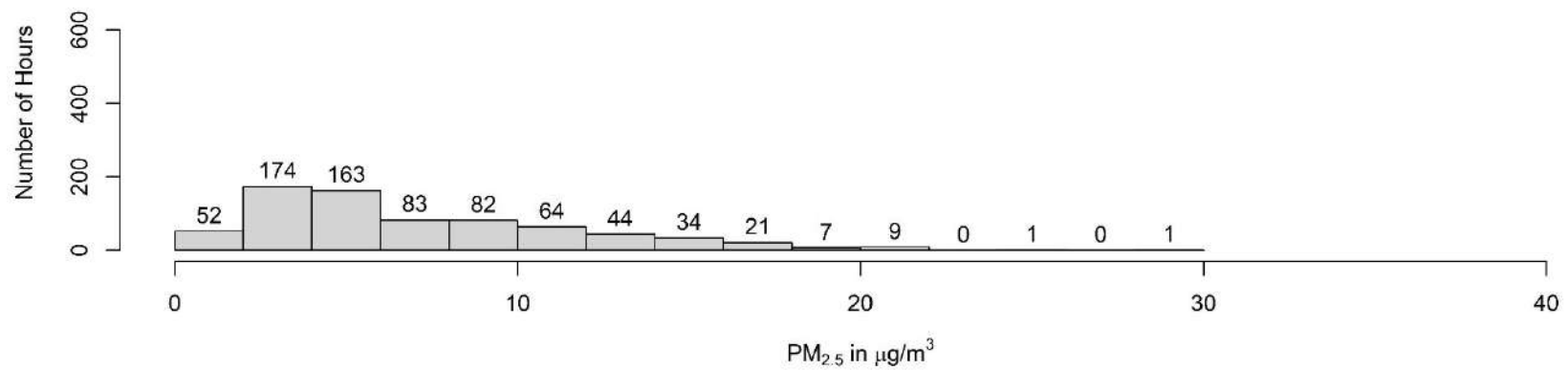
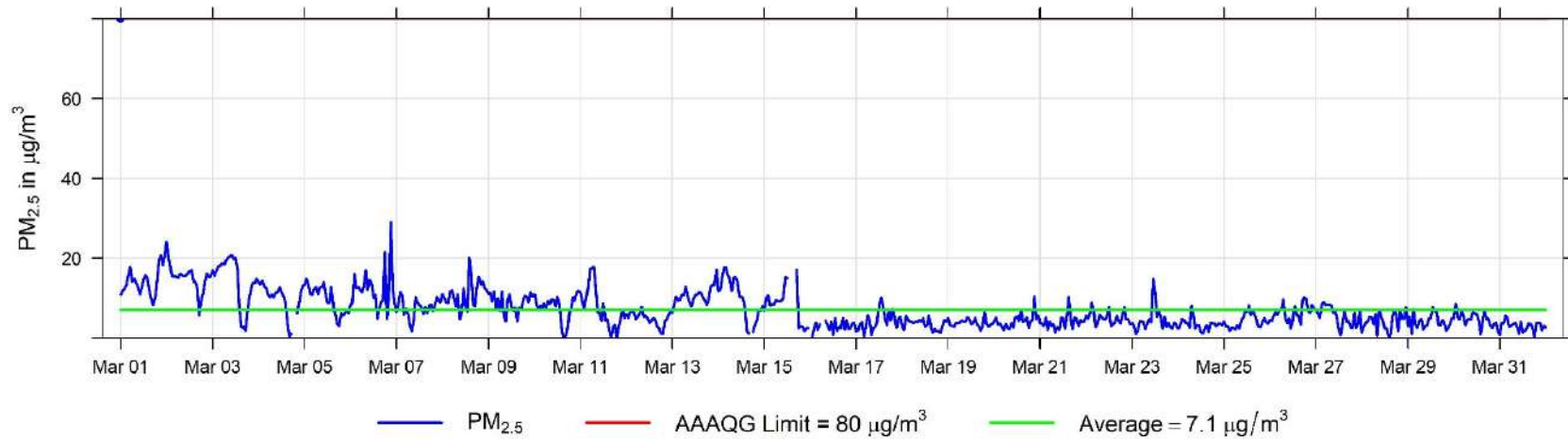
March 2022 Hourly Concentration Readings of NO_x (in ppb) at Milner



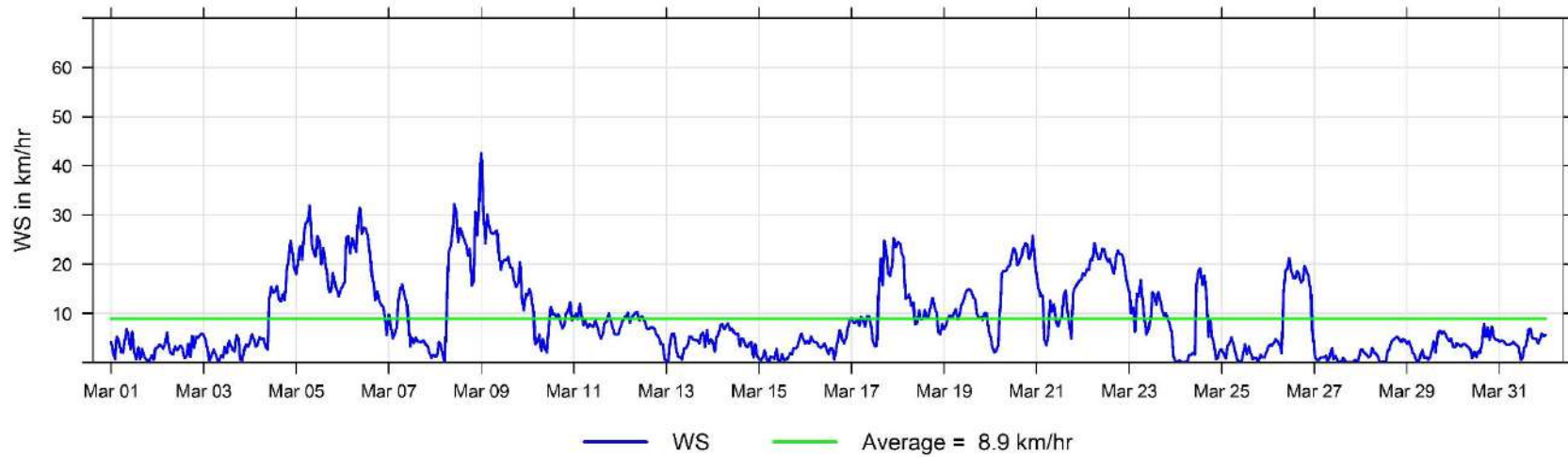
March 2022 Hourly Concentration Readings of NO₂ (in ppb) at Milner



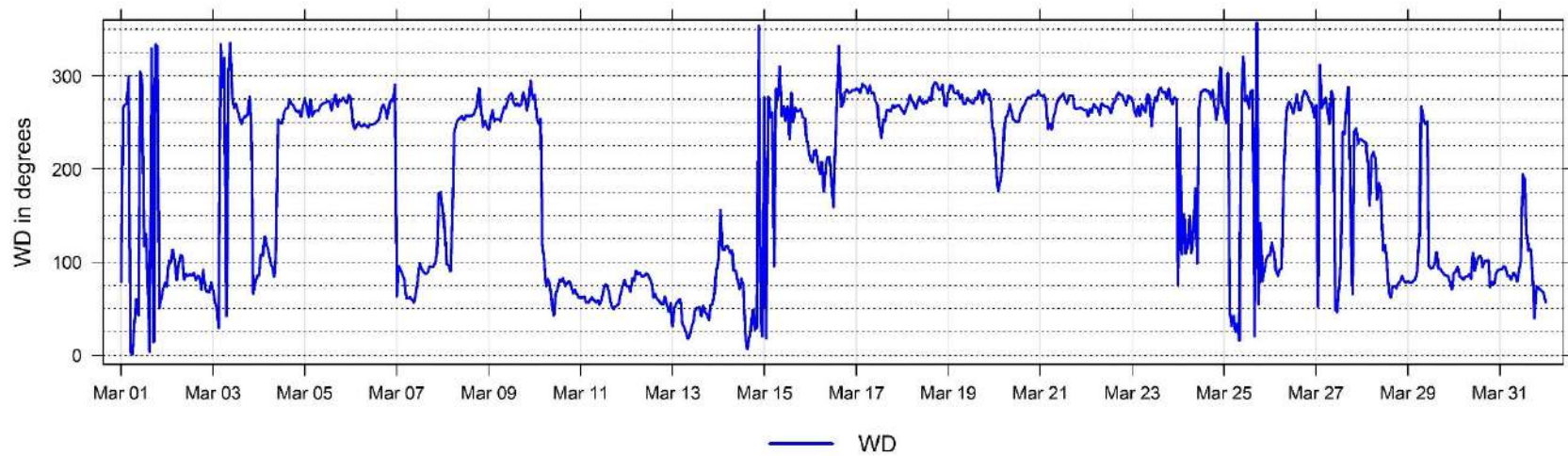
March 2022 Hourly Concentration Readings of PM_{2.5} in $\mu\text{g}/\text{m}^3$ at Milner

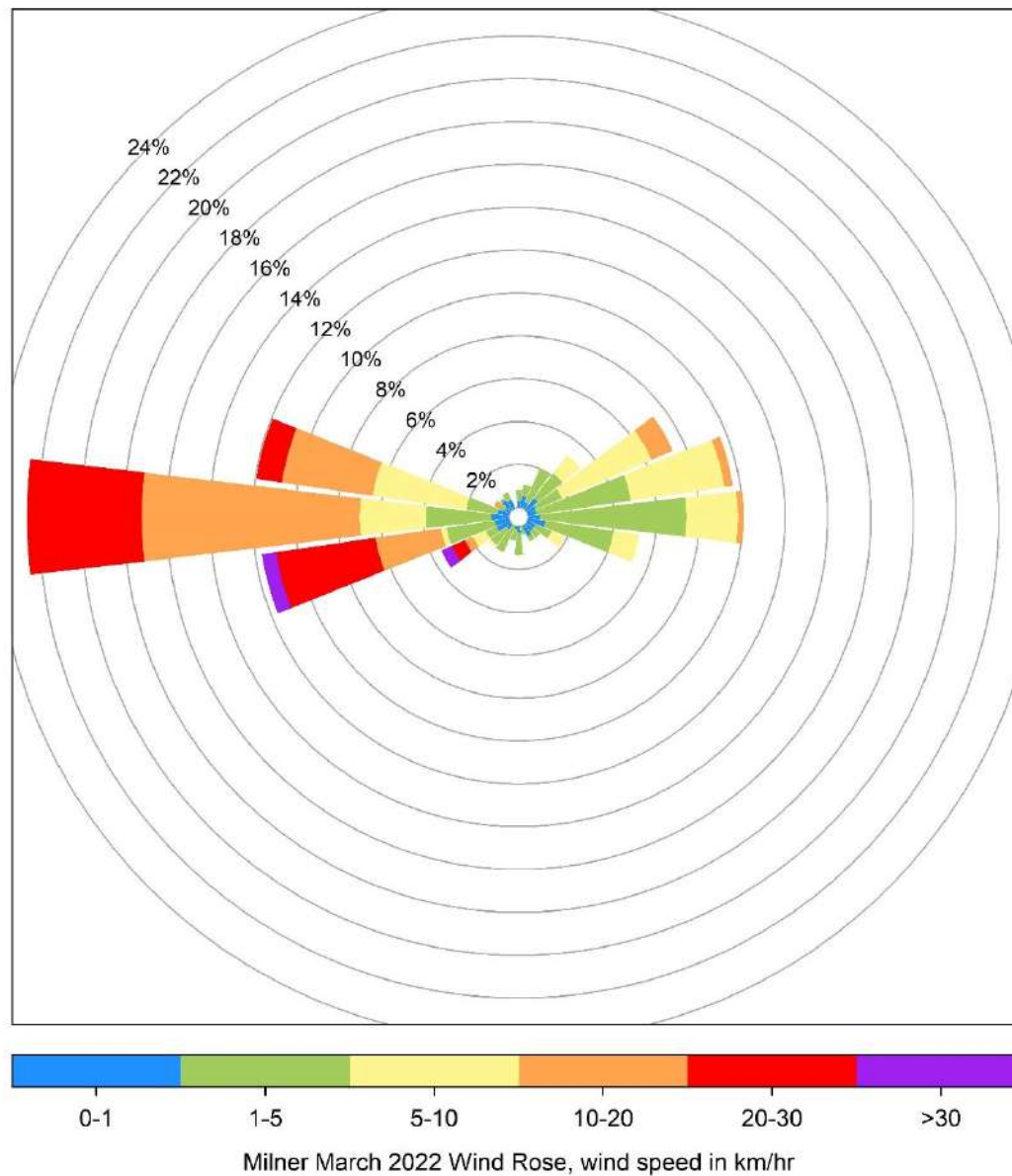


March 2022 Hourly Readings of Wind Speed (in km/hr) at Milner

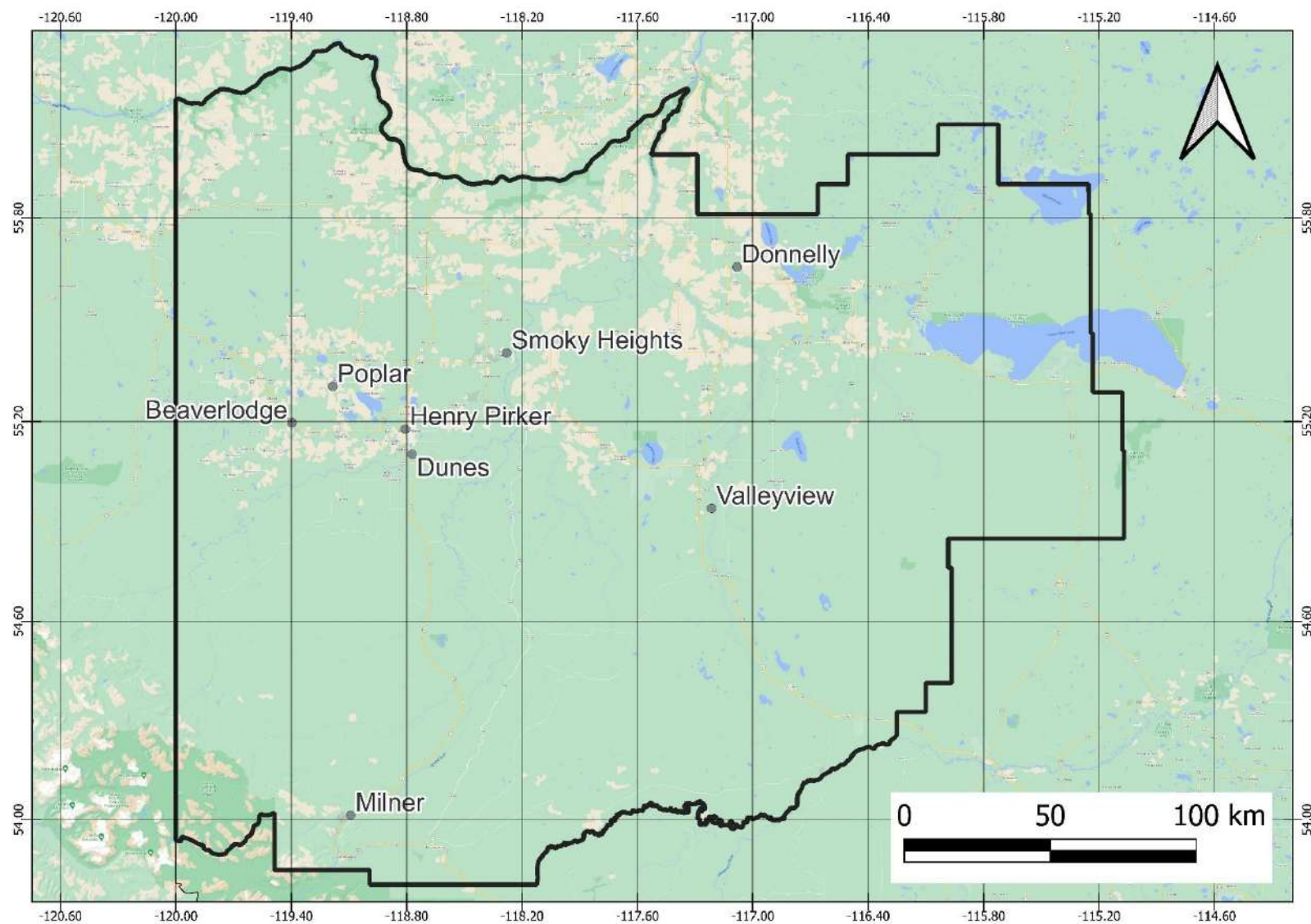


March 2022 Hourly Readings of Wind Direction (in degrees) at Milner

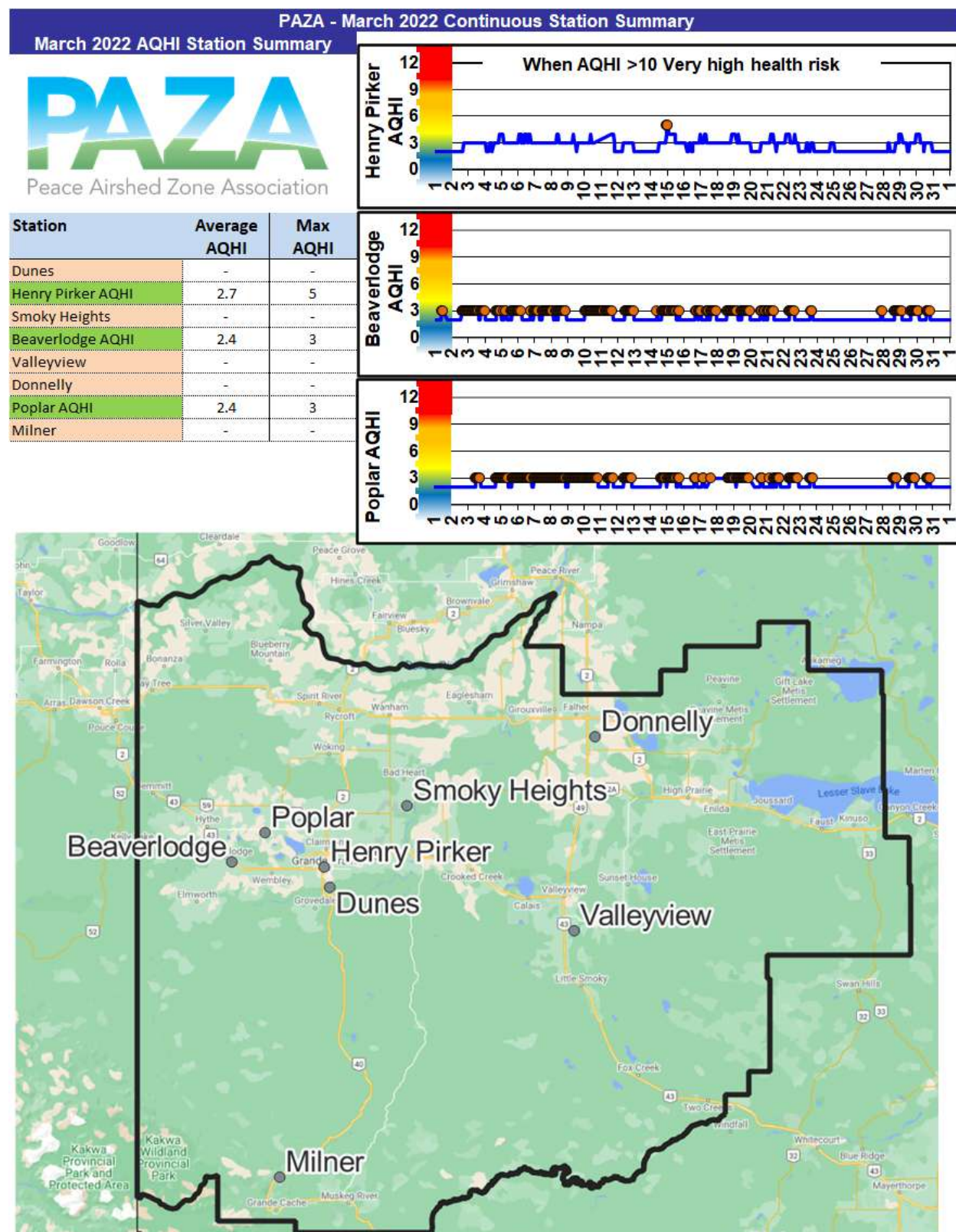




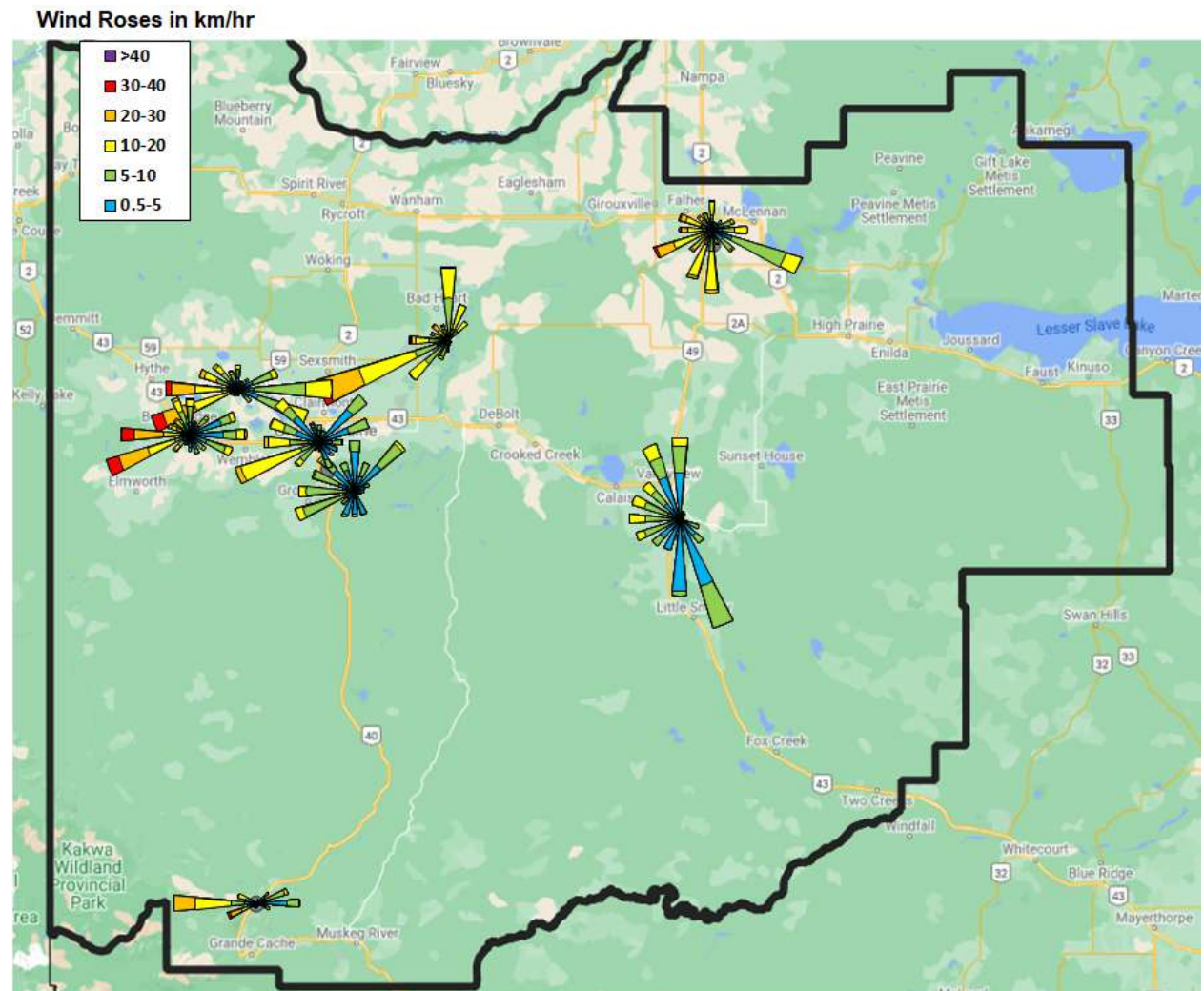
10 Concentration Summaries and Roses for PAZA



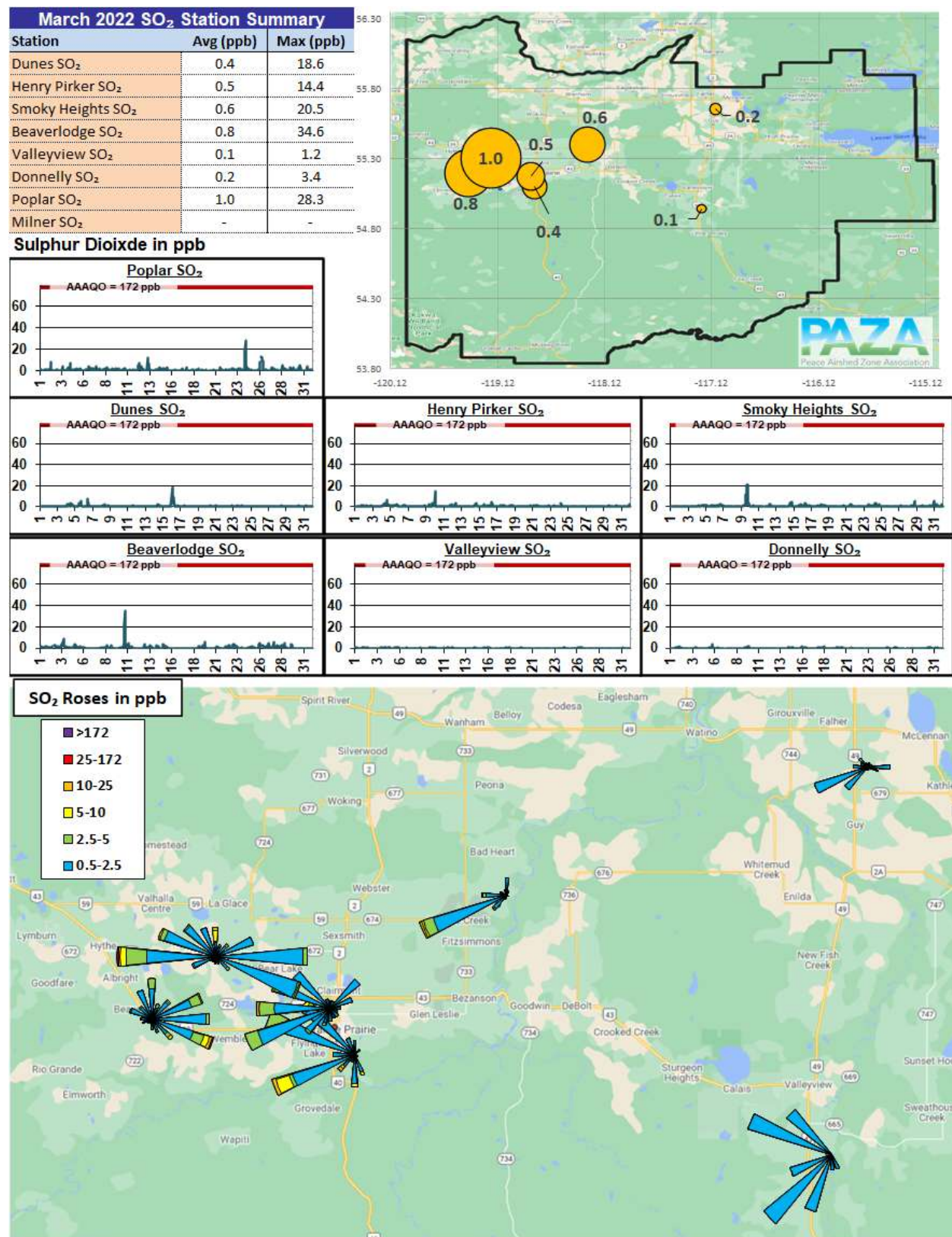
10.1 Air Quality Health Index (AQHI) Plots



10.2 Wind Roses

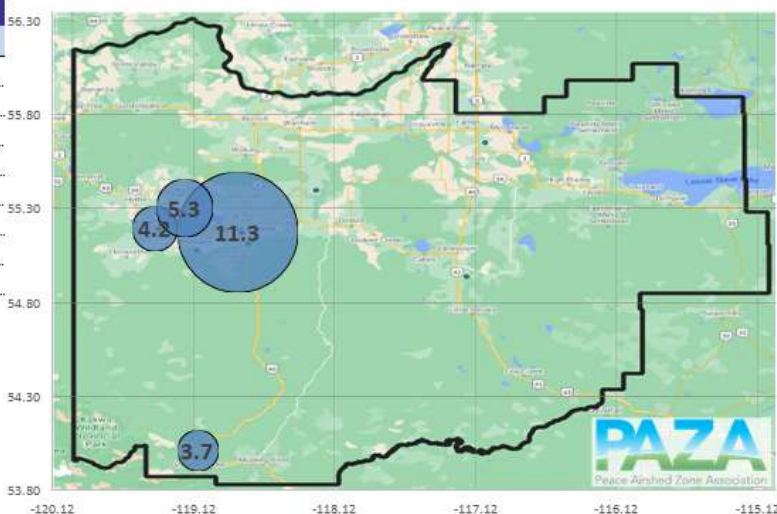


10.3 Sulphur Dioxide (SO₂) Plots

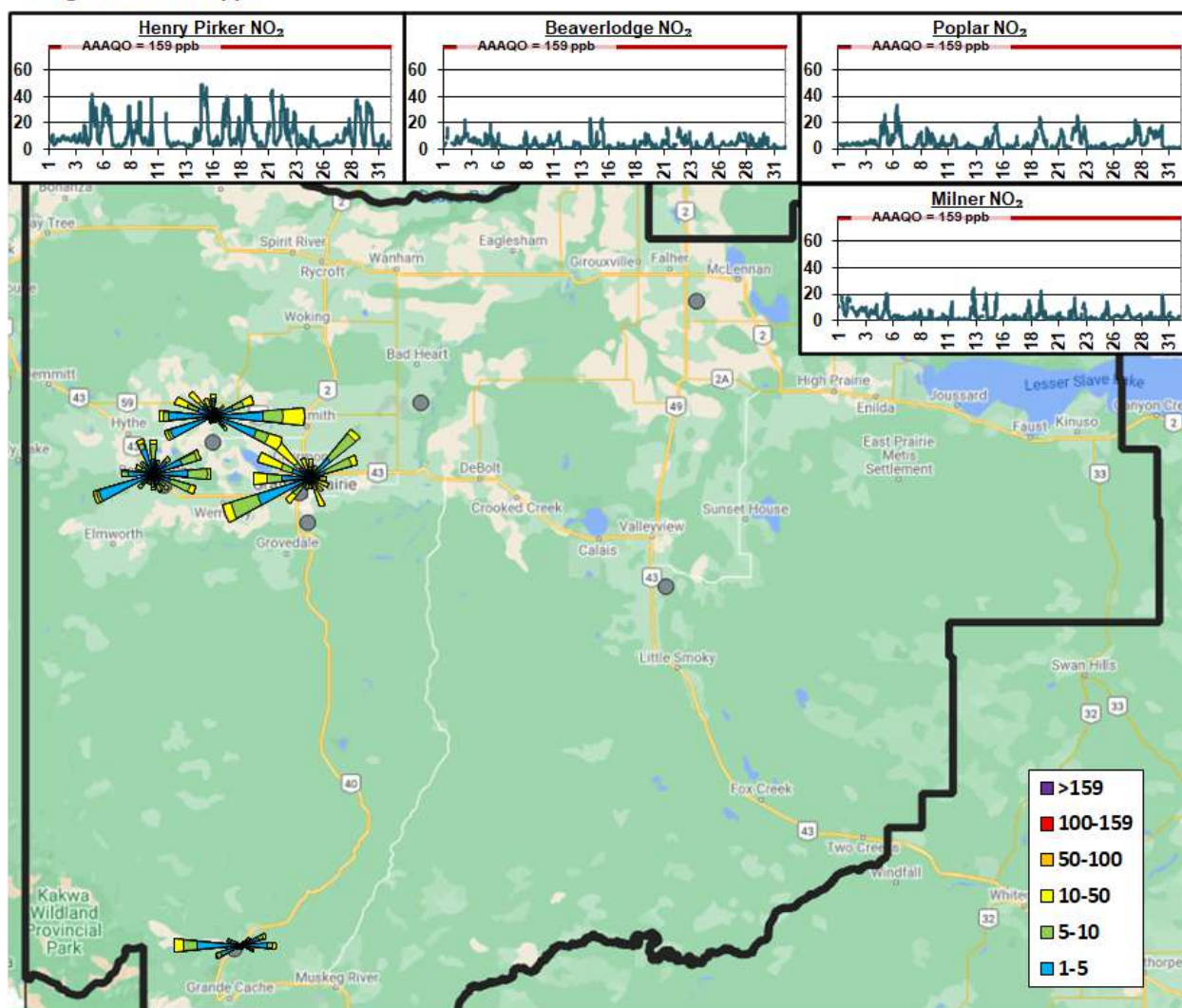


10.4 Nitrogen Dioxide (NO₂) Plots

March 2022 NO ₂ Station Summary		
Station	Avg (ppb)	Max (ppb)
Dunes NO ₂	-	-
Henry Pirkler NO ₂	11.3	49.6
Smoky Heights NO ₂	-	-
Beaverlodge NO ₂	4.2	23.5
Valleyview NO ₂	-	-
Donnelly NO ₂	-	-
Poplar NO ₂	5.3	34.0
Milner NO ₂	3.7	24.8

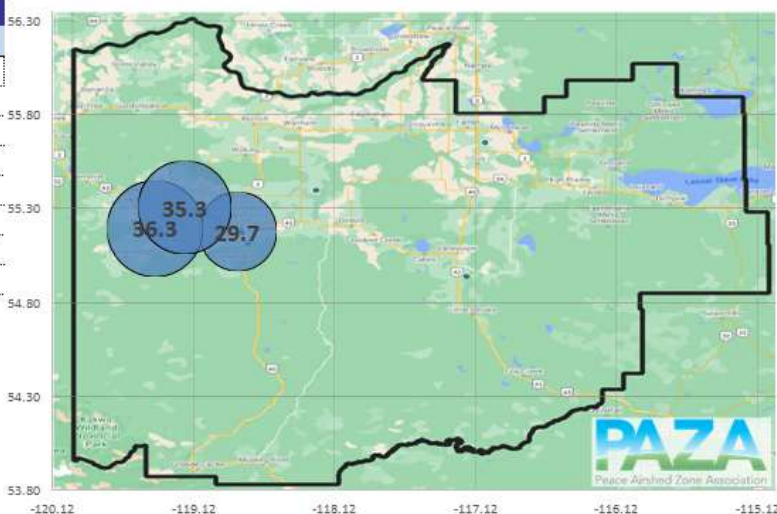


Nitrogen Dioxide in ppb

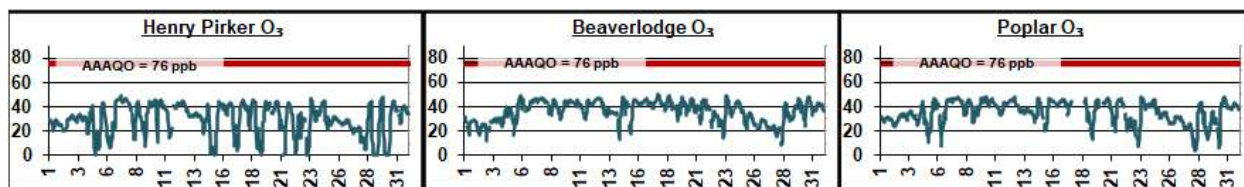


10.5 Ozone (O₃) Plots

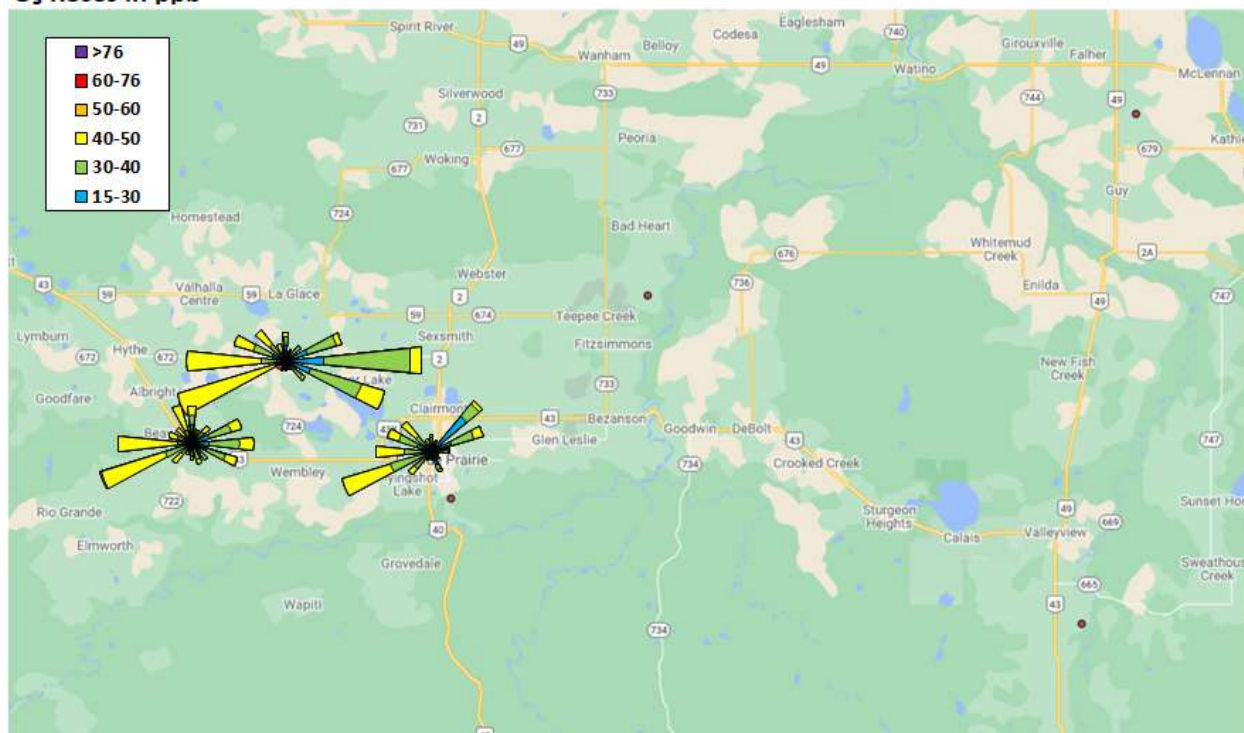
March 2022 O ₃ Station Summary		
Station	Avg (ppb)	Max (ppb)
Dunes O ₃	-	-
Henry Pirkler O ₃	29.7	48.8
Smoky Heights O ₃	-	-
Beaverlodge O ₃	36.3	50.1
Valleyview O ₃	-	-
Donnelly O ₃	-	-
Poplar O ₃	35.3	48.6
Milner O ₃	-	-



Ozone in ppb



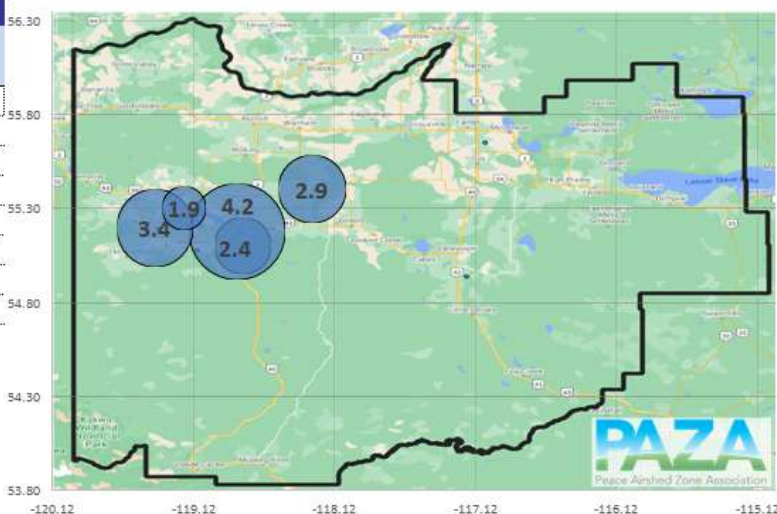
O₃ Roses in ppb



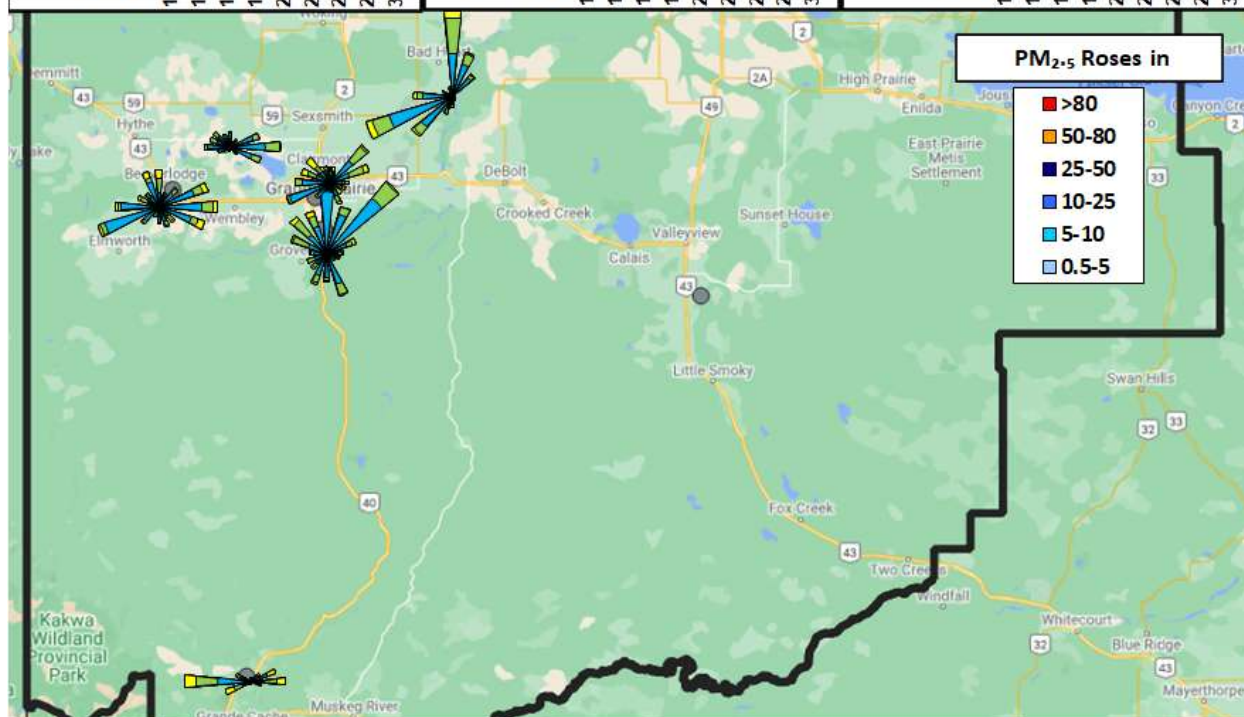
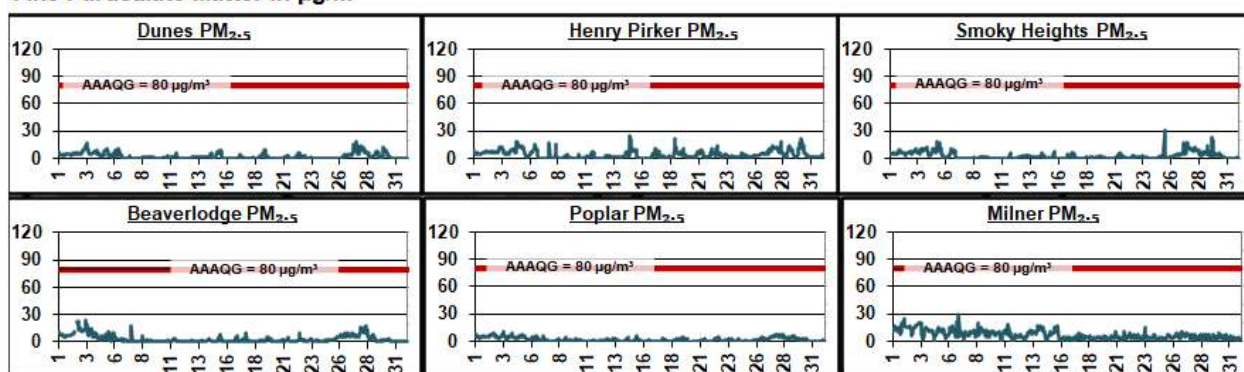
10.6 Fine Particulate Matter (PM_{2.5}) Plots

March 2022 PM_{2.5} Station Summary

Station	Avg µg/m ³	Max µg/m ³
Dunes PM _{2.5}	2.4	18.7
Henry Pirkler PM _{2.5}	4.2	25.5
Smoky Heights PM _{2.5}	2.9	31.2
Beaverlodge PM _{2.5}	3.4	23.8
Valleyview PM _{2.5}	-	-
Donnelly PM _{2.5}	-	-
Poplar PM _{2.5}	1.9	10.2
Milner PM _{2.5}	7.1	29.0

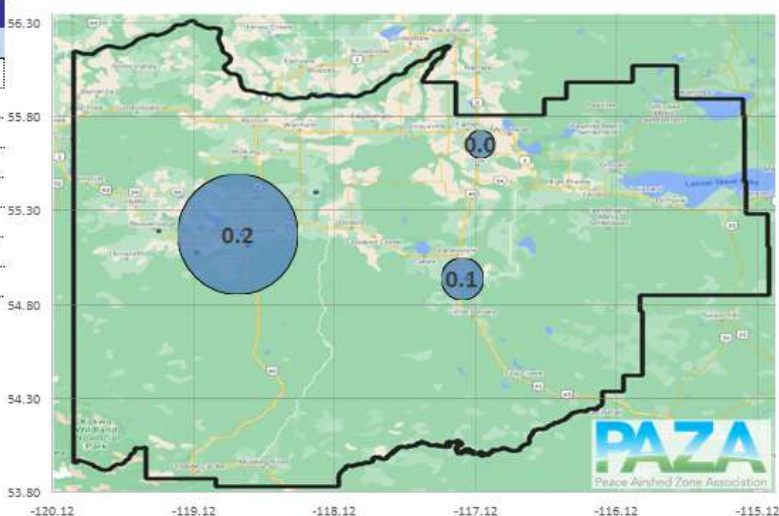


Fine Particulate Matter in µg/m³

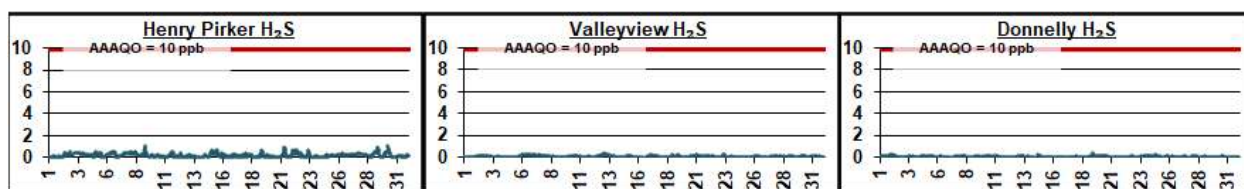


10.7 Hydrogen Sulphide (H₂S) Plots

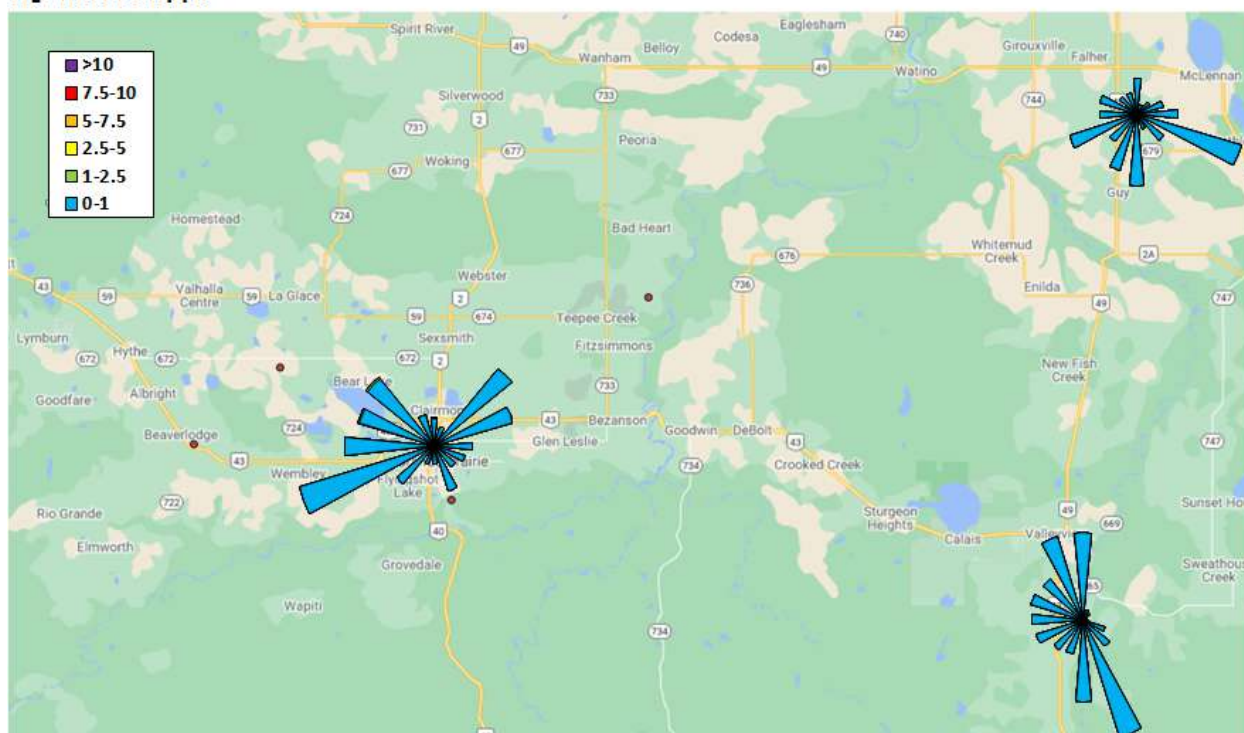
March 2022 H ₂ S Station Summary		
Station	Avg (ppb)	Max (ppb)
Dunes H ₂ S	-	-
Henry Pirker H ₂ S	0.2	1.1
Smoky Heights H ₂ S	-	-
Beaverlodge H ₂ S	-	-
Valleyview H ₂ S	0.1	0.3
Donnelly H ₂ S	0.0	0.4
Poplar H ₂ S	-	-
Milner H ₂ S	-	-



Hydrogen Sulphide in ppb

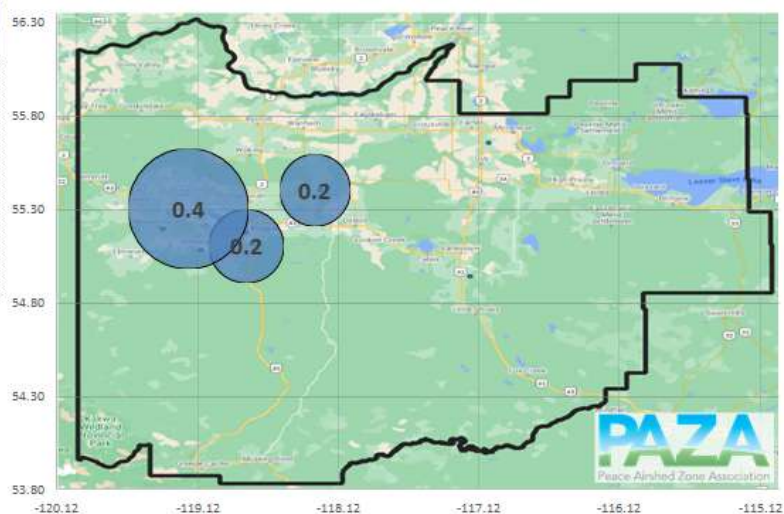


H₂S Roses in ppb

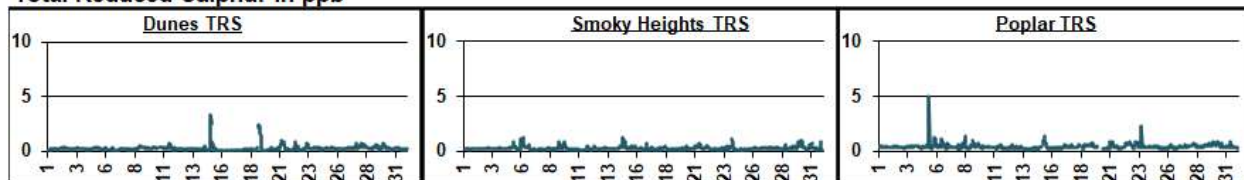


10.8 Total Reduced Sulphur (TRS) Plots

March 2022 TRS Station Summary		
Station	Avg (ppb)	Max (ppb)
Dunes TRS	0.2	3.3
Henry Pirkler TRS	-	-
Smoky Heights TRS	0.2	1.3
Beaverlodge TRS	-	-
Valleyview TRS	-	-
Donnelly TRS	-	-
Poplar TRS	0.4	5.0
Milner TRS	-	-



Total Reduced Sulphur in ppb



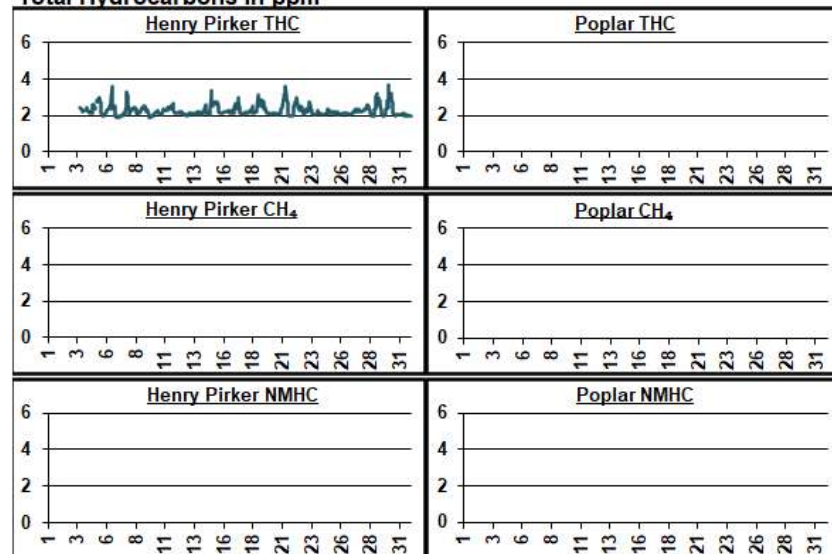
TRS Roses in ppb



10.9 Total Hydrocarbon (THC) Plots

March 2022 THC Station Summary						
Station	Total Hydrocarbons		Methane		Non-Methane HCs	
	Avg (ppm)	Max (ppm)	Avg (ppm)	Max (ppm)	Avg (ppm)	Max (ppm)
Dunes THC	-	-	-	-	-	-
Henry Pirker THC	2.3	3.7	-	-	-	-
Smoky Heights THC	-	-	-	-	-	-
Beaverlodge THC	-	-	-	-	-	-
Valleyview THC	-	-	-	-	-	-
Donnelly THC	-	-	-	-	-	-
Poplar THC	-	-	-	-	-	-

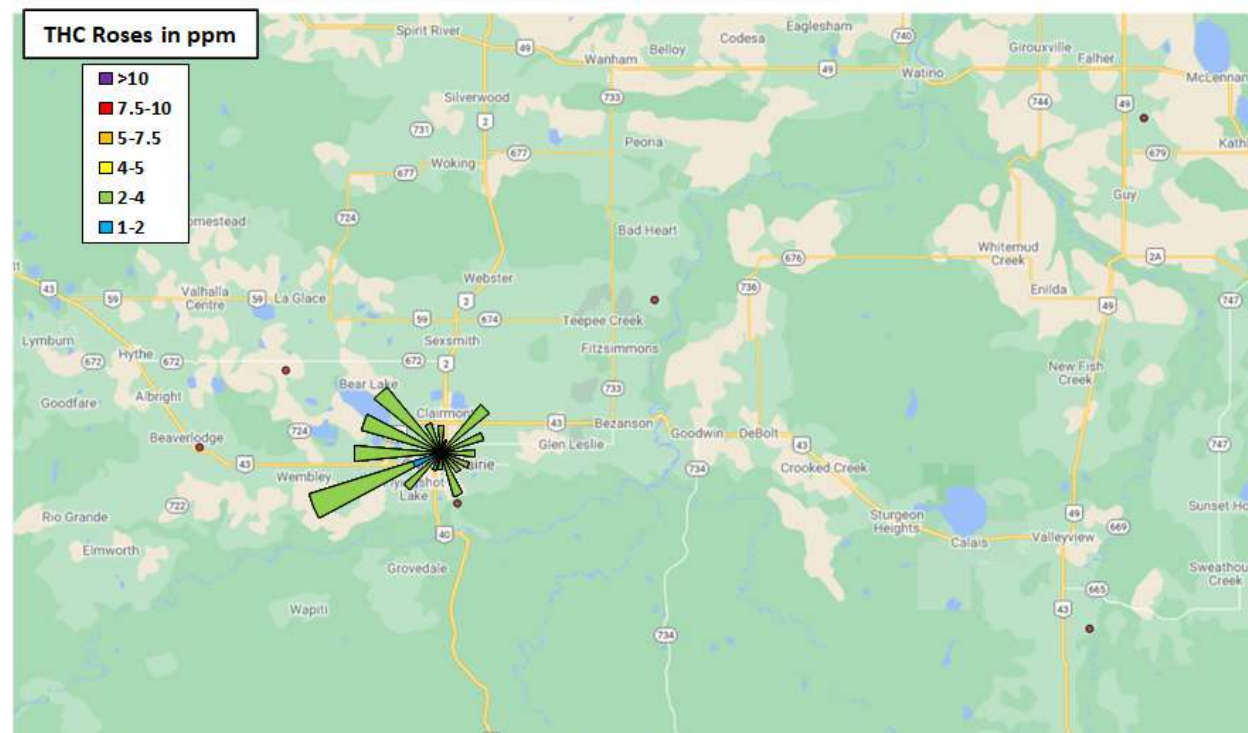
Total Hydrocarbons in ppm



Total Hydrocarbons (THC)

Methane (CH₄)

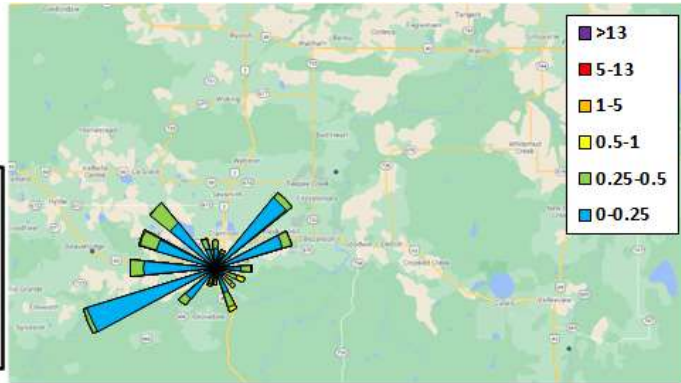
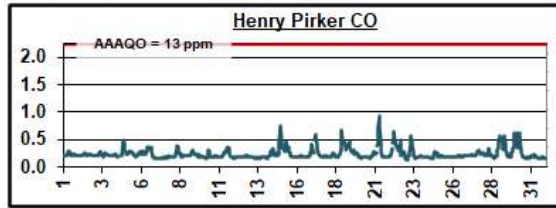
Non-Methane Hydrocarbons (NMHC)



10.10 Carbon Monoxide (CO) Plots

March 2022 CO Station Summary		
Station	Avg (ppm)	Max (ppm)
Henry Pirker CO	0.23	0.94

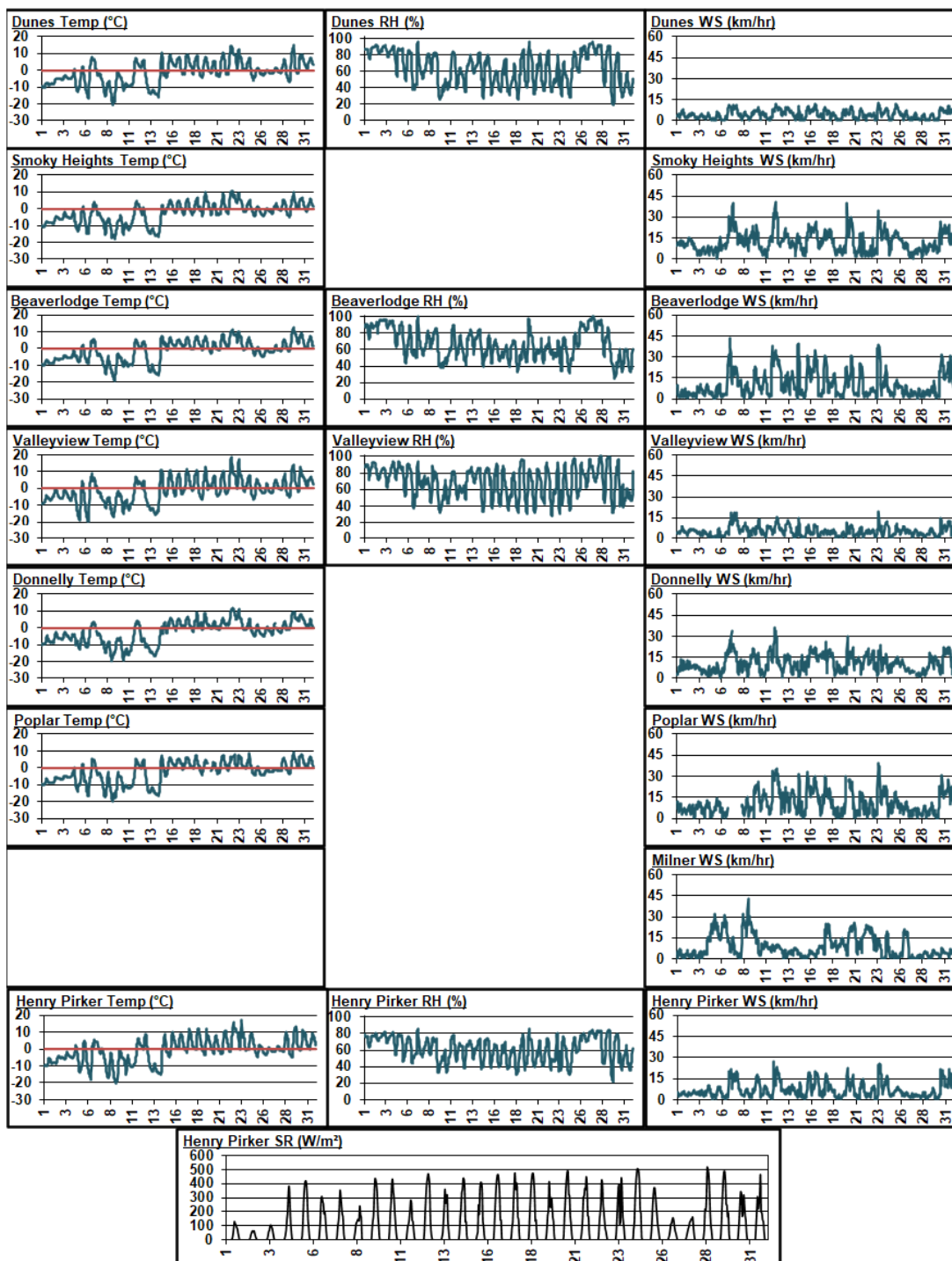
Carbon Monoxide in ppm



10.11 Meteorology Summary

March 2022 Meteorological Summary						
Station	Temp (°C)	RH (%)	SR (W/m ²)	WS (km/hr)	WD (deg)	WD
Dunes	-1.3	63.5	-	4.5	300	N
Henry Pirker	-0.9	61.1	93.8	7.0	268	N
Smoky Heights	-2.6	-	-	12.2	276	N
Beaverlodge	-1.2	66.3	-	10.4	269	N
Valleyview	-1.0	68.5	-	5.0	277	N
Donnelly	-2.4	-	-	11.0	219	N
Poplar	-2.4	-	-	11.0	266	N
Milner	-	-	-	8.9	269	269.2

Temp (°C) Outside Temperature
 RH (%) Relative Humidity
 SR (W/m²) Solar Radiation
 WS (km/hr) Wind Speed
 WD (deg) Wind Direction
 WD Wind Direction



11 Passive Monitoring Data

Peace Airshed Zone Association - PAZA Passive Stations for March 2022

Station Number	Station Name	SO2 ppb	O3 ppb	NO2 ppb	H2S ppb	LSD
Duplicates						
2a	Bay Tree		38.9			13-16-078-13 W6M
2b	Bay Tree		36.2			
7a	Steeprock Creek	0.3				09-35-072-13 W6M
7b	Steeprock Creek	0.2				
12a	Hythe			0.9		14-36-072-11 W6M
12b	Hythe			0.7		
24a	Wembley			1.7		12-31-070-08 W6M
24b	Wembley			1.6		
32a	Gold Creek	0.2				06-33-067-05 W6M
32b	Gold Creek	0.2				
40a	McLennan	0.2				03-29-077-19 W5M
40b	McLennan	0.2				
44a	Peavine			0.1		03-05-079-15 W5M
44b	Peavine			0.1		
46a	Little Smoky					12-01-065-21 W5M
46b	Little Smoky					
48a	Deer Mountain			0.2		15-22-068-09 W5M
48b	Deer Mountain			0.2		
G3a	Girouxville 3					14-02-077-23 W5M
G3b	Girouxville 3					
D3a	Duvernay 3	0.8			0.1	04-33-062-20 W5M
D3b	Duvernay 3	1.1			0.1	
J2a	Jayar2 14-8				0.1	07-08-062-03 W6M
J2b	Jayar2 14-8				0.1	
J3a	Jayar3 Bone Yard	1.5				14-08-062-03 W6M
J3b	Jayar3 Bone Yard	1.5				
J5a	Jayar5 Camp			7.2		11-08-062-03 W6M
J5b	Jayar5 Camp			6.6		
M2a	Powerline			4.0		06-14-058-08 W6M
M2b	Powerline			5.1		
M3a	Wanyandie	<0.1				11-13-058-08 W6M
M3b	Wanyandie	<0.1				

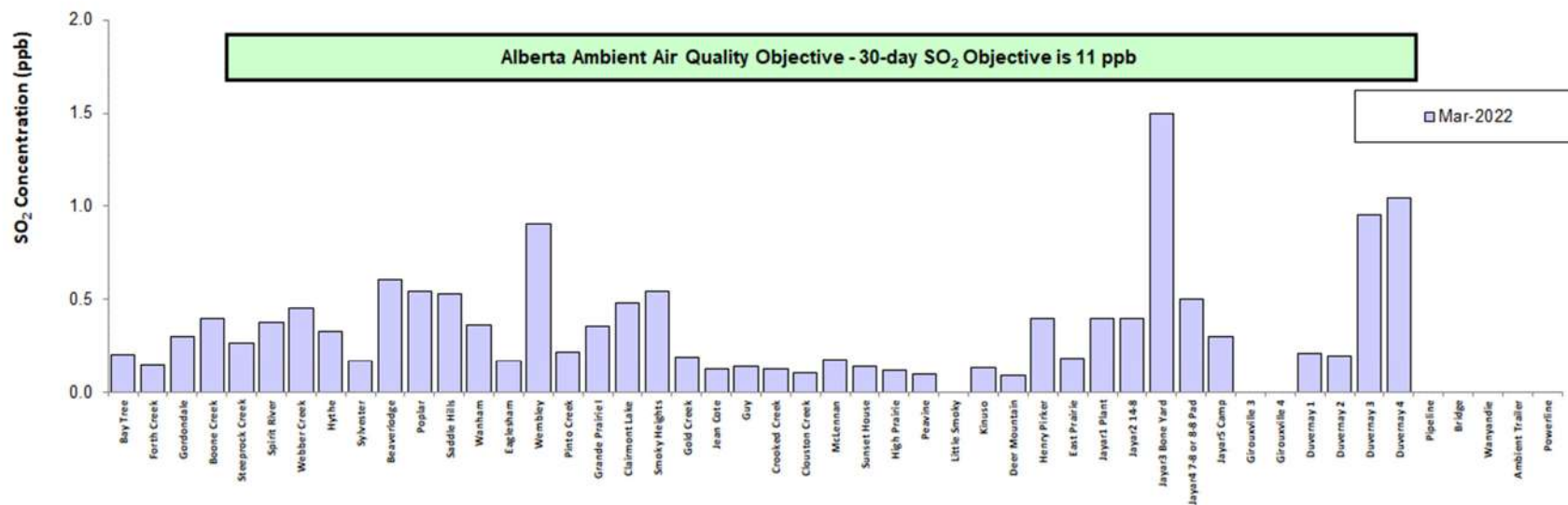
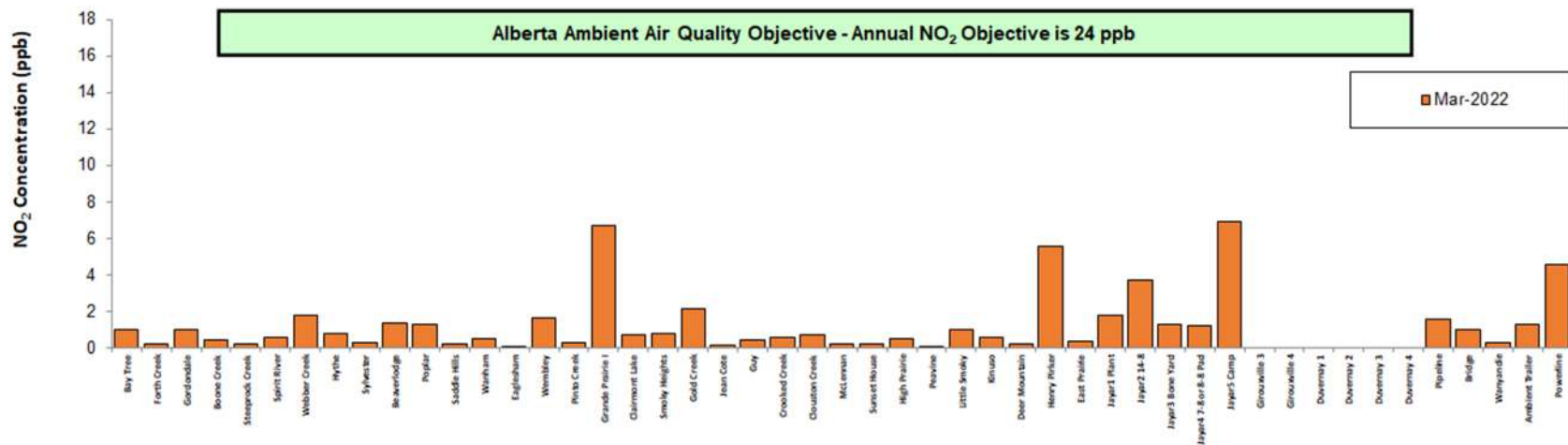
Station Number	Station Name	SO2 ppb	O3 ppb	NO2 ppb	H2S ppb	LSD
2	Bay Tree	0.2	37.5	1.0	-	13-16-078-13 W6M
3	Forth Creek	0.1	-	0.2	-	04-13-082-07 W6M
4	Gordondale	0.3	-	1.0	-	04-34-078-10 W6M
5	Boone Creek	0.4	-	0.5	-	01-23-076-11 W6M
7	Steeprock Creek	0.3	-	0.2	-	09-35-072-13 W6M
9	Spirit River	0.4	-	0.6	-	08-12-079-07 W6M
11	Webber Creek	0.5	-	1.8	-	09-36-074-09 W6M
12	Hythe	0.3	-	0.8	-	14-36-072-11 W6M
14	Sylvester	0.2	-	0.3	-	08-06-069-12 W6M
16	Beaverlodge	0.6	-	1.3	-	15-36-071-10 W6M
17	Poplar	0.5	-	1.3	-	13-06-073-08 W6M
18	Saddle Hills	0.5	-	0.2	-	04-25-074-07 W6M
19	Wanham	0.4	-	0.5	-	16-22-077-03 W6M
21	Eaglesham	0.2	-	0.1	-	16-21-079-25 W5M
24	Wembley	0.9	-	1.6	-	12-31-070-08 W6M
25	Pinto Creek	0.2	-	0.3	-	04-24-069-11 W6M
27	Grande Prairie I	0.4	-	6.7	-	08-15-071-06 W6M
28	Clairmont Lake	0.5	-	0.7	-	09-06-073-04 W6M
29	Smoky Heights	0.5	-	0.8	-	04-06-075-02 W6M
32	Gold Creek	0.2	-	2.1	-	06-33-067-05 W6M
35	Jean Cote	0.1	-	0.2	-	12-35-079-21 W5M
36	Guy	0.1	-	0.4	0.1	03-04-076-22 W5M
37	Crooked Creek	0.1	37.2	0.5	-	16-01-071-26 W5M
39	Clouston Creek	0.1	-	0.7	-	12-01-073-22 W5M
40	McLennan	0.2	-	0.2	-	03-29-077-19 W5M
42	Sunset House	0.1	-	0.2	-	05-32-070-19 W5M
43	High Prairie	0.1	-	0.5	-	16-13-074-17 W5M
44	Peavine	0.1	-	0.1	-	03-05-079-15 W5M
46	Little Smoky	-	-	1.0	-	12-01-065-21 W5M
47	Kinuso	0.1	39.7	0.5	-	12-10-073-10 W5M
48	Deer Mountain	0.1	-	0.2	-	15-22-068-09 W5M
49	Henry Pirker	0.4	-	5.5	-	17-26-071-06 W6M
50	East Prairie	0.2	-	0.3	-	11-13-079-08 W6M
57	Jayar1 Plant	0.4	-	1.8	0.1	06-08-062-03 W6M
58	Jayar2 14-8	0.4	-	3.7	0.1	07-08-062-03 W6M
59	Jayar3 Bone Yard	1.5	-	1.3	0.1	14-08-062-03 W6M
60	Jayar4 7-8 or 8-8 Pad	0.5	-	1.2	0.1	10-08-062-03 W6M
61	Jayar5 Camp	0.3	-	6.9	0.2	11-08-062-03 W6M
G3	Girouxville 3	-	-	-	1.0	14-02-077-23 W5M
G4	Girouxville 4	-	-	-	missing	04-08-077-22 W5M
D1	Duvernay 1	0.2	-	-	0.1	04-33-062-20 W5M
D2	Duvernay 2	0.2	-	-	0.1	04-33-062-20 W5M
D3	Duvernay 3	1.0	-	-	0.1	04-33-062-20 W5M
D4	Duvernay 4	1.0	-	-	0.1	04-33-062-20 W5M
M1	Pipeline	<0.1	-	1.6	-	12-14-058-08 W6M
M2	Bridge	<0.1	-	1.0	-	08-06-057-08 W6M
M3	Wanyandie	<0.1	-	0.3	-	11-13-058-08 W6M
M4	Ambient Trailer	<0.1	-	1.3	-	09-15-058-08 W6M
M5	Powerline	<0.1	-	4.6	-	06-14-058-08 W6M

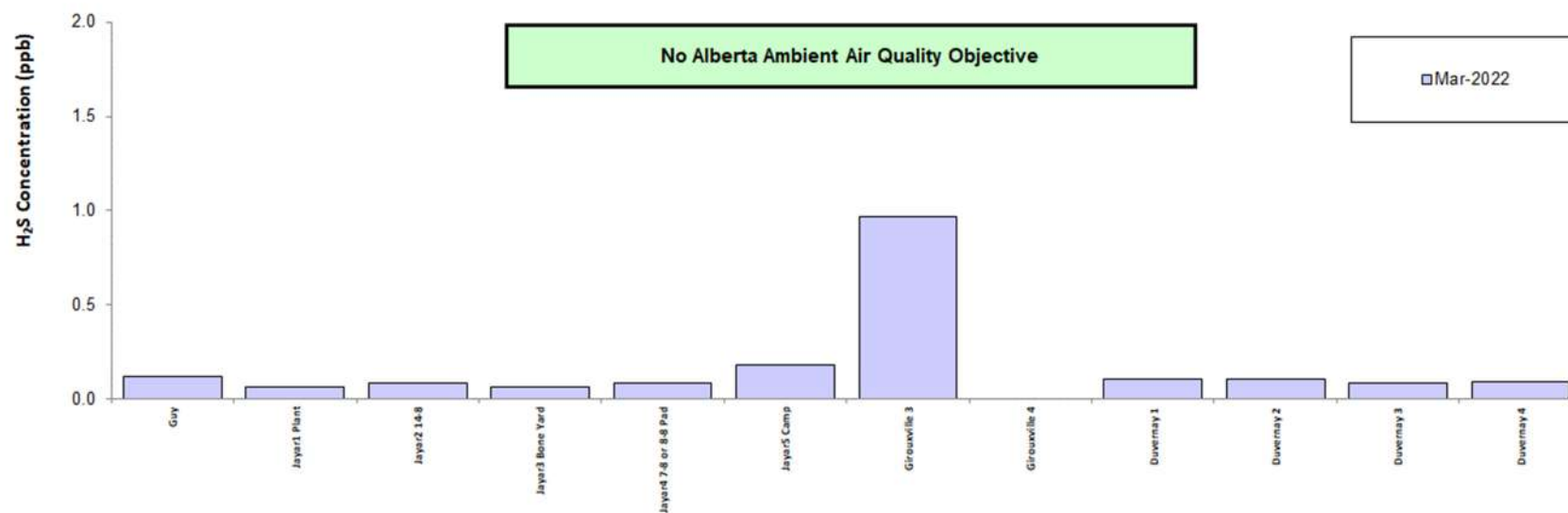
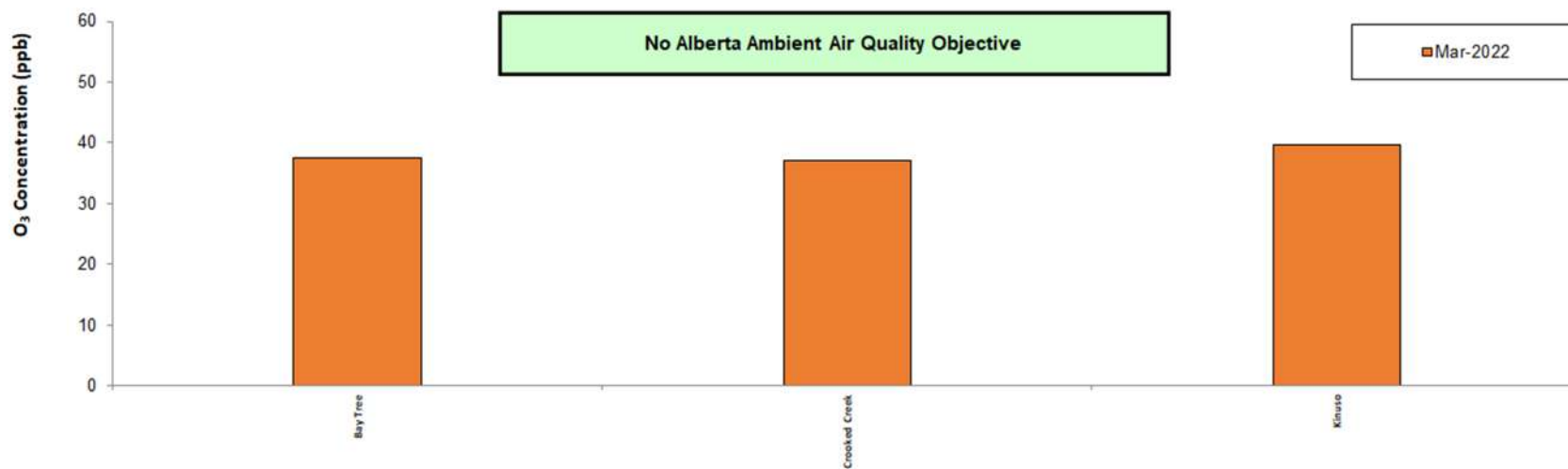
Passive Summary for March 2022

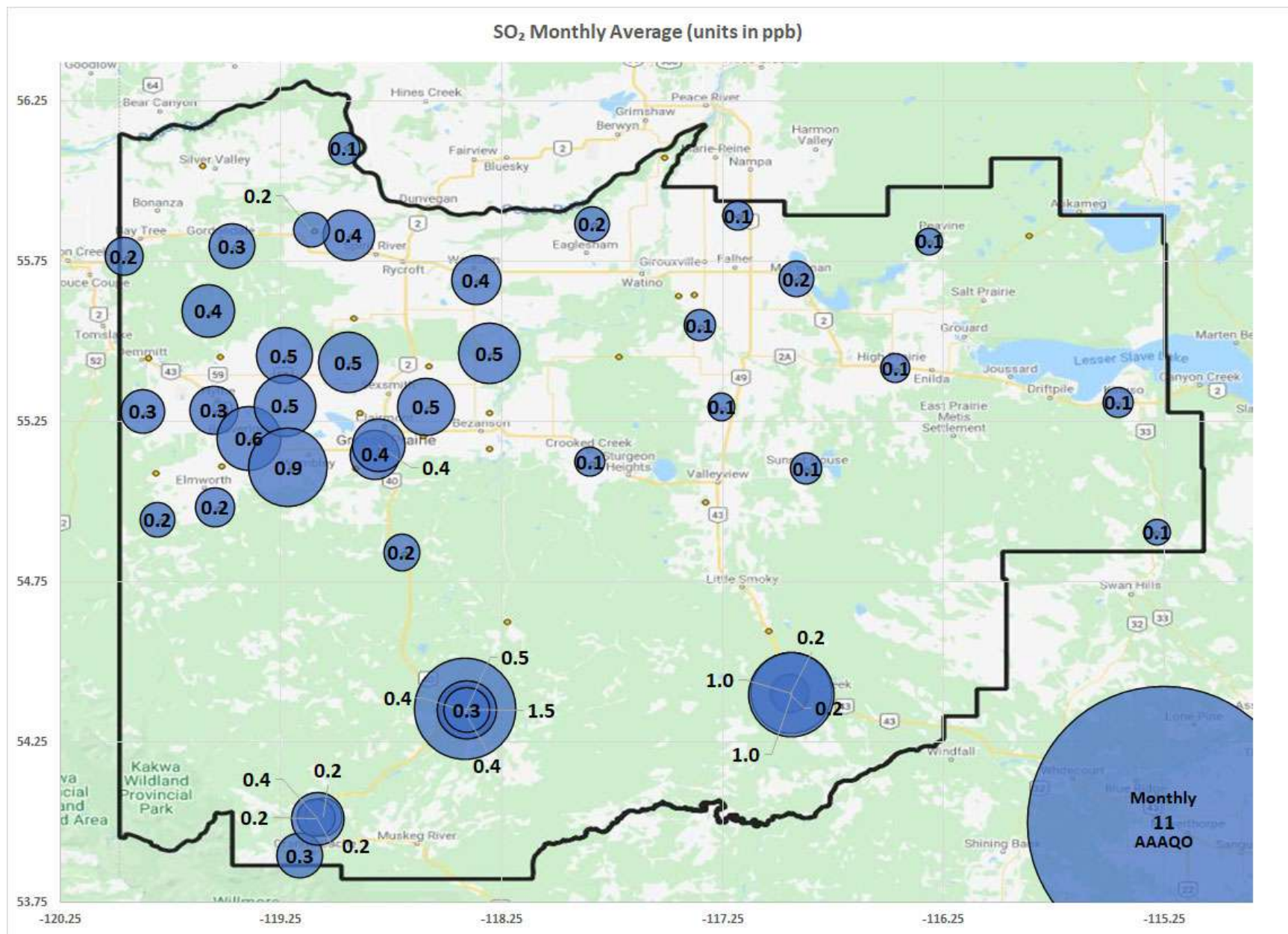
Stats	Sulphur Dioxide SO ₂	Ozone O ₃	Nitrogen Dioxide NO ₂	Hydrogen Sulphide H ₂ S
	ppb	ppb	ppb	ppb

Passive Summary for March 2022 (PAZA)				
Mean	0.4	38.1	1.3	0.2
Standard Deviation	0.3	1.4	1.7	0.3
Minimum	0.1	37.2	0.1	0.1
	Deer Mountain (#48)	Crooked Creek (#37)	Eaglesham (#21)	Jayar1 Plant (#57)
Maximum	1.5	39.7	6.9	1.0
	Jayar3 Bone Yard (#59)	Kinuso (#47)	Jayar5 Camp (#61)	Girouxville 3 (#G3)

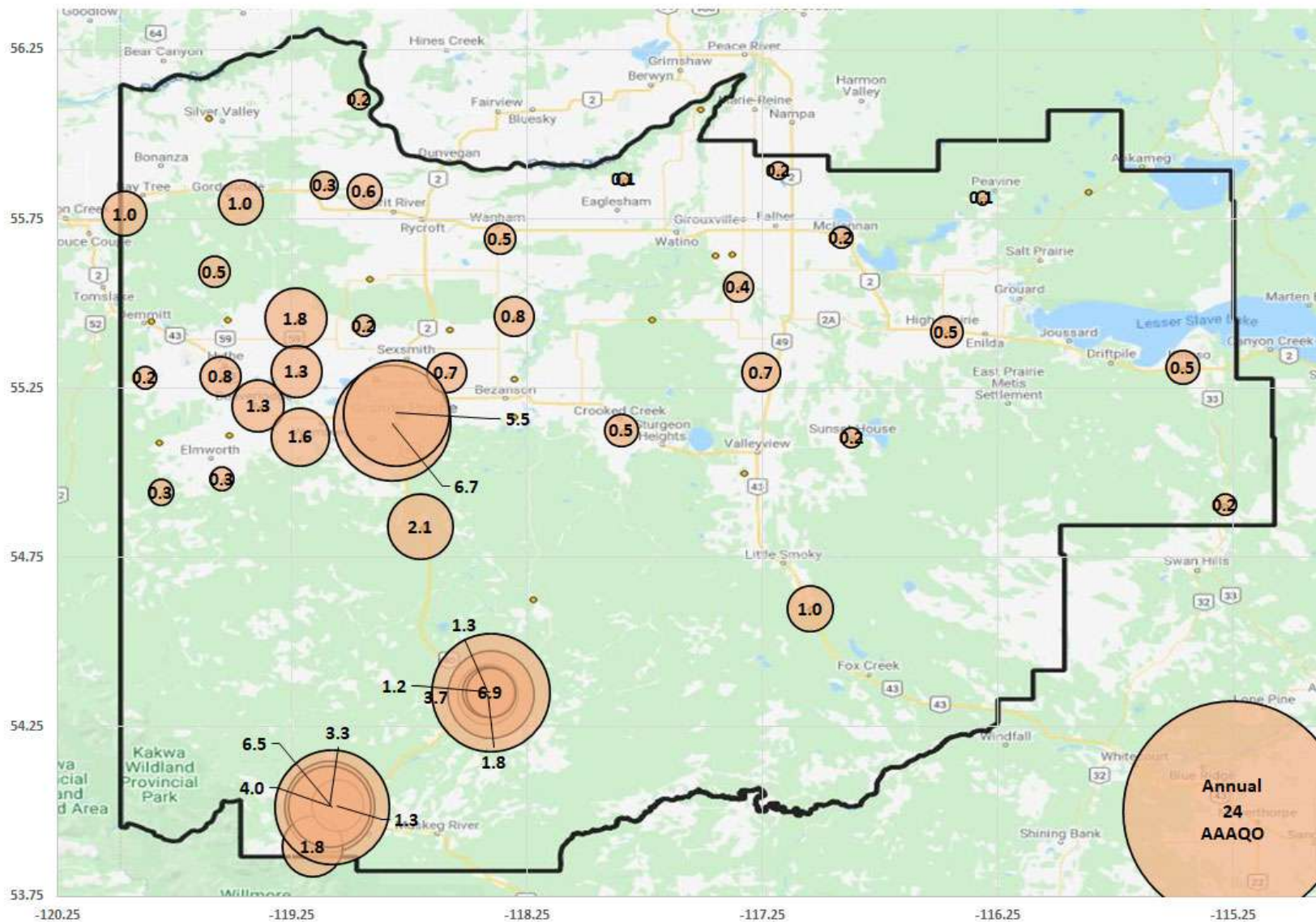
Continuous and Passive Monitoring Comparision				
PAZA Beaverlodge Station	0.8	36.3	4.2	-
Beaverlodge Passive (#16)	0.6	-	1.3	-
PAZA Henry Pirker Station	0.5	29.7	11.3	0.2
Henry Pirker passive (#49)	0.4	-	5.5	-
Milner Station	-	-	3.7	-
Henry Pirker passive (#49)	<0.1	-	1.3	-

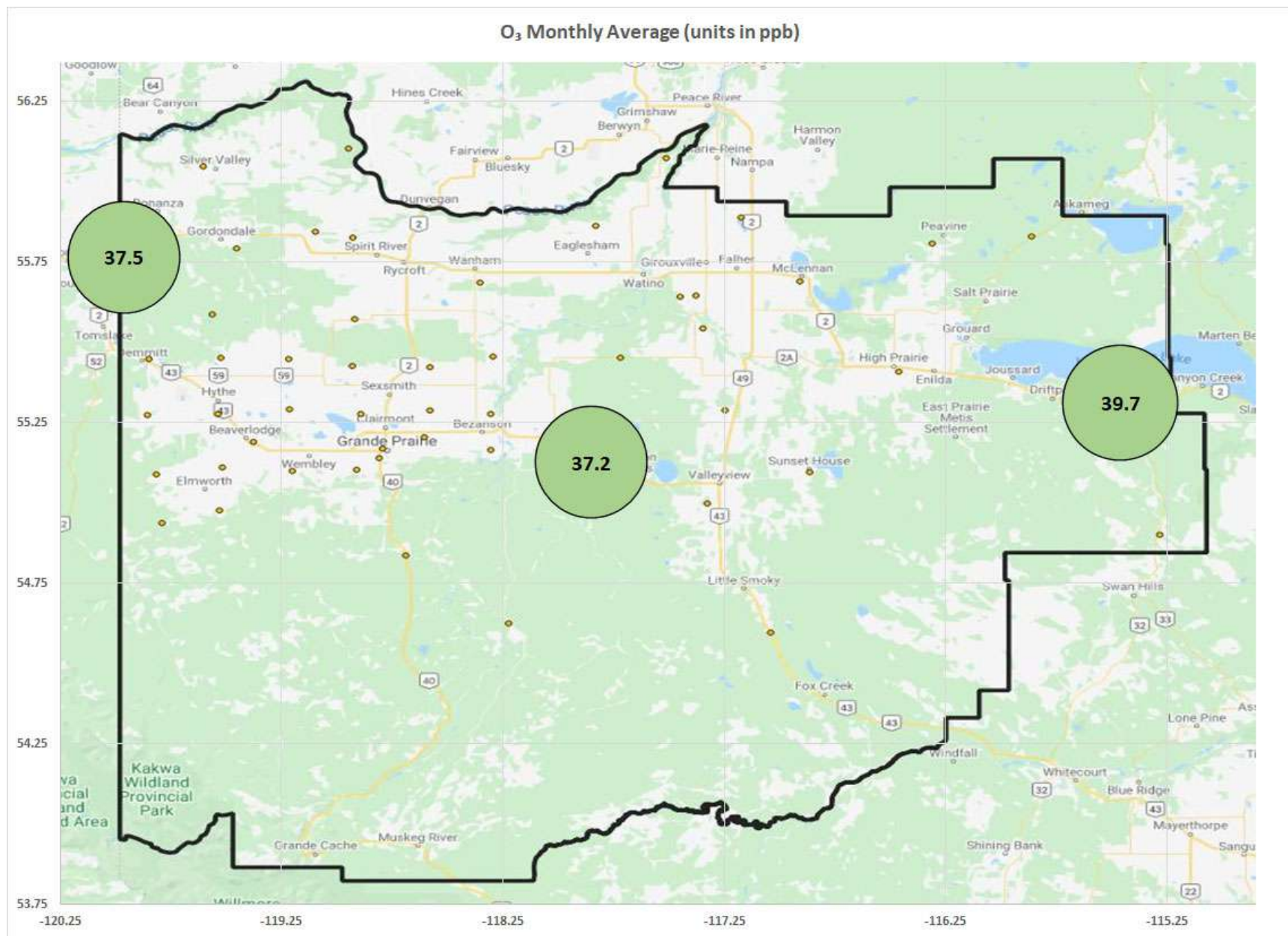






NO₂ Monthly Average (units in ppb)

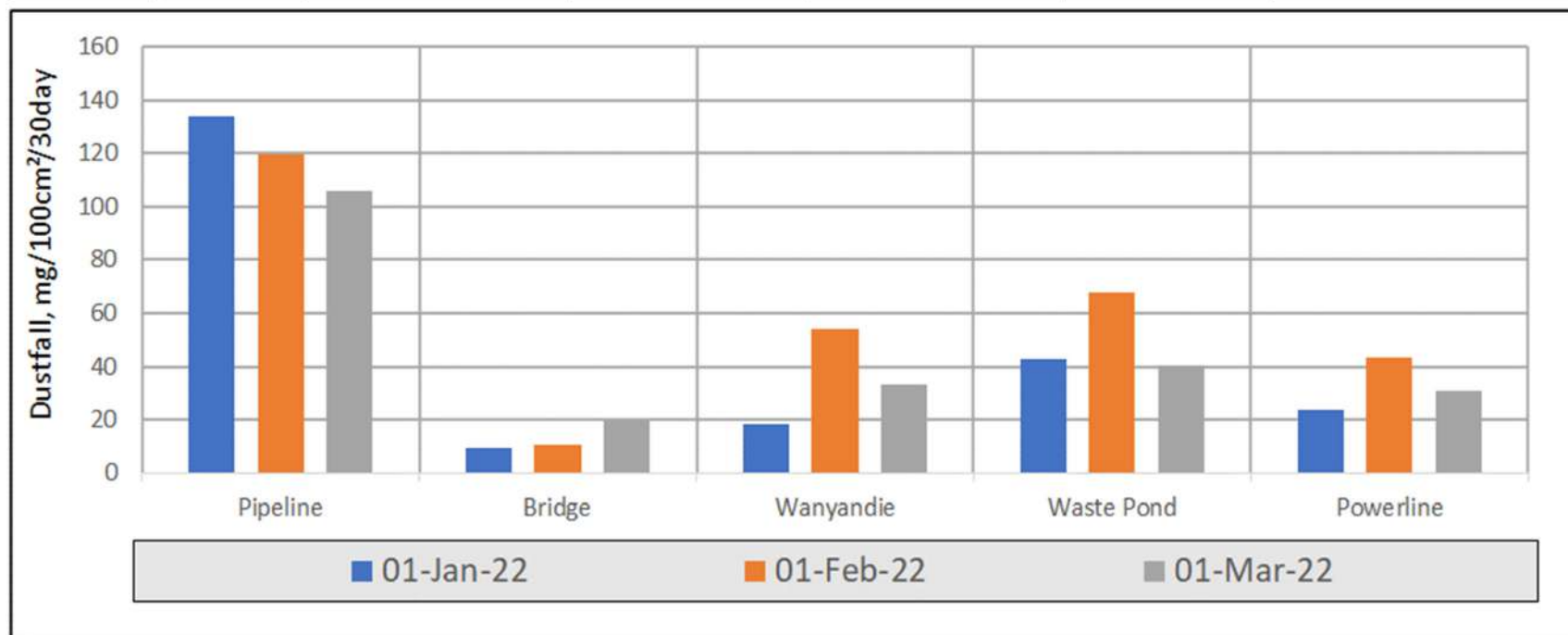




12 Dustfall Monitoring Data

Milner Dustfall Samples March 2022

Exposure Month	Year	Sample	Total Dustfall (30 day) mg/100cm ² /30day	Fixed Dustfall (30 day) mg/100cm ² /30day	Exposure days	Field Notes
March	2022	Pipeline	105.8	44.1	30	
March	2022	Bridge	19.8	8.8	30	
March	2022	Wanyandie	33.1	11.0	30	
March	2022	Waste Pond	40.4	13.2	30	
March	2022	Powerline	30.9	14.0	30	
March	2022	Powerline Dup	32.3	14.7	30	RPD= 4% / 5%



End of Report



Peace Airshed Zone Association Ambient Air Monitoring Report

March 2022