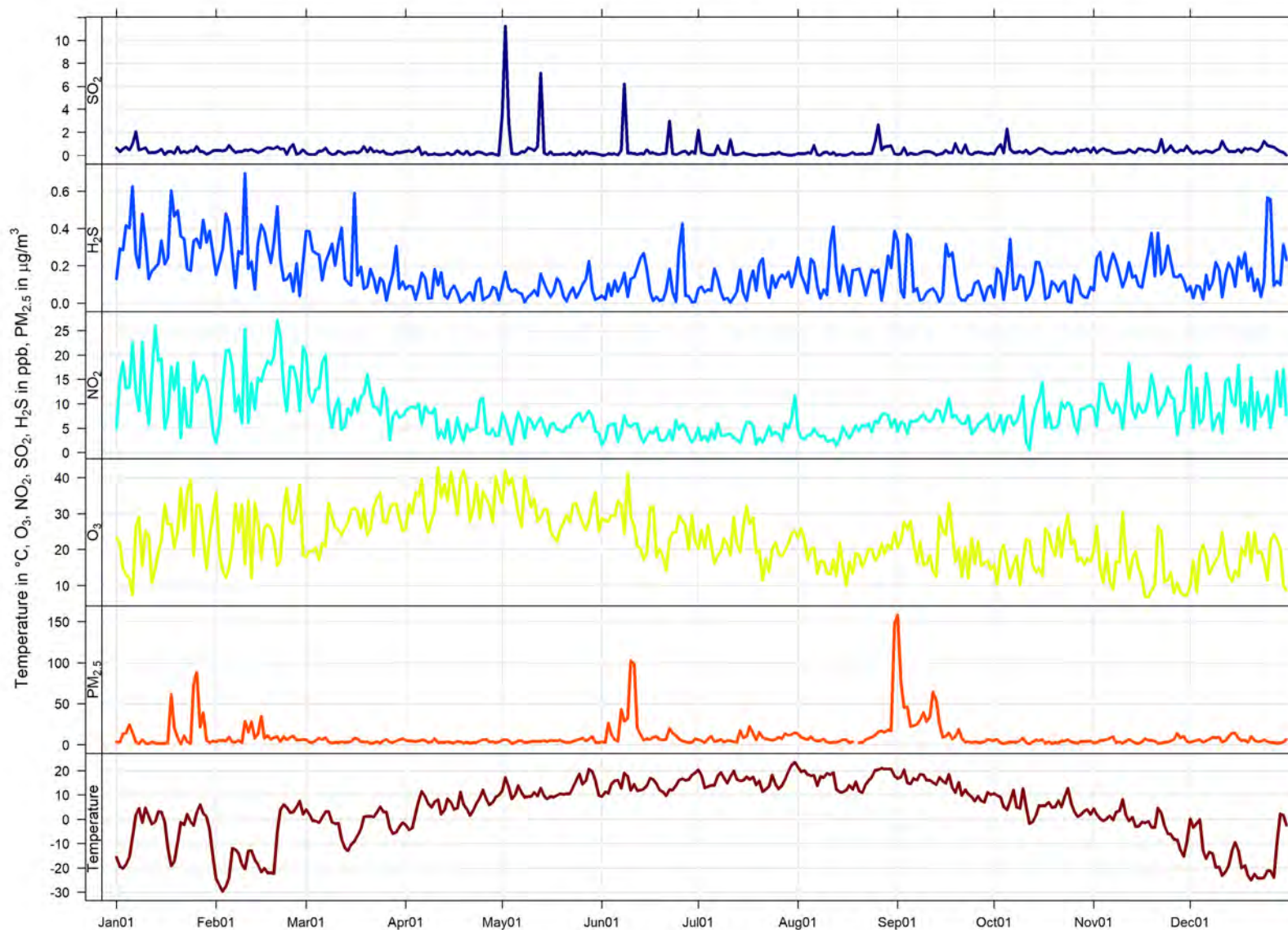


5 Fox Creek Key Parameters - Continuous Monitoring Data - 2025 Summary

Fox Creek Key Parameters - Continuous Monitoring Data - 2025 Summary

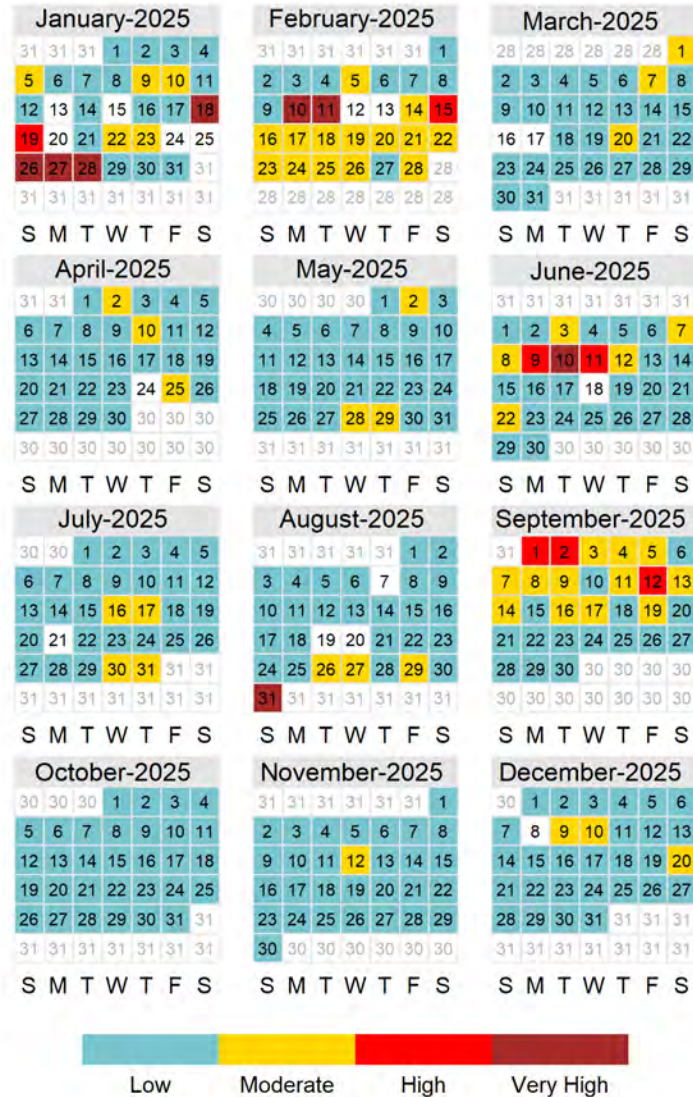
Fox Creek Station	Parameter	Average	Maximum Values			Operational Time (%)	Valid Time (%)	Readings above AAAQO & AAAQG					
			24-hr	Date	1-hr			Date	1-hr	8-hr	24-hr	30-d	Annual
			Sulphur Dioxide SO ₂ measured in ppb	0.4	11.4			May 02	96.7	May 02 08:00	99.8%	95.1%	0
Hydrogen Sulphide H ₂ S measured in ppb	0.2	0.7	Feb 10	6.4	Nov 21 10:00	98.8%	94.0%	0	-	0	-	-	
Nitrogen Dioxide NO ₂ measured in ppb	8.1	26.3	Feb 20	55.7	Feb 20 08:00	99.7%	94.8%	0	-	-	-	0	
Nitrogen Oxides NO _x measured in ppb	15.4	77.4	Feb 20	212.6	Feb 20 08:00	99.7%	94.8%	-	-	-	-	-	
Nitric Oxide NO measured in ppb	7.0	50.9	Feb 20	159.8	Feb 20 11:00	99.7%	94.8%	-	-	-	-	-	
Ozone O ₃ measured in ppb	22.9	43.1	May 02	59.4	May 02 15:00	98.7%	94.0%	0	-	-	-	-	
Particulate Matter PM _{2.5} measured in µg/m ³	9.6	155.3	Sep 01	530.5	Jan 25 21:00	99.3%	99.1%	122	-	19	-	-	

2025 Daily Concentration Readings at Fox Creek



5.1 Fox Creek AQHI Calendar Plot for 2025

Hourly Maximum AQHI for 2025 at Fox Creek



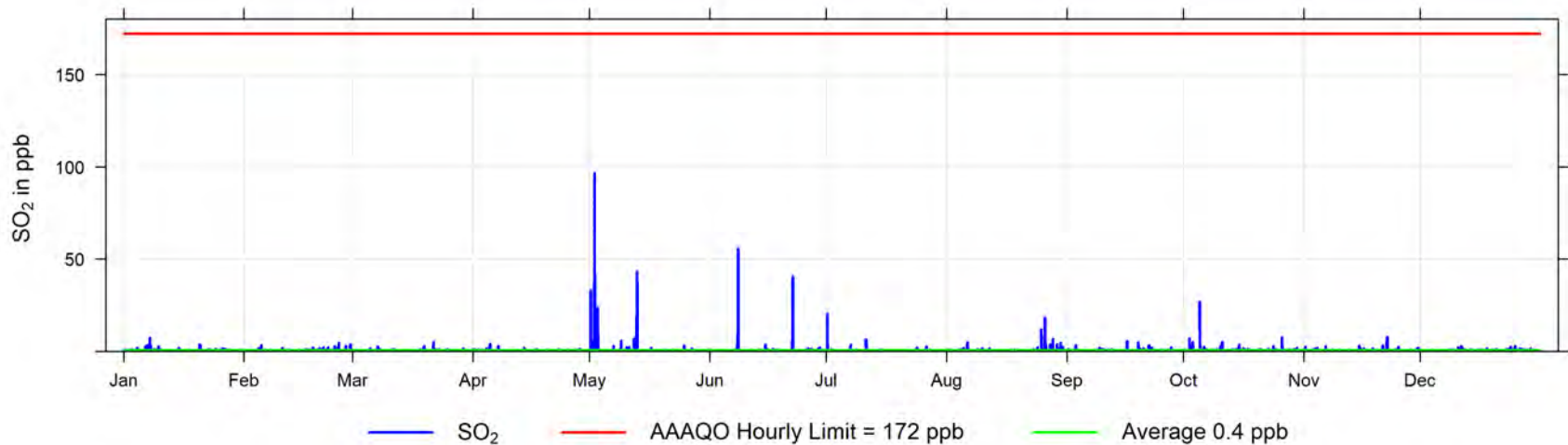
5.2 Sulphur Dioxide (SO₂) - Fox Creek 2025 Summary

Sulphur Dioxide (SO₂) Frequency Distribution at Fox Creek

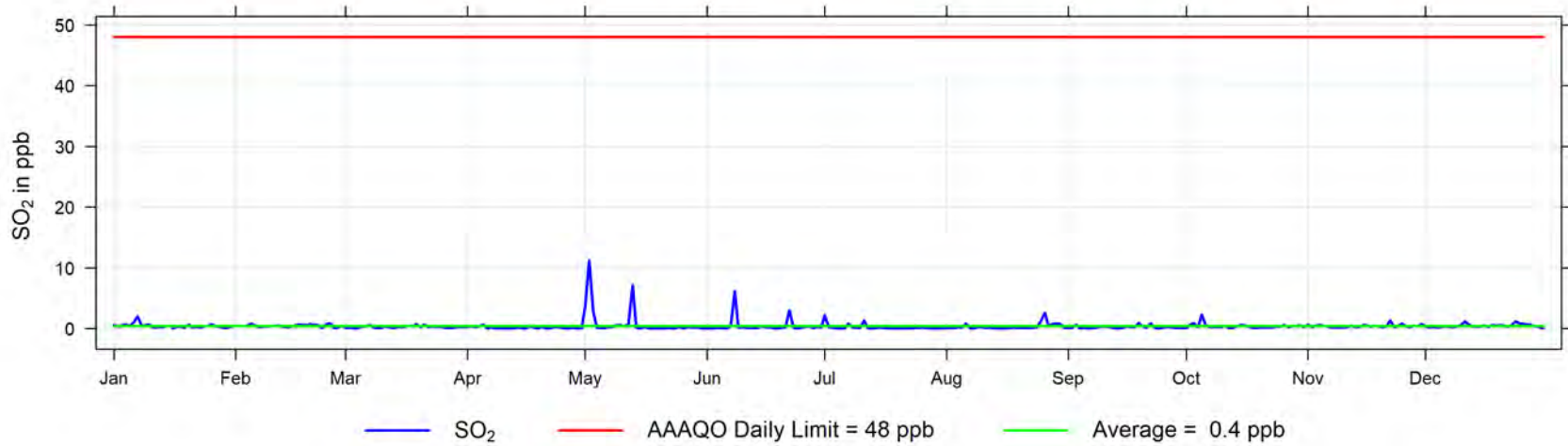
Month	Valid Hours	% of Readings in Concentration Range						Monthly Average (ppb)	MAXIMUM VALUES				Operational time (%)	Valid time (%)	Reportable Incidents		
		0 to 1 (ppb)	1 to 5 (ppb)	5 to 10 (ppb)	10 to 57 (ppb)	57 to 172 (ppb)	> 172 (ppb)		24-hr (ppb)	Date	1-hr (ppb)	Date			30-d 11 ppb	24-hr 48 ppb	1-hr 172 ppb
January 2025	701	92.2%	7.7%	0.1%	0.0%	0.0%	0.0%	0.5	2.0	Jan 07	7.2	Jan 07 19:00	98.9%	94.2%	0	0	0
February 2025	640	93.9%	6.1%	0.0%	0.0%	0.0%	0.0%	0.5	0.9	Feb 25	4.5	Feb 25 10:00	100.0%	95.2%	0	0	0
March 2025	705	97.0%	3.0%	0.0%	0.0%	0.0%	0.0%	0.3	0.8	Mar 19	5.0	Mar 21 20:00	99.7%	94.8%	0	0	0
April 2025	687	97.7%	2.3%	0.0%	0.0%	0.0%	0.0%	0.2	0.7	Apr 05	4.1	Apr 05 10:00	100.0%	95.4%	0	0	0
May 2025	709	91.5%	4.7%	1.8%	1.8%	0.1%	0.0%	1.0	11.4	May 02	96.7	May 02 08:00	100.0%	95.3%	0	0	0
June 2025	686	96.1%	3.1%	0.3%	0.6%	0.0%	0.0%	0.5	6.2	Jun 08	55.7	Jun 08 07:00	100.0%	95.3%	0	0	0
July 2025	706	97.3%	1.8%	0.6%	0.3%	0.0%	0.0%	0.2	2.2	Jul 01	20.4	Jul 01 07:00	99.6%	94.9%	0	0	0
August 2025	710	94.1%	5.1%	0.4%	0.4%	0.0%	0.0%	0.3	2.6	Aug 26	18.1	Aug 26 09:00	100.0%	95.4%	0	0	0
September 2025	687	95.3%	4.5%	0.1%	0.0%	0.0%	0.0%	0.3	1.0	Sep 19	5.5	Sep 16 12:00	100.0%	95.4%	0	0	0
October 2025	706	93.6%	5.5%	0.6%	0.3%	0.0%	0.0%	0.4	2.3	Oct 05	26.7	Oct 05 05:00	99.6%	94.9%	0	0	0
November 2025	687	95.3%	4.4%	0.3%	0.0%	0.0%	0.0%	0.4	1.4	Nov 22	7.7	Nov 22 13:00	100.0%	95.4%	0	0	0
December 2025	708	91.9%	8.1%	0.0%	0.0%	0.0%	0.0%	0.5	1.3	Dec 11	2.8	Dec 11 14:00	100.0%	95.2%	0	0	0
Annual	8332	94.7%	4.7%	0.4%	0.3%	0.0%	0.0%	0.4	11.4	MAXIMUM VALUES		99.8%	95.1%	0	0	0	

AAAQO Objectives: Annual: 8ppb, 30-Day: 11ppb, 24-Hr: 48ppb, 1-Hr: 172ppb

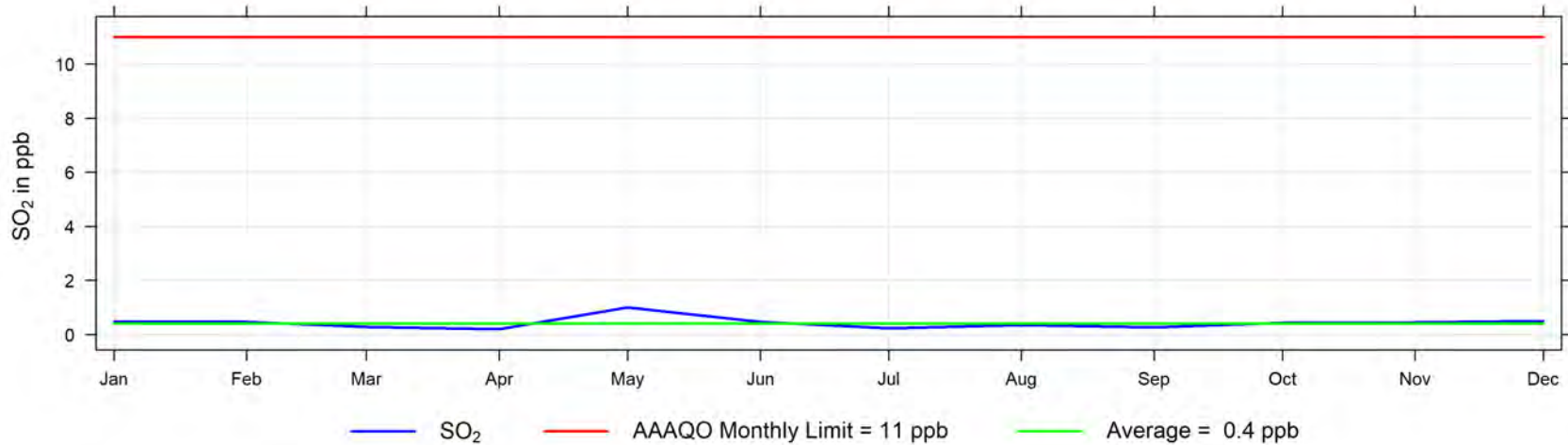
2025 Hourly Concentration Readings of SO₂ (in ppb) at Fox Creek

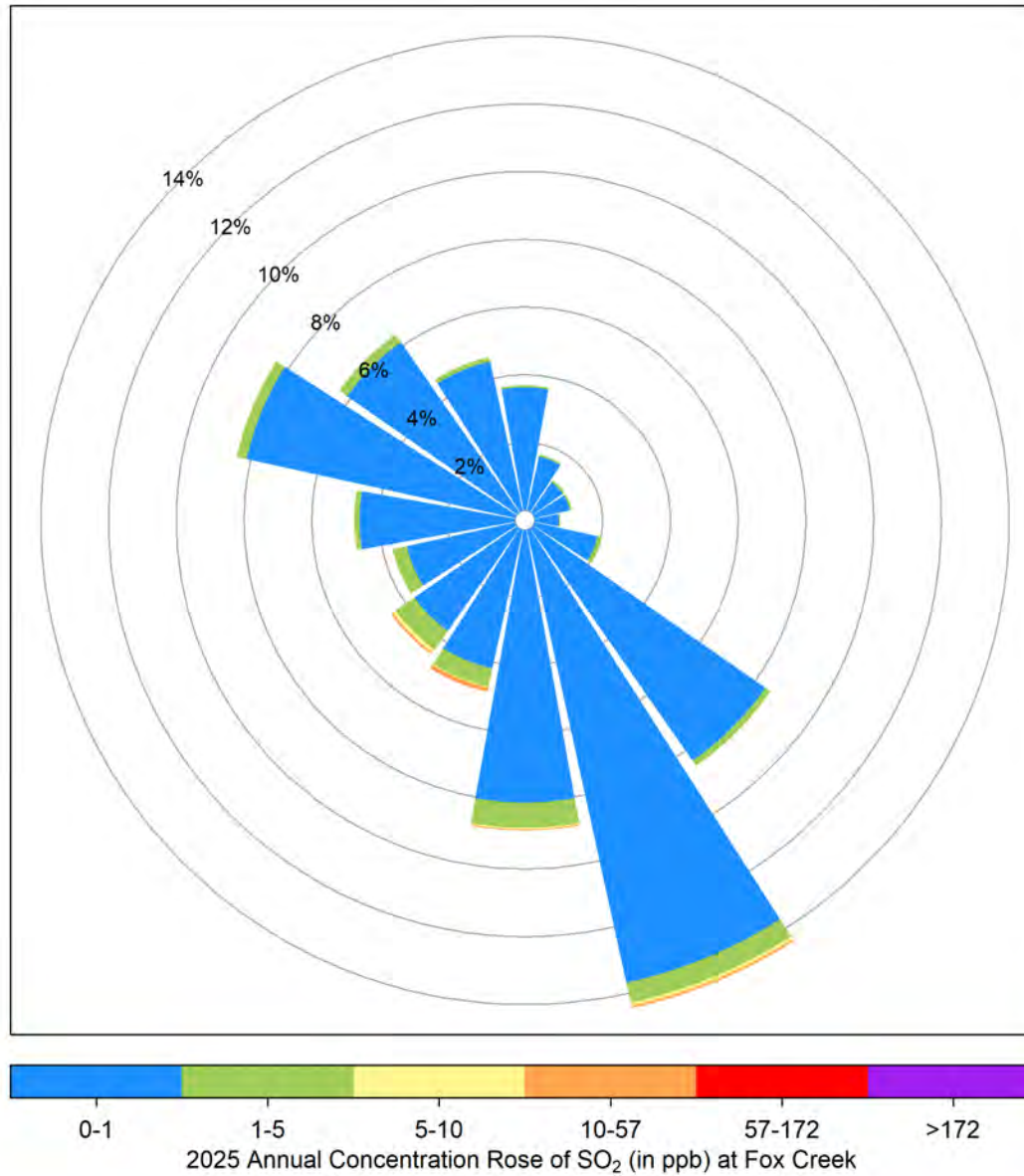


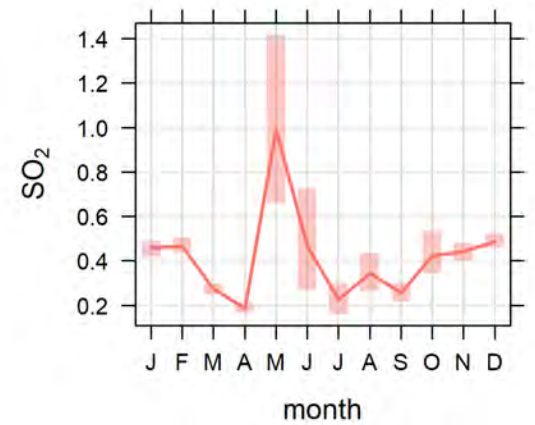
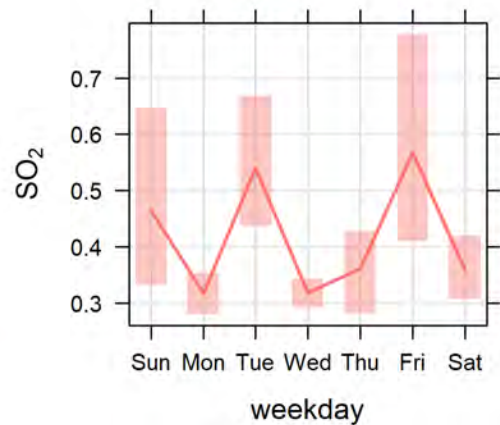
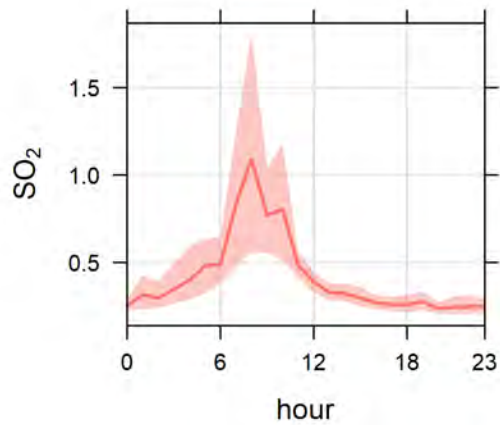
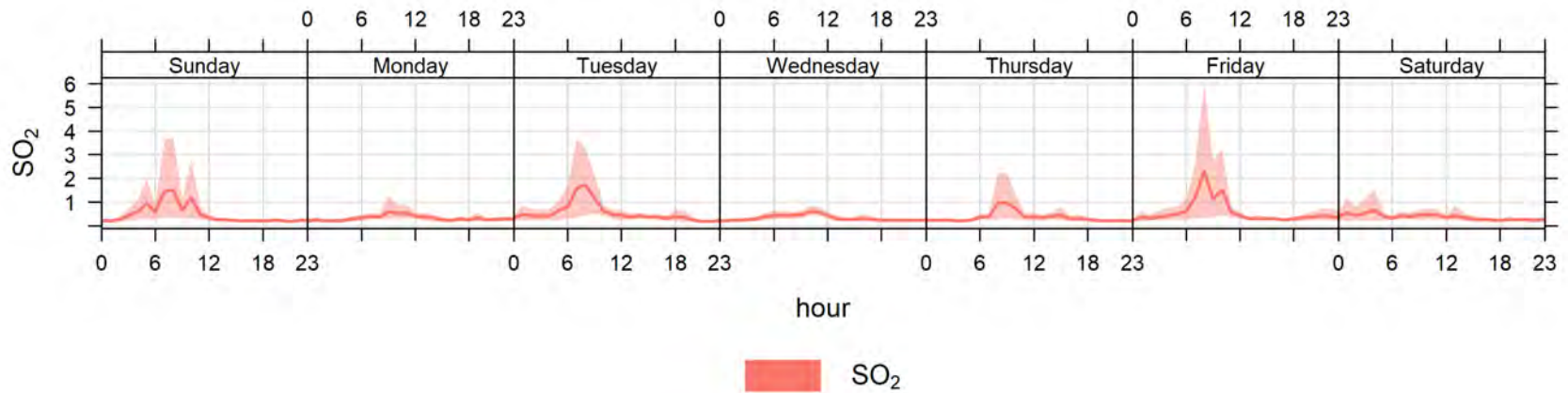
2025 Daily Concentration Readings of SO₂ (in ppb) at Fox Creek



2025 Monthly Concentration Readings of SO₂ (in ppb) at Fox Creek

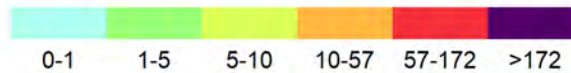
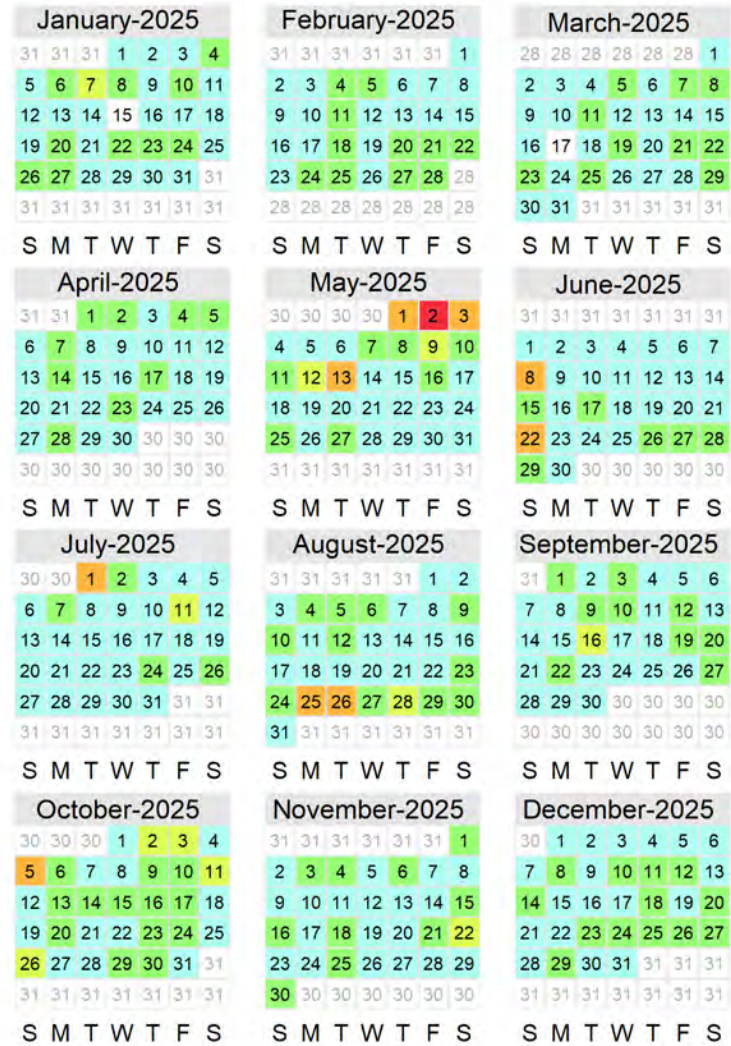






mean and 95% confidence interval in mean

Hourly Maximum SO₂ (in ppb) for 2025 at Fox Creek



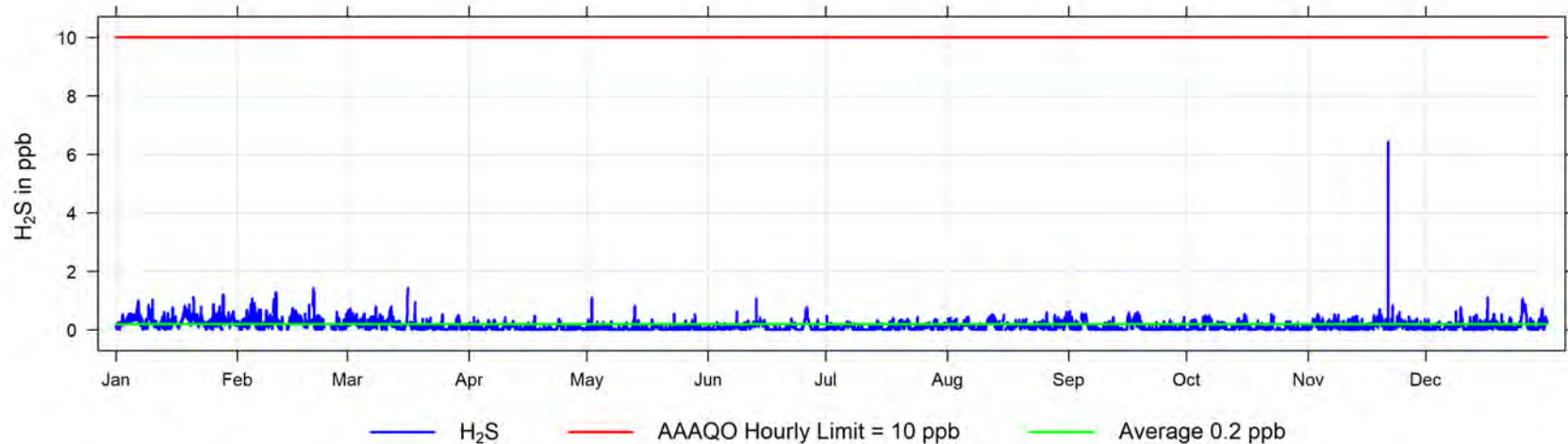
5.3 Hydrogen Sulphide (H₂S) - Fox Creek 2025 Summary

Hydrogen Sulphide (H₂S) Frequency Distribution at Fox Creek

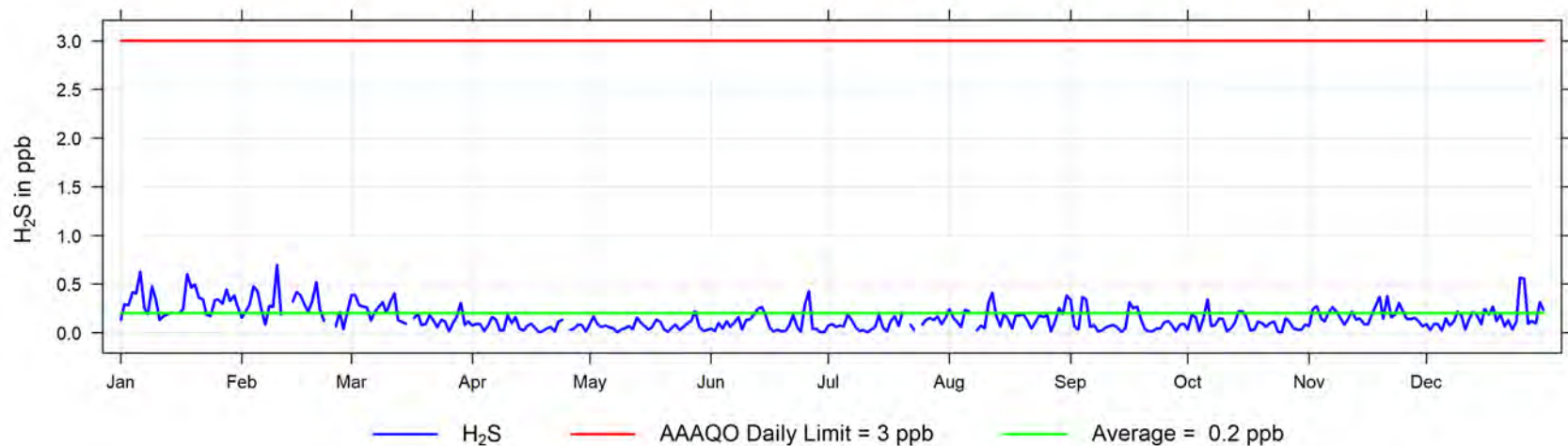
Month	Valid Hours	% of Readings in Concentration Range						Monthly Average (ppb)	MAXIMUM VALUES				Operational time (%)	Valid time (%)	Reportable Incidents	
		0 to 1 (ppb)	1 to 3 (ppb)	3 to 5 (ppb)	5 to 8 (ppb)	8 to 10 (ppb)	> 10 (ppb)		24-hr (ppb)	Date	1-hr (ppb)	Date			24-hr 3 ppb	1-hr 10 ppb
January 2025	700	98.7%	1.3%	0.0%	0.0%	0.0%	0.0%	0.3	0.6	Jan 06	1.2	Jan 28 08:00	98.9%	94.1%	0	0
February 2025	577	98.1%	1.9%	0.0%	0.0%	0.0%	0.0%	0.3	0.7	Feb 10	1.4	Feb 20 08:00	90.8%	85.9%	0	0
March 2025	703	99.4%	0.6%	0.0%	0.0%	0.0%	0.0%	0.2	0.4	Mar 01	1.4	Mar 16 11:00	99.9%	94.5%	0	0
April 2025	684	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1	0.2	Apr 10	0.5	Apr 17 19:00	100.0%	95.0%	0	0
May 2025	709	99.9%	0.1%	0.0%	0.0%	0.0%	0.0%	0.1	0.2	May 28	1.1	May 02 08:00	100.0%	95.3%	0	0
June 2025	686	99.9%	0.1%	0.0%	0.0%	0.0%	0.0%	0.1	0.4	Jun 26	1.1	Jun 13 07:00	100.0%	95.3%	0	0
July 2025	697	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1	0.2	Jul 20	0.5	Jul 01 07:00	98.8%	93.7%	0	0
August 2025	692	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2	0.4	Aug 12	0.6	Aug 31 10:00	97.5%	93.0%	0	0
September 2025	687	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1	0.4	Sep 04	0.7	Sep 01 05:00	100.0%	95.4%	0	0
October 2025	706	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.1	0.3	Oct 06	0.5	Oct 15 19:00	99.6%	94.9%	0	0
November 2025	687	99.9%	0.0%	0.0%	0.1%	0.0%	0.0%	0.2	0.4	Nov 19	6.4	Nov 21 10:00	100.0%	95.4%	0	0
December 2025	708	99.4%	0.6%	0.0%	0.0%	0.0%	0.0%	0.2	0.6	Dec 25	1.1	Dec 16 19:00	100.0%	95.2%	0	0
Annual	8236	99.6%	0.4%	0.0%	0.0%	0.0%	0.0%	0.2	0.7	Feb 10	6.4	Nov 21 10:00	98.8%	94.0%	0	0

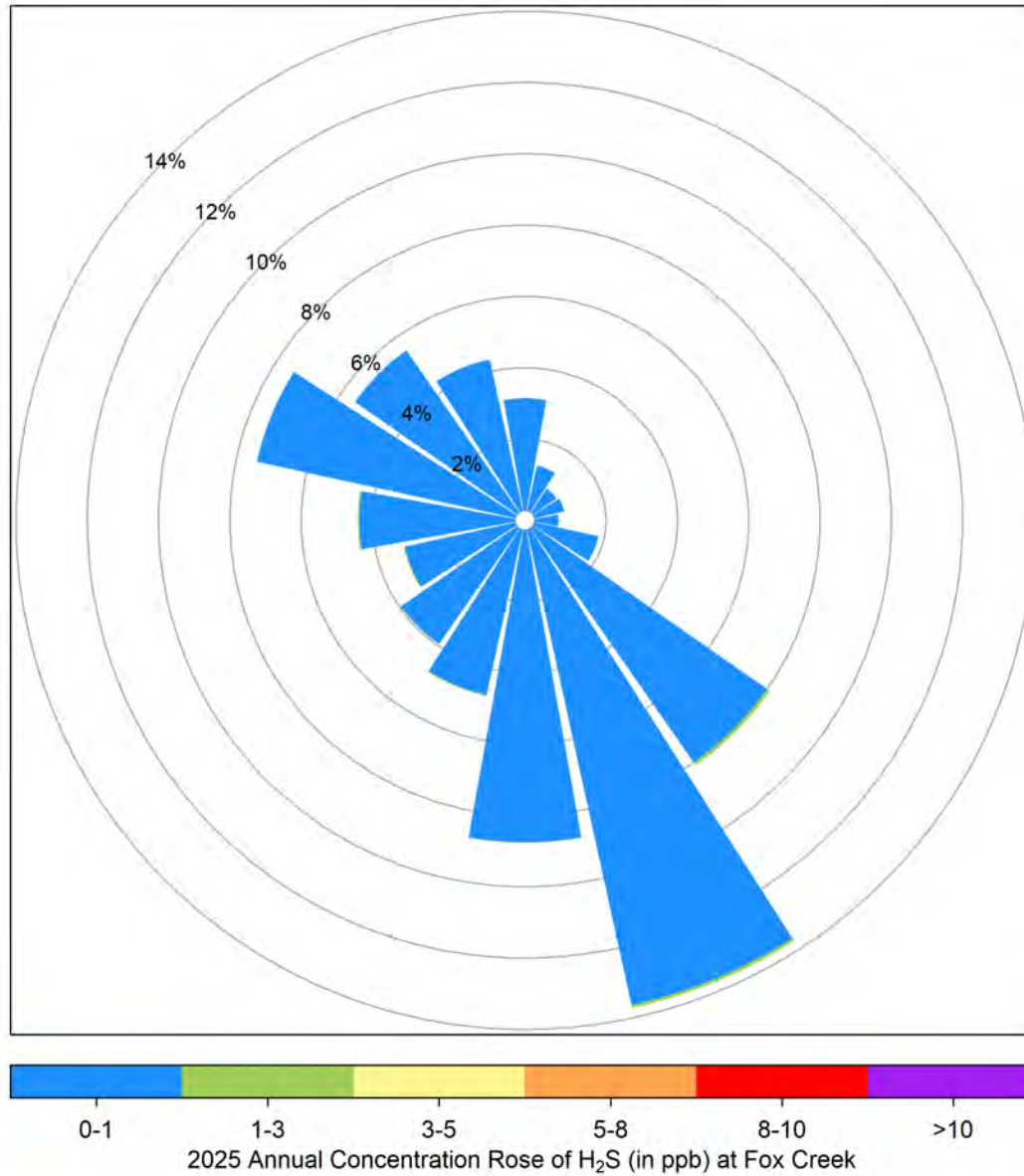
AAAQO Objectives: 24-Hr: 3ppb, 1-Hr: 10ppb

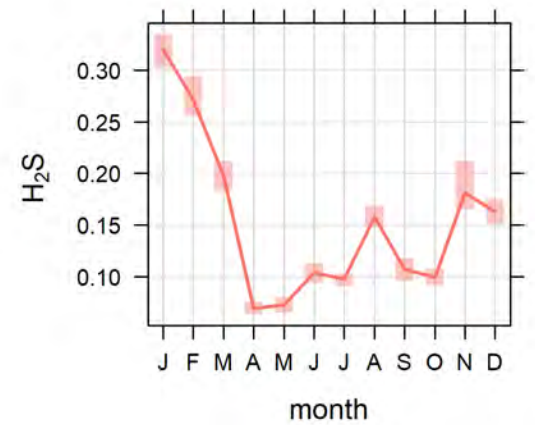
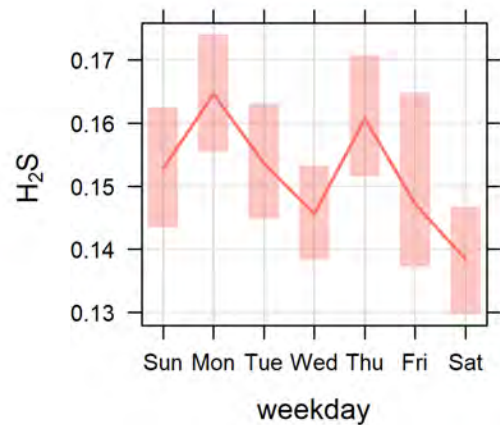
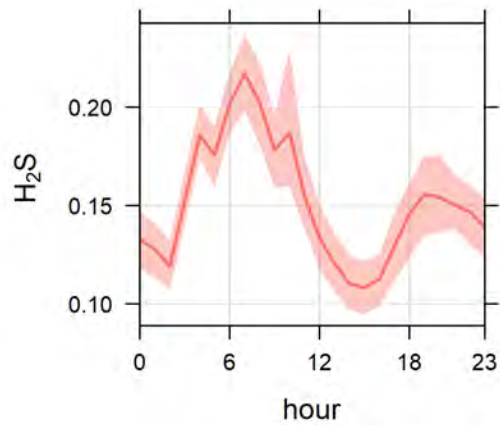
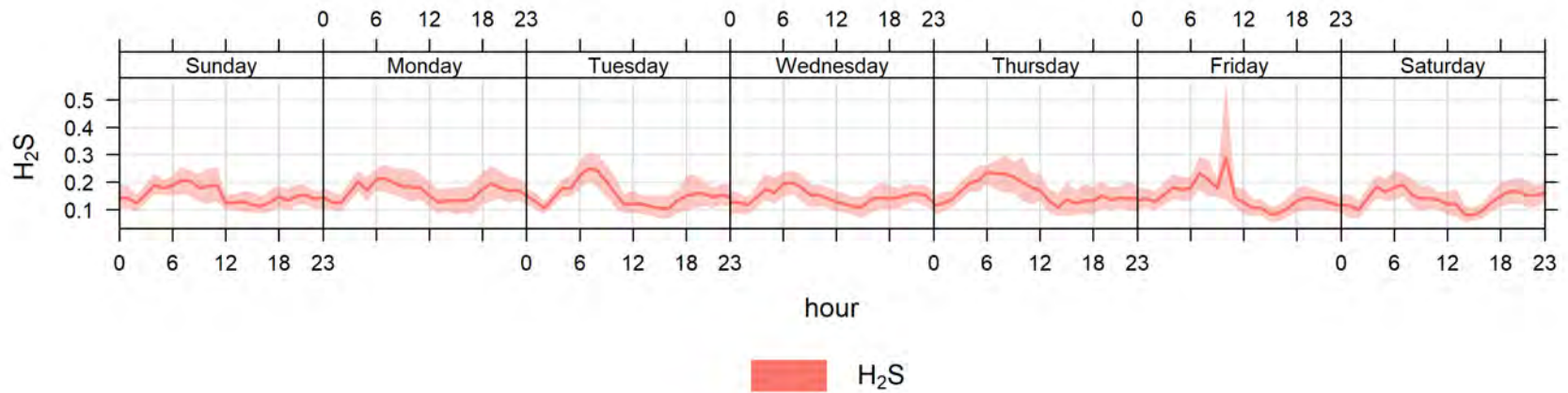
2025 Hourly Concentration Readings of H₂S (in ppb) at Fox Creek



2025 Daily Concentration Readings of H₂S (in ppb) at Fox Creek

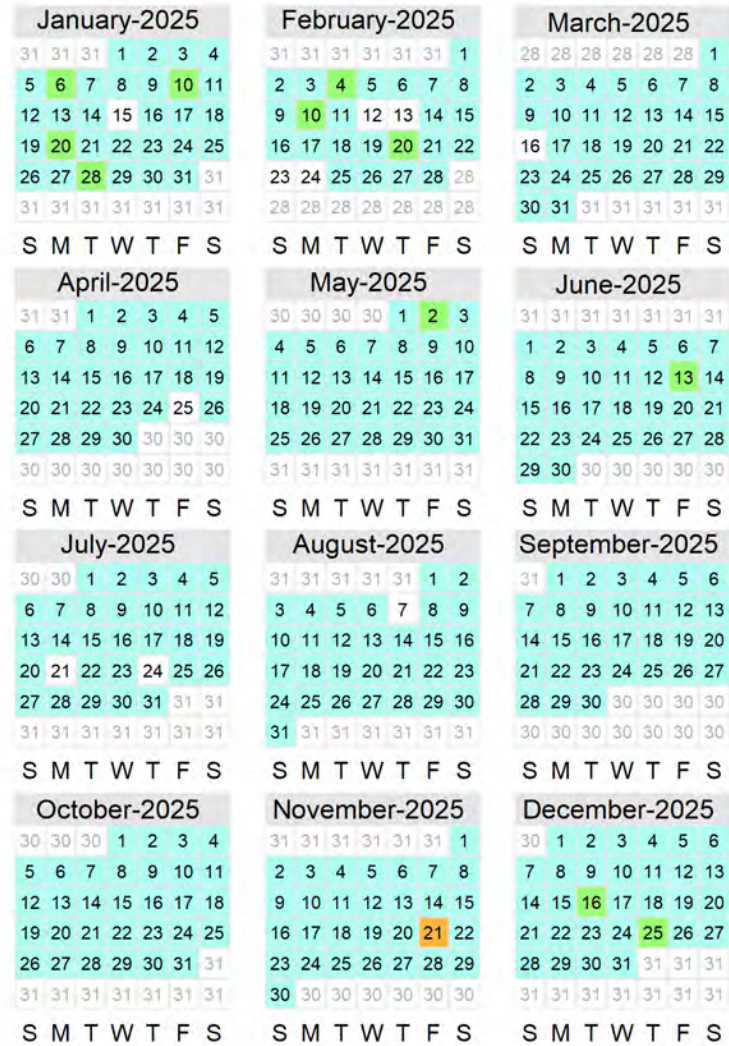






mean and 95% confidence interval in mean

Hourly Maximum H₂S (in ppb) for 2025 at Fox Creek



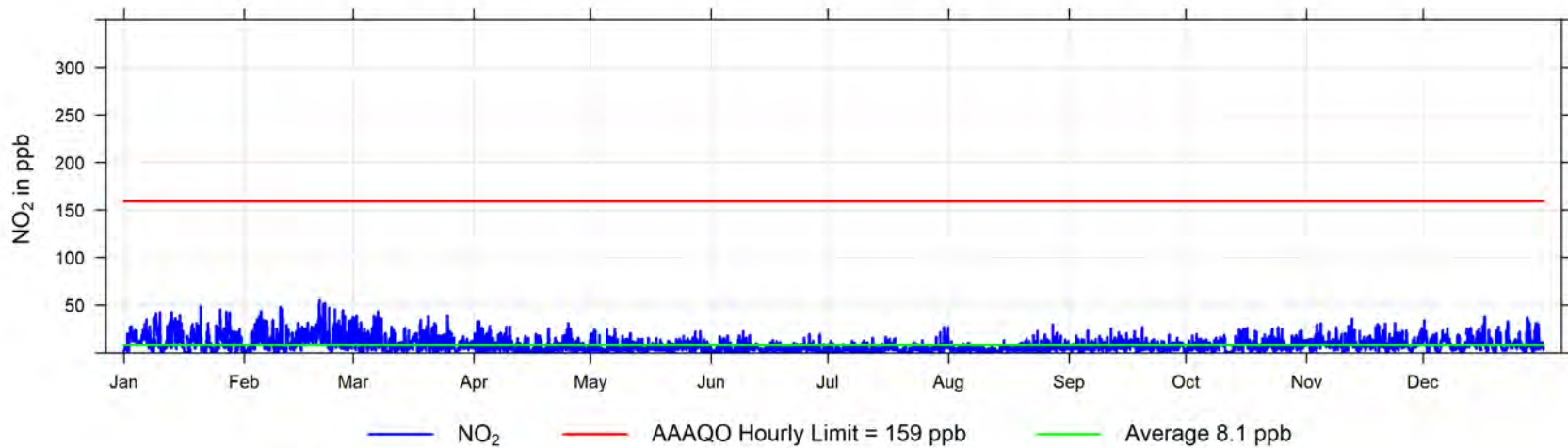
5.4 Nitrogen Dioxide (NO₂) - Fox Creek 2025 Summary

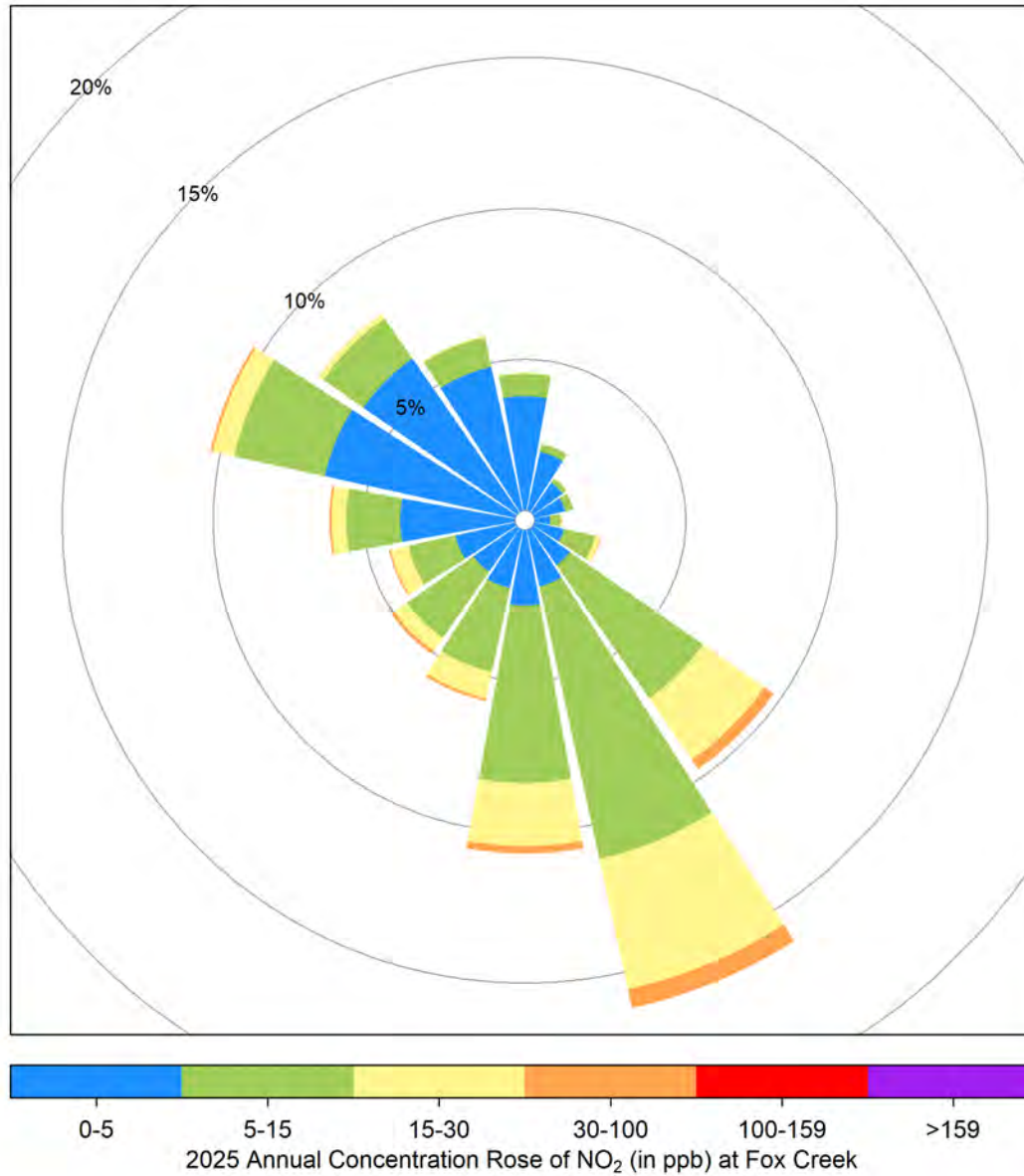
Nitrogen Dioxide (NO₂) Frequency Distribution at Fox Creek

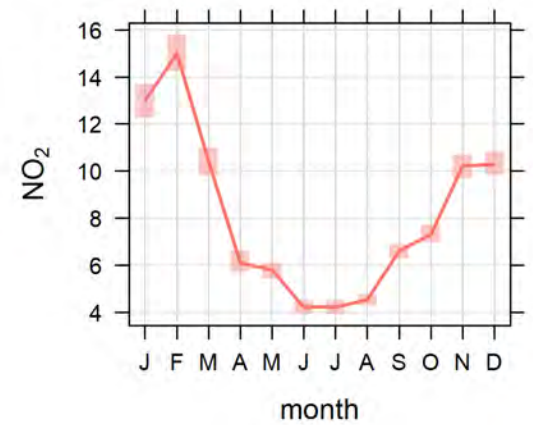
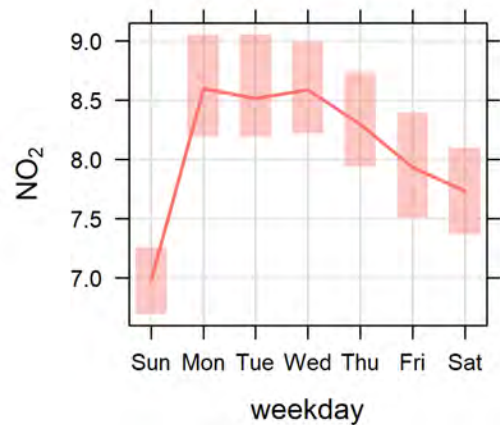
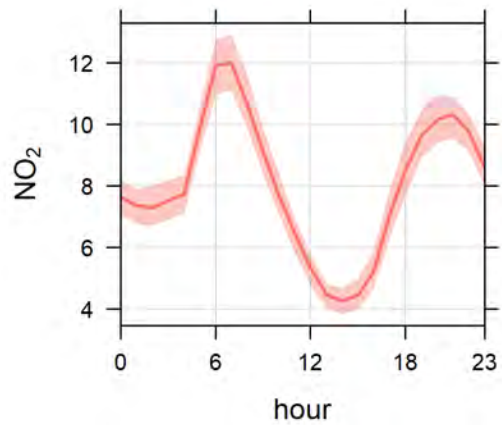
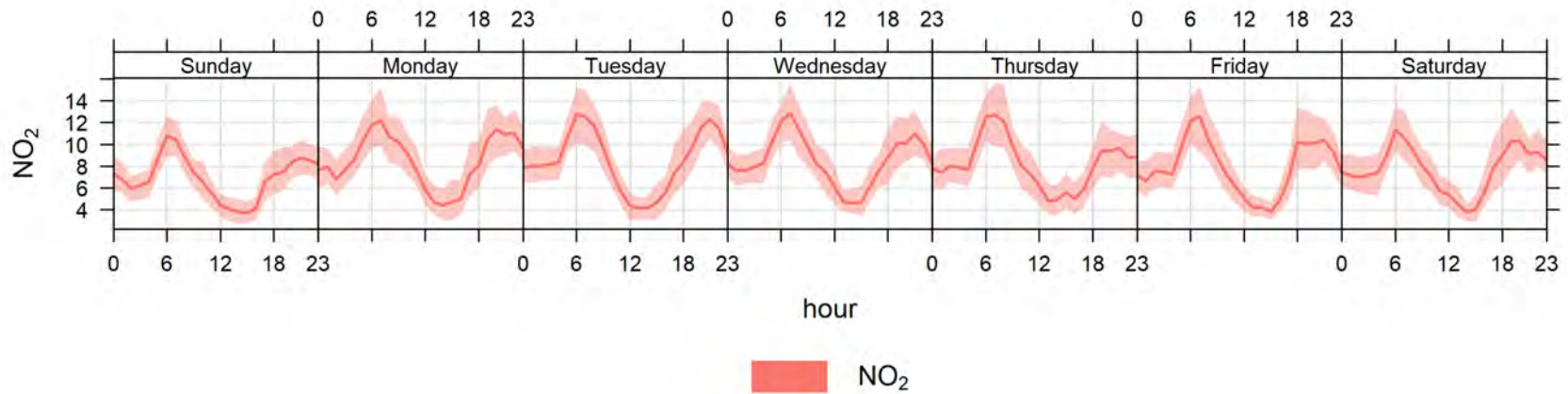
Month	Valid Hours	% of Readings in Concentration Range						Monthly Average (ppb)	MAXIMUM VALUES				Operational time (%)	Valid time (%)	Reportable Incidents 1-hr 159 ppb
		0 to 5 (ppb)	5 to 15 (ppb)	15 to 30 (ppb)	30 to 100 (ppb)	100 to 159 (ppb)	> 159 (ppb)		24-hr (ppb)	Date	1-hr (ppb)	Date			
January 2025	697	25.1%	36.9%	32.4%	5.6%	0.0%	0.0%	13.0	22.6	Jan 09	49.3	Jan 20 17:00	98.7%	93.7%	0
February 2025	635	23.3%	33.1%	33.7%	9.9%	0.0%	0.0%	15.0	26.3	Feb 20	55.7	Feb 20 08:00	99.6%	94.5%	0
March 2025	705	34.9%	39.7%	21.3%	4.1%	0.0%	0.0%	10.4	19.9	Mar 01	43.9	Mar 07 07:00	99.9%	94.8%	0
April 2025	685	58.8%	29.9%	10.8%	0.4%	0.0%	0.0%	6.1	10.9	Apr 25	32.9	Apr 02 07:00	100.0%	95.1%	0
May 2025	708	54.8%	40.4%	4.8%	0.0%	0.0%	0.0%	5.8	8.6	May 28	25.2	May 07 05:00	100.0%	95.2%	0
June 2025	685	68.0%	29.9%	2.0%	0.0%	0.0%	0.0%	4.2	7.3	Jun 08	22.7	Jun 09 06:00	100.0%	95.1%	0
July 2025	698	70.5%	27.2%	2.3%	0.0%	0.0%	0.0%	4.2	11.7	Jul 31	27.4	Jul 30 21:00	99.2%	93.8%	0
August 2025	706	67.0%	31.6%	1.4%	0.0%	0.0%	0.0%	4.5	8.2	Aug 28	29.6	Aug 27 20:00	99.9%	94.9%	0
September 2025	684	40.9%	55.0%	4.1%	0.0%	0.0%	0.0%	6.6	8.7	Sep 13	27.0	Sep 19 19:00	100.0%	95.0%	0
October 2025	705	41.0%	49.9%	9.1%	0.0%	0.0%	0.0%	7.3	14.0	Oct 16	26.9	Oct 24 18:00	99.6%	94.8%	0
November 2025	686	21.0%	59.0%	19.1%	0.9%	0.0%	0.0%	10.2	18.3	Nov 12	35.9	Nov 12 17:00	100.0%	95.3%	0
December 2025	707	30.3%	46.1%	22.2%	1.4%	0.0%	0.0%	10.2	18.0	Dec 16	38.0	Dec 16 20:00	100.0%	95.0%	0
Annual	8301	44.6%	39.9%	13.6%	1.9%	0.0%	0.0%	8.1	26.3	MAXIMUM VALUES		99.7%	94.8%	0	

AAAQO Objectives: Annual: 24ppb, 1-Hr: 159ppb

2025 Hourly Concentration Readings of NO₂ (in ppb) at Fox Creek

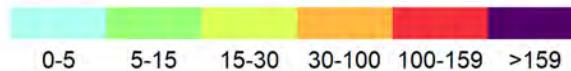
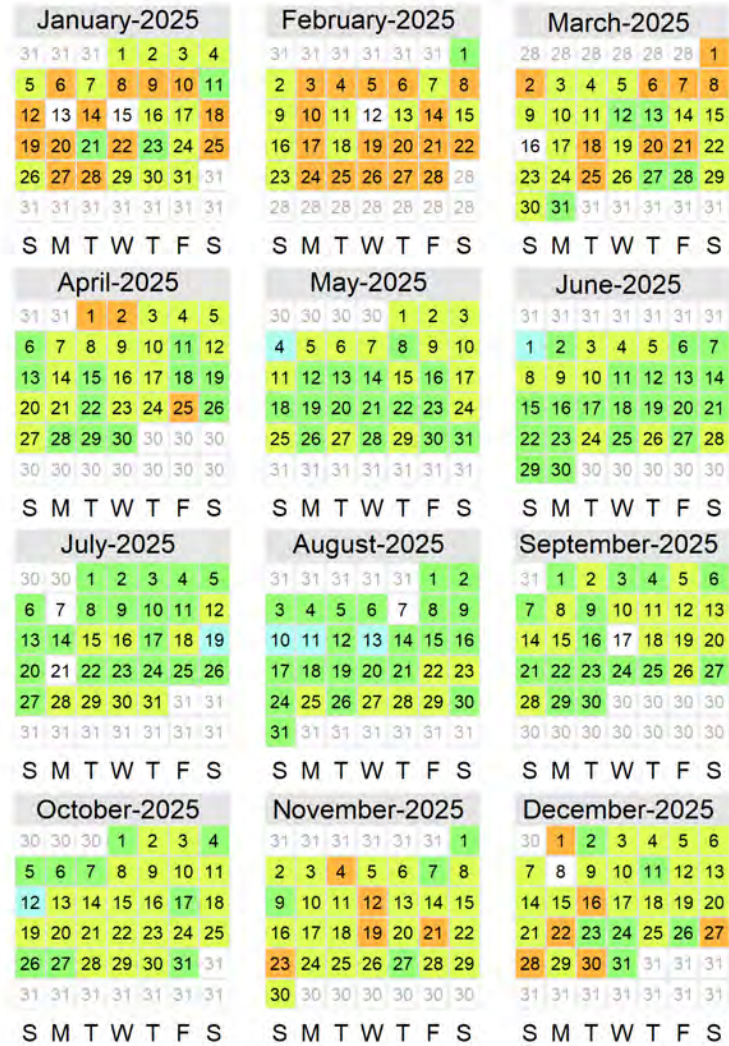






mean and 95% confidence interval in mean

Hourly Maximum NO₂ (in ppb) for 2025 at Fox Creek



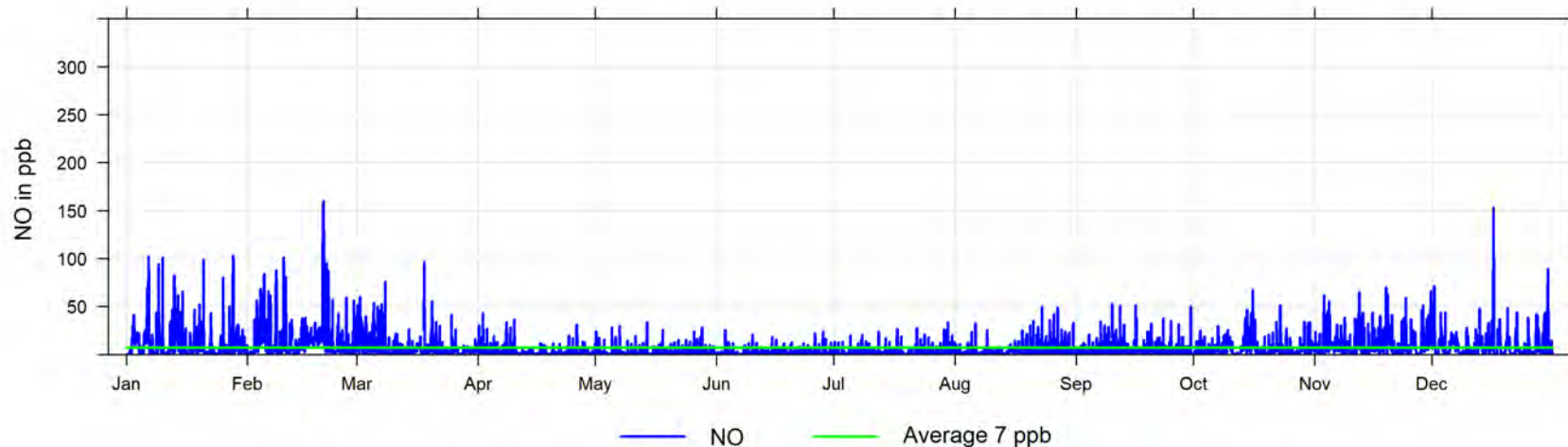
5.5 Nitric Oxide (NO) - Fox Creek 2025 Summary

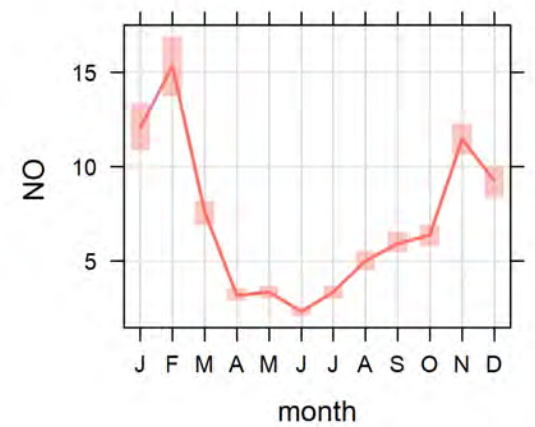
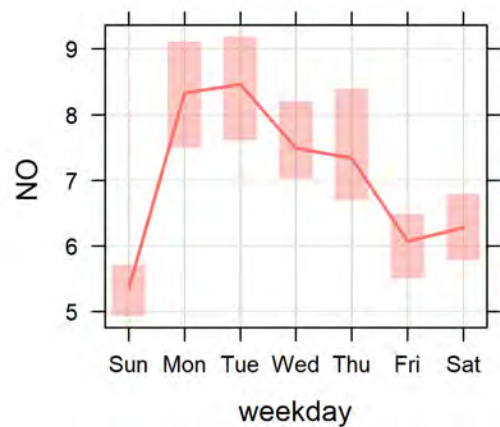
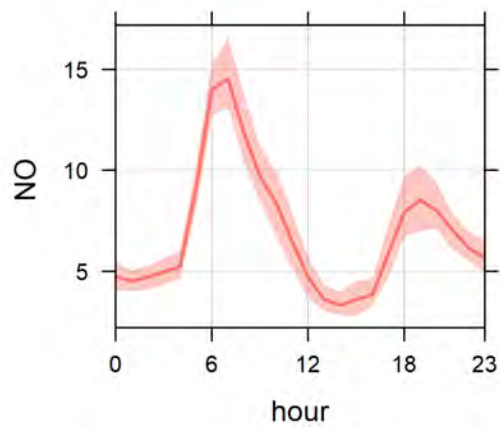
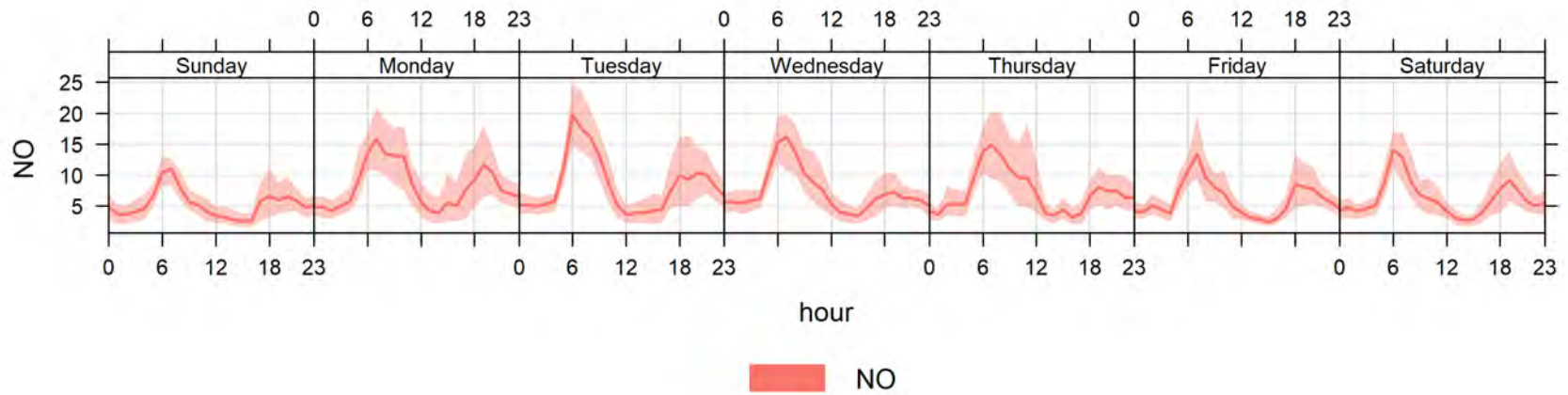
Nitric Oxide (NO) Frequency Distribution at Fox Creek

Month	Valid Hours	% of Readings in Concentration Range						Monthly Average (ppb)	MAXIMUM VALUES				Operational time (%)	Valid time (%)
		0 to 5 (ppb)	5 to 15 (ppb)	15 to 30 (ppb)	30 to 100 (ppb)	100 to 159 (ppb)	> 159 (ppb)		24-hr (ppb)	Date	1-hr (ppb)	Date		
January 2025	697	53.2%	19.4%	17.2%	9.8%	0.4%	0.0%	12.0	45.9	Jan 06	102.7	Jan 28 08:00	98.7%	93.7%
February 2025	635	39.8%	26.1%	20.3%	12.6%	0.9%	0.2%	15.4	50.9	Feb 20	159.8	Feb 20 11:00	99.6%	94.5%
March 2025	705	62.7%	22.0%	10.4%	5.0%	0.0%	0.0%	7.6	19.9	Mar 01	96.6	Mar 18 06:00	99.9%	94.8%
April 2025	685	81.6%	14.3%	3.2%	0.9%	0.0%	0.0%	3.2	7.9	Apr 08	43.1	Apr 02 06:00	100.0%	95.1%
May 2025	708	80.5%	15.8%	3.2%	0.4%	0.0%	0.0%	3.3	7.2	May 28	33.3	May 14 06:00	100.0%	95.2%
June 2025	685	86.9%	11.7%	1.5%	0.0%	0.0%	0.0%	2.3	4.6	Jun 18	25.3	Jun 03 06:00	100.0%	95.1%
July 2025	698	78.9%	17.6%	3.3%	0.1%	0.0%	0.0%	3.3	6.8	Jul 31	33.7	Jul 30 06:00	99.2%	93.8%
August 2025	706	70.0%	22.7%	5.4%	2.0%	0.0%	0.0%	5.0	10.8	Aug 27	49.8	Aug 23 06:00	99.9%	94.9%
September 2025	684	63.2%	27.9%	6.4%	2.5%	0.0%	0.0%	5.9	12.1	Sep 10	52.7	Sep 10 06:00	100.0%	95.0%
October 2025	705	59.3%	29.2%	8.8%	2.7%	0.0%	0.0%	6.4	17.3	Oct 16	67.2	Oct 16 05:00	99.6%	94.8%
November 2025	686	36.9%	37.2%	17.1%	8.9%	0.0%	0.0%	11.5	25.5	Nov 19	69.9	Nov 19 07:00	100.0%	95.3%
December 2025	707	52.2%	26.4%	16.1%	5.0%	0.3%	0.0%	9.2	29.2	Dec 30	153.1	Dec 16 19:00	100.0%	95.0%
Annual	8301	63.8%	22.5%	9.4%	4.1%	0.1%	0.0%	7.0	MAXIMUM VALUES				99.7%	94.8%

AAAQO Objectives: none

2025 Hourly Concentration Readings of NO (in ppb) at Fox Creek





mean and 95% confidence interval in mean

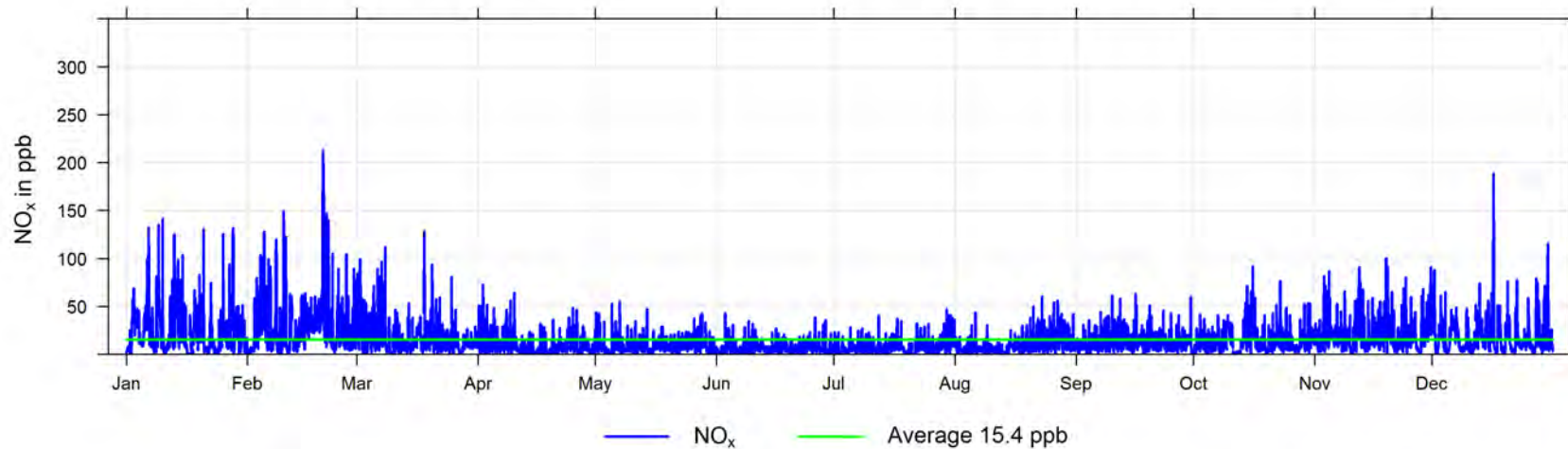
5.6 Oxides of Nitrogen (NO_x) - Fox Creek 2025 Summary

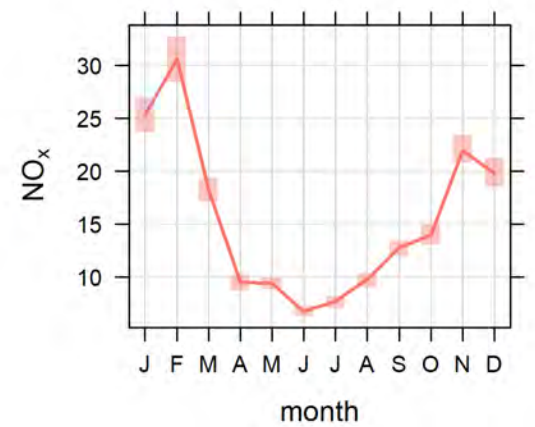
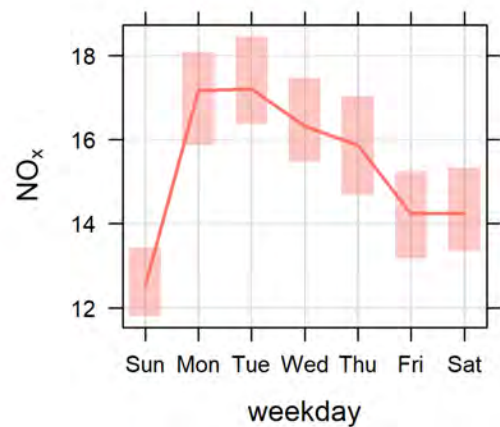
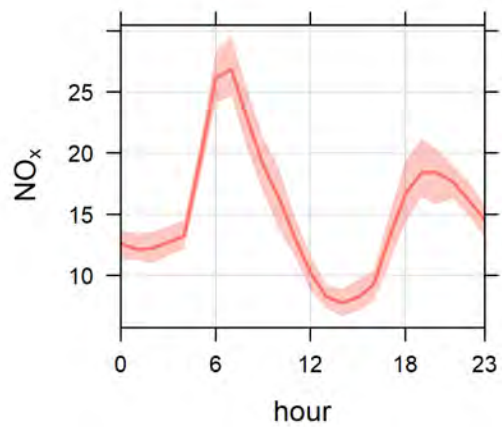
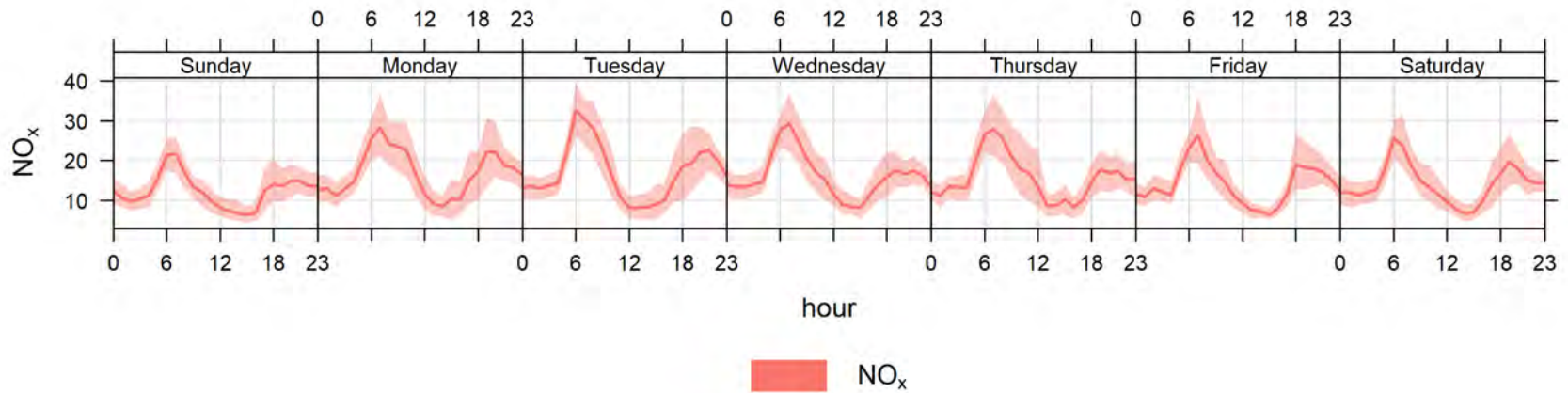
Nitrogen Oxides (NO_x) Frequency Distribution at Fox Creek

Month	Valid Hours	% of Readings in Concentration Range						Monthly Average (ppb)	MAXIMUM VALUES				Operational time (%)	Valid time (%)
		0 to 5 (ppb)	5 to 15 (ppb)	15 to 30 (ppb)	30 to 100 (ppb)	100 to 159 (ppb)	> 159 (ppb)		24-hr (ppb)	Date	1-hr (ppb)	Date		
January 2025	697	19.1%	29.1%	19.4%	29.4%	3.0%	0.0%	25.3	68.3	Jan 06	141.4	Jan 10 08:00	98.7%	93.7%
February 2025	635	13.9%	23.0%	23.0%	36.4%	3.0%	0.8%	30.6	77.4	Feb 20	212.6	Feb 20 08:00	99.6%	94.5%
March 2025	705	24.0%	35.0%	20.3%	20.4%	0.3%	0.0%	18.2	40.1	Mar 01	128.2	Mar 18 06:00	99.9%	94.8%
April 2025	685	50.8%	27.3%	15.8%	6.1%	0.0%	0.0%	9.5	17.0	Apr 24	72.8	Apr 02 06:00	100.0%	95.1%
May 2025	708	39.3%	41.4%	15.7%	3.7%	0.0%	0.0%	9.4	16.1	May 28	55.1	May 07 05:00	100.0%	95.2%
June 2025	685	52.7%	37.7%	8.5%	1.2%	0.0%	0.0%	6.7	10.9	Jun 24	42.9	Jun 03 06:00	100.0%	95.1%
July 2025	698	47.4%	39.8%	10.7%	2.0%	0.0%	0.0%	7.7	18.8	Jul 31	47.1	Jul 29 21:00	99.2%	93.8%
August 2025	706	36.8%	44.9%	13.0%	5.2%	0.0%	0.0%	9.8	18.9	Aug 27	60.2	Aug 23 06:00	99.9%	94.9%
September 2025	684	21.3%	48.0%	24.1%	6.6%	0.0%	0.0%	12.8	19.2	Sep 16	63.4	Sep 16 06:00	100.0%	95.0%
October 2025	705	26.7%	37.2%	25.4%	10.8%	0.0%	0.0%	14.0	31.6	Oct 16	91.9	Oct 16 05:00	99.6%	94.8%
November 2025	686	13.7%	27.8%	34.0%	24.3%	0.1%	0.0%	22.0	41.3	Nov 19	100.3	Nov 19 07:00	100.0%	95.3%
December 2025	707	23.2%	30.0%	23.9%	22.1%	0.7%	0.1%	19.7	47.0	Dec 16	188.6	Dec 16 19:00	100.0%	95.0%
Annual	8301	30.7%	35.1%	19.5%	14.0%	0.6%	0.1%	15.4	MAXIMUM VALUES				99.7%	94.8%

AAAQO Objectives: none

2025 Hourly Concentration Readings of NO_x (in ppb) at Fox Creek





mean and 95% confidence interval in mean

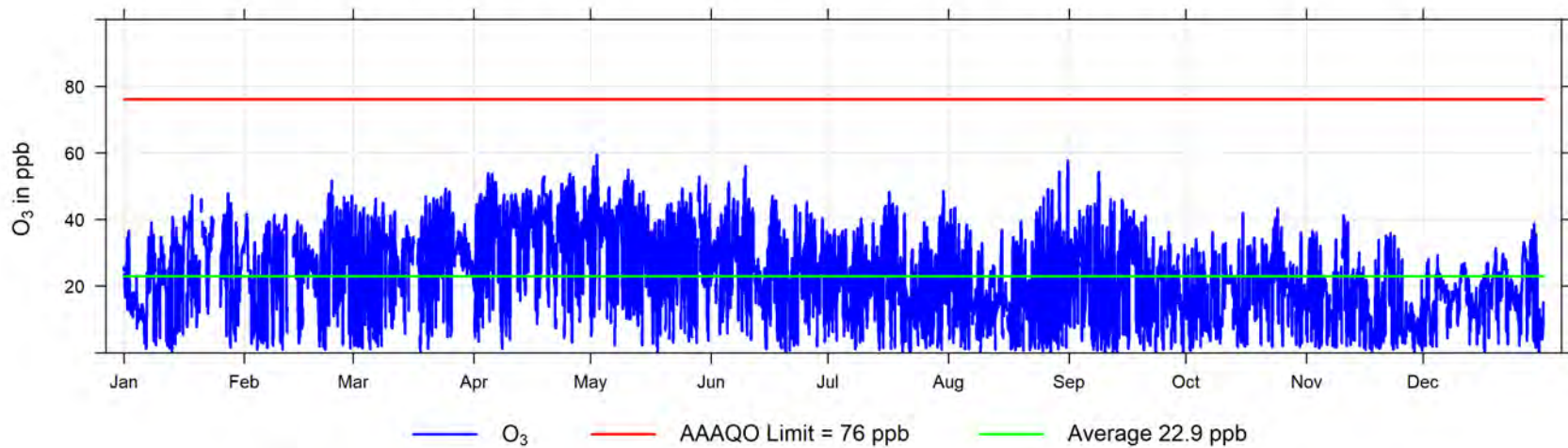
5.7 Ozone (O₃) - Fox Creek 2025 Summary

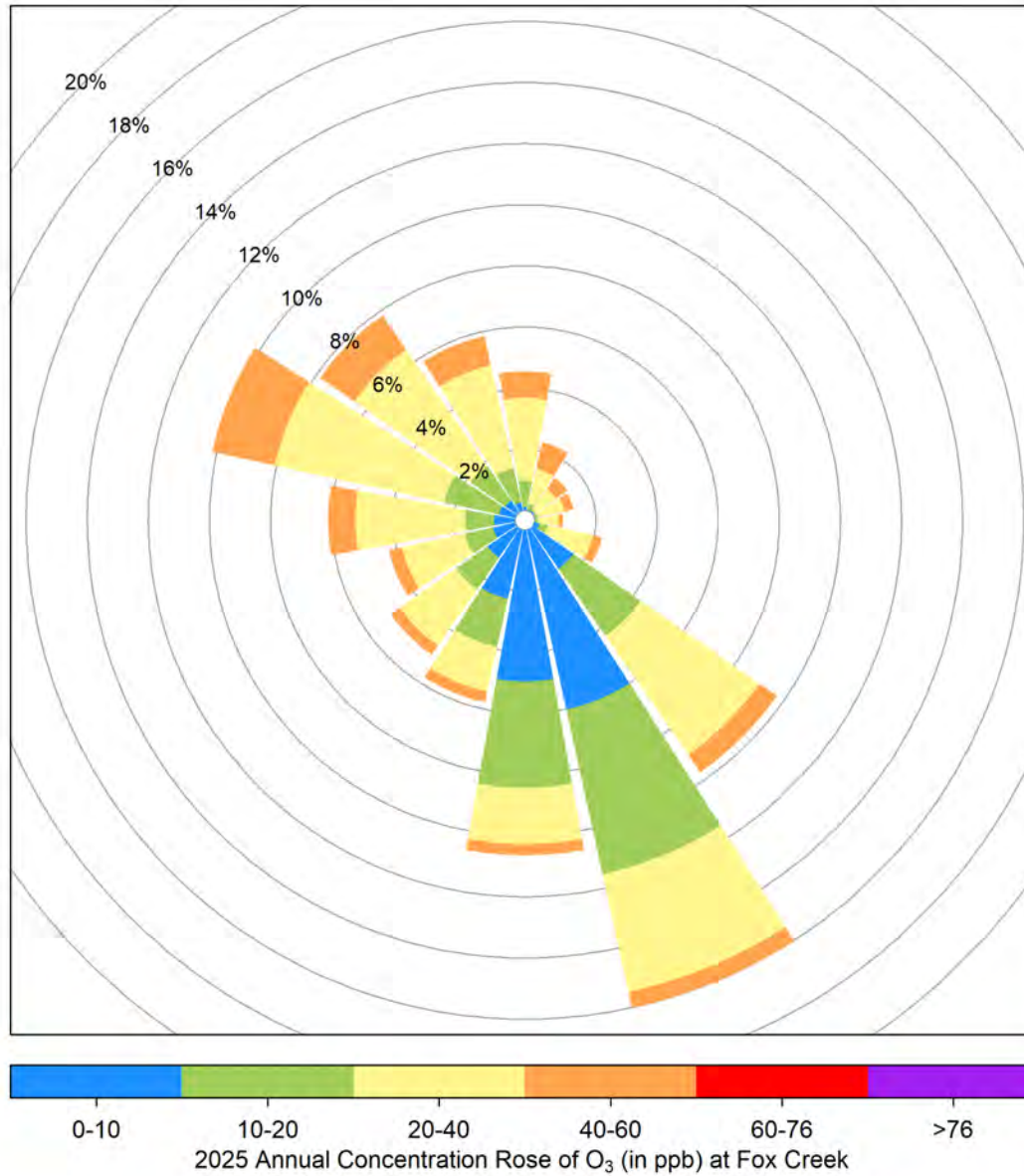
Ozone (O₃) Frequency Distribution at Fox Creek

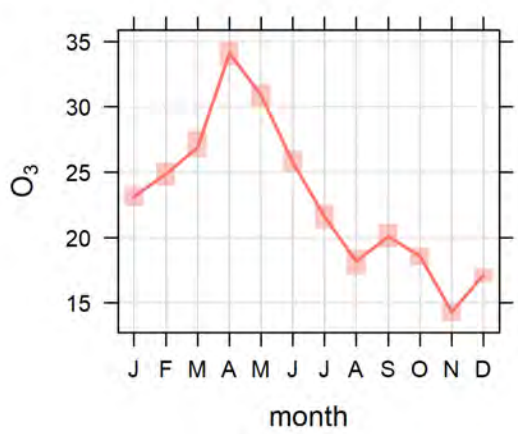
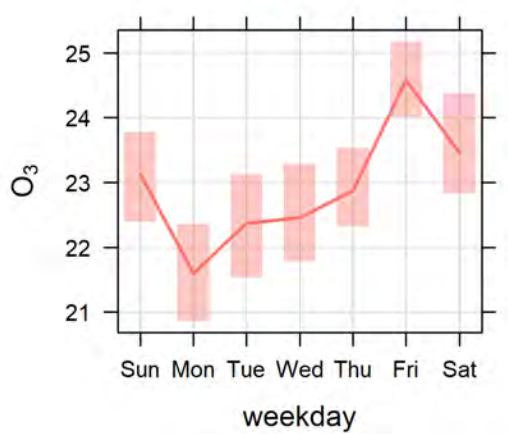
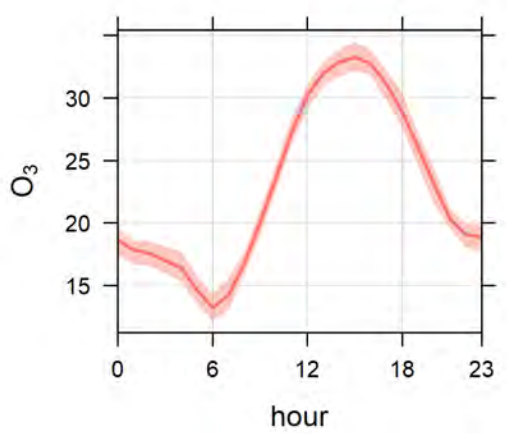
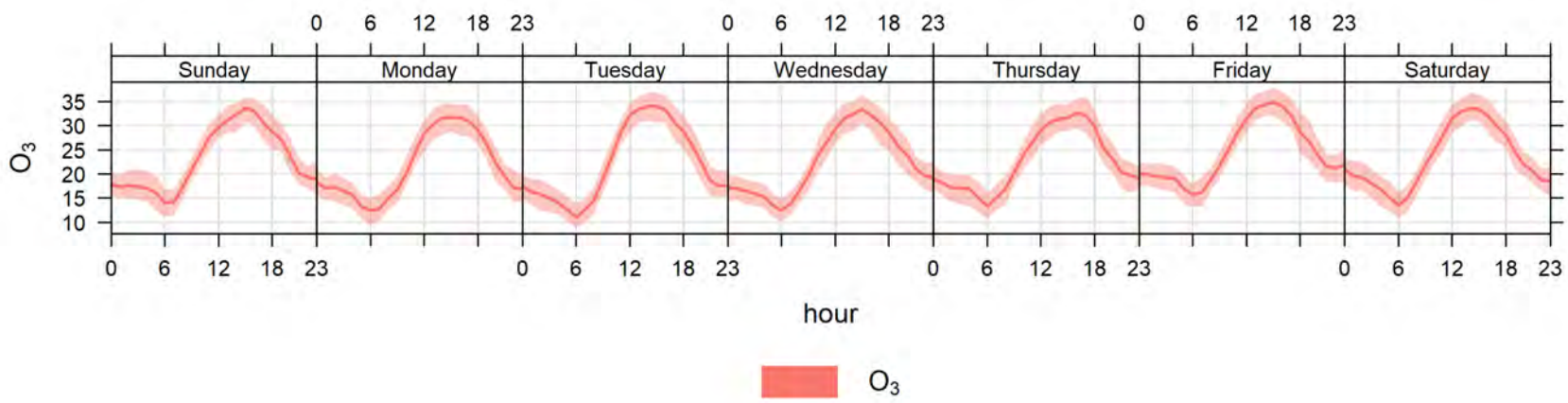
Month	Valid Hours	% of Readings in Concentration Range						Monthly Average (ppb)	MAXIMUM VALUES				Operational time (%)	Valid time (%)	Reportable Incidents 1-hr 76 ppb
		0 to 10 (ppb)	10 to 20 (ppb)	20 to 40 (ppb)	40 to 60 (ppb)	60 to 76 (ppb)	> 76 (ppb)		24-hr (ppb)	Date	1-hr (ppb)	Date			
January 2025	658	14.6%	26.9%	53.0%	5.5%	0.0%	0.0%	23.1	36.7	Jan 21	47.9	Jan 27 18:00	93.0%	88.4%	0
February 2025	608	18.1%	16.9%	54.8%	10.2%	0.0%	0.0%	24.9	36.6	Feb 27	51.6	Feb 23 11:00	94.9%	90.5%	0
March 2025	693	14.7%	13.0%	57.3%	15.0%	0.0%	0.0%	26.9	34.8	Mar 24	49.2	Mar 24 19:00	97.9%	93.2%	0
April 2025	686	5.8%	13.8%	38.0%	42.3%	0.0%	0.0%	34.1	42.8	Apr 11	54.0	Apr 04 16:00	100.0%	95.3%	0
May 2025	710	9.2%	16.9%	41.4%	32.5%	0.0%	0.0%	30.9	43.1	May 02	59.4	May 02 15:00	100.0%	95.4%	0
June 2025	686	13.1%	20.7%	50.9%	15.3%	0.0%	0.0%	25.7	40.7	Jun 09	56.1	Jun 09 19:00	100.0%	95.3%	0
July 2025	702	20.9%	23.2%	50.0%	5.8%	0.0%	0.0%	21.6	31.3	Jul 16	48.6	Jul 30 17:00	99.2%	94.4%	0
August 2025	705	32.5%	29.8%	32.1%	5.7%	0.0%	0.0%	18.2	25.4	Aug 02	57.7	Aug 31 15:00	99.5%	94.8%	0
September 2025	687	29.1%	21.3%	43.4%	6.3%	0.0%	0.0%	20.1	32.4	Sep 17	54.3	Sep 08 15:00	100.0%	95.4%	0
October 2025	706	24.2%	27.2%	47.6%	1.0%	0.0%	0.0%	18.6	29.2	Oct 24	43.2	Oct 24 15:00	99.6%	94.9%	0
November 2025	686	42.3%	30.8%	26.2%	0.7%	0.0%	0.0%	14.3	30.5	Nov 10	41.2	Nov 10 14:00	100.0%	95.3%	0
December 2025	709	19.0%	45.3%	35.7%	0.0%	0.0%	0.0%	17.1	25.3	Dec 21	38.8	Dec 29 13:00	100.0%	95.3%	0
Annual	8236	20.3%	23.8%	44.2%	11.7%	0.0%	0.0%	22.9	43.1	MAXIMUM VALUES		98.7%	94.0%	0	

AAAQO Objectives: 1-Hr: 76ppb

2025 Hourly Concentration Readings of O₃ (in ppb) at Fox Creek

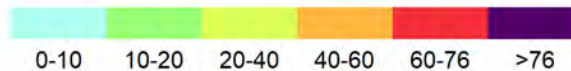
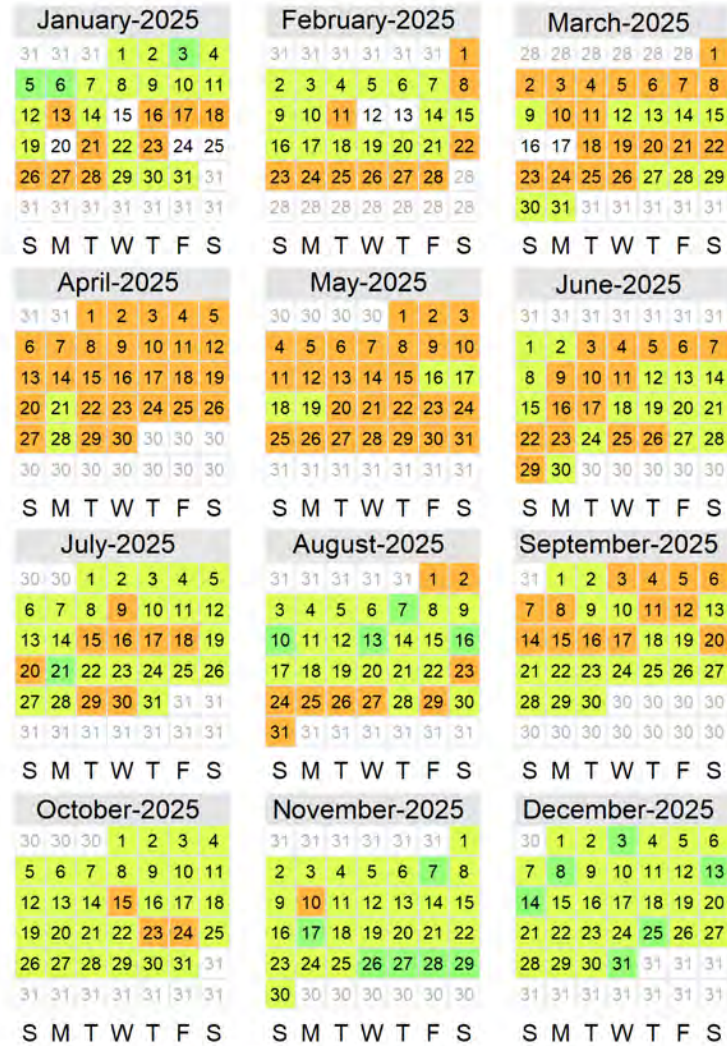






mean and 95% confidence interval in mean

Hourly Maximum O₃ (in ppb) for 2025 at Fox Creek



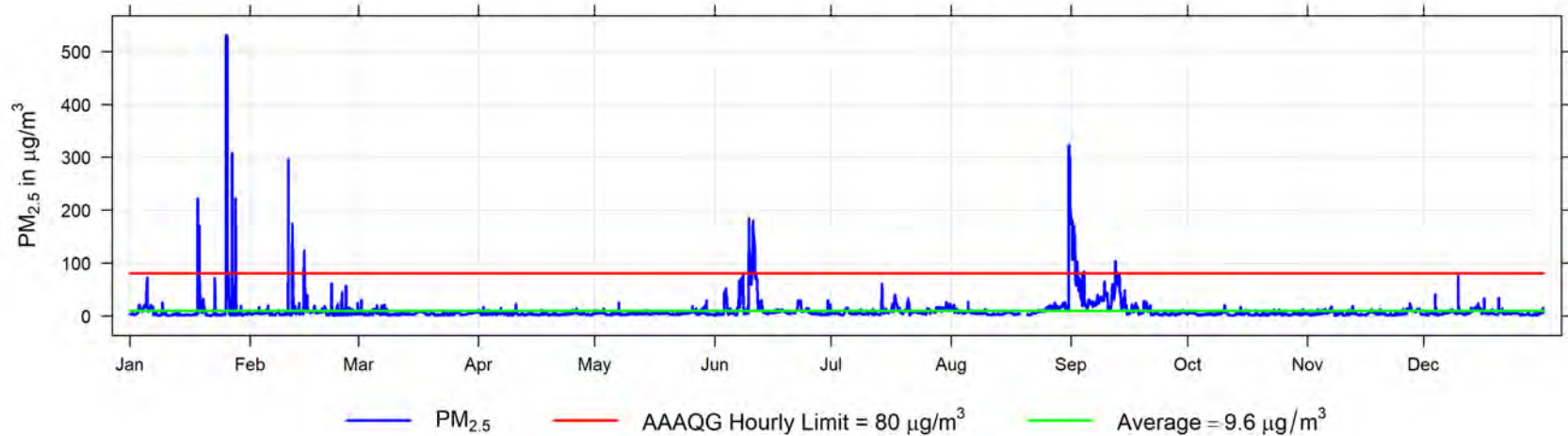
5.8 Particulate Matter (PM_{2.5}) - Fox Creek 2025 Summary

Particulate Matter (PM_{2.5}) Frequency Distribution at Fox Creek

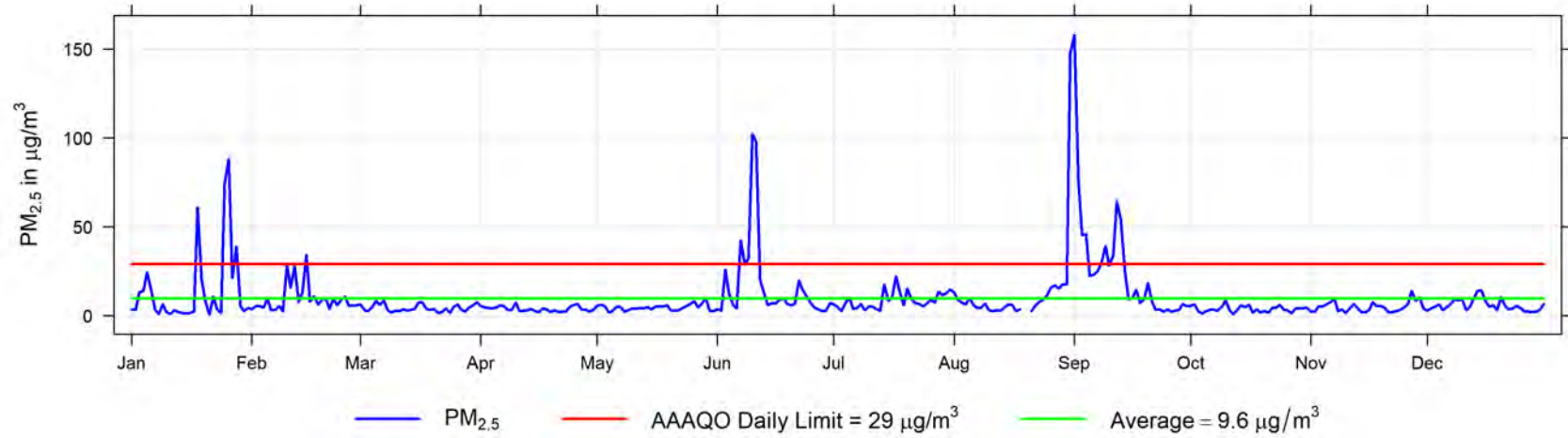
Month	Valid Hours	% of Readings in Concentration Range						Monthly Average (µg/m ³)	MAXIMUM VALUES				Operational time (%)	Valid time (%)	Reportable Incidents	
		0 to 5 (µg/m ³)	5 to 15 (µg/m ³)	15 to 30 (µg/m ³)	30 to 50 (µg/m ³)	50 to 80 (µg/m ³)	> 80 (µg/m ³)		24-hr (µg/m ³)	Date	1-hr (µg/m ³)	Date			24-hr 29 µg/m ³	1-hr 80 µg/m ³
January 2025	734	67.8%	16.2%	8.2%	1.9%	2.5%	3.4%	14.4	82.6	Jan 25	530.5	Jan 25 21:00	98.8%	98.7%	4	25
February 2025	670	47.8%	42.2%	4.8%	2.7%	0.9%	1.6%	9.7	30.8	Feb 15	296.0	Feb 10 22:00	100.0%	99.7%	1	11
March 2025	742	65.8%	32.9%	1.2%	0.1%	0.0%	0.0%	4.4	8.4	Mar 05	30.8	Mar 01 19:00	100.0%	99.7%	0	0
April 2025	718	76.9%	22.7%	0.4%	0.0%	0.0%	0.0%	3.8	7.5	Apr 10	23.3	Apr 10 16:00	100.0%	99.7%	0	0
May 2025	743	65.0%	33.9%	1.1%	0.0%	0.0%	0.0%	4.7	9.9	May 29	29.4	May 29 20:00	100.0%	99.9%	0	0
June 2025	718	33.6%	43.5%	9.2%	3.5%	6.3%	4.0%	17.5	104.5	Jun 10	185.6	Jun 09 20:00	100.0%	99.7%	4	29
July 2025	742	29.9%	59.0%	9.0%	1.8%	0.3%	0.0%	8.5	22.9	Jul 17	60.8	Jul 14 04:00	99.9%	99.7%	0	0
August 2025	696	35.1%	49.3%	13.4%	0.0%	0.0%	2.3%	13.1	154.7	Aug 31	323.5	Aug 31 10:00	93.7%	93.6%	1	16
September 2025	718	30.5%	17.7%	25.2%	11.6%	9.3%	5.7%	25.8	155.3	Sep 01	181.8	Sep 01 05:00	100.0%	99.7%	9	41
October 2025	739	74.6%	25.2%	0.3%	0.0%	0.0%	0.0%	3.8	8.4	Oct 10	20.7	Oct 10 16:00	99.6%	99.3%	0	0
November 2025	719	59.4%	39.2%	1.4%	0.0%	0.0%	0.0%	5.0	13.9	Nov 27	23.5	Nov 27 11:00	100.0%	99.9%	0	0
December 2025	742	57.7%	37.7%	3.8%	0.7%	0.1%	0.0%	5.8	14.3	Dec 14	75.6	Dec 09 22:00	100.0%	99.7%	0	0
Annual	8681	53.7%	35.0%	6.5%	1.8%	1.6%	1.4%	9.6	155.3	Sep 01	530.5	Jan 25 21:00	99.3%	99.1%	19	122

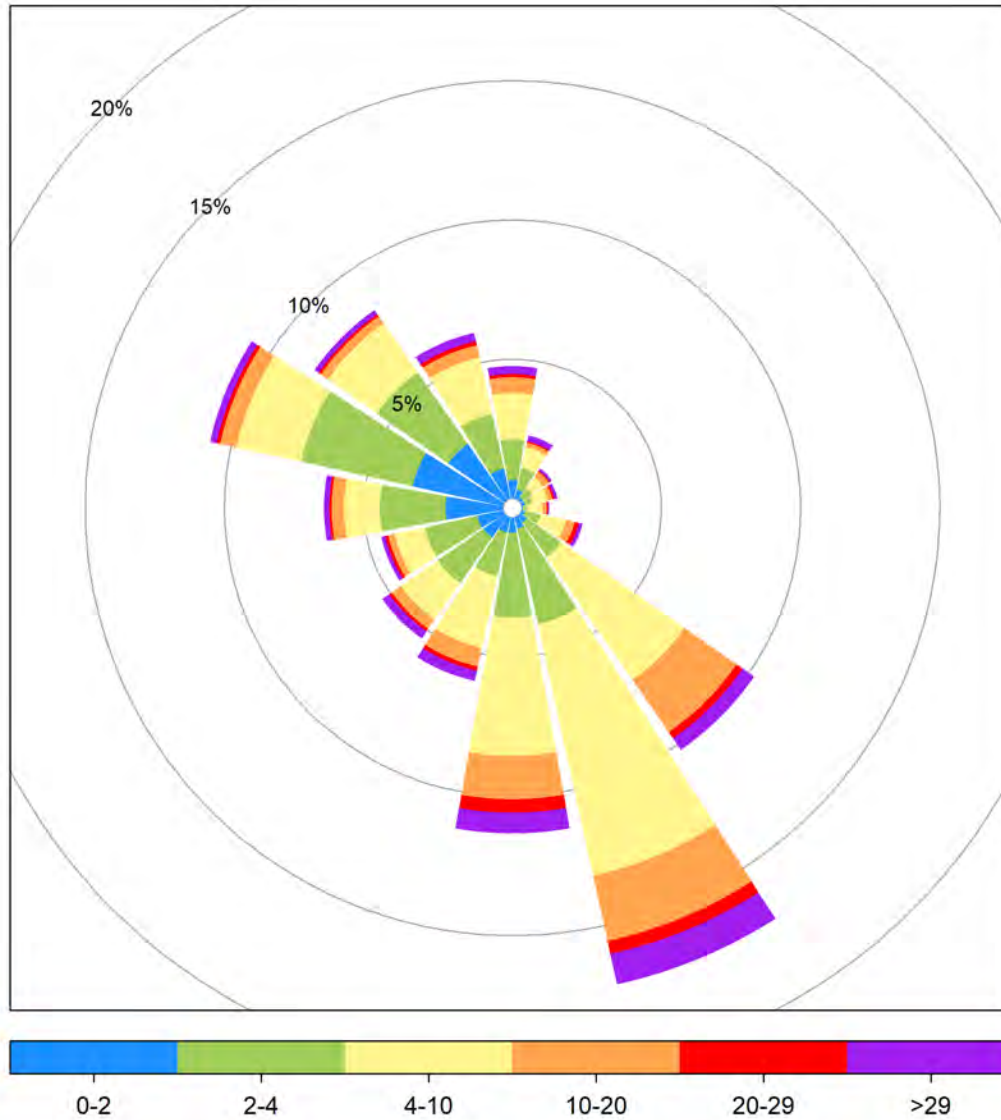
AAAQO Objectives: 24-Hr: 29 µg/m³, AAAQG Guideline: 1-Hr: 80 µg/m³

2025 Hourly Concentration Readings of PM_{2.5} in µg/m³ at Fox Creek

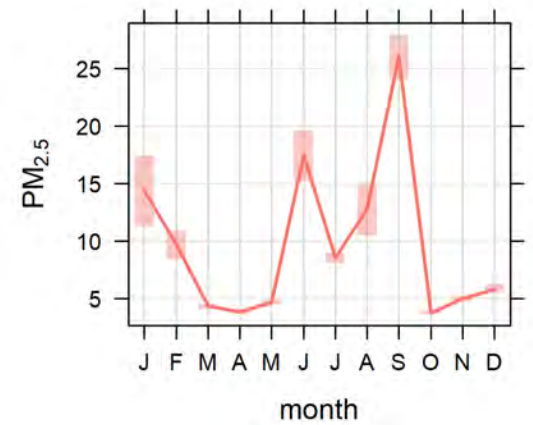
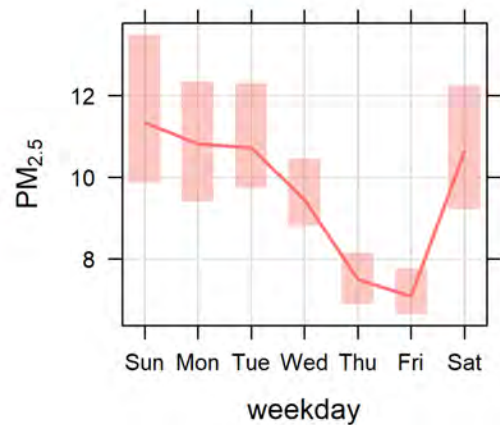
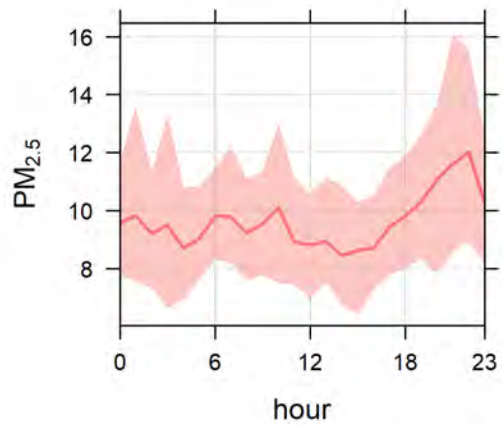
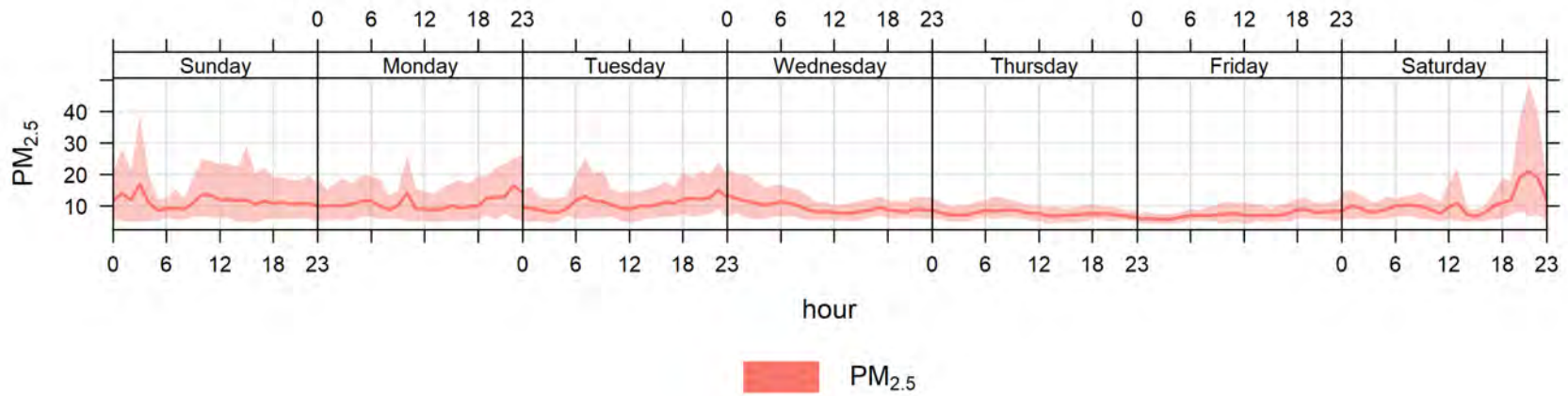


2025 Daily Concentration Readings of PM_{2.5} in $\mu\text{g}/\text{m}^3$ at Fox Creek



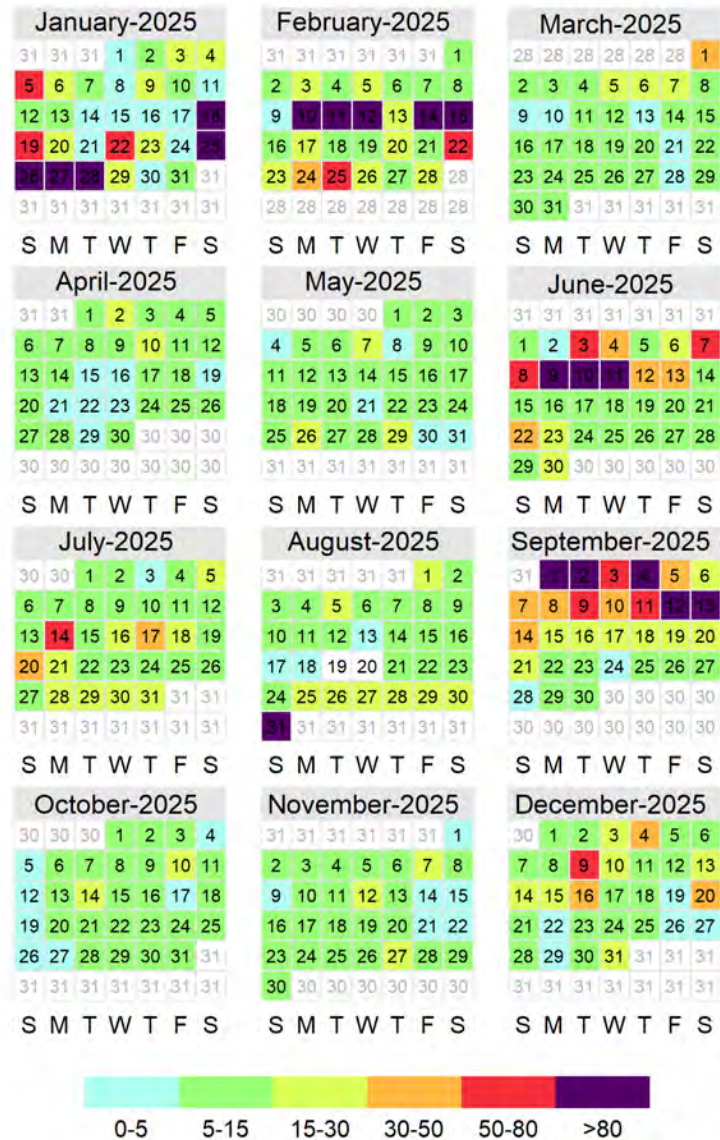


2025 Annual Concentration Readings of PM_{2.5} in µg/m³ at Fox Creek



mean and 95% confidence interval in mean

Hourly Maximum PM_{2.5} (in µg/m³) for 2025 at Fox Creek

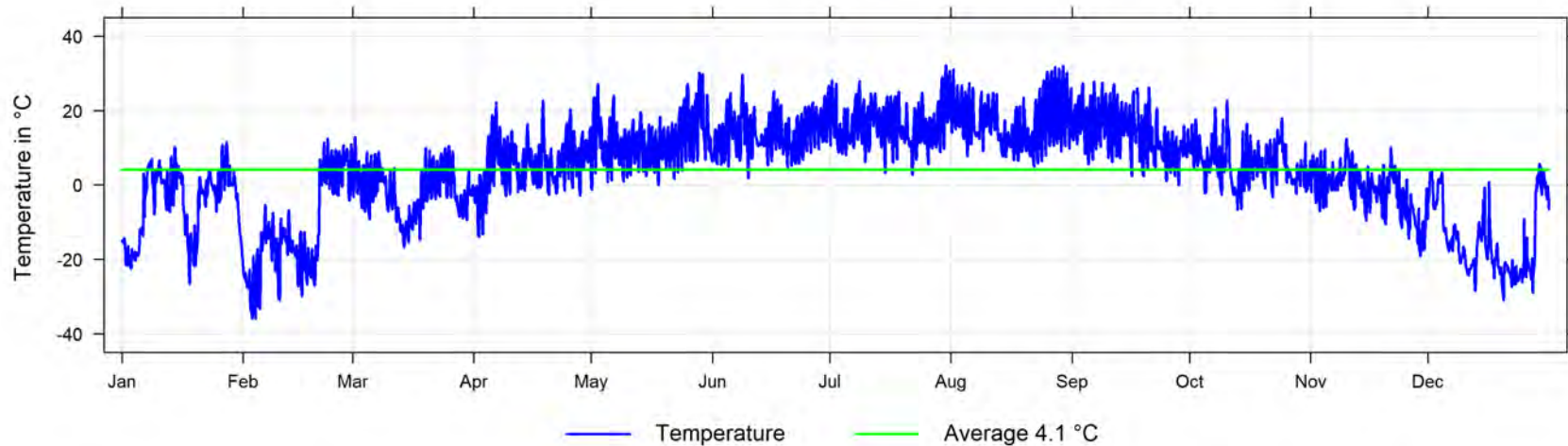


5.9 Temperature (ET) - Fox Creek 2025 Summary

Temperature (ET) Frequency Distribution at Fox Creek

Month	Valid Hours	Monthly Average (°C)	Maximum Values			Minimum Values			Operational time (%)	Valid time (%)			
			24-hr (°C)	Date	1-hr (°C)	Date	24-hr (°C)	Date			1-hr (°C)	Date	
January 2025	737	-5.1	6.1	Jan 27	11.5	Jan 27 18:00	-20.2	Jan 03	-26.5	Jan 18 08:00	99.1%	99.1%	
February 2025	672	-12.5	6.9	Feb 27	12.5	Feb 22 15:00	-29.7	Feb 03	-36.0	Feb 04 04:00	100.0%	100.0%	
March 2025	744	-1.9	4.9	Mar 24	13.0	Mar 01 15:00	-12.9	Mar 14	-16.7	Mar 14 02:00	100.0%	100.0%	
April 2025	720	5.7	11.9	Apr 25	22.7	Apr 18 16:00	-4.3	Apr 02	-14.0	Apr 02 06:00	100.0%	100.0%	
May 2025	744	12.2	21.0	May 28	30.2	May 28 17:00	8.3	May 04	-1.3	May 01 05:00	100.0%	100.0%	
June 2025	720	14.1	19.6	Jun 08	29.6	Jun 08 17:00	9.3	Jun 01	1.8	Jun 10 05:00	100.0%	100.0%	
July 2025	744	16.3	23.2	Jul 31	32.2	Jul 30 18:00	11.0	Jul 21	2.7	Jul 22 04:00	100.0%	100.0%	
August 2025	744	16.7	21.3	Aug 01	32.1	Aug 29 16:00	10.8	Aug 21	5.0	Aug 22 06:00	100.0%	100.0%	
September 2025	718	13.8	20.4	Sep 03	27.8	Sep 06 15:00	7.1	Sep 28	-0.1	Sep 28 06:00	100.0%	99.7%	
October 2025	741	5.6	12.7	Oct 10	22.7	Oct 10 16:00	-1.9	Oct 12	-6.7	Oct 13 08:00	99.6%	99.6%	
November 2025	720	-1.9	7.5	Nov 10	12.4	Nov 10 04:00	-15.3	Nov 29	-19.1	Nov 29 01:00	100.0%	100.0%	
December 2025	744	-14.8	2.3	Dec 29	5.7	Dec 29 13:00	-24.9	Dec 20	-31.0	Dec 20 08:00	100.0%	100.0%	
		AVERAGE	MAXIMUM VALUES			MINIMUM VALUES							
		8748	4.1	23.2	Jul 31	32.2	Jul 30 18:00	-29.7	Feb 03	-36.0	Feb 04 04:00	99.9%	99.9%

2025 Hourly Temperature Readings (in °C) at Fox Creek

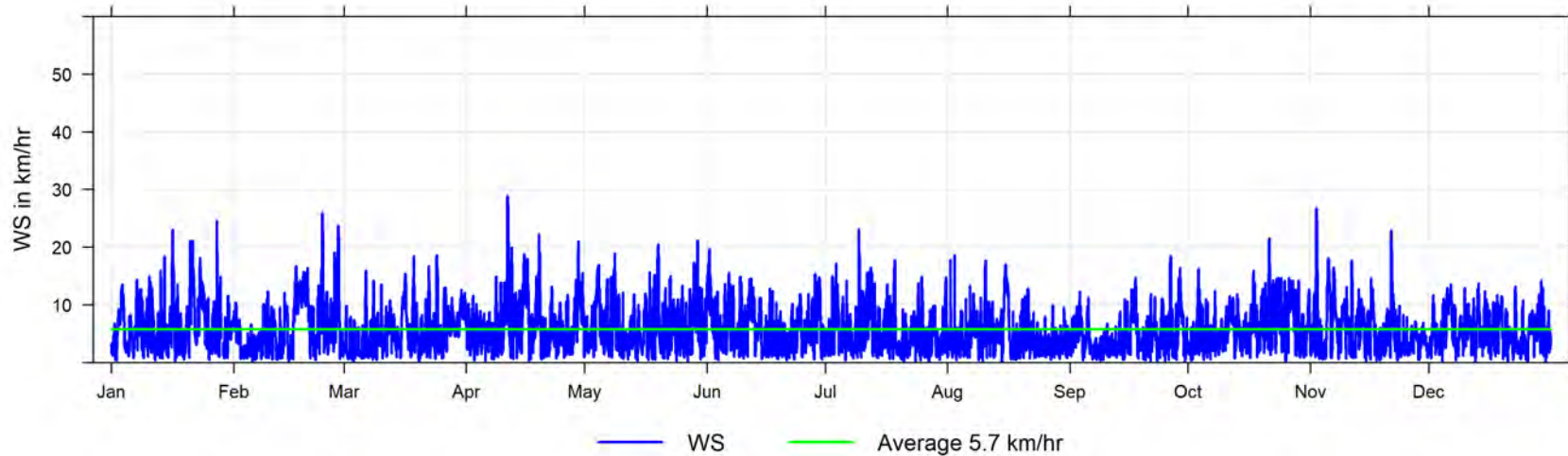


5.10 Wind Speed and Wind Direction (WS and WD) - Fox Creek 2025 Summary

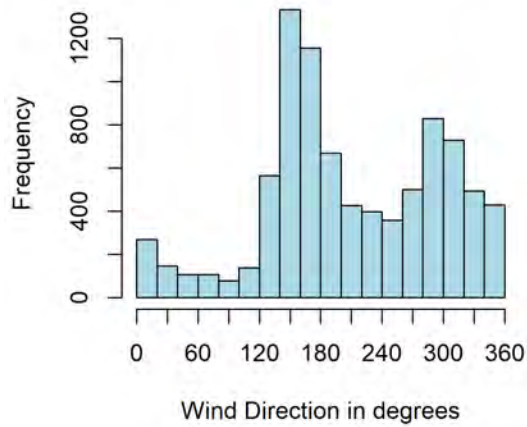
Wind Speed Frequency Distribution at Fox Creek

Month	Valid Hours	% of Readings in Concentration Range						Monthly Average (km/hr)	MAXIMUM VALUES				Operational time (%)	Valid time (%)	
		Calm	0.5 to 5 (km/hr)	5 to 11 (km/hr)	11 to 19 (km/hr)	19 to 28 (km/hr)	>28 (km/hr)		24-hr (km/hr)	Date	1-hr (km/hr)	Date			
January 2025	727	0.8%	43.3%	40.0%	14.6%	1.2%	0.0%	6.5	15.0	Jan 21	24.5	Jan 27 18:00	97.7%	97.7%	
February 2025	672	1.0%	50.3%	33.5%	13.1%	2.1%	0.0%	6.1	12.6	Feb 19	25.9	Feb 23 12:00	100.0%	100.0%	
March 2025	744	0.4%	49.2%	41.3%	9.1%	0.0%	0.0%	5.5	11.1	Mar 16	18.6	Mar 24 14:00	100.0%	100.0%	
April 2025	720	0.4%	44.0%	39.7%	13.9%	1.8%	0.1%	6.6	14.8	Apr 11	28.9	Apr 11 11:00	100.0%	100.0%	
May 2025	744	0.8%	47.7%	38.2%	12.6%	0.7%	0.0%	6.2	12.9	May 04	21.2	May 29 15:00	100.0%	100.0%	
June 2025	720	0.3%	47.8%	37.6%	13.9%	0.4%	0.0%	6.0	13.8	Jun 01	19.7	Jun 01 16:00	100.0%	100.0%	
July 2025	744	0.9%	55.6%	32.0%	11.0%	0.4%	0.0%	5.5	10.9	Jul 12	23.1	Jul 09 12:00	100.0%	100.0%	
August 2025	744	0.8%	62.5%	30.8%	5.9%	0.0%	0.0%	4.7	11.4	Aug 15	18.6	Aug 02 19:00	100.0%	100.0%	
September 2025	718	2.2%	61.6%	31.8%	4.5%	0.0%	0.0%	4.6	9.0	Sep 17	18.4	Sep 26 15:00	100.0%	99.7%	
October 2025	741	0.7%	46.7%	40.5%	11.7%	0.4%	0.0%	6.2	10.5	Oct 21	21.5	Oct 21 14:00	99.6%	99.6%	
November 2025	720	1.1%	57.6%	32.1%	7.6%	1.5%	0.0%	5.4	12.5	Nov 05	26.7	Nov 02 13:00	100.0%	100.0%	
December 2025	744	1.2%	47.7%	45.8%	5.2%	0.0%	0.0%	5.6	10.4	Dec 06	14.2	Dec 29 13:00	100.0%	100.0%	
Annual	8738	0.9%	51.2%	36.9%	10.3%	0.7%	0.0%	5.7	15.0	MAXIMUM VALUES		28.9	Apr 11 11:00	99.8%	99.8%

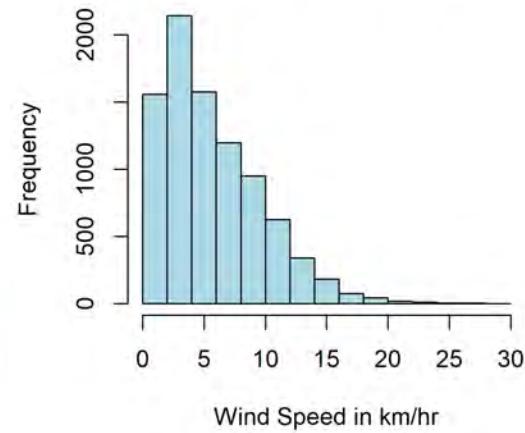
2025 Hourly Readings of Wind Speed (in km/hr) at Fox Creek



2025 Wind Direction Histogram

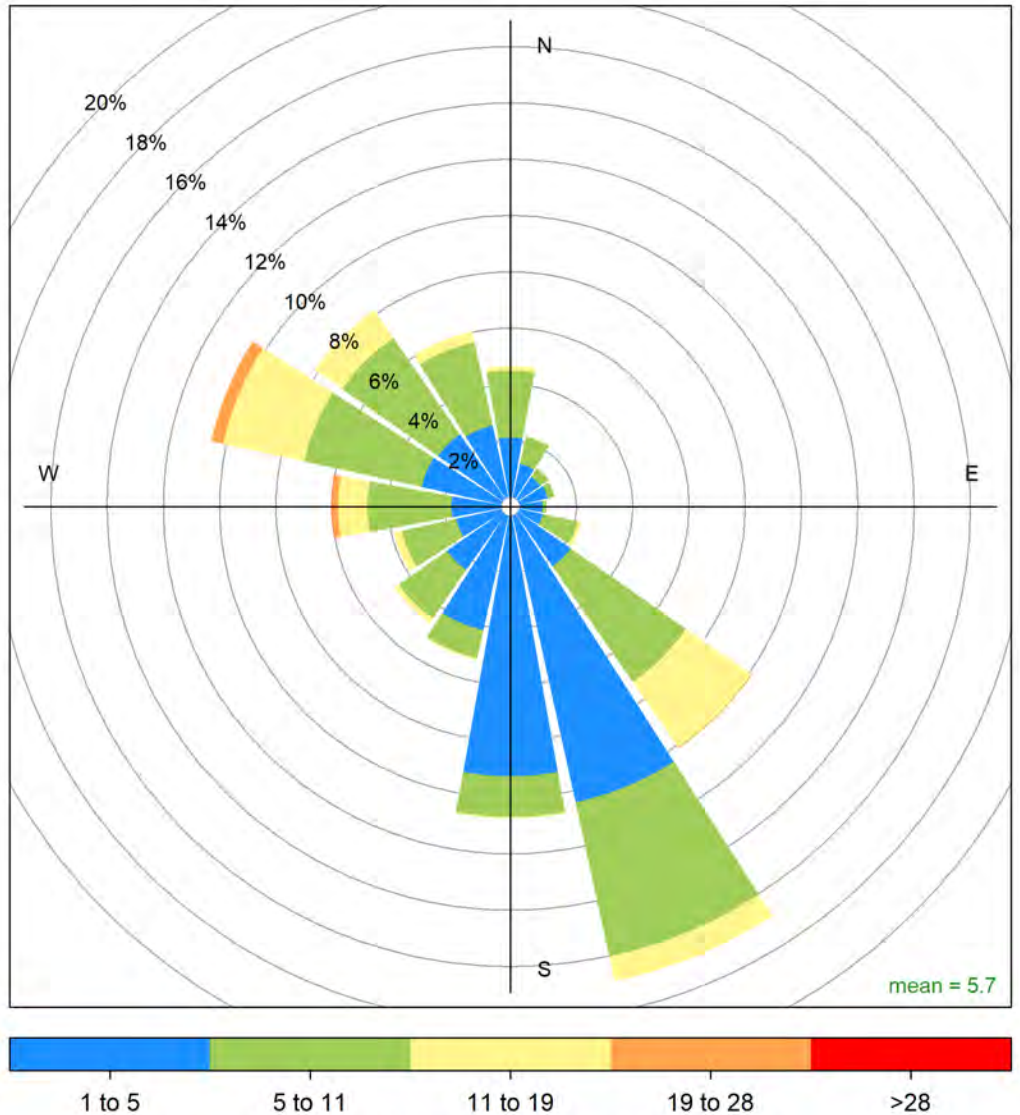


2025 Wind Speed Histogram



Wind Speed and Wind Direction Frequency Distribution at Fox Creek

Direction	Number of Readings	% of wind speed range						Total %
		Calm (<0.5) (km/hr)	0.5 to 5 (km/hr)	5 to 11 (km/hr)	11 to 19 (km/hr)	19 to 28 (km/hr)	>28 (km/hr)	
N	416	0.0%	2.2%	2.4%	0.2%	0.0%	0.0%	4.8%
NNE	204	0.0%	1.3%	1.0%	0.0%	0.0%	0.0%	2.3%
NE	125	0.0%	1.0%	0.4%	0.0%	0.0%	0.0%	1.4%
ENE	118	0.0%	1.1%	0.3%	0.0%	0.0%	0.0%	1.4%
E	88	0.0%	0.8%	0.2%	0.0%	0.0%	0.0%	1.0%
ESE	202	0.0%	0.9%	1.3%	0.1%	0.0%	0.0%	2.3%
SE	903	0.0%	2.4%	5.0%	2.8%	0.0%	0.0%	10.3%
SSE	1512	0.1%	10.7%	5.6%	0.9%	0.0%	0.0%	17.3%
S	1000	0.1%	9.9%	1.4%	0.1%	0.0%	0.0%	11.4%
SSW	530	0.1%	4.9%	1.0%	0.1%	0.0%	0.0%	6.1%
SW	473	0.1%	3.0%	2.1%	0.2%	0.0%	0.0%	5.4%
WSW	395	0.1%	2.1%	2.0%	0.3%	0.0%	0.0%	4.5%
W	564	0.1%	2.1%	3.0%	1.1%	0.2%	0.0%	6.5%
WNW	941	0.0%	3.1%	4.3%	3.0%	0.4%	0.0%	10.8%
NW	732	0.1%	3.0%	4.2%	1.2%	0.0%	0.0%	8.4%
NNW	535	0.0%	2.7%	3.0%	0.4%	0.0%	0.0%	6.1%
Total	8738	0.9%	51.2%	37.0%	10.2%	0.7%	0.0%	100.0%

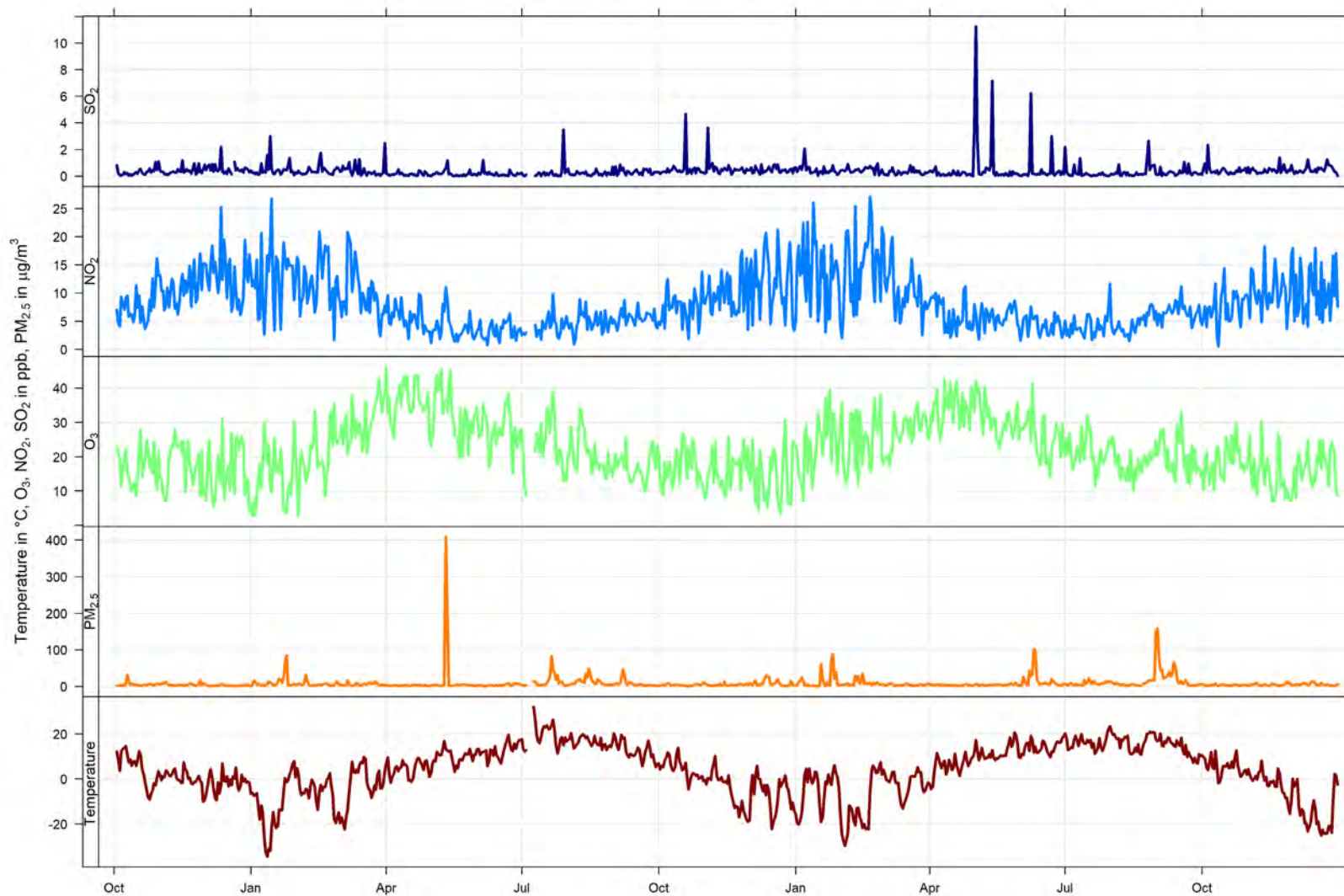


Fox Creek 2025 Wind Rose, wind speed in km/hr
Calms (<1km/hr) = 4.9 %

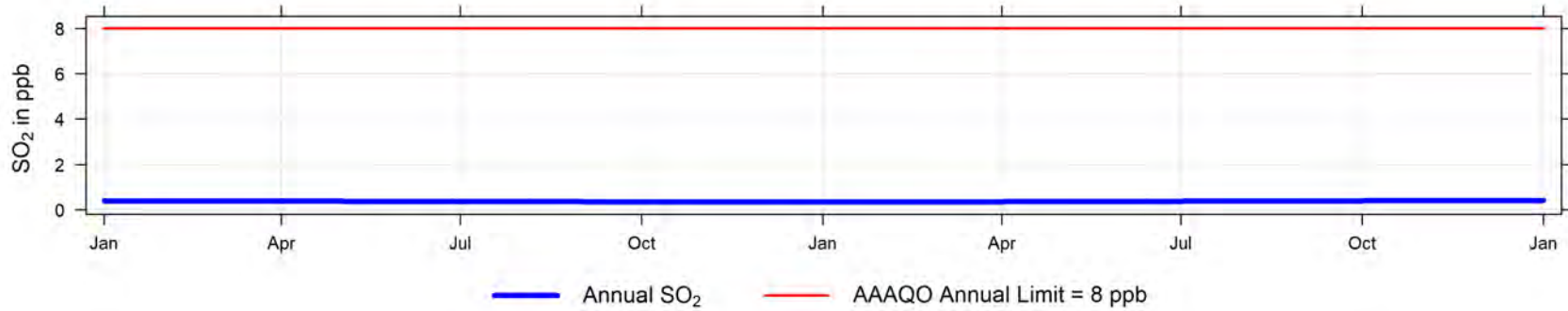
5.11 Fox Creek Annual Trends, 2023 to 2025

The following pages include historical annual charts collected between 2023 and 2025 at the Dune Station.

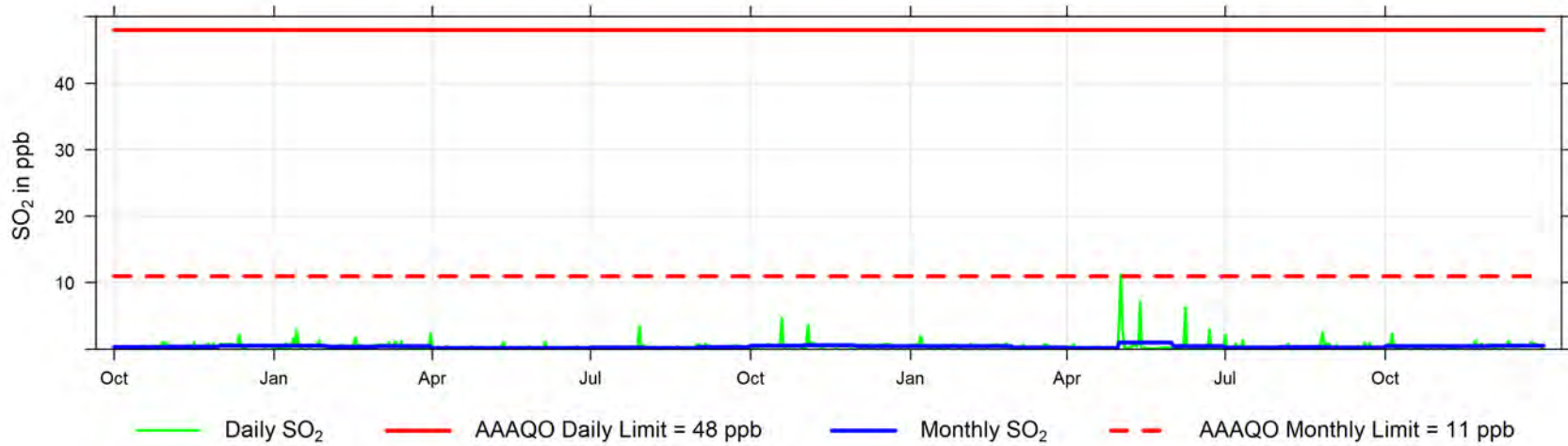
2023 to 2025 Daily Concentration Readings at Fox Creek



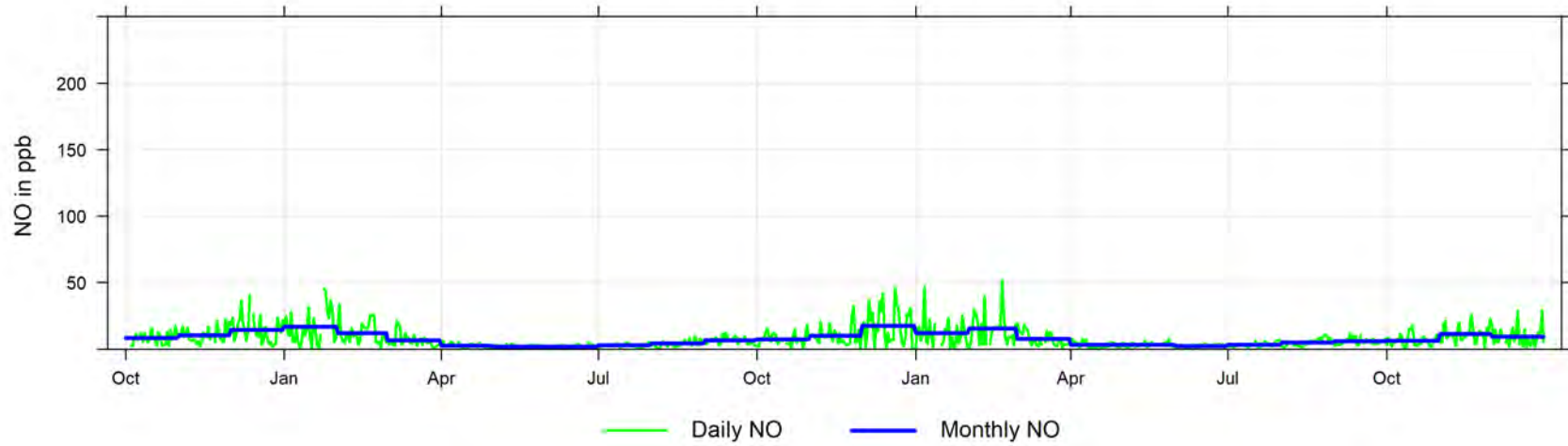
Years 2023 to 2025 Annual Concentration Readings of SO₂ (in ppb) at Fox Creek



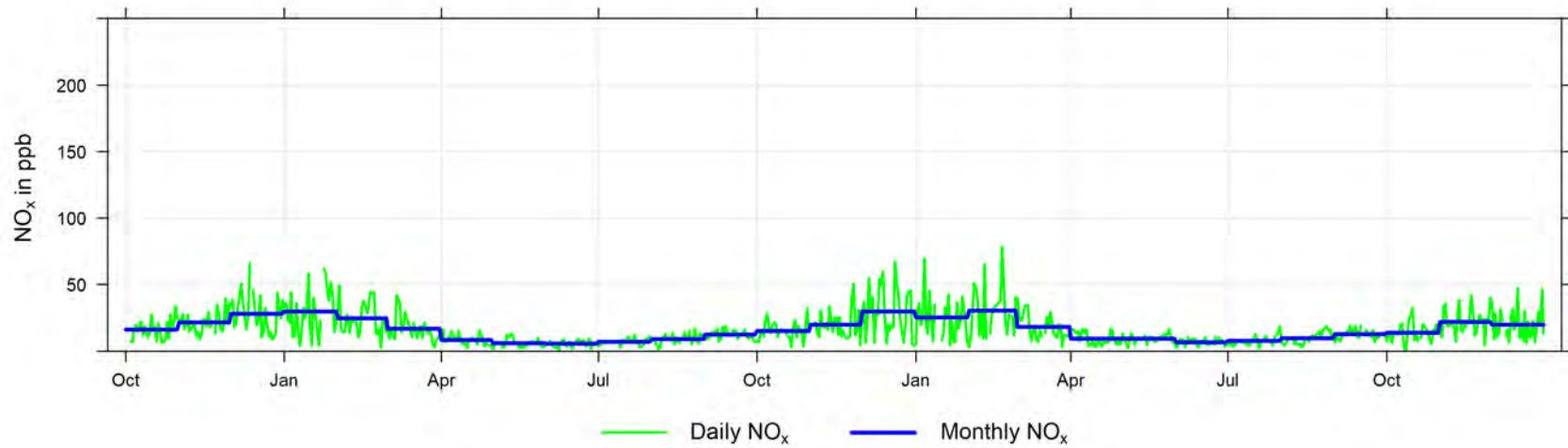
Years 2023 to 2025 Concentration Readings of SO₂ (in ppb) at Fox Creek



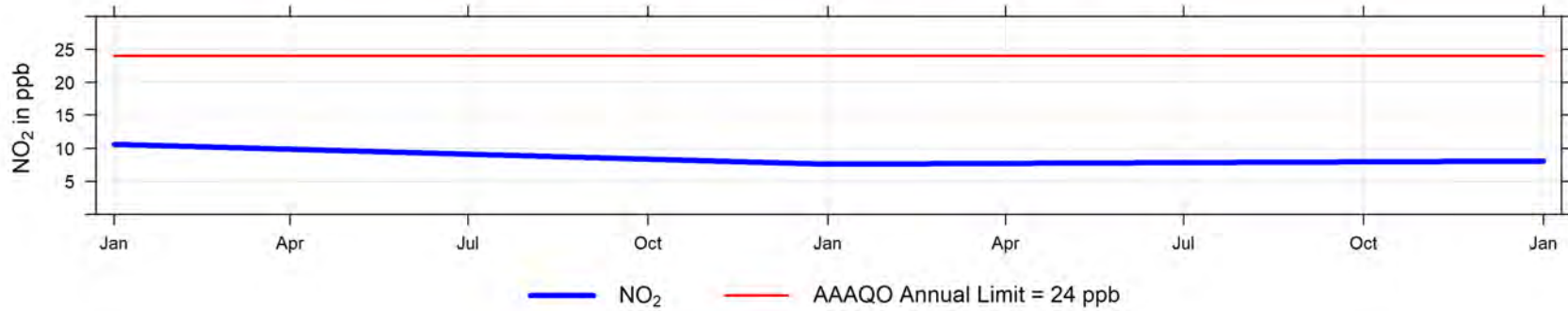
Years 2023 to 2025 Concentration Readings of NO (in ppb) at Fox Creek



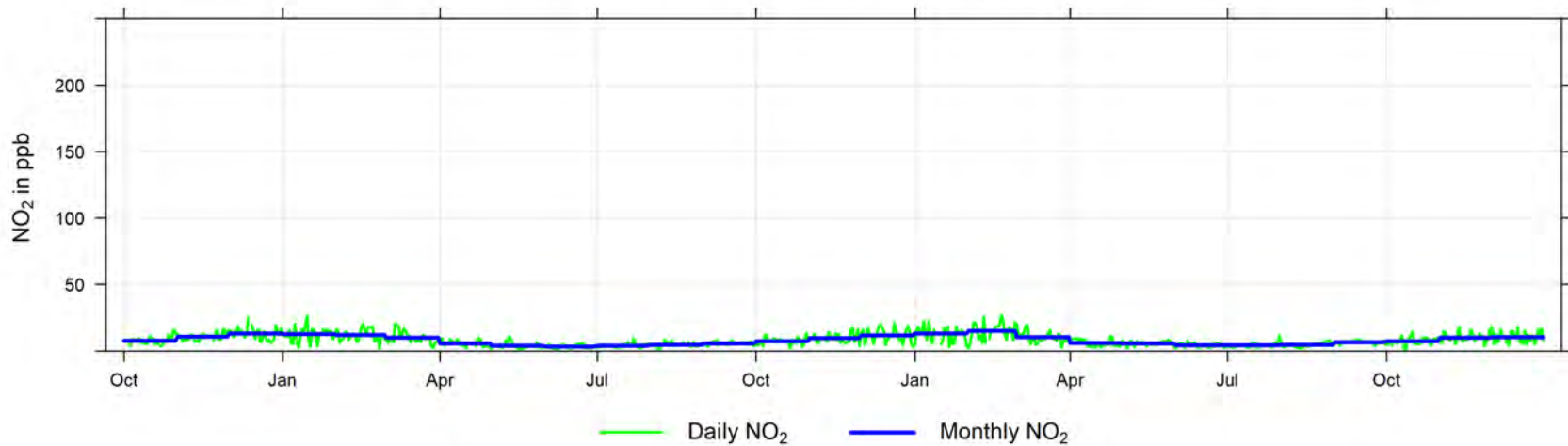
Years 2023 to 2025 Concentration Readings of NO_x (in ppb) at Fox Creek



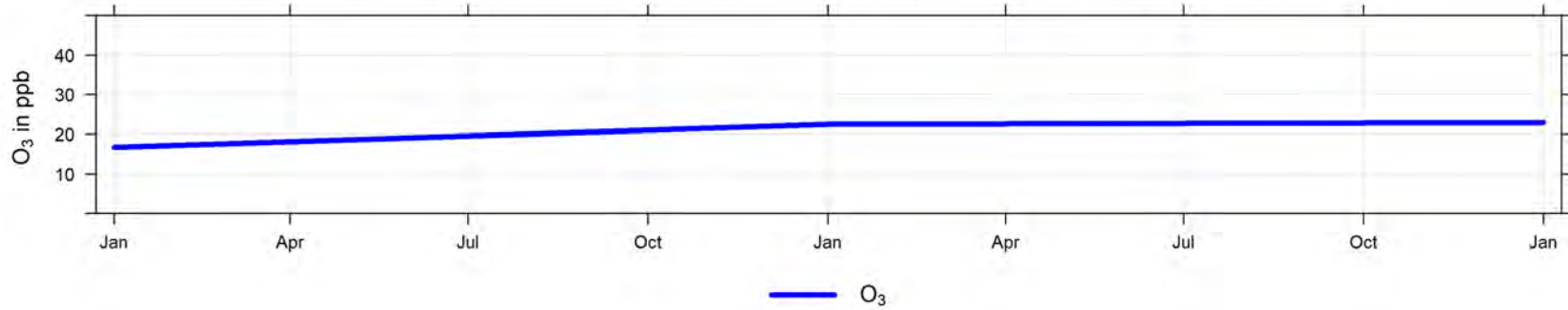
Years 2023 to 2025 Annual Concentration Readings of NO₂ (in ppb) at Fox Creek



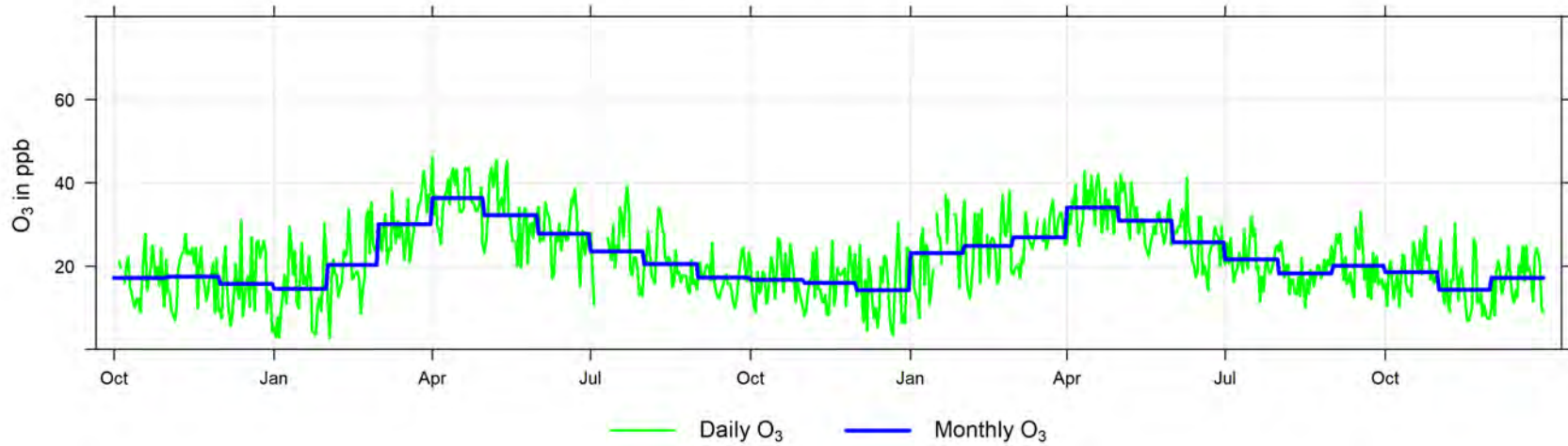
Years 2023 to 2025 Concentration Readings of NO₂ (in ppb) at Fox Creek



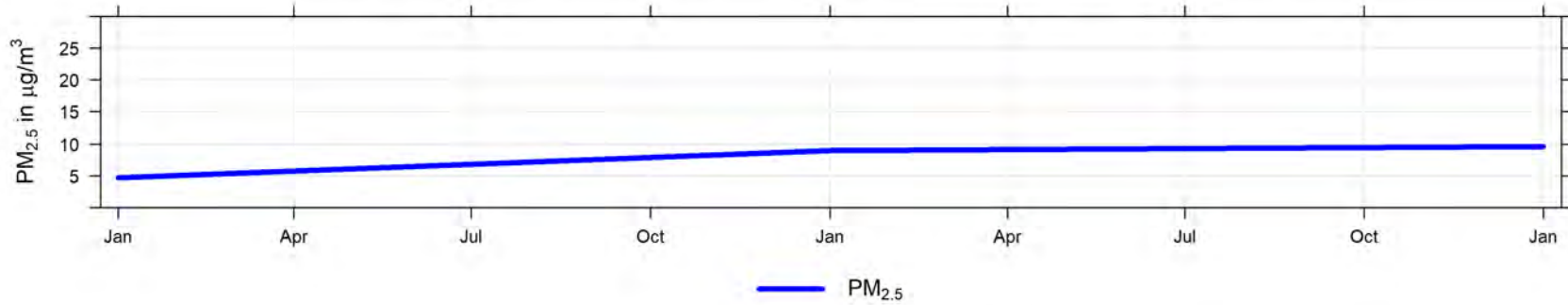
Years 2023 to 2025 Annual Concentration Readings of O₃ (in ppb) at Fox Creek



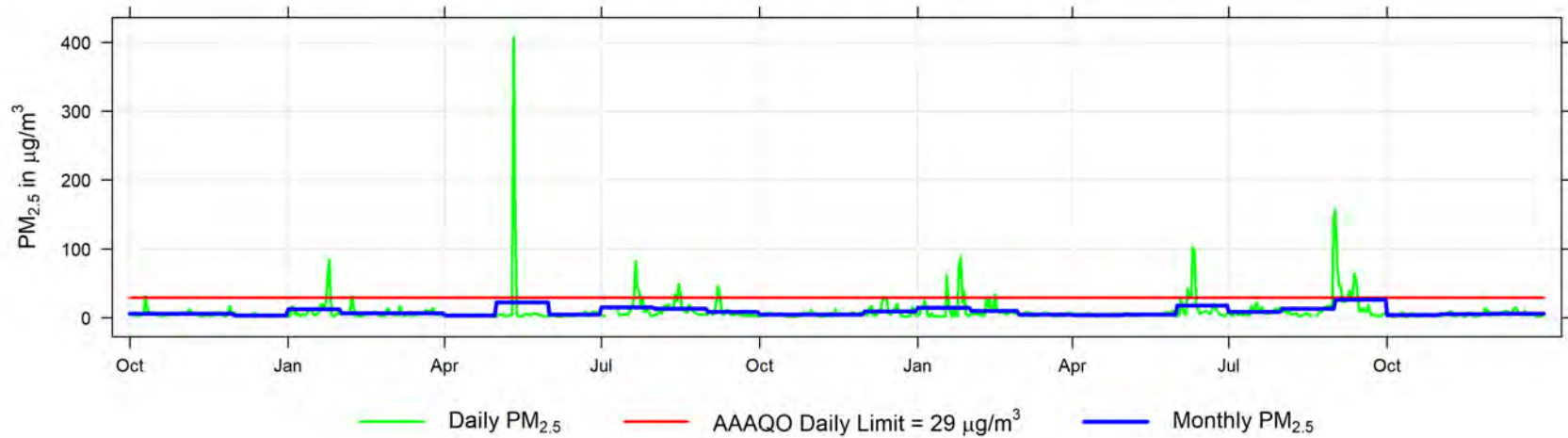
Years 2023 to 2025 Concentration Readings of O₃ (in ppb) at Fox Creek



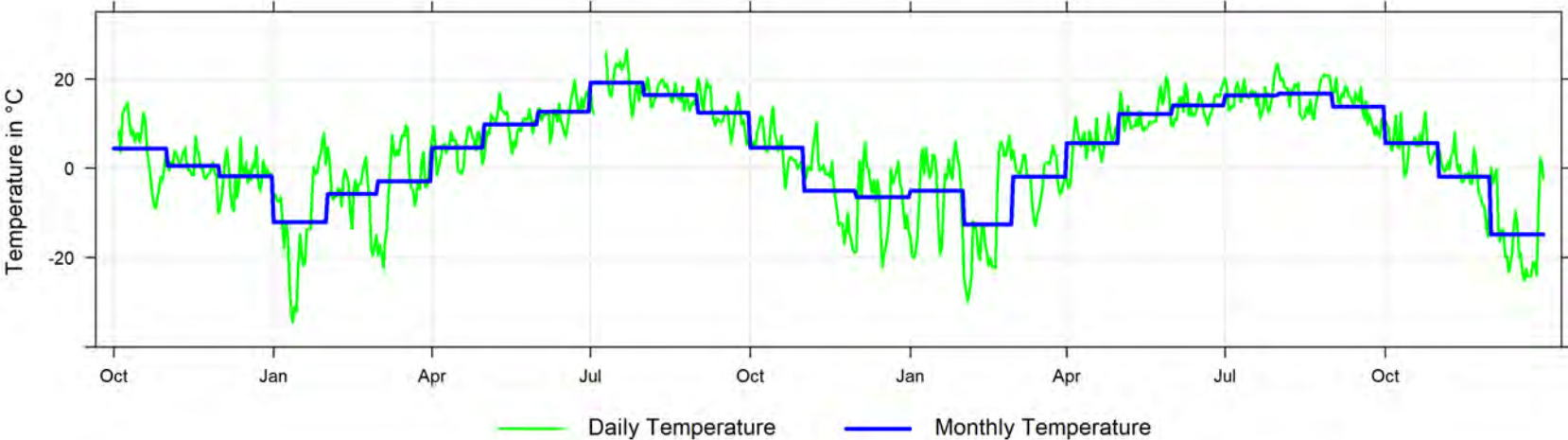
2023 to 2025 Annual Concentration Readings of PM_{2.5} in $\mu\text{g}/\text{m}^3$ at Fox Creek



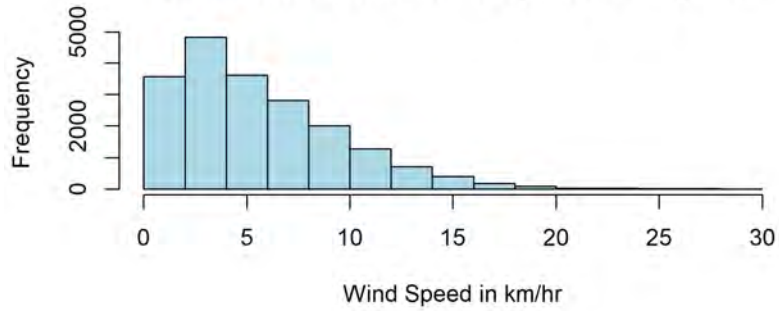
Years 2023 to 2025 Concentration Readings of PM_{2.5} in $\mu\text{g}/\text{m}^3$ at Fox Creek



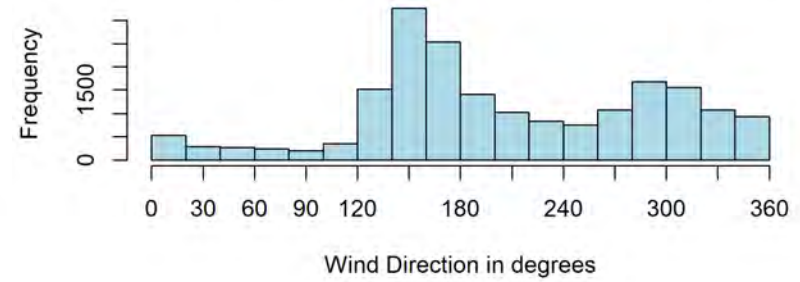
Years 2023 to 2025 Temperature Readings (in °C) at Fox Creek



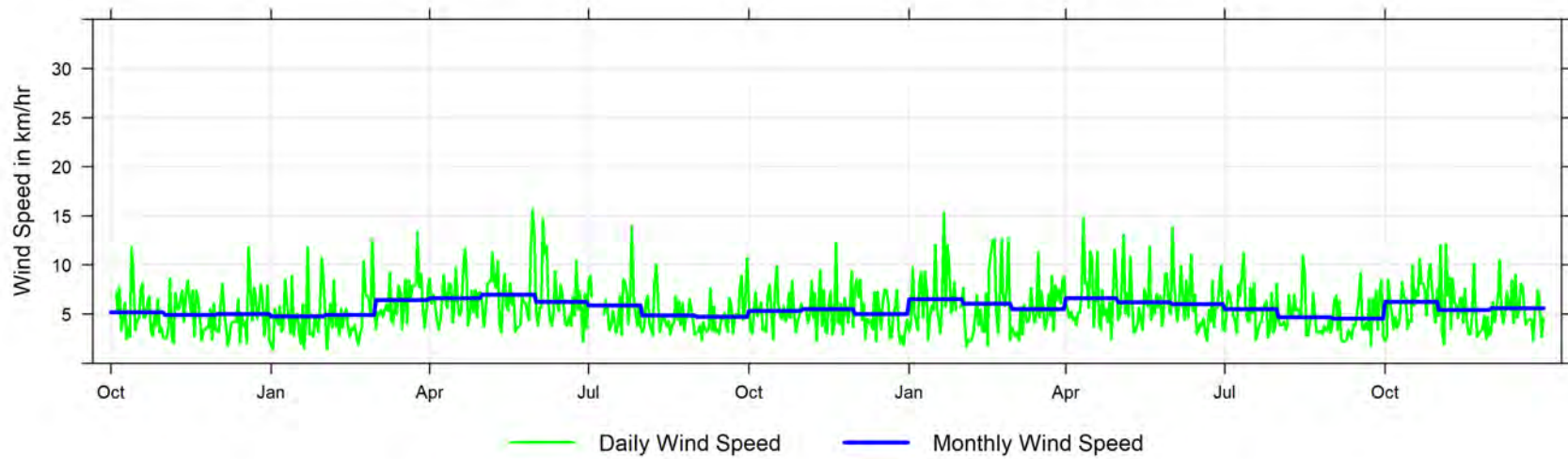
Years 2023 to 2025 Wind Speed Histogram

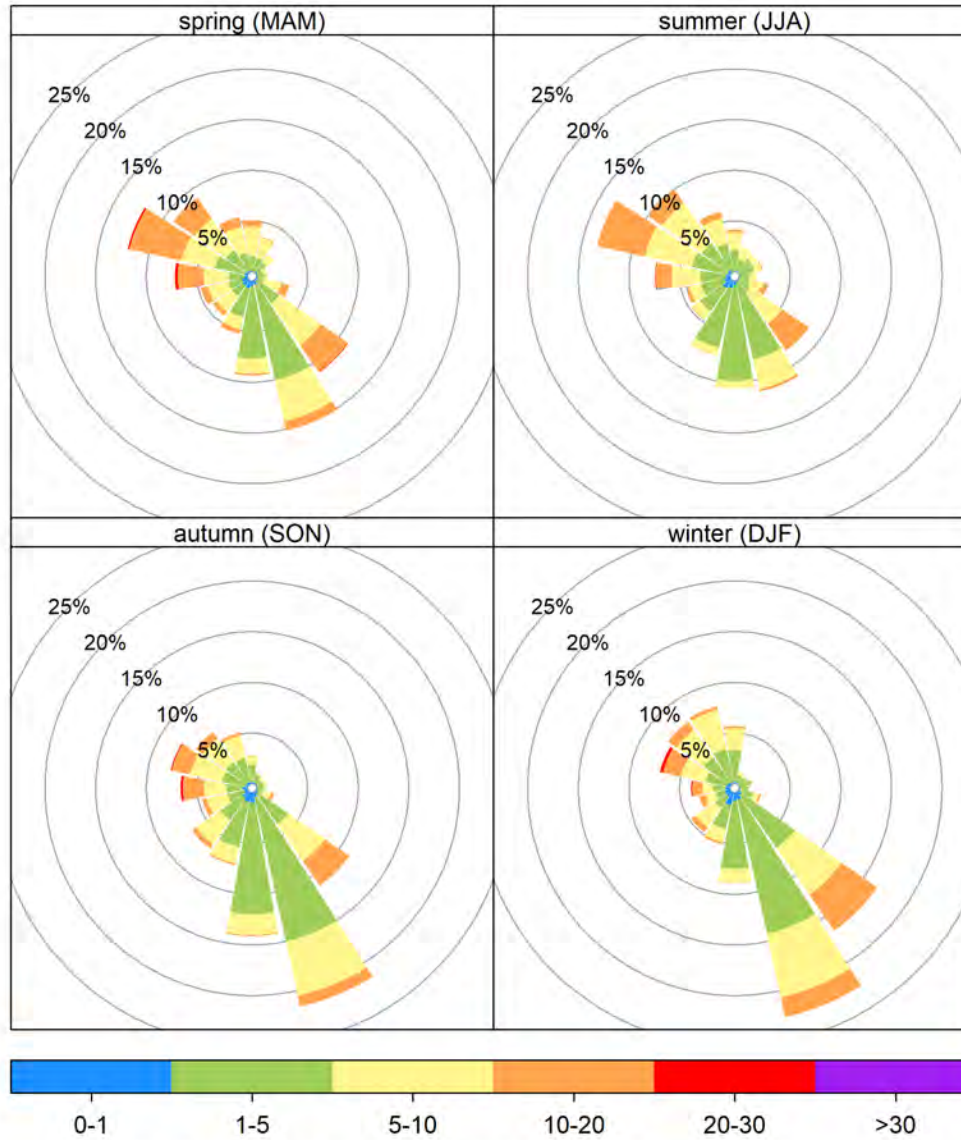


Years 2023 to 2025 Wind Direction Histogram

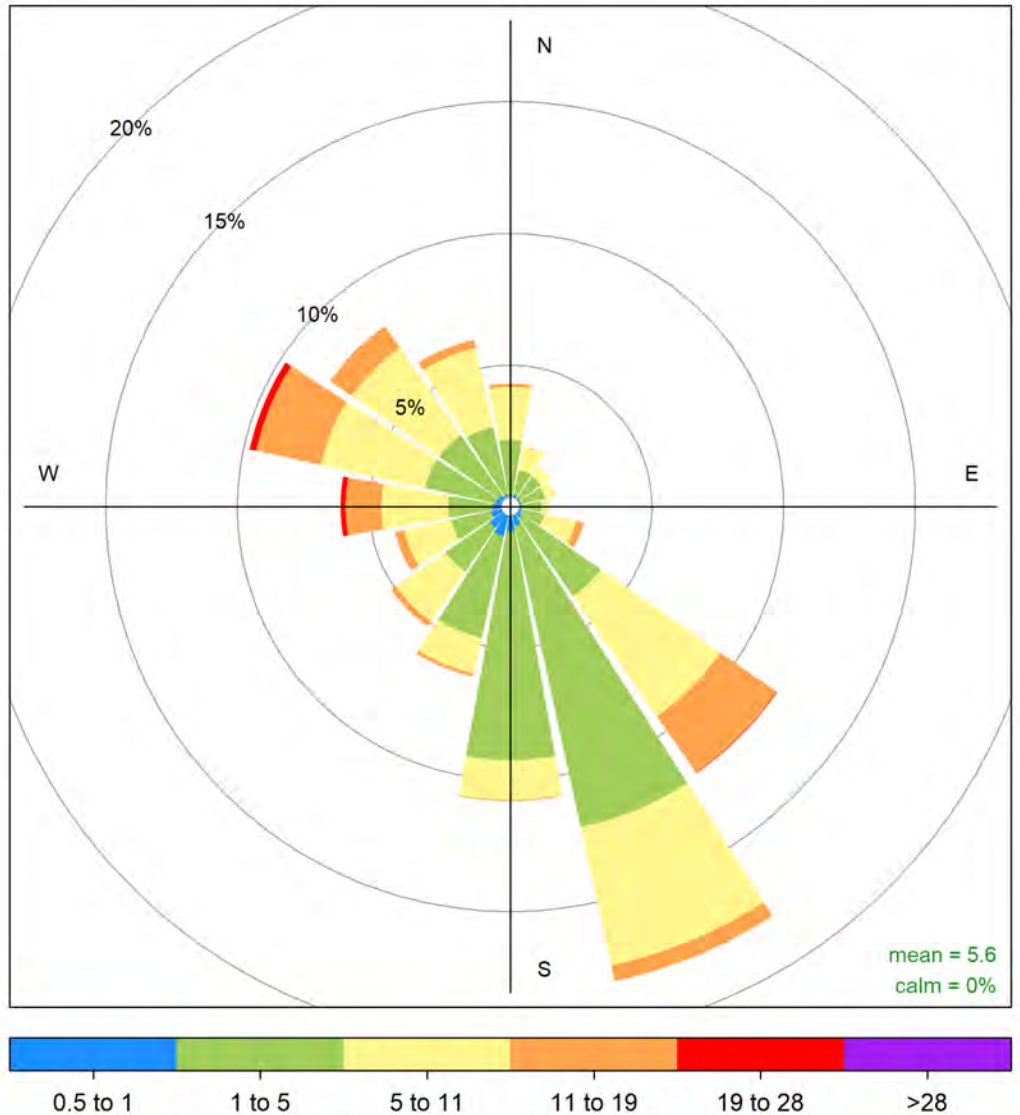


Years 2023 to 2025 Wind Speed Readings (in km/hr) at Fox Creek





Fox Creek 2023 to 2025 Seasonal Wind Rose, wind speed in km/hr



Fox Creek 2023 to 2025 Wind Rose, wind speed in km/hr
Frequency of counts by wind direction (%)

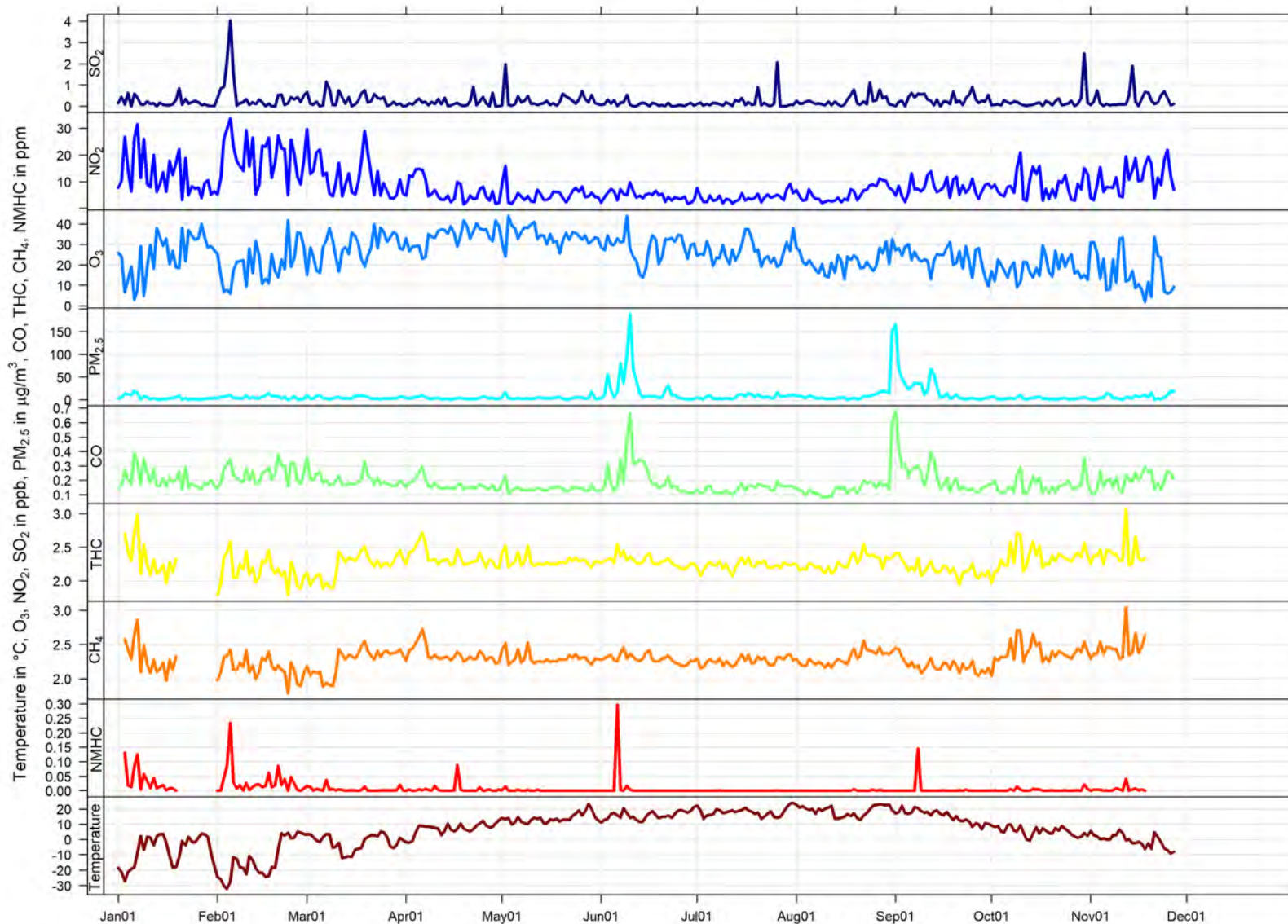
6 Henry Pirker Key Parameters - Continuous Monitoring Data - 2025 Summary

Henry Pirker Key Parameters - Continuous Monitoring Data - 2025 Summary

Henry Pirker Station	Parameter	Average	Maximum Values			Operational Time (%)	Valid Time (%)	Readings above AAAQO & AAAQG					
			24-hr	Date	1-hr			Date	1-hr	8-hr	24-hr	30-d	Annual
			Sulphur Dioxide SO ₂ measured in ppb	0.3	4.2			Feb 05	20.2	Jul 26 11:00	98.6%	94.0%	0
Hydrogen Sulphide H ₂ S measured in ppb	0.2	0.9	May 09	6.7	May 09 04:00	98.1%	93.4%	0	-	0	-	-	
Nitrogen Dioxide NO ₂ measured in ppb	8.6	30.5	Jan 07	54.3	Feb 20 19:00	98.2%	93.4%	0	-	-	-	0	
Nitrogen Oxides NO _x measured in ppb	12.2	74.9	Jan 06	159.4	Jan 07 13:00	98.2%	93.4%	-	-	-	-	-	
Nitric Oxide NO measured in ppb	3.3	47.7	Jan 06	115.9	Nov 04 11:00	98.2%	93.4%	-	-	-	-	-	
Ozone O ₃ measured in ppb	25.2	43.4	May 03	66.4	Jul 31 13:00	98.6%	94.0%	0	-	-	-	-	
Carbon Monoxide CO measured in ppm	0.19	0.7	Jun 10	1.4	Jun 09 02:00	97.6%	93.0%	0	0	-	-	-	
Total Hydrocarbons THC measured in ppm	2.27	3.1	Nov 12	6.4	Nov 12 06:00	90.5%	85.9%	-	-	-	-	-	
Methane CH ₄ measured in ppm	2.29	3.0	Nov 12	6.4	Nov 12 06:00	90.5%	86.0%	-	-	-	-	-	
Non Methane Hydrocarbons NMHC measured in ppm	0.01	0.3	Jun 06	2.8	Jun 06 10:00	90.5%	86.0%	-	-	-	-	-	
Particulate Matter PM _{2.5} measured in µg/m ³	9.5	192.7	Jun 10	406.6	Aug 31 12:00	98.6%	98.4%	115	-	19	-	-	

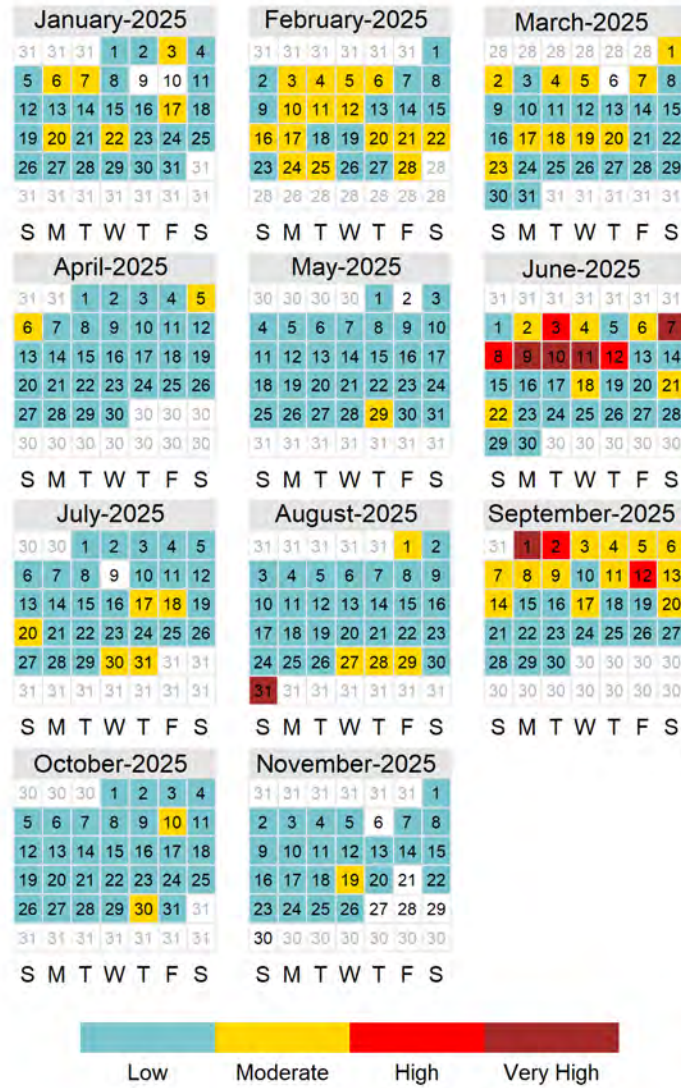
All equipment down in December 2025

2025 Daily Concentration Readings at Henry Pirker



6.1 Henry Pirker AQHI Calendar Plot for 2025

Hourly Maximum AQHI for 2025 at Henry Pirker



6.2 Sulphur Dioxide (SO₂) - Henry Pirker 2025 Summary

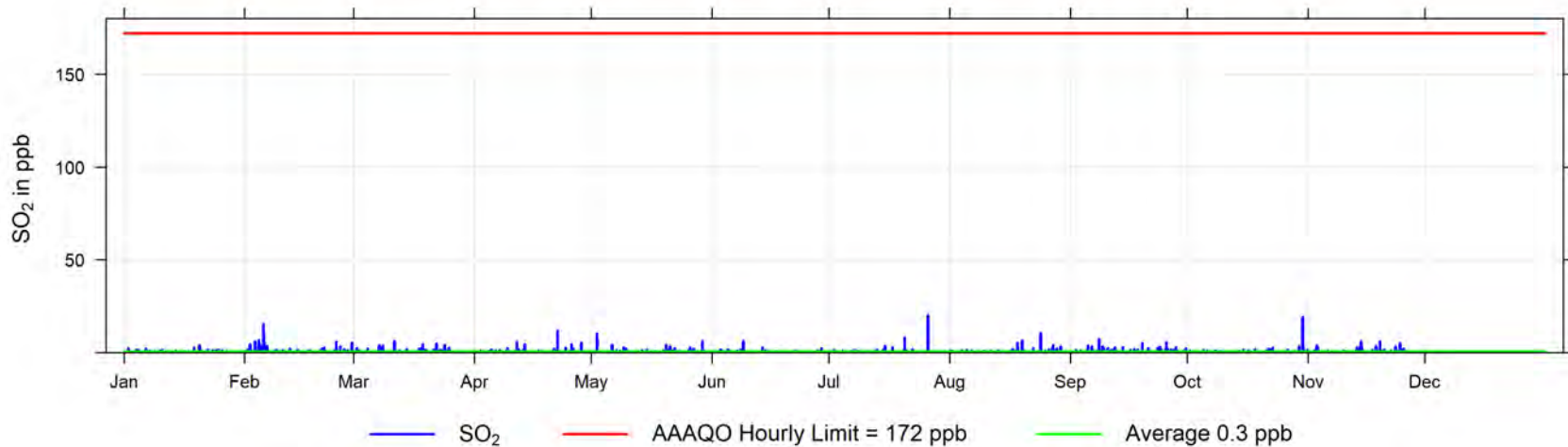
Sulphur Dioxide (SO₂) Frequency Distribution at Henry Pirker

Month	Valid Hours	% of Readings in Concentration Range						Monthly Average (ppb)	MAXIMUM VALUES				Operational time (%)	Valid time (%)	Reportable Incidents		
		0 to 1 (ppb)	1 to 5 (ppb)	5 to 10 (ppb)	10 to 57 (ppb)	57 to 172 (ppb)	> 172 (ppb)		24-hr (ppb)	Date	1-hr (ppb)	Date			30-d 11 ppb	24-hr 48 ppb	1-hr 172 ppb
January 2025	708	95.3%	4.7%	0.0%	0.0%	0.0%	0.0%	0.2	0.8	Jan 20	3.9	Jan 20 10:00	99.9%	95.2%	0	0	0
February 2025	640	85.9%	12.3%	1.3%	0.5%	0.0%	0.0%	0.5	4.2	Feb 05	15.4	Feb 05 20:00	100.0%	95.2%	0	0	0
March 2025	709	92.1%	7.8%	0.1%	0.0%	0.0%	0.0%	0.3	1.2	Mar 07	6.3	Mar 11 11:00	100.0%	95.3%	0	0	0
April 2025	687	95.8%	3.8%	0.3%	0.1%	0.0%	0.0%	0.2	0.9	Apr 22	11.9	Apr 22 09:00	100.0%	95.4%	0	0	0
May 2025	697	94.1%	5.5%	0.3%	0.1%	0.0%	0.0%	0.3	0.7	May 26	10.3	May 02 11:00	98.1%	93.7%	0	0	0
June 2025	687	97.8%	2.0%	0.1%	0.0%	0.0%	0.0%	0.1	0.4	Jun 09	6.3	Jun 09 01:00	100.0%	95.4%	0	0	0
July 2025	706	96.7%	2.5%	0.4%	0.3%	0.0%	0.0%	0.2	2.0	Jul 26	20.2	Jul 26 11:00	99.6%	94.9%	0	0	0
August 2025	709	94.1%	5.2%	0.6%	0.1%	0.0%	0.0%	0.3	1.1	Aug 24	10.4	Aug 24 09:00	100.0%	95.3%	0	0	0
September 2025	684	89.6%	9.9%	0.4%	0.0%	0.0%	0.0%	0.3	0.9	Sep 25	7.3	Sep 08 09:00	99.4%	95.0%	0	0	0
October 2025	709	95.8%	3.8%	0.1%	0.3%	0.0%	0.0%	0.2	2.5	Oct 30	19.3	Oct 30 17:00	100.0%	95.3%	0	0	0
November 2025	579	89.5%	10.2%	0.3%	0.0%	0.0%	0.0%	0.3	1.9	Nov 14	6.1	Nov 19 12:00	87.4%	83.2%	0	0	0
December 2025																	
Annual	7515	93.3%	6.2%	0.4%	0.1%	0.0%	0.0%	0.3	4.2	MAXIMUM VALUES			98.6%	94.0%	0	0	0

AAAQO Objectives: Annual: 8ppb, 30-Day: 11ppb, 24-Hr: 48ppb, 1-Hr: 172ppb

All equipment down in December 2025

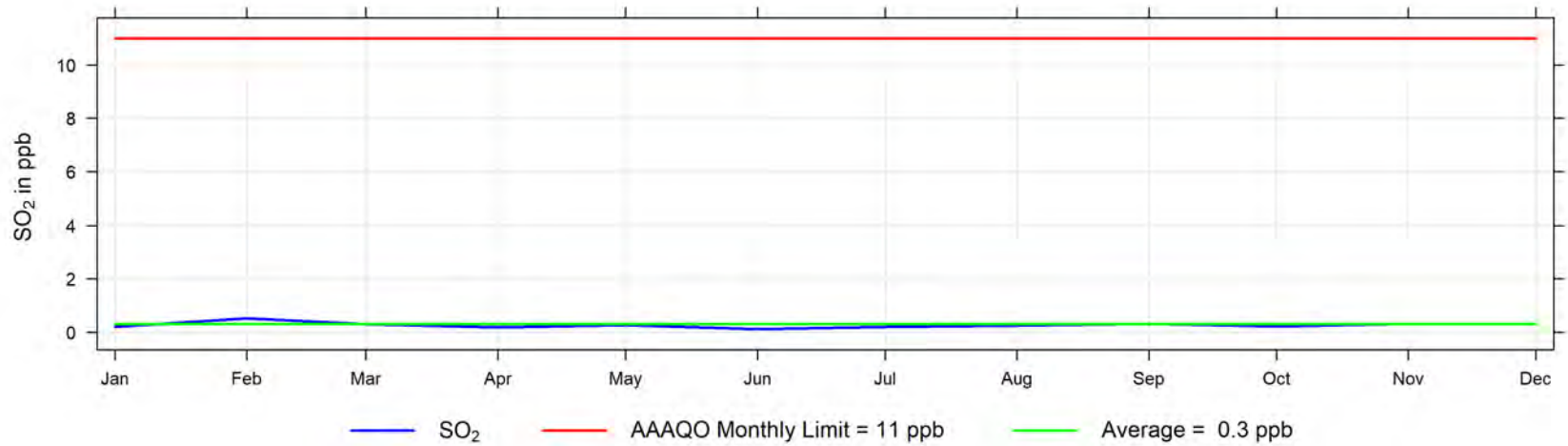
2025 Hourly Concentration Readings of SO₂ (in ppb) at Henry Pirker

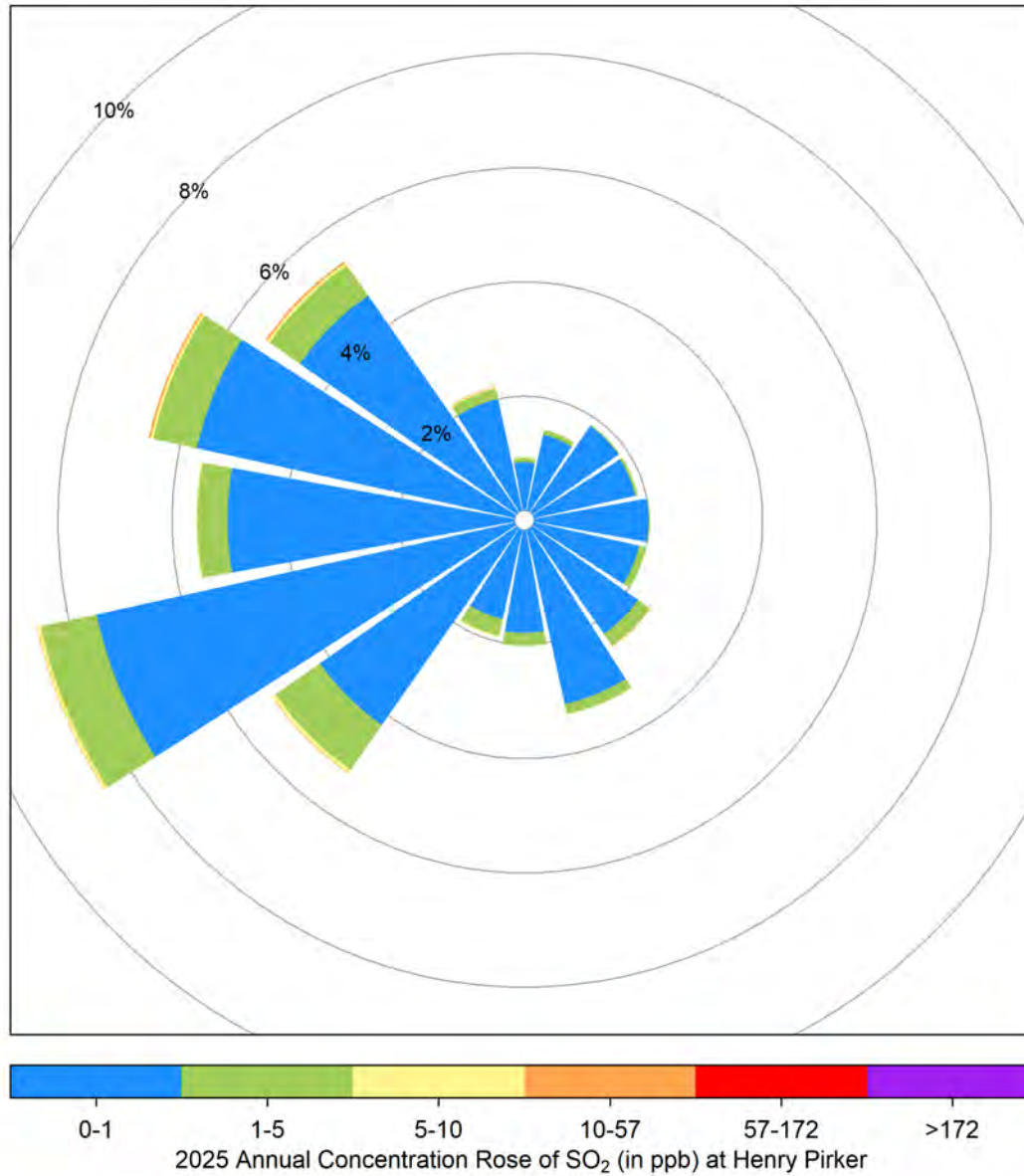


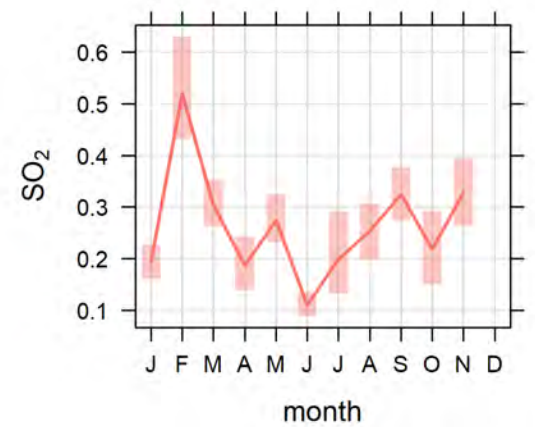
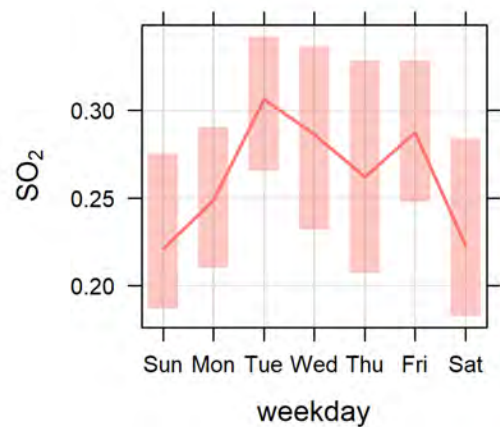
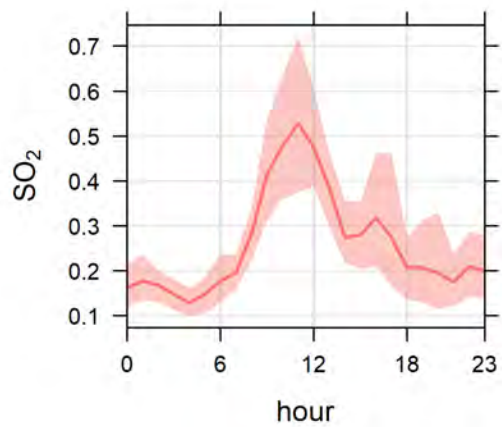
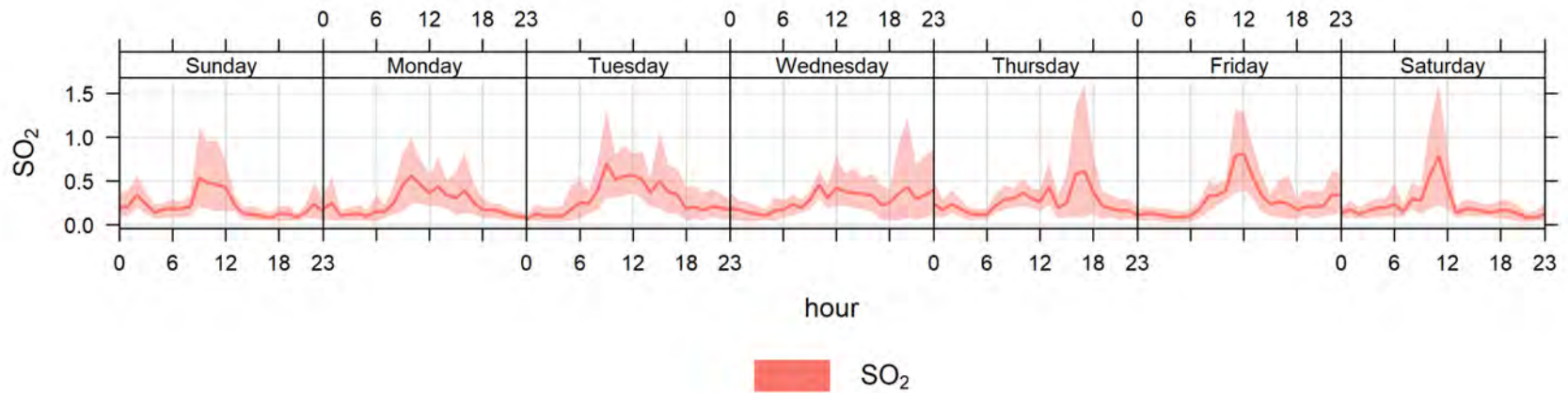
2025 Daily Concentration Readings of SO₂ (in ppb) at Henry Pirker



2025 Monthly Concentration Readings of SO₂ (in ppb) at Henry Pirker

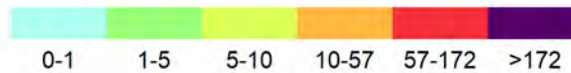
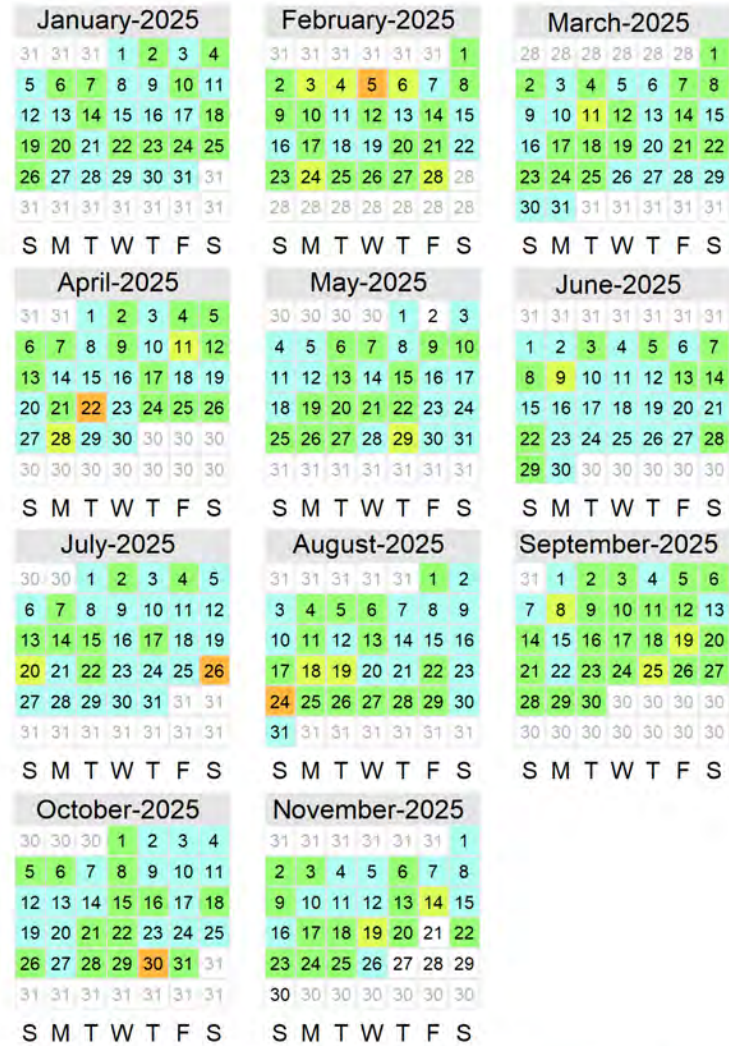






mean and 95% confidence interval in mean

Hourly Maximum SO₂ (in ppb) for 2025 at Henry Pirker



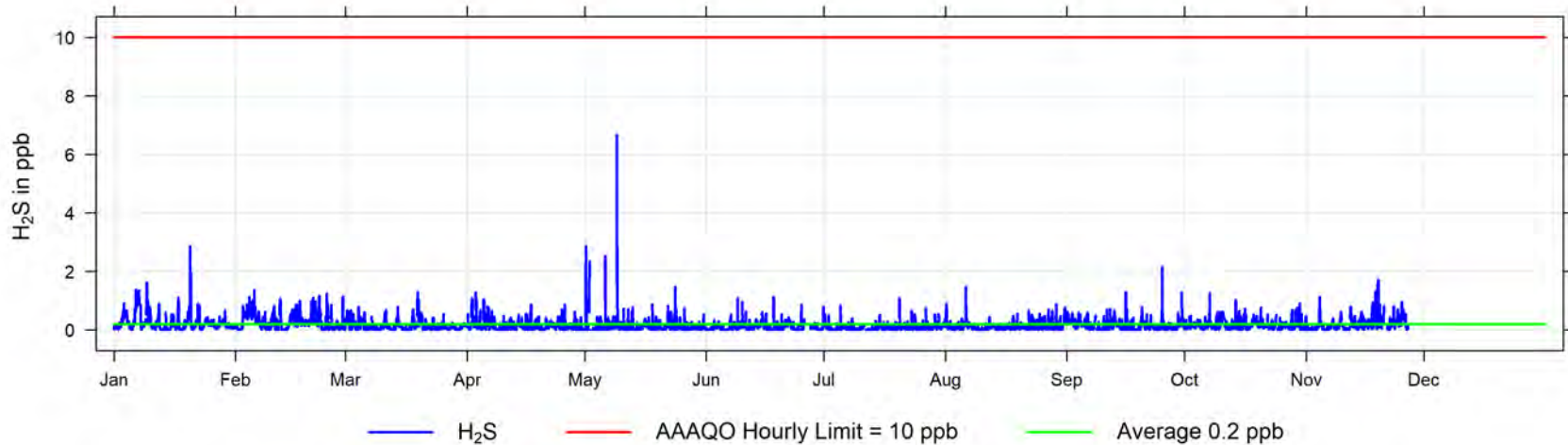
6.3 Hydrogen Sulphide (H₂S) - Henry Pirker 2025 Summary

Hydrogen Sulphide (H₂S) Frequency Distribution at Henry Pirker

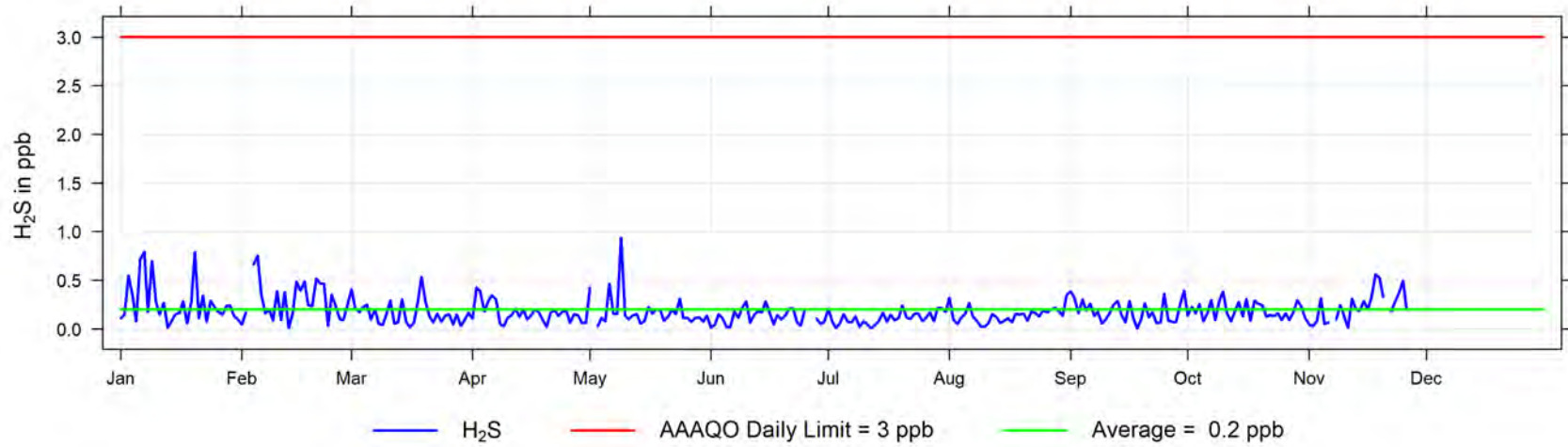
Month	Valid Hours	% of Readings in Concentration Range						Monthly Average (ppb)	MAXIMUM VALUES				Operational time (%)	Valid time (%)	Reportable Incidents	
		0 to 1 (ppb)	1 to 3 (ppb)	3 to 5 (ppb)	5 to 8 (ppb)	8 to 10 (ppb)	> 10 (ppb)		24-hr (ppb)	Date	1-hr (ppb)	Date			24-hr 3 ppb	1-hr 10 ppb
January 2025	707	96.5%	3.5%	0.0%	0.0%	0.0%	0.0%	0.3	0.8	Jan 20	2.9	Jan 20 10:00	99.9%	95.0%	0	0
February 2025	635	98.0%	2.0%	0.0%	0.0%	0.0%	0.0%	0.3	0.8	Feb 05	1.4	Feb 05 18:00	99.7%	94.5%	0	0
March 2025	709	99.4%	0.6%	0.0%	0.0%	0.0%	0.0%	0.2	0.5	Mar 19	1.3	Mar 19 10:00	100.0%	95.3%	0	0
April 2025	686	99.1%	0.9%	0.0%	0.0%	0.0%	0.0%	0.2	0.4	Apr 02	1.3	Apr 03 05:00	100.0%	95.3%	0	0
May 2025	696	97.3%	2.4%	0.1%	0.1%	0.0%	0.0%	0.2	0.9	May 09	6.7	May 09 04:00	98.1%	93.6%	0	0
June 2025	653	99.7%	0.3%	0.0%	0.0%	0.0%	0.0%	0.1	0.3	Jun 10	1.1	Jun 18 05:00	95.3%	90.7%	0	0
July 2025	706	99.9%	0.1%	0.0%	0.0%	0.0%	0.0%	0.1	0.2	Jul 20	1.1	Jul 20 07:00	99.6%	94.9%	0	0
August 2025	709	99.9%	0.1%	0.0%	0.0%	0.0%	0.0%	0.1	0.4	Aug 31	1.5	Aug 06 05:00	100.0%	95.3%	0	0
September 2025	683	99.3%	0.7%	0.0%	0.0%	0.0%	0.0%	0.2	0.4	Sep 30	2.2	Sep 25 06:00	99.4%	94.9%	0	0
October 2025	708	99.7%	0.3%	0.0%	0.0%	0.0%	0.0%	0.2	0.4	Oct 10	1.3	Oct 07 10:00	100.0%	95.2%	0	0
November 2025	577	98.8%	1.2%	0.0%	0.0%	0.0%	0.0%	0.2	0.5	Nov 19	1.7	Nov 19 09:00	87.4%	82.9%	0	0
December 2025																
Annual	7469	98.9%	1.1%	0.0%	0.0%	0.0%	0.0%	0.2	0.9	May 09	6.7	May 09 04:00	98.1%	93.4%	0	0

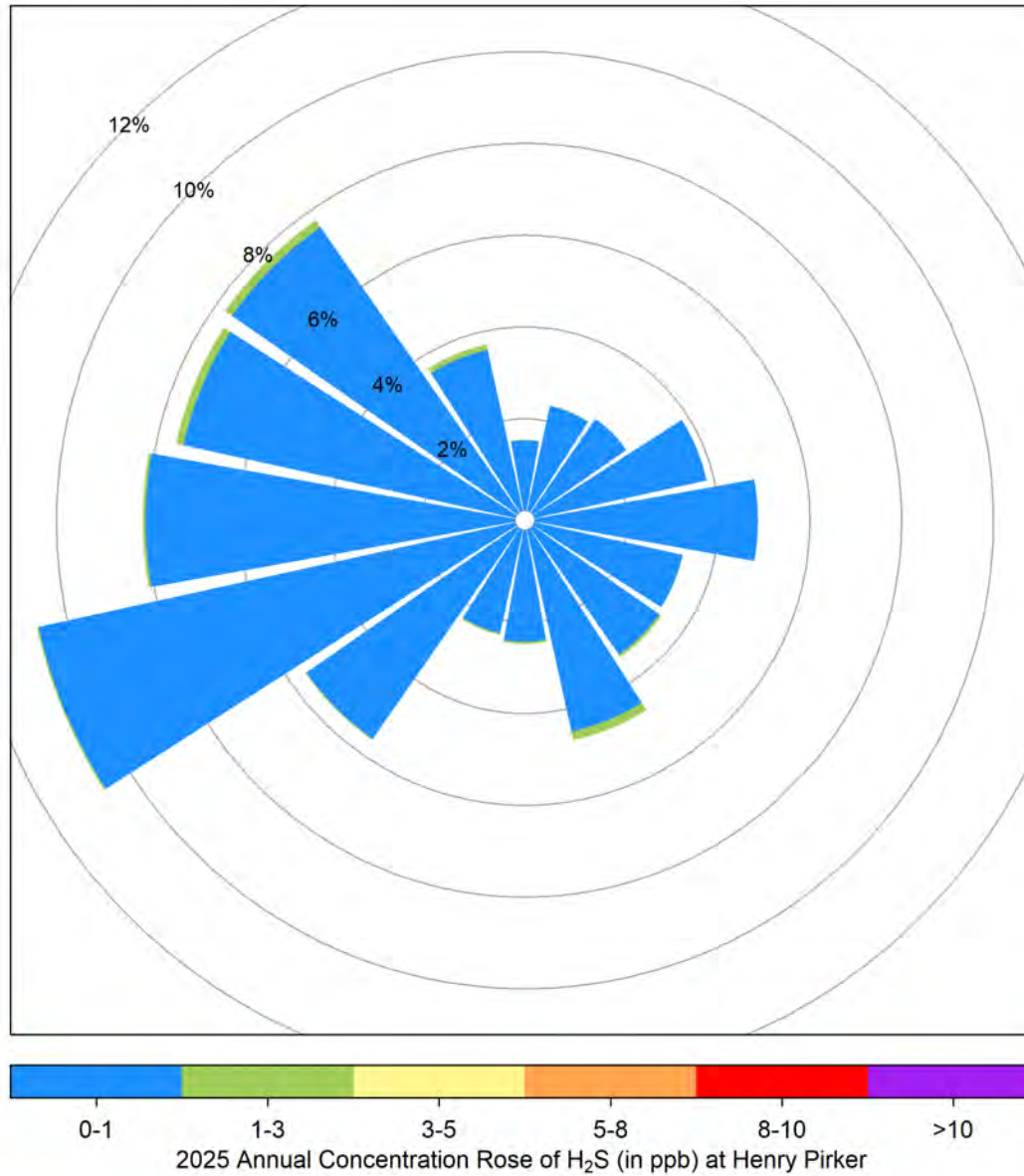
AAAQO Objectives: 24-Hr: 3ppb, 1-Hr: 10ppb
 All equipment down in December 2025

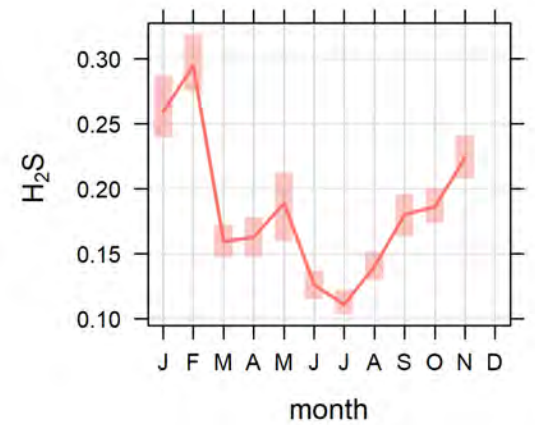
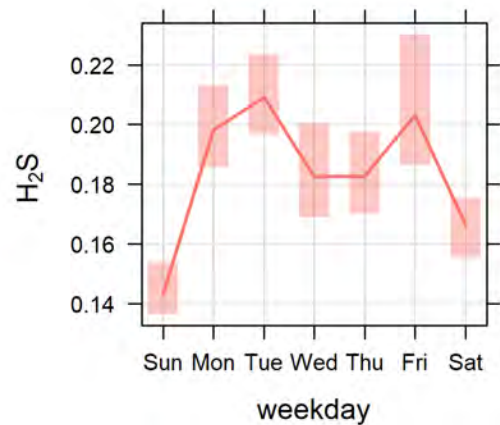
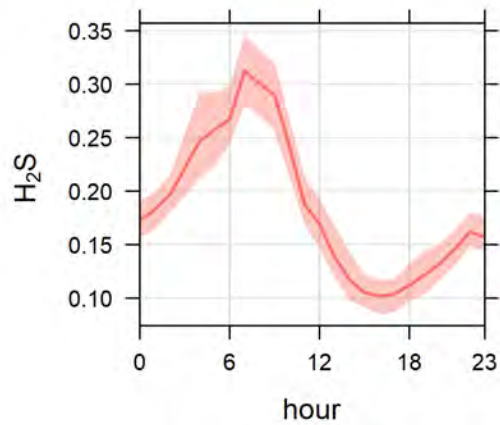
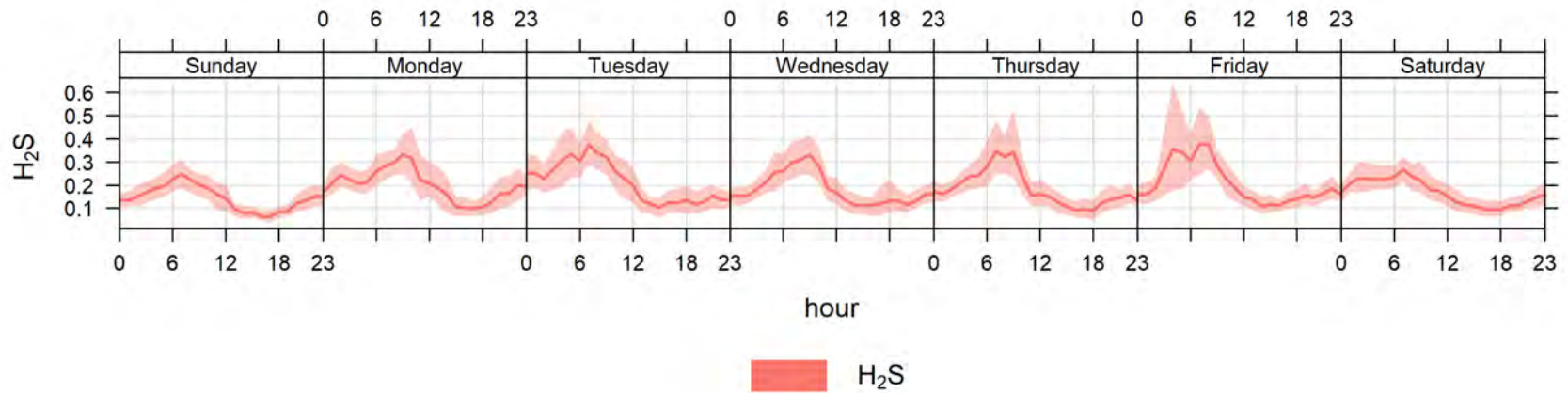
2025 Hourly Concentration Readings of H₂S (in ppb) at Henry Pirker



2025 Daily Concentration Readings of H₂S (in ppb) at Henry Pirker

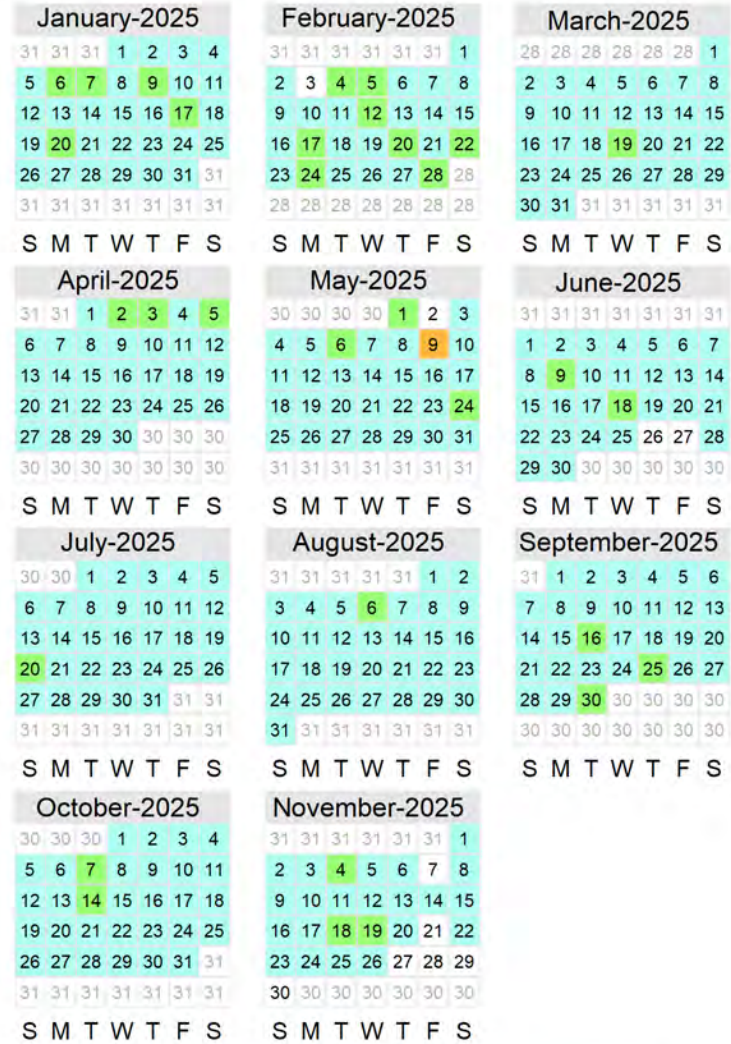






mean and 95% confidence interval in mean

Hourly Maximum H₂S (in ppb) for 2025 at Henry Pirker



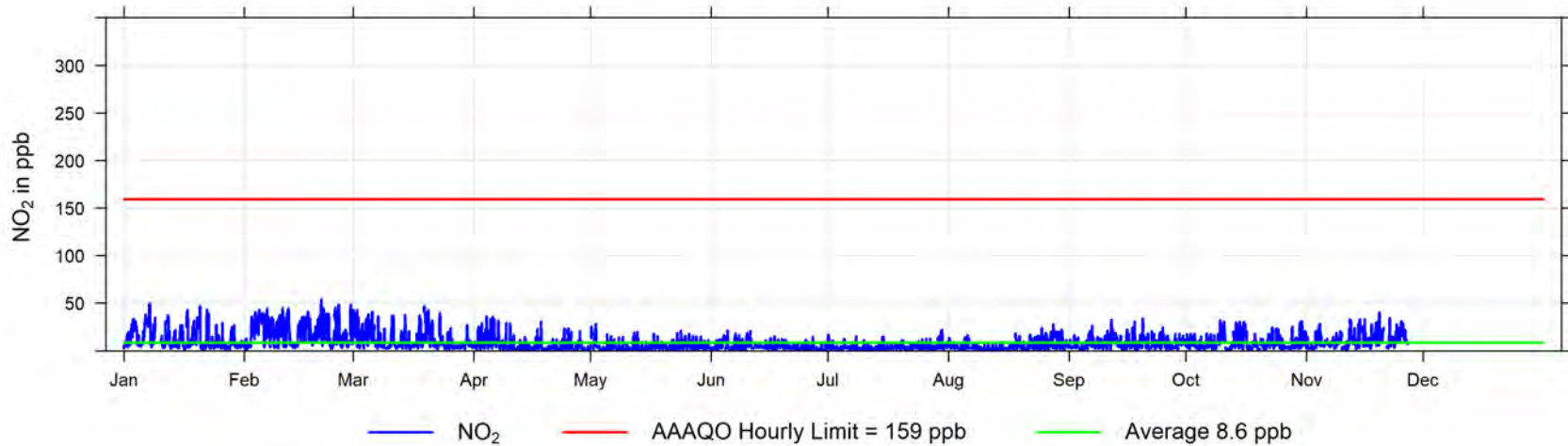
6.4 Nitrogen Dioxide (NO₂) - Henry Pirker 2025 Summary

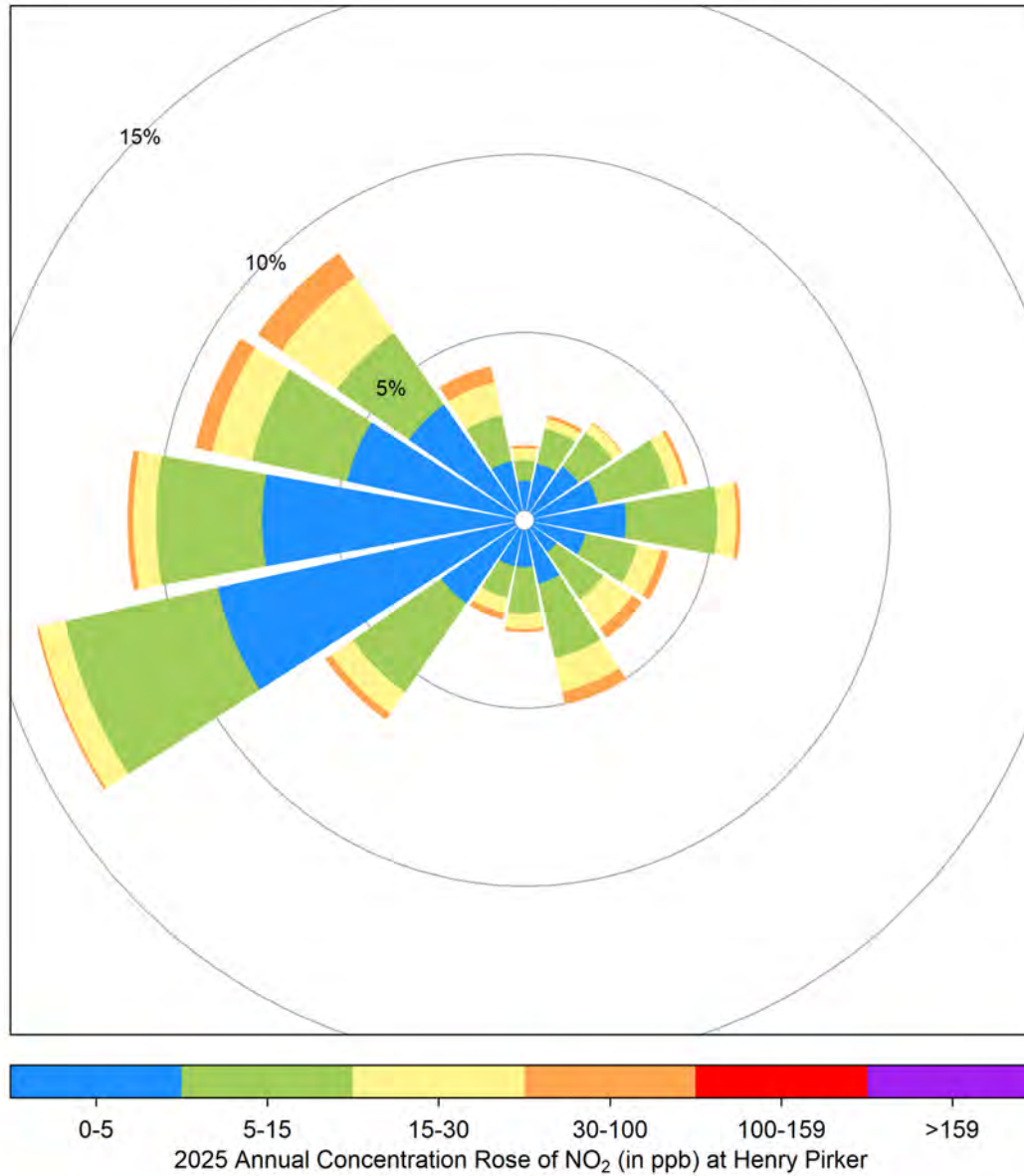
Nitrogen Dioxide (NO₂) Frequency Distribution at Henry Pirker

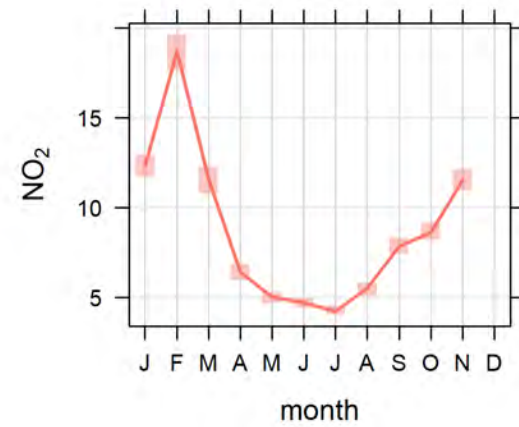
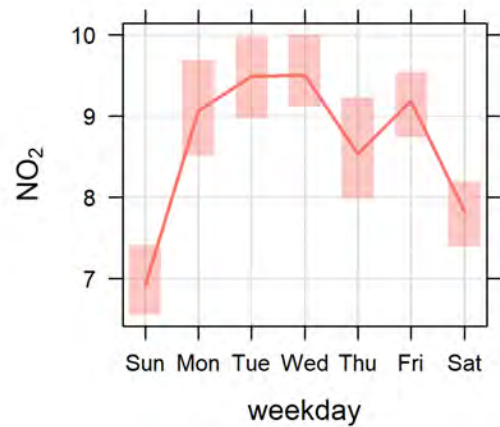
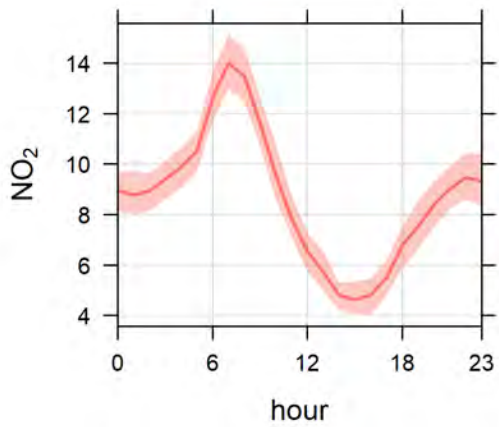
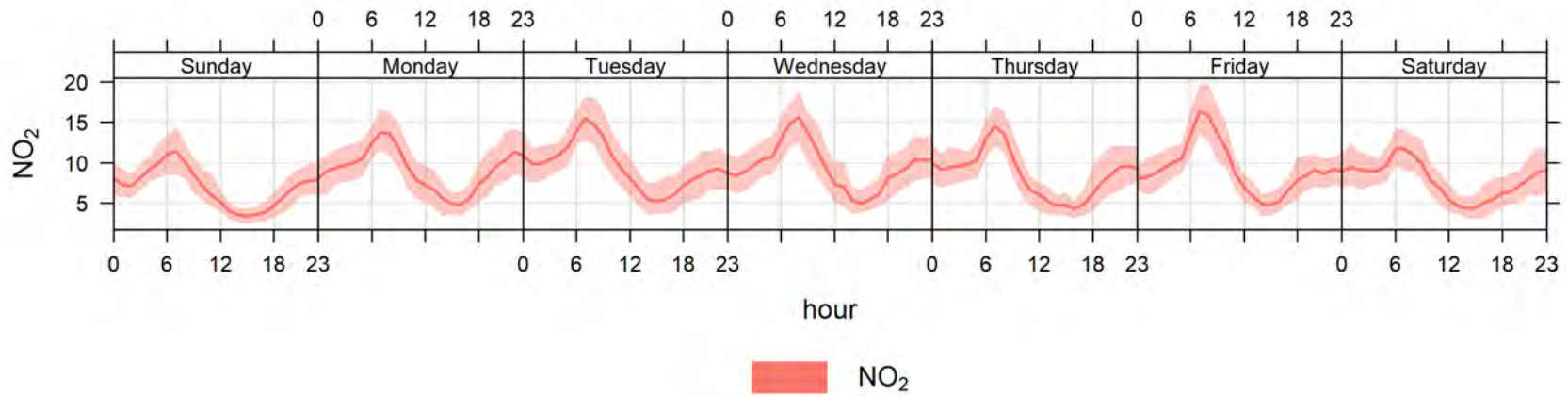
Month	Valid Hours	% of Readings in Concentration Range						Monthly Average (ppb)	MAXIMUM VALUES				Operational time (%)	Valid time (%)	Reportable Incidents 1-hr 159 ppb
		0 to 5 (ppb)	5 to 15 (ppb)	15 to 30 (ppb)	30 to 100 (ppb)	100 to 159 (ppb)	> 159 (ppb)		24-hr (ppb)	Date	1-hr (ppb)	Date			
January 2025	677	29.5%	42.2%	18.5%	9.7%	0.0%	0.0%	12.3	30.5	Jan 07	49.6	Jan 07 17:00	95.8%	91.0%	0
February 2025	638	15.2%	31.0%	29.3%	24.5%	0.0%	0.0%	18.7	29.8	Feb 04	54.3	Feb 20 19:00	100.0%	94.9%	0
March 2025	707	33.4%	40.5%	17.0%	9.2%	0.0%	0.0%	11.5	29.8	Mar 19	46.9	Mar 19 06:00	100.0%	95.0%	0
April 2025	685	61.2%	27.3%	9.6%	1.9%	0.0%	0.0%	6.4	15.8	Apr 05	36.3	Apr 04 07:00	100.0%	95.1%	0
May 2025	695	65.6%	28.8%	5.6%	0.0%	0.0%	0.0%	5.0	10.0	May 01	28.4	May 02 08:00	98.1%	93.4%	0
June 2025	685	67.0%	30.4%	2.6%	0.0%	0.0%	0.0%	4.7	10.2	Jun 10	21.3	Jun 05 05:00	100.0%	95.1%	0
July 2025	702	72.6%	25.6%	1.7%	0.0%	0.0%	0.0%	4.2	9.1	Jul 30	22.4	Jul 30 08:00	99.2%	94.4%	0
August 2025	706	61.2%	32.6%	6.2%	0.0%	0.0%	0.0%	5.5	12.0	Aug 27	27.7	Aug 27 22:00	99.7%	94.9%	0
September 2025	683	41.3%	46.9%	11.0%	0.9%	0.0%	0.0%	7.8	13.5	Sep 06	34.1	Sep 19 22:00	99.4%	94.9%	0
October 2025	708	42.4%	39.1%	17.2%	1.3%	0.0%	0.0%	8.6	21.2	Oct 10	32.0	Oct 09 20:00	100.0%	95.2%	0
November 2025	578	23.7%	48.1%	26.0%	2.2%	0.0%	0.0%	11.6	22.0	Nov 25	40.3	Nov 19 19:00	87.4%	83.1%	0
December 2025															
Annual	7464	46.6%	35.7%	13.2%	4.5%	0.0%	0.0%	8.6	30.5	Jan 07	54.3	Feb 20 19:00	98.2%	93.4%	0

AAAQO Objectives: Annual: 24ppb, 1-Hr: 159ppb
 All equipment down in December 2025

2025 Hourly Concentration Readings of NO₂ (in ppb) at Henry Pirker

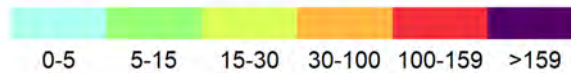
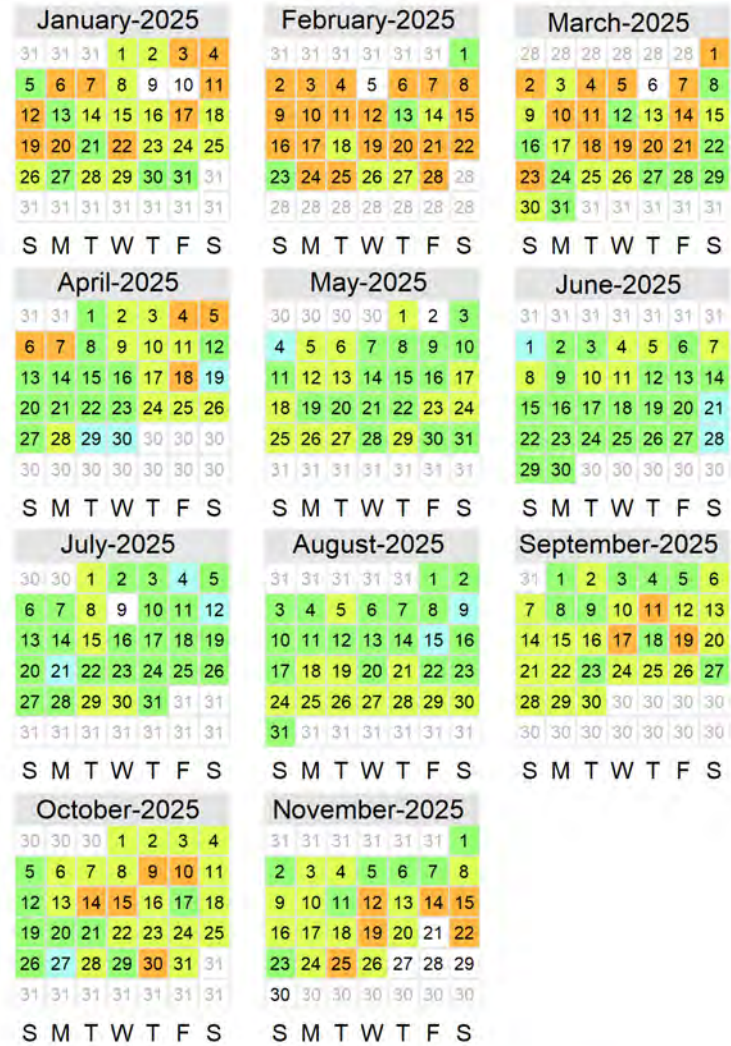






mean and 95% confidence interval in mean

Hourly Maximum NO₂ (in ppb) for 2025 at Henry Pirker



6.5 Nitric Oxide (NO) - Henry Pirker 2025 Summary

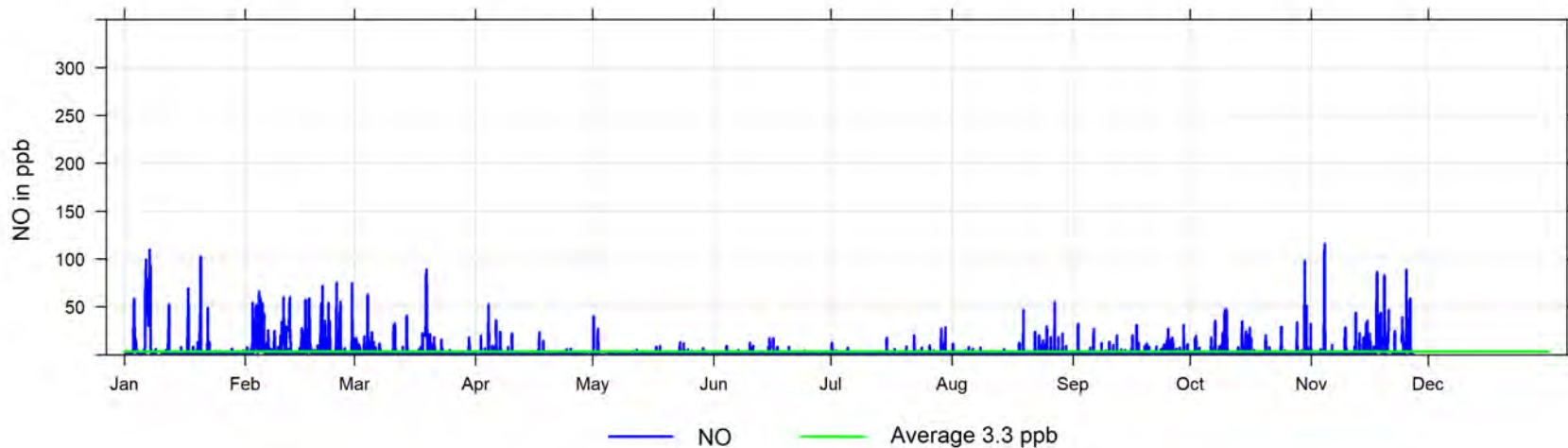
Nitric Oxide (NO) Frequency Distribution at Henry Pirker

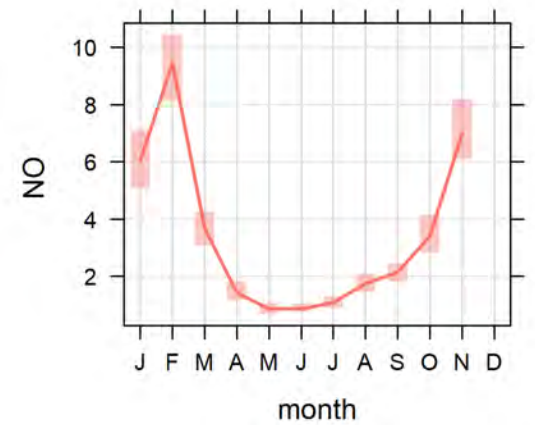
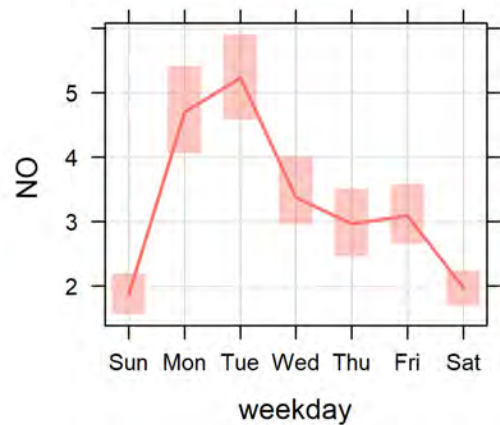
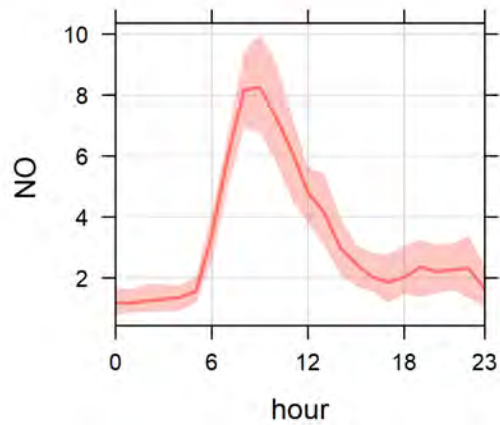
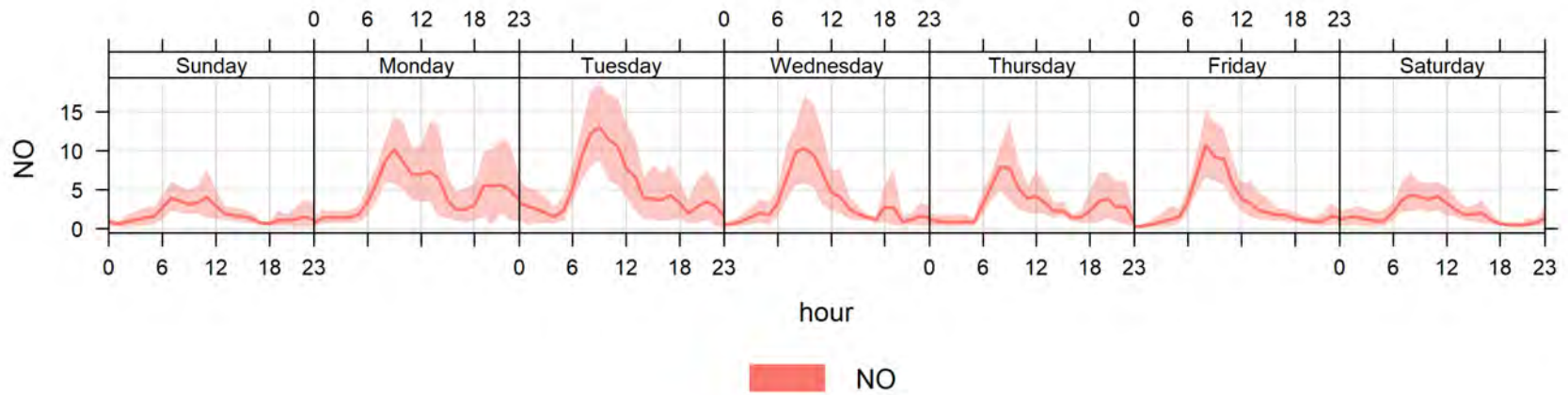
Month	Valid Hours	% of Readings in Concentration Range						Monthly Average (ppb)	MAXIMUM VALUES				Operational time (%)	Valid time (%)
		0 to 5 (ppb)	5 to 15 (ppb)	15 to 30 (ppb)	30 to 100 (ppb)	100 to 159 (ppb)	> 159 (ppb)		24-hr (ppb)	Date	1-hr (ppb)	Date		
January 2025	677	84.5%	6.2%	1.9%	7.1%	0.3%	0.0%	6.0	47.7	Jan 06	109.8	Jan 07 13:00	95.8%	91.0%
February 2025	638	61.4%	16.8%	11.3%	10.5%	0.0%	0.0%	9.4	24.5	Feb 04	75.4	Feb 24 10:00	100.0%	94.9%
March 2025	707	83.0%	11.0%	4.1%	1.8%	0.0%	0.0%	3.7	24.0	Mar 19	89.0	Mar 19 10:00	100.0%	95.0%
April 2025	685	94.0%	3.8%	1.8%	0.4%	0.0%	0.0%	1.4	7.3	Apr 06	52.8	Apr 04 08:00	100.0%	95.1%
May 2025	695	96.5%	2.9%	0.4%	0.1%	0.0%	0.0%	0.9	3.6	May 01	40.2	May 01 06:00	98.1%	93.4%
June 2025	685	96.4%	3.1%	0.6%	0.0%	0.0%	0.0%	0.9	4.1	Jun 15	17.6	Jun 16 06:00	100.0%	95.1%
July 2025	702	94.7%	4.1%	1.1%	0.0%	0.0%	0.0%	1.1	5.5	Jul 30	28.7	Jul 30 08:00	99.2%	94.4%
August 2025	706	91.6%	5.7%	2.4%	0.3%	0.0%	0.0%	1.7	5.9	Aug 25	54.9	Aug 27 08:00	99.7%	94.9%
September 2025	683	86.7%	10.4%	2.5%	0.4%	0.0%	0.0%	2.1	7.9	Sep 25	32.3	Sep 02 08:00	99.4%	94.9%
October 2025	708	84.2%	8.8%	5.1%	2.0%	0.0%	0.0%	3.4	15.3	Oct 30	97.9	Oct 30 09:00	100.0%	95.2%
November 2025	578	73.4%	11.6%	7.8%	6.9%	0.3%	0.0%	7.0	22.1	Nov 18	115.9	Nov 04 11:00	87.4%	83.1%
December 2025														
Annual	7464	86.0%	7.7%	3.5%	2.7%	0.1%	0.0%	3.3	47.7	Jan 06	115.9	Nov 04 11:00	98.2%	93.4%

AAAQO Objectives: none

All equipment down in December 2025

2025 Hourly Concentration Readings of NO (in ppb) at Henry Pirker





mean and 95% confidence interval in mean

6.6 Oxides of Nitrogen (NO_x) - Henry Pirker 2025 Summary

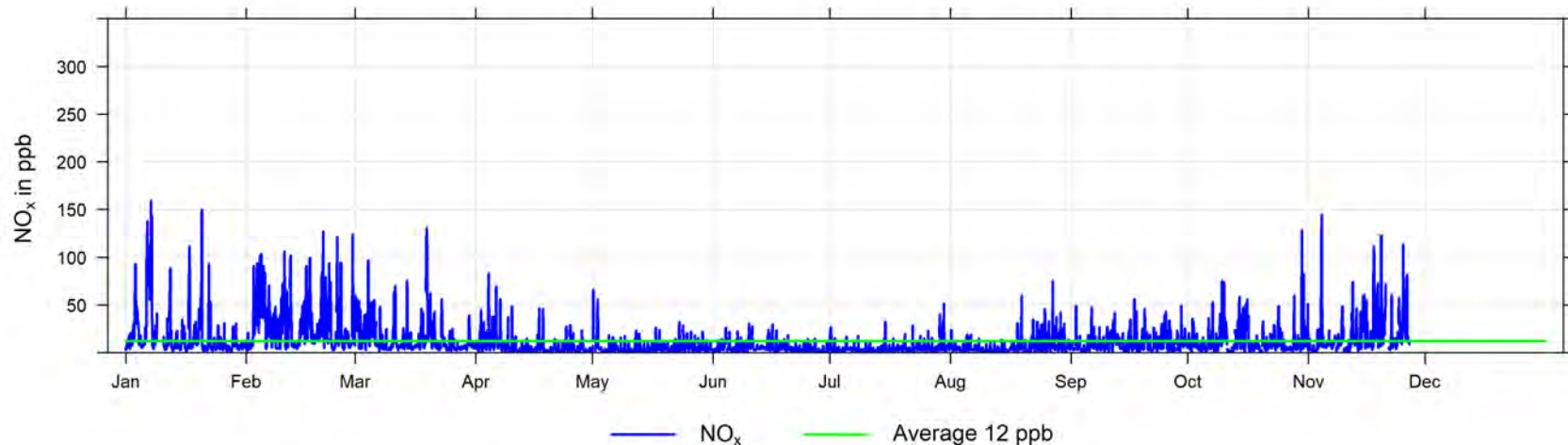
Nitrogen Oxides (NO_x) Frequency Distribution at Henry Pirker

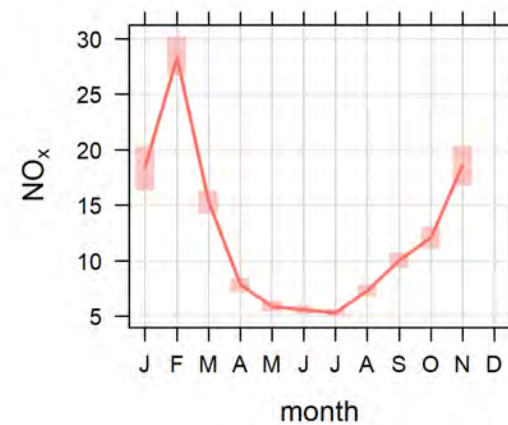
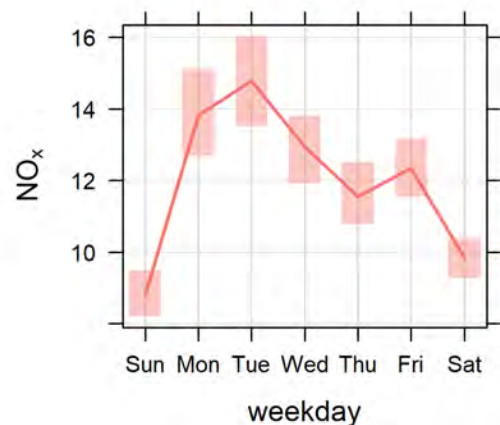
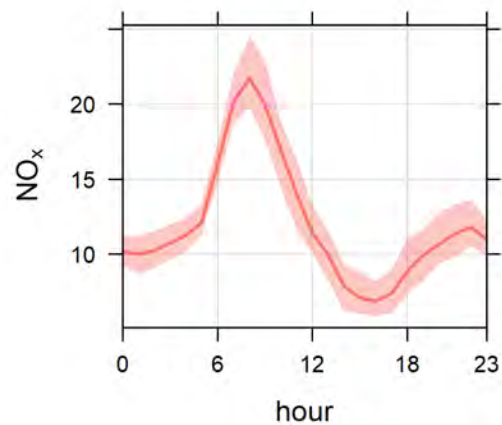
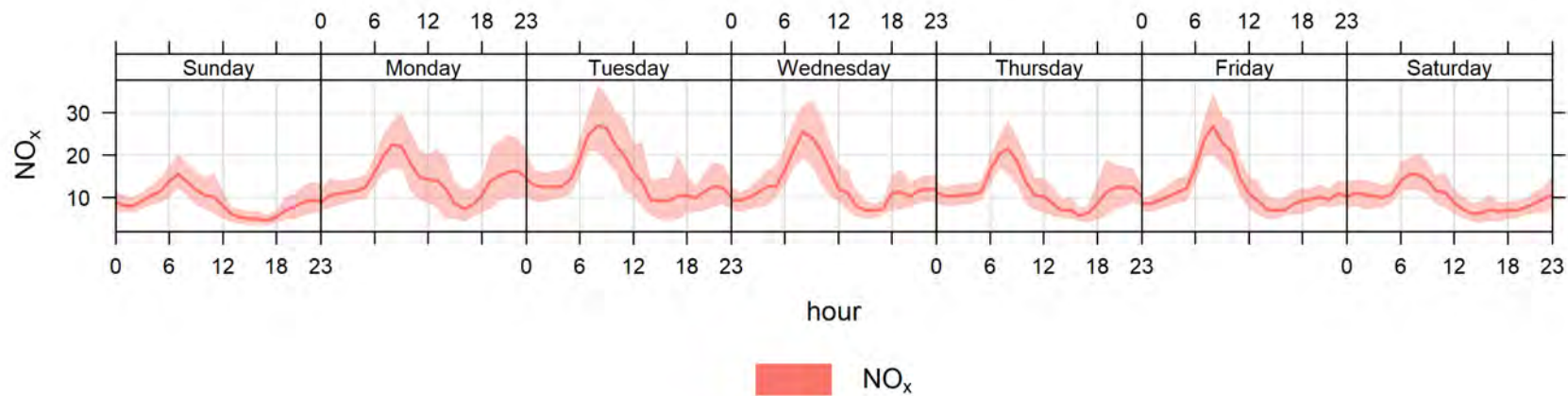
Month	Valid Hours	% of Readings in Concentration Range						Monthly Average (ppb)	MAXIMUM VALUES				Operational time (%)	Valid time (%)
		0 to 5 (ppb)	5 to 15 (ppb)	15 to 30 (ppb)	30 to 100 (ppb)	100 to 159 (ppb)	> 159 (ppb)		24-hr (ppb)	Date	1-hr (ppb)	Date		
January 2025	677	23.9%	44.9%	16.1%	13.0%	1.9%	0.1%	18.4	74.9	Jan 06	159.4	Jan 07 13:00	95.8%	91.0%
February 2025	638	9.6%	29.5%	24.9%	34.3%	1.7%	0.0%	28.3	54.5	Feb 04	126.7	Feb 20 19:00	100.0%	94.9%
March 2025	707	21.6%	47.9%	16.1%	13.9%	0.4%	0.0%	15.3	54.0	Mar 19	130.6	Mar 19 10:00	100.0%	95.0%
April 2025	685	59.1%	27.3%	8.6%	5.0%	0.0%	0.0%	7.9	21.5	Apr 04	83.4	Apr 04 08:00	100.0%	95.1%
May 2025	695	63.6%	28.1%	7.3%	1.0%	0.0%	0.0%	5.9	13.7	May 01	65.8	May 01 06:00	98.1%	93.4%
June 2025	685	61.9%	32.3%	5.7%	0.1%	0.0%	0.0%	5.6	11.8	Jun 10	30.7	Jun 10 07:00	100.0%	95.1%
July 2025	702	67.7%	26.2%	5.3%	0.9%	0.0%	0.0%	5.3	14.6	Jul 30	51.5	Jul 30 08:00	99.2%	94.4%
August 2025	706	56.8%	30.2%	10.3%	2.7%	0.0%	0.0%	7.3	17.6	Aug 27	75.3	Aug 27 08:00	99.7%	94.9%
September 2025	683	37.9%	41.3%	16.7%	4.1%	0.0%	0.0%	10.0	18.3	Sep 25	56.2	Sep 17 08:00	99.4%	94.9%
October 2025	708	37.1%	37.7%	16.2%	8.8%	0.1%	0.0%	12.1	33.8	Oct 10	128.6	Oct 30 09:00	100.0%	95.2%
November 2025	578	19.4%	43.1%	17.6%	18.9%	1.0%	0.0%	18.6	43.8	Nov 25	144.4	Nov 04 11:00	87.4%	83.1%
December 2025														
Annual	7464	41.7%	35.3%	13.2%	9.3%	0.5%	0.0%	12.0	MAXIMUM VALUES				98.2%	93.4%

AAAQO Objectives: none

All equipment down in December 2025

2025 Hourly Concentration Readings of NO_x (in ppb) at Henry Pirker





mean and 95% confidence interval in mean

6.7 Ozone (O₃) - Henry Pirker 2025 Summary

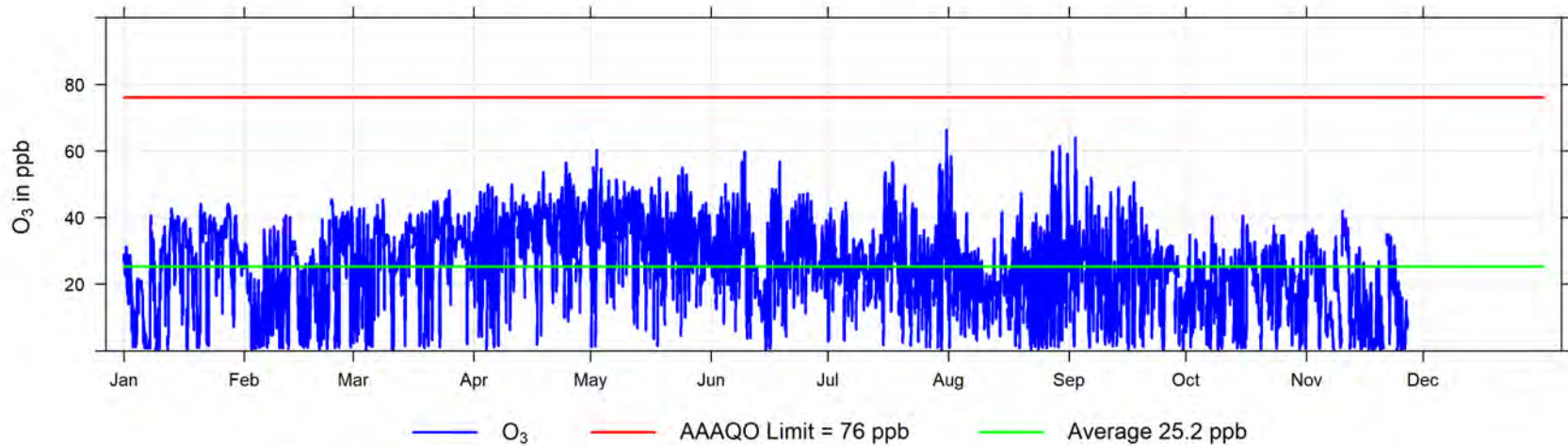
Ozone (O₃) Frequency Distribution at Henry Pirker

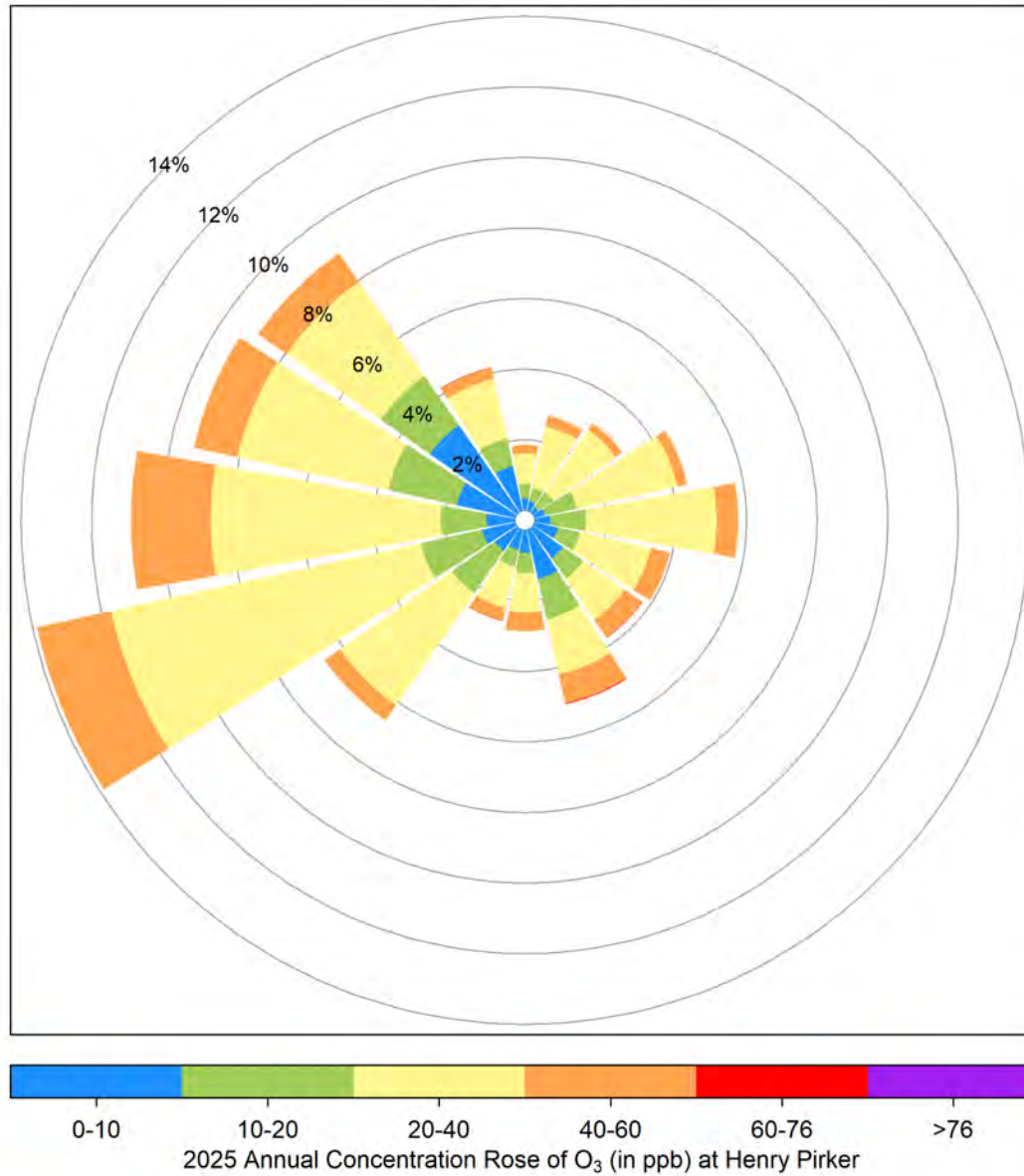
Month	Valid Hours	% of Readings in Concentration Range						Monthly Average (ppb)	MAXIMUM VALUES				Operational time (%)	Valid time (%)	Reportable Incidents 1-hr 76 ppb
		0 to 10 (ppb)	10 to 20 (ppb)	20 to 40 (ppb)	40 to 60 (ppb)	60 to 76 (ppb)	> 76 (ppb)		24-hr (ppb)	Date	1-hr (ppb)	Date			
January 2025	708	18.9%	10.3%	63.7%	7.1%	0.0%	0.0%	25.0	40.0	Jan 27	44.2	Jan 20 19:00	99.9%	95.2%	0
February 2025	641	27.8%	20.4%	46.0%	5.8%	0.0%	0.0%	20.3	41.5	Feb 23	45.4	Feb 23 12:00	100.0%	95.4%	0
March 2025	709	11.0%	8.3%	70.0%	10.7%	0.0%	0.0%	28.4	39.7	Mar 22	48.2	Mar 25 16:00	100.0%	95.3%	0
April 2025	687	5.7%	6.8%	48.3%	39.2%	0.0%	0.0%	34.2	41.3	Apr 29	56.4	Apr 24 17:00	100.0%	95.4%	0
May 2025	697	3.6%	9.8%	51.5%	35.0%	0.1%	0.0%	34.1	43.4	May 03	60.4	May 02 14:00	98.1%	93.7%	0
June 2025	687	6.4%	18.0%	56.0%	19.5%	0.0%	0.0%	28.6	42.7	Jun 09	59.8	Jun 09 15:00	99.9%	95.4%	0
July 2025	707	8.8%	20.2%	58.7%	12.0%	0.3%	0.0%	26.2	37.6	Jul 17	66.4	Jul 31 13:00	99.6%	95.0%	0
August 2025	710	20.3%	28.7%	41.8%	9.0%	0.1%	0.0%	21.5	33.5	Aug 31	61.4	Aug 29 13:00	100.0%	95.4%	0
September 2025	683	16.8%	21.2%	54.2%	7.6%	0.1%	0.0%	23.2	30.4	Sep 18	64.1	Sep 02 15:00	99.4%	94.9%	0
October 2025	709	23.7%	29.1%	46.8%	0.4%	0.0%	0.0%	18.3	29.2	Oct 17	40.6	Oct 15 15:00	100.0%	95.3%	0
November 2025	577	38.8%	21.5%	39.3%	0.3%	0.0%	0.0%	16.1	34.1	Nov 10	42.0	Nov 10 08:00	87.4%	82.9%	0
December 2025															
Annual	7515	16.5%	17.7%	52.4%	13.3%	0.1%	0.0%	25.2	43.4	MAXIMUM VALUES		98.6%	94.0%	0	
										May 03	66.4	Jul 31 13:00			

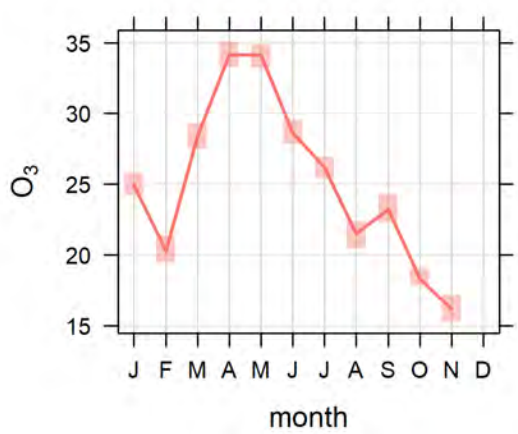
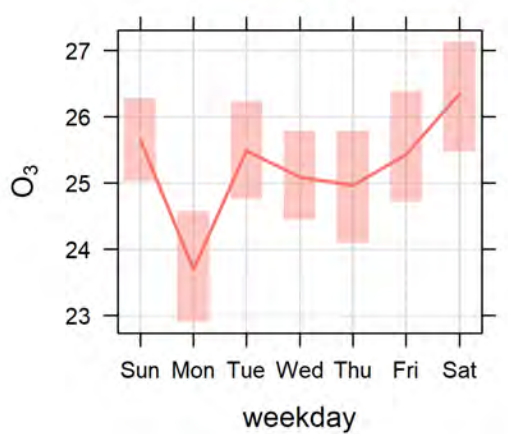
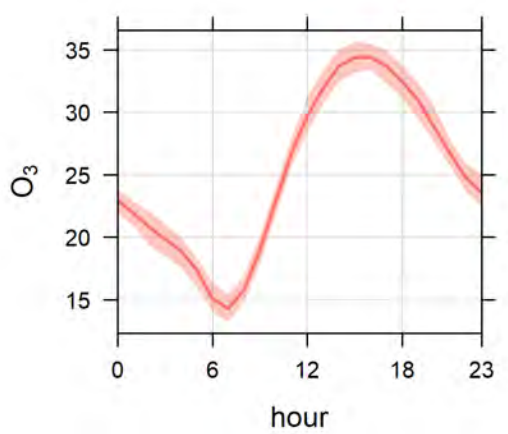
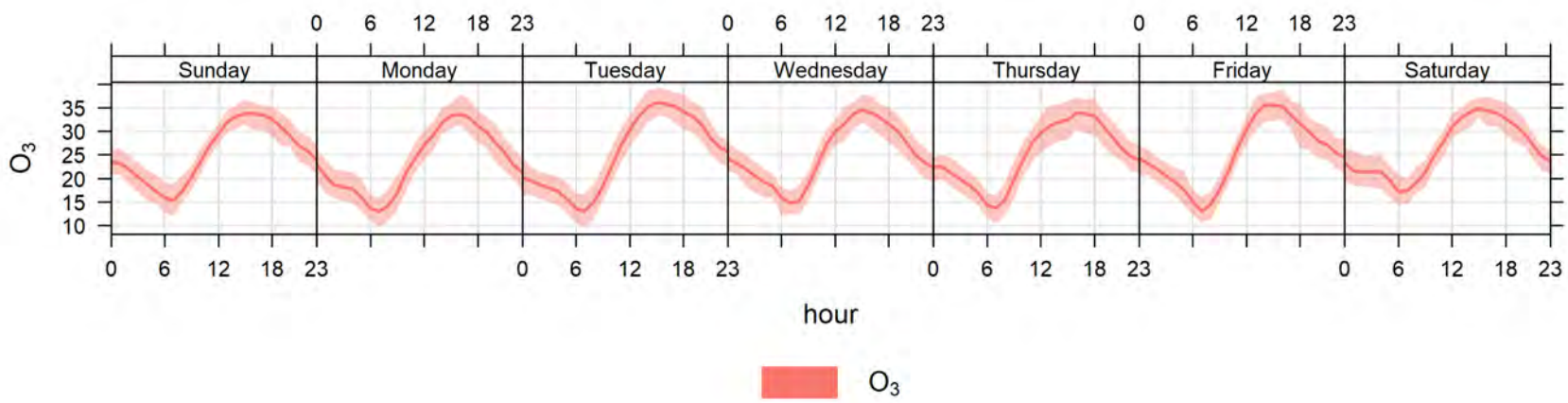
AAAQO Objectives: 1-Hr: 76ppb

All equipment down in December 2025

2025 Hourly Concentration Readings of O₃ (in ppb) at Henry Pirker

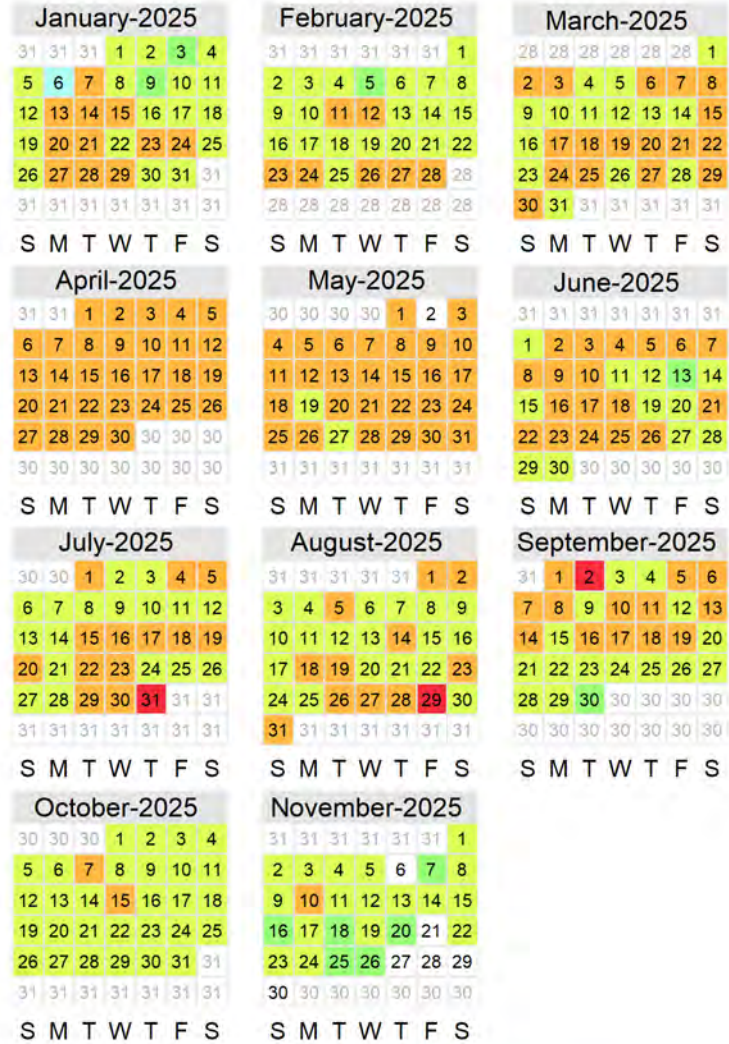






mean and 95% confidence interval in mean

Hourly Maximum O₃ (in ppb) for 2025 at Henry Pirker



6.8 Total Hydrocarbons (THC) - Henry Pirker 2025 Summary

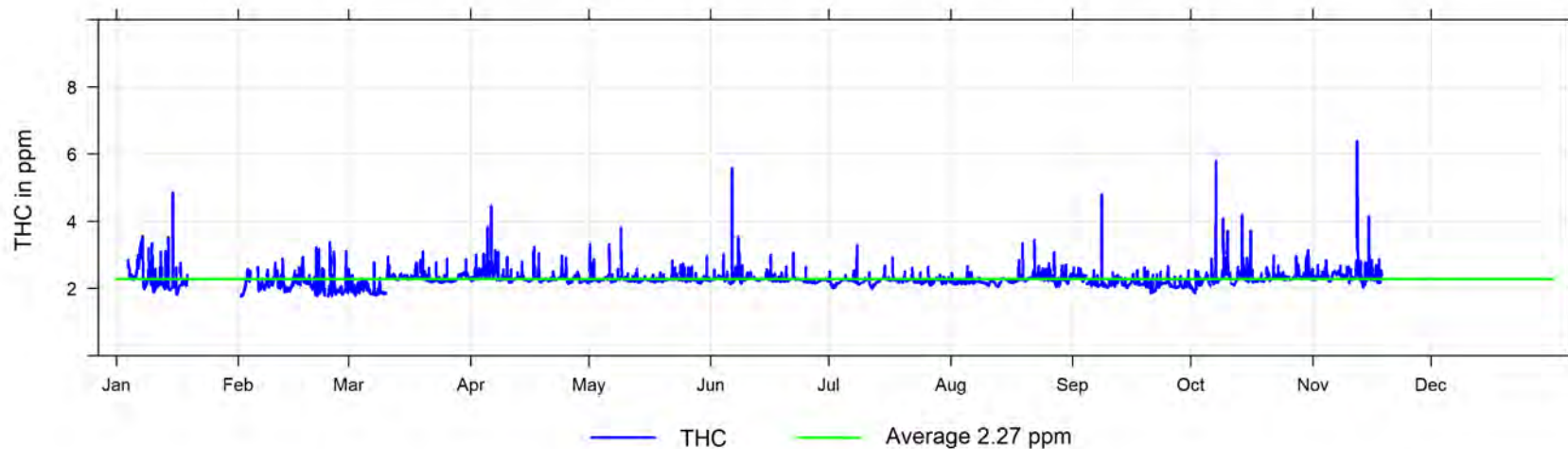
Total Hydrocarbons (THC) Frequency Distribution at Henry Pirker

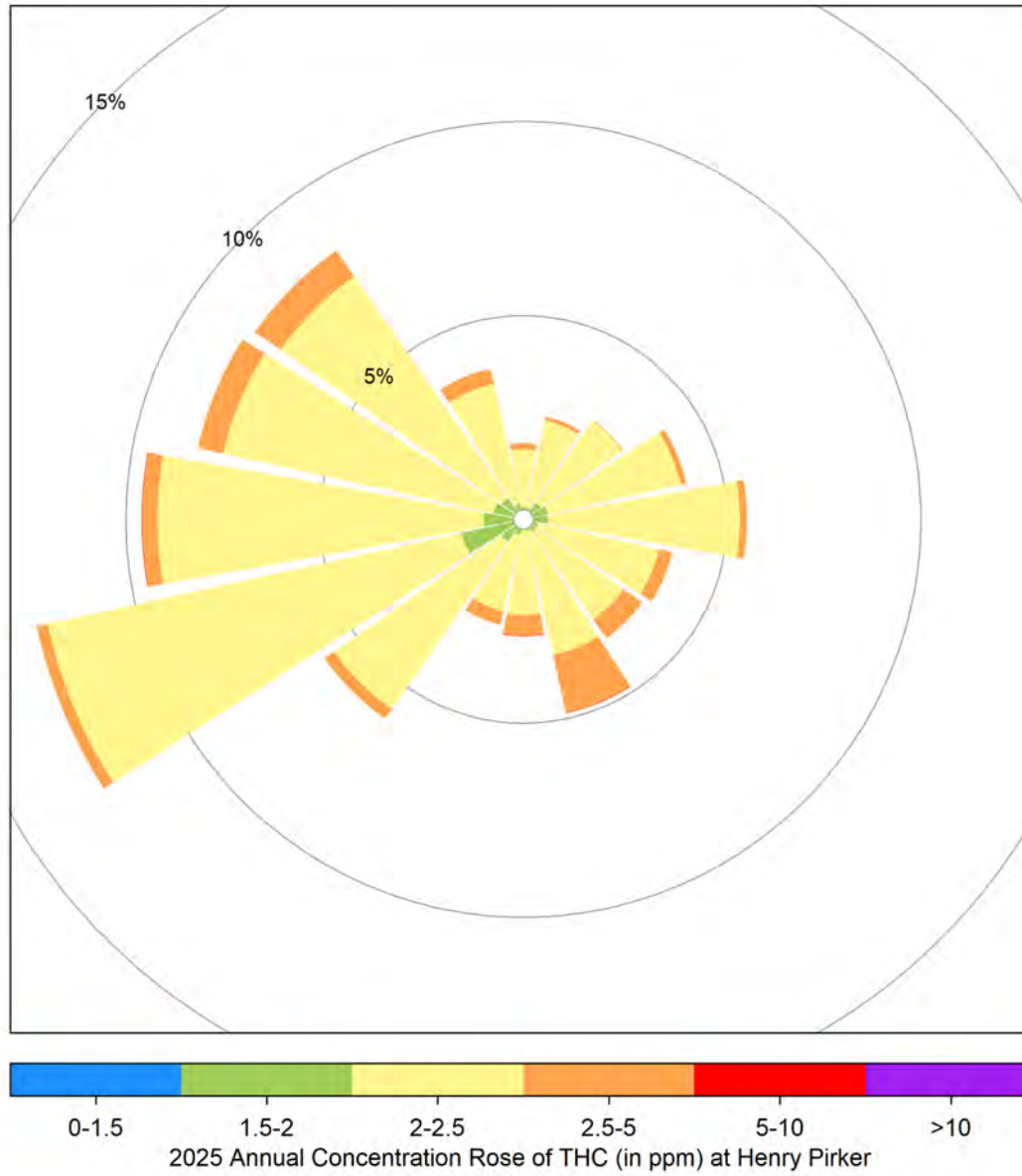
Month	Valid Hours	% of Readings in Concentration Range						Monthly Average (ppm)	MAXIMUM VALUES				Operational time (%)	Valid time (%)
		0 to 1.5 (ppm)	1.5 to 2 (ppm)	2 to 2.5 (ppm)	2.5 to 5 (ppm)	5 to 10 (ppm)	> 10 (ppm)		24-hr (ppm)	Date	1-hr (ppm)	Date		
January 2025	350	0.0%	16.6%	60.3%	23.1%	0.0%	0.0%	2.31	2.9	Jan 07	4.9	Jan 15 09:00	50.0%	47.0%
February 2025	577	0.0%	33.3%	56.5%	10.2%	0.0%	0.0%	2.15	2.4	Feb 17	3.4	Feb 24 06:00	90.3%	85.1%
March 2025	701	0.0%	19.7%	74.2%	6.1%	0.0%	0.0%	2.23	2.5	Mar 19	3.1	Mar 19 22:00	98.9%	94.2%
April 2025	685	0.0%	0.0%	88.3%	11.7%	0.0%	0.0%	2.34	2.7	Apr 06	4.5	Apr 06 06:00	100.0%	95.1%
May 2025	696	0.0%	0.0%	94.3%	5.7%	0.0%	0.0%	2.29	2.5	May 09	3.8	May 09 04:00	98.1%	93.6%
June 2025	686	0.0%	0.0%	94.9%	5.0%	0.1%	0.0%	2.30	2.6	Jun 06	5.6	Jun 06 10:00	100.0%	95.3%
July 2025	697	0.0%	0.9%	96.8%	2.3%	0.0%	0.0%	2.23	2.3	Jul 17	3.3	Jul 08 05:00	98.5%	93.7%
August 2025	709	0.0%	0.0%	92.1%	7.9%	0.0%	0.0%	2.27	2.5	Aug 22	3.4	Aug 22 06:00	100.0%	95.3%
September 2025	673	0.0%	5.1%	92.1%	2.8%	0.0%	0.0%	2.17	2.4	Sep 02	4.8	Sep 08 09:00	98.1%	93.5%
October 2025	708	0.0%	3.1%	84.3%	12.4%	0.1%	0.0%	2.35	2.7	Oct 09	5.8	Oct 07 09:00	100.0%	95.2%
November 2025	396	0.0%	0.0%	84.8%	14.9%	0.3%	0.0%	2.40	3.1	Nov 12	6.4	Nov 12 06:00	61.1%	56.9%
December 2025														
Annual	6878	0.0%	7.1%	83.5%	9.3%	0.0%	0.0%	2.27	3.1	Nov 12	6.4	Nov 12 06:00	90.5%	85.9%

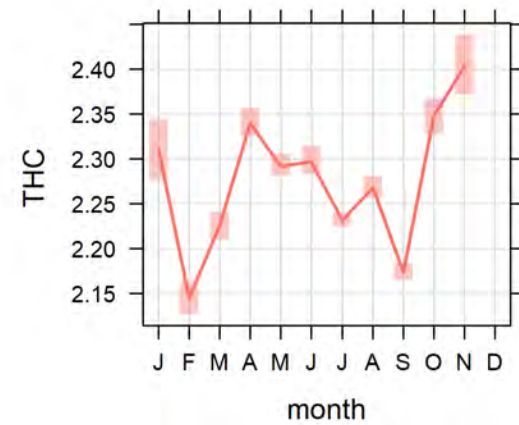
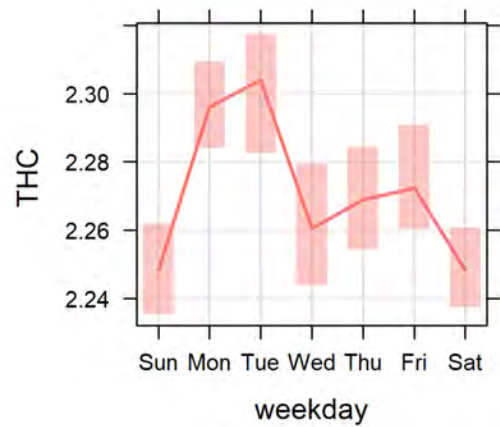
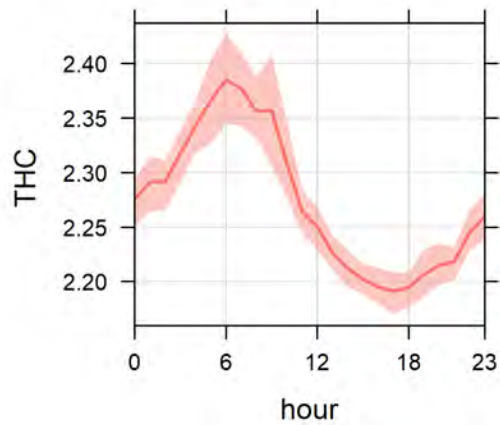
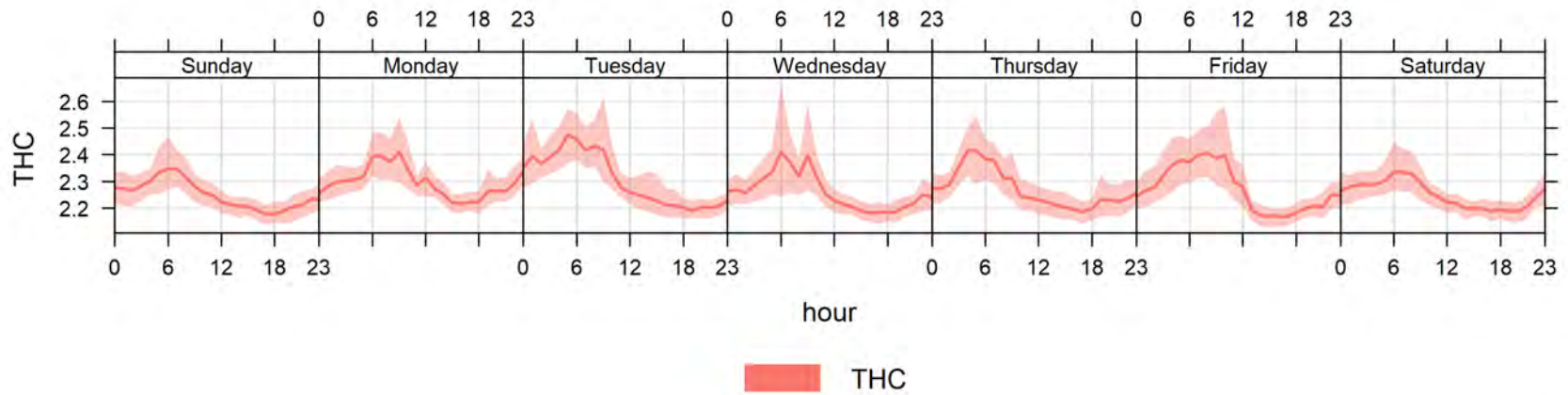
AAAQO Objectives: none

If valid time is <75%, monthly average is not valid, shown for reference only; All equipment down in December 2025

2025 Hourly Concentration Readings of THC (in ppm) at Henry Pirker

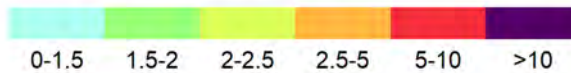
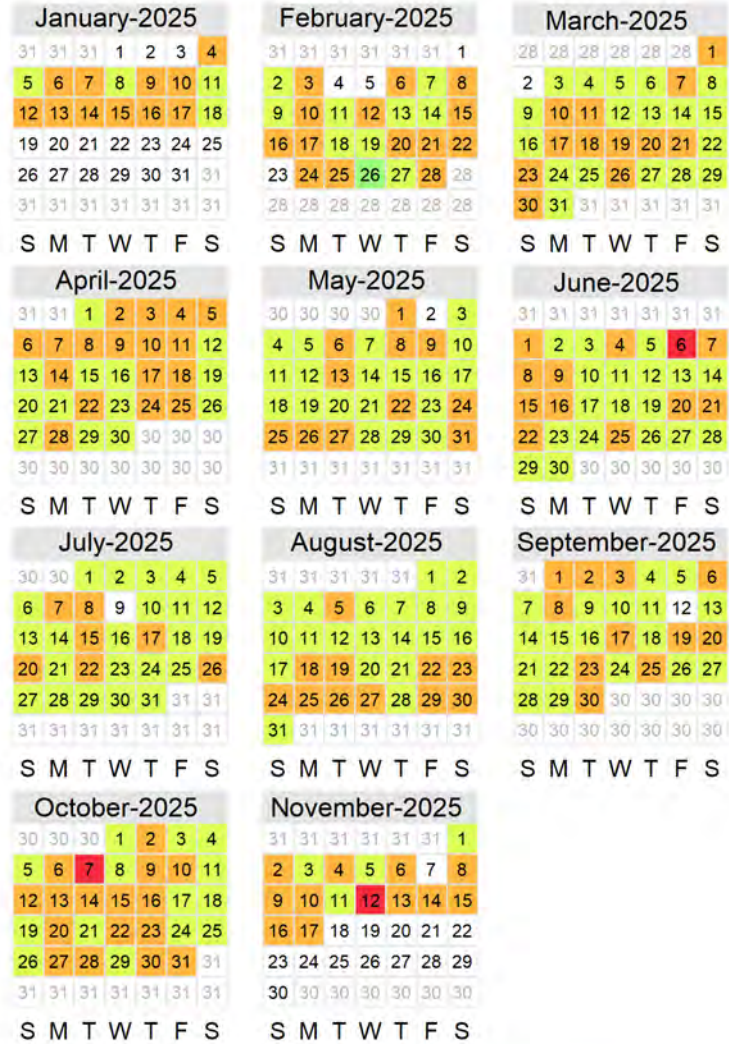






mean and 95% confidence interval in mean

Hourly Maximum THC (in ppm) for 2025 at Henry Pirker



6.9 Methane (CH₄) - Henry Pirker 2025 Summary

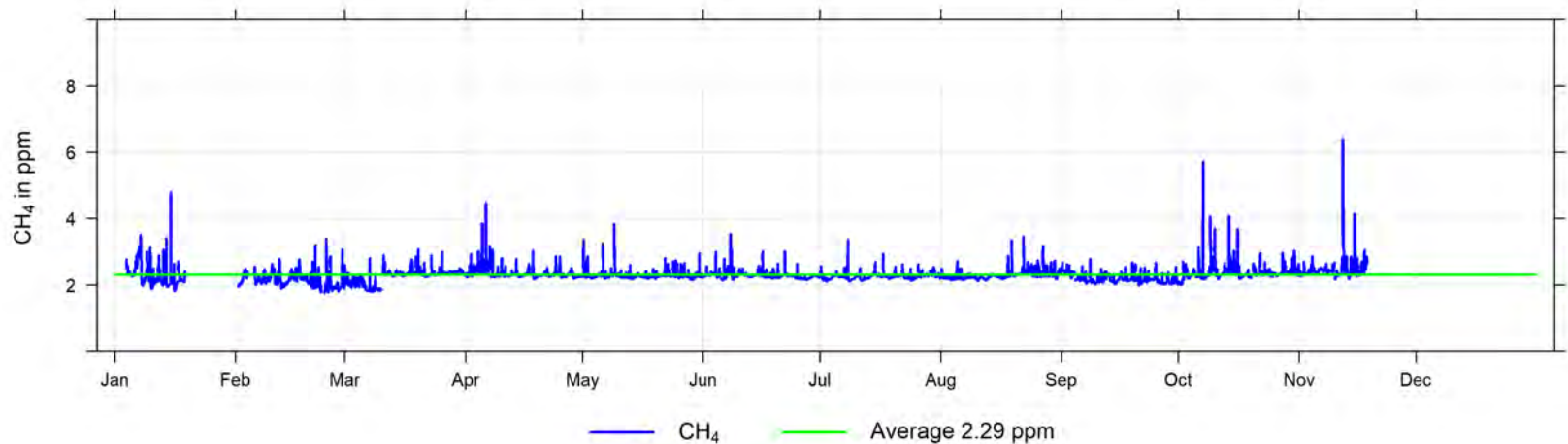
Methane (CH₄) Frequency Distribution at Henry Pirker

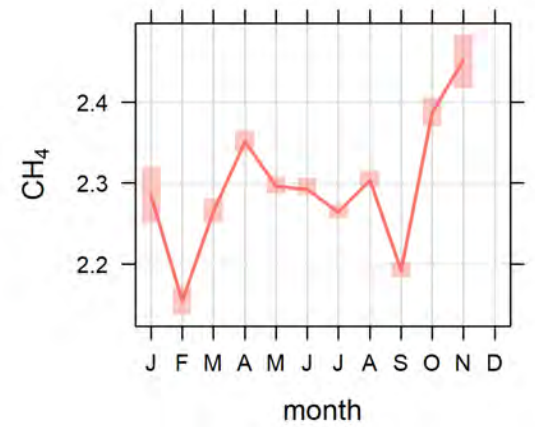
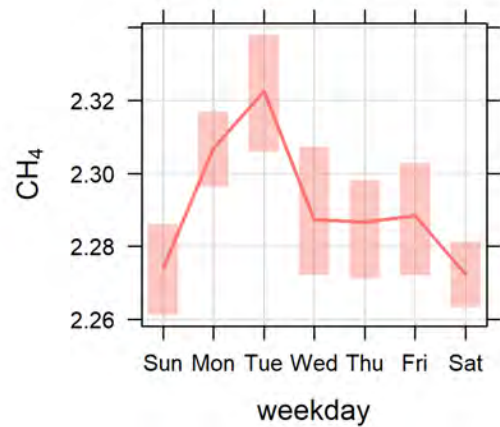
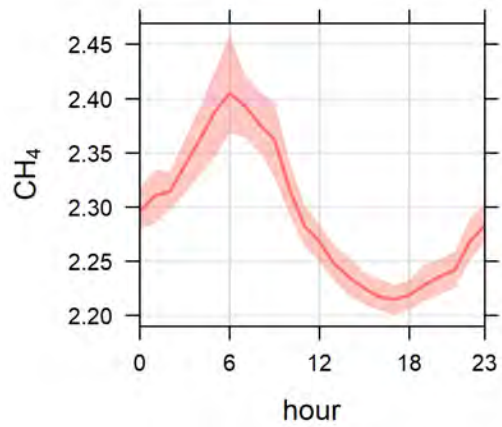
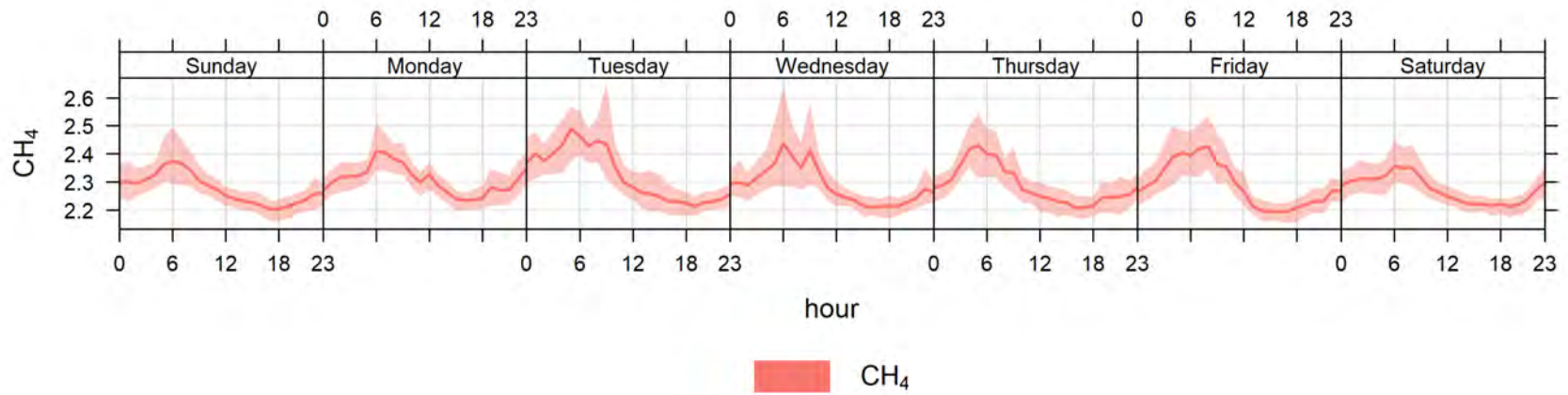
Month	Valid Hours	% of Readings in Concentration Range						Monthly Average (ppm)	24-hr (ppm)	MAXIMUM VALUES		Operational time (%)	Valid time (%)
		0 to 1.5 (ppm)	1.5 to 2 (ppm)	2 to 2.5 (ppm)	2.5 to 5 (ppm)	5 to 10 (ppm)	> 10 (ppm)			Date	1-hr (ppm) Date		
January 2025	350	0.0%	15.4%	64.0%	20.6%	0.0%	0.0%	2.28	2.8	Jan 07	4.8 Jan 15 09:00	50.0%	47.0%
February 2025	577	0.0%	24.8%	68.1%	7.1%	0.0%	0.0%	2.15	2.4	Feb 10	3.4 Feb 24 06:00	91.1%	85.9%
March 2025	701	0.0%	16.8%	75.9%	7.3%	0.0%	0.0%	2.26	2.6	Mar 19	3.1 Mar 19 22:00	98.9%	94.2%
April 2025	685	0.0%	0.0%	88.5%	11.5%	0.0%	0.0%	2.35	2.7	Apr 06	4.5 Apr 06 06:00	100.0%	95.1%
May 2025	696	0.0%	0.0%	94.0%	6.0%	0.0%	0.0%	2.30	2.5	May 09	3.8 May 09 04:00	98.1%	93.6%
June 2025	686	0.0%	0.0%	95.0%	5.0%	0.0%	0.0%	2.29	2.4	Jun 08	3.5 Jun 08 01:00	100.0%	95.3%
July 2025	697	0.0%	0.0%	96.0%	4.0%	0.0%	0.0%	2.26	2.4	Jul 30	3.4 Jul 08 05:00	98.5%	93.7%
August 2025	709	0.0%	0.0%	90.0%	10.0%	0.0%	0.0%	2.30	2.5	Aug 22	3.5 Aug 22 06:00	100.0%	95.3%
September 2025	673	0.0%	1.0%	94.9%	4.0%	0.0%	0.0%	2.19	2.5	Sep 01	2.8 Sep 08 09:00	98.1%	93.5%
October 2025	708	0.0%	0.1%	86.2%	13.6%	0.1%	0.0%	2.39	2.7	Oct 09	5.7 Oct 07 09:00	100.0%	95.2%
November 2025	396	0.0%	0.0%	80.1%	19.7%	0.3%	0.0%	2.45	3.0	Nov 12	6.4 Nov 12 06:00	61.1%	56.9%
December 2025													
Annual	6878	0.0%	5.3%	84.8%	9.9%	0.0%	0.0%	2.29	3.0	MAXIMUM VALUES		90.5%	86.0%

AAAQO Objectives: none

If valid time is <75%, monthly average is not valid, shown for reference only; All equipment down in December 2025

2025 Hourly Concentration Readings of CH₄ (in ppm) at Henry Pirker





mean and 95% confidence interval in mean

6.10 Nonmethane Hydrocarbons (NMHC) - Henry Pirker 2025 Summary

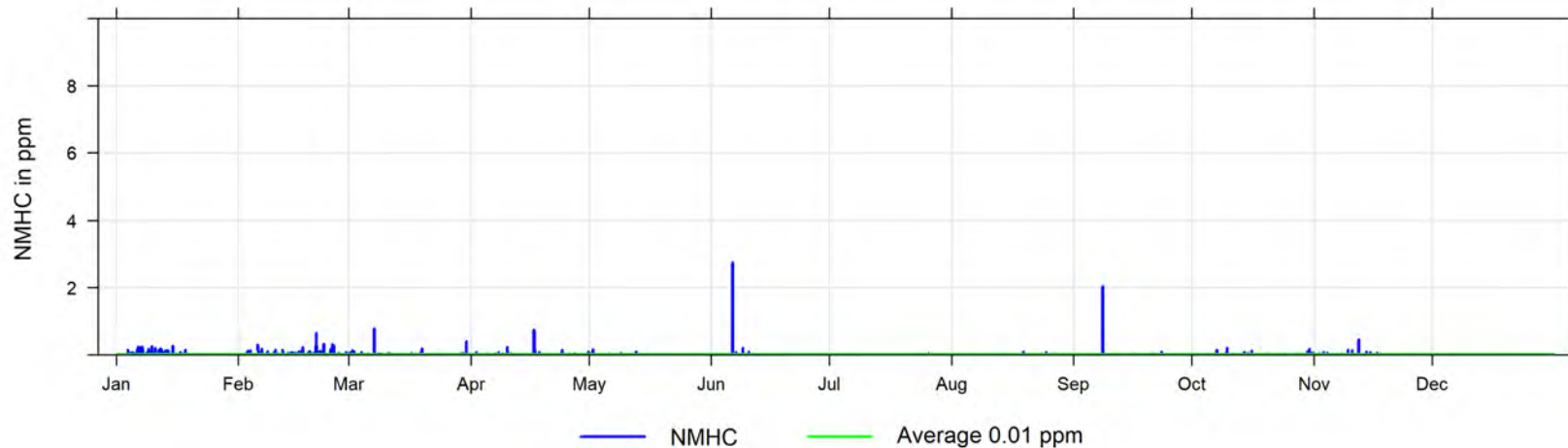
Nonmethane Hydrocarbons (NMHC) Frequency Distribution at Henry Pirker

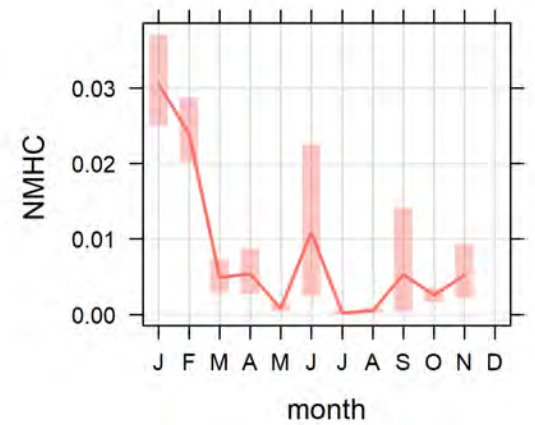
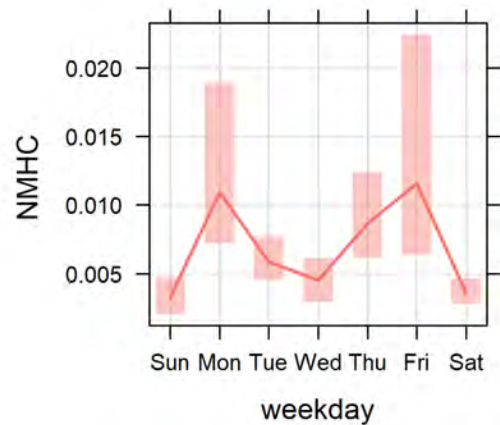
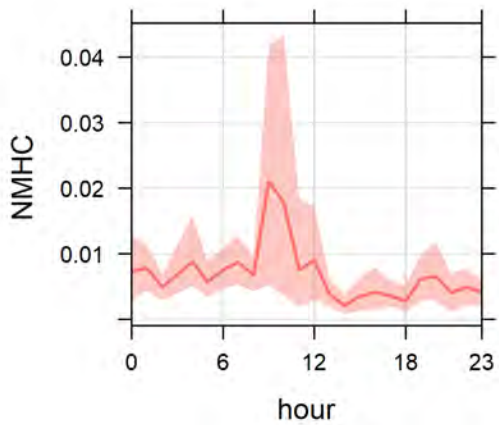
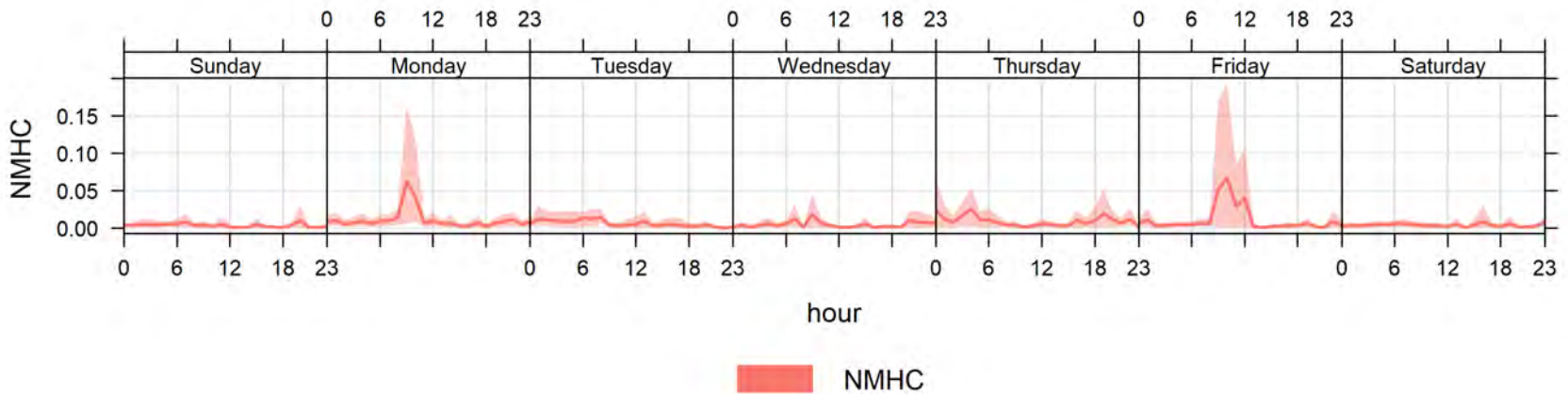
Month	Valid Hours	% of Readings in Concentration Range						Monthly Average (ppm)	24-hr (ppm)	MAXIMUM VALUES		Operational time (%)	Valid time (%)
		0 to 0.25 (ppm)	0.25 to 0.5 (ppm)	0.5 to 0.75 (ppm)	0.75 to 1 (ppm)	1 to 2 (ppm)	>2 (ppm)			Date	1-hr (ppm) Date		
January 2025	350	99.7%	0.3%	0.0%	0.0%	0.0%	0.0%	0.03	0.1	Jan 07	0.3 Jan 15 09:00	50.0%	47.0%
February 2025	577	98.1%	1.7%	0.2%	0.0%	0.0%	0.0%	0.02	0.1	Feb 20	0.6 Feb 20 19:00	91.1%	85.9%
March 2025	701	99.7%	0.1%	0.0%	0.1%	0.0%	0.0%	0.00	0.0	Mar 07	0.8 Mar 07 12:00	98.9%	94.2%
April 2025	685	99.6%	0.1%	0.3%	0.0%	0.0%	0.0%	0.01	0.1	Apr 17	0.7 Apr 17 00:00	100.0%	95.1%
May 2025	696	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00	0.0	May 01	0.2 May 02 00:00	98.1%	93.6%
June 2025	686	99.4%	0.0%	0.0%	0.1%	0.1%	0.3%	0.01	0.3	Jun 06	2.8 Jun 06 10:00	100.0%	95.3%
July 2025	697	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00	0.0	Jul 26	0.1 Jul 26 04:00	98.5%	93.7%
August 2025	709	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00	0.0	Aug 19	0.1 Aug 19 06:00	100.0%	95.3%
September 2025	673	99.7%	0.0%	0.0%	0.0%	0.1%	0.1%	0.01	0.1	Sep 08	2.0 Sep 08 09:00	98.1%	93.5%
October 2025	708	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.00	0.0	Oct 30	0.2 Oct 09 22:00	100.0%	95.2%
November 2025	396	99.5%	0.5%	0.0%	0.0%	0.0%	0.0%	0.01	0.0	Nov 12	0.5 Nov 12 09:00	61.1%	56.9%
December 2025													
Annual	6878	99.6%	0.3%	0.0%	0.0%	0.0%	0.0%	0.01	0.3	MAXIMUM VALUES Jun 06 2.8 Jun 06 10:00		90.5%	86.0%

AAAQO Objectives: none

If valid time is <75%, monthly average is not valid, shown for reference only; All equipment down in December 2025

2025 Hourly Concentration Readings of NMHC (in ppm) at Henry Pirker





mean and 95% confidence interval in mean

6.11 Carbon Monoxide (CO) - Henry Pirker 2025 Summary

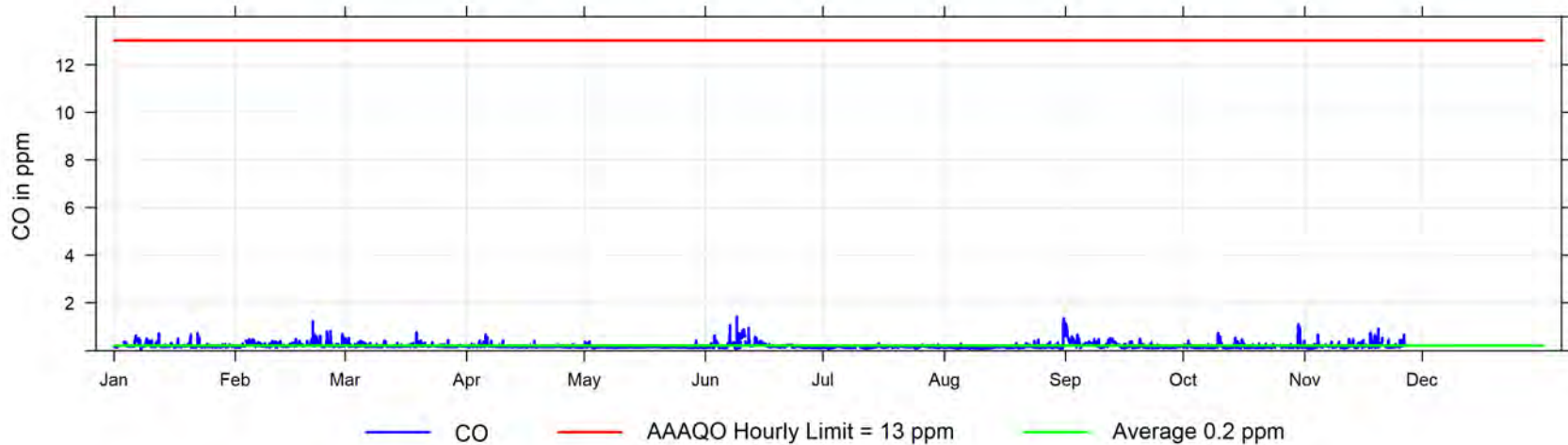
Carbon Monoxide (CO) Frequency Distribution at Henry Pirker

Month	Valid Hours	% of Readings in Concentration Range						Monthly Average (ppm)	MAXIMUM VALUES				Operational time (%)	Valid time (%)	Reportable Incidents		
		0 to 0.1 (ppm)	0.1 to 1 (ppm)	1 to 2.5 (ppm)	2.5 to 5 (ppm)	5 to 13 (ppm)	> 13 (ppm)		24-hr (ppm)	Date	1-hr (ppm)	Date			8-hr 5 ppm	1-hr 13 ppm	
January 2025	678	0.6%	99.4%	0.0%	0.0%	0.0%	0.0%	0.2	0.4	Jan 06	0.8	Jan 22 09:00	95.6%	91.1%	0	0	
February 2025	639	0.0%	99.8%	0.2%	0.0%	0.0%	0.0%	0.2	0.4	Feb 20	1.3	Feb 20 19:00	99.7%	95.1%	0	0	
March 2025	709	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.2	0.4	Mar 01	0.8	Mar 19 06:00	100.0%	95.3%	0	0	
April 2025	686	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.2	0.3	Apr 06	0.7	Apr 05 21:00	100.0%	95.3%	0	0	
May 2025	694	2.2%	97.8%	0.0%	0.0%	0.0%	0.0%	0.1	0.2	May 01	0.4	May 29 15:00	98.1%	93.3%	0	0	
June 2025	686	3.9%	95.5%	0.6%	0.0%	0.0%	0.0%	0.2	0.7	Jun 10	1.4	Jun 09 02:00	100.0%	95.3%	0	0	
July 2025	684	13.6%	86.4%	0.0%	0.0%	0.0%	0.0%	0.1	0.2	Jul 26	0.3	Jul 15 06:00	96.5%	91.9%	0	0	
August 2025	709	25.8%	73.3%	0.8%	0.0%	0.0%	0.0%	0.2	0.7	Aug 31	1.4	Aug 31 12:00	100.0%	95.3%	0	0	
September 2025	684	4.8%	94.7%	0.4%	0.0%	0.0%	0.0%	0.2	0.6	Sep 01	1.1	Sep 01 01:00	99.4%	95.0%	0	0	
October 2025	686	12.5%	87.3%	0.1%	0.0%	0.0%	0.0%	0.2	0.4	Oct 30	1.1	Oct 30 09:00	96.9%	92.2%	0	0	
November 2025	577	7.1%	92.9%	0.0%	0.0%	0.0%	0.0%	0.2	0.3	Nov 18	0.9	Nov 19 19:00	87.4%	82.9%	0	0	
December 2025																	
Annual	7432	6.4%	0.0%	0.2%	0.0%	0.0%	0.0%	0.2	0.7	MAXIMUM VALUES		1.4	Jun 09 02:00	97.6%	93.0%	0	0

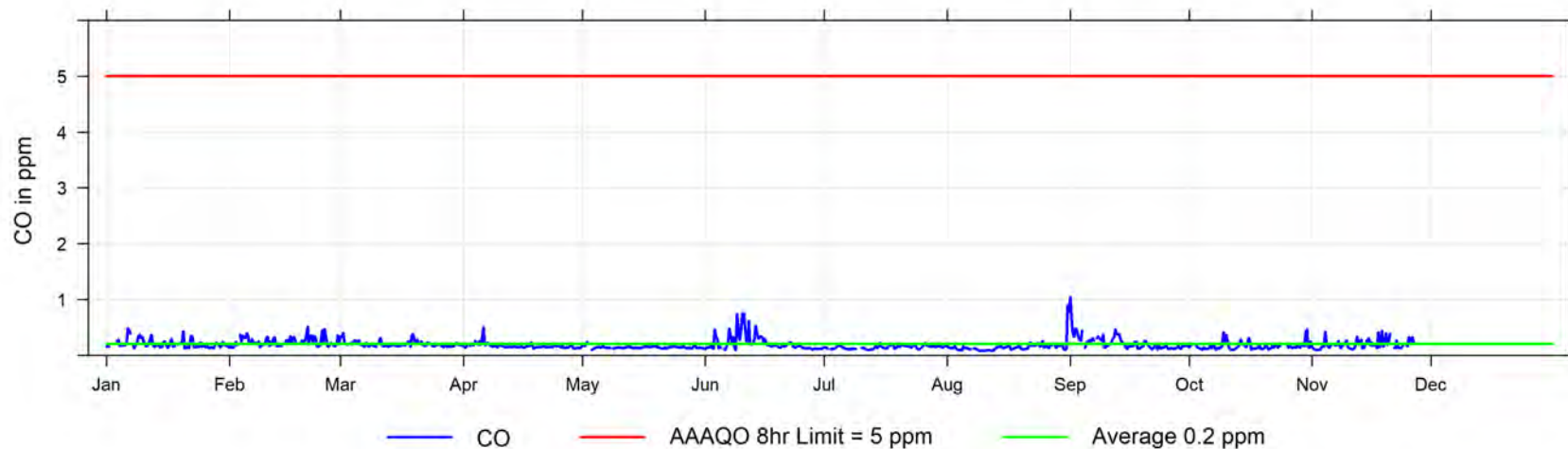
AAAQO Objectives: 8-Hr: 5ppm, 1-Hr: 13ppm

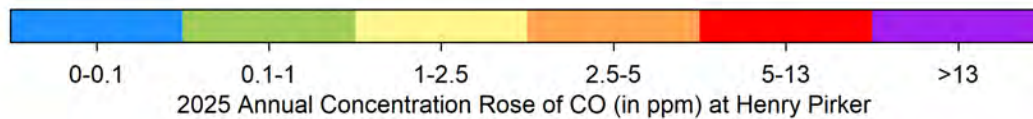
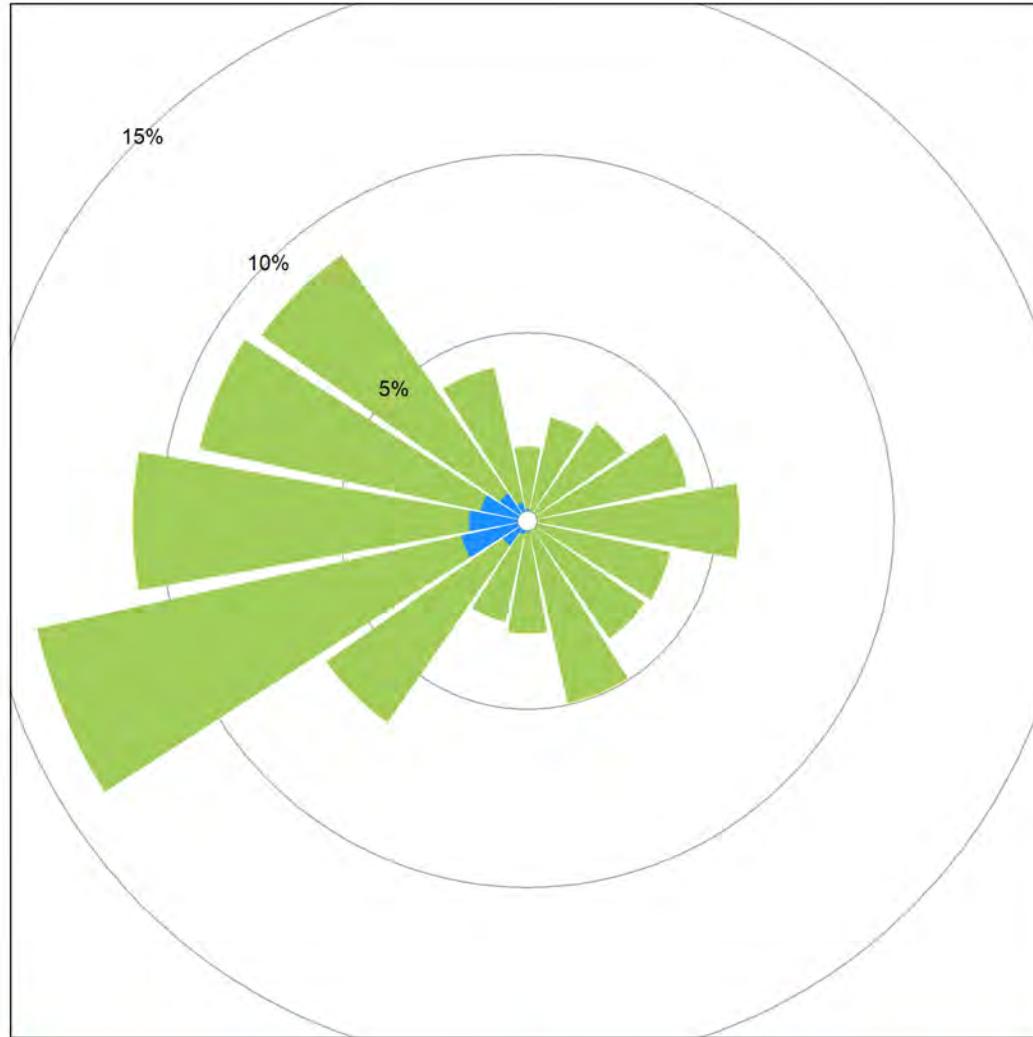
All equipment down in December 2025

2025 Hourly Concentration Readings of CO (in ppm) at Henry Pirker

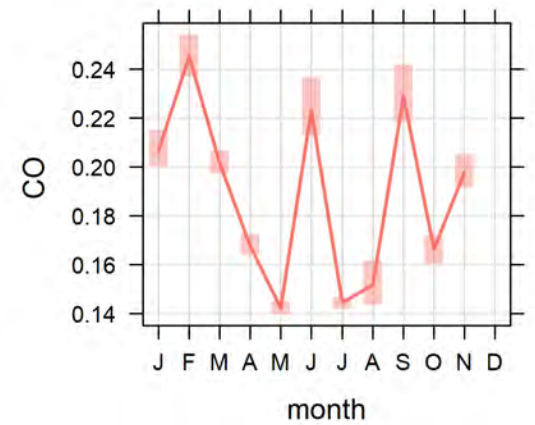
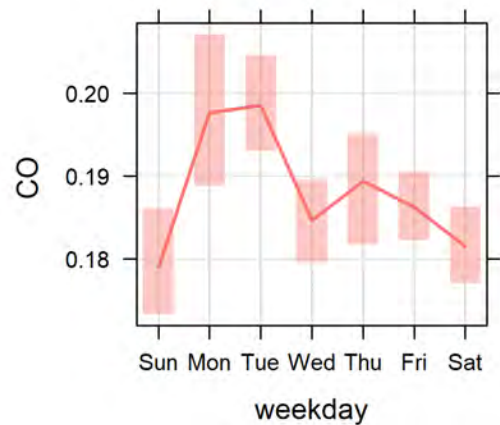
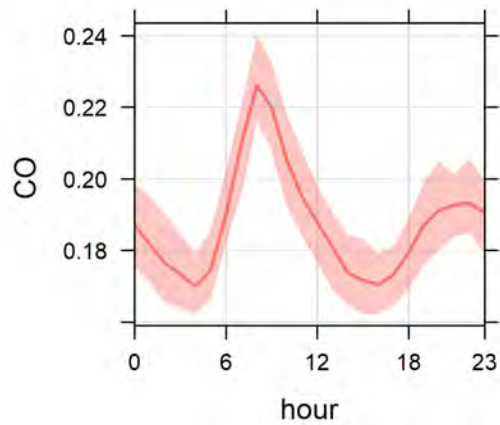
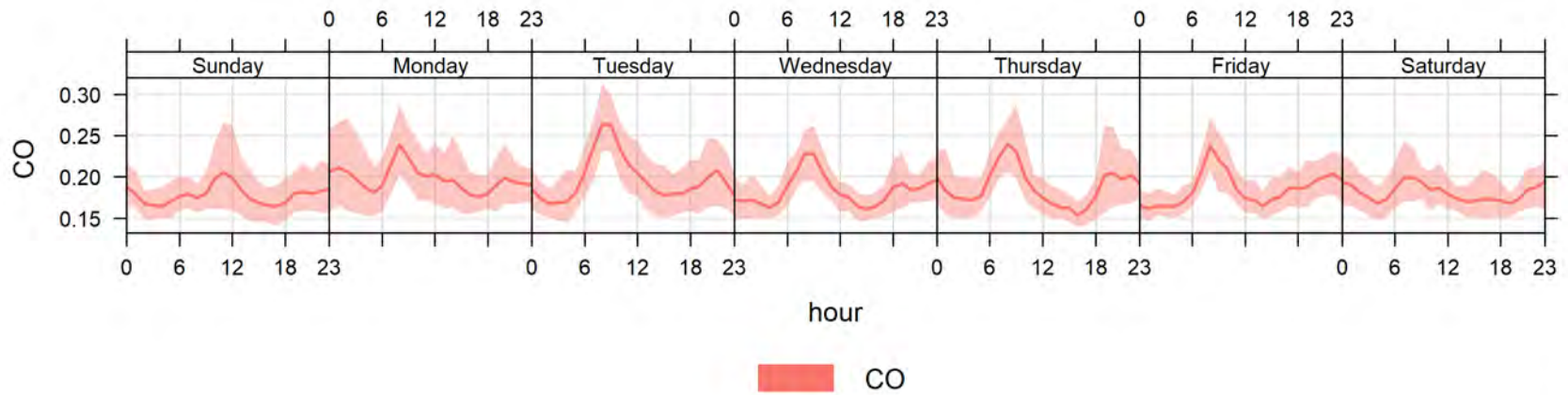


2025 8hr Concentration Readings of CO (in ppm) at Henry Pirker



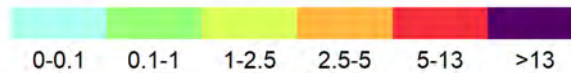
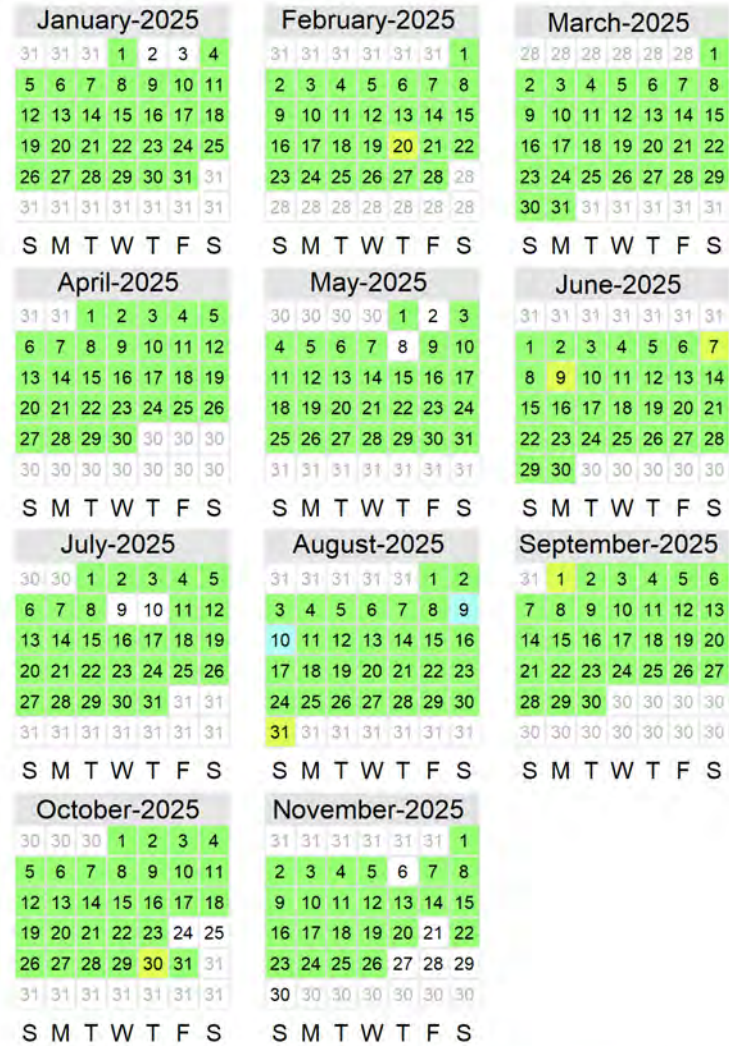


2025 Annual Concentration Rose of CO (in ppm) at Henry Pirker



mean and 95% confidence interval in mean

Hourly Maximum CO (in ppm) for 2025 at Henry Pirker



6.12 Particulate Matter (PM_{2.5}) - Henry Pirker 2025 Summary

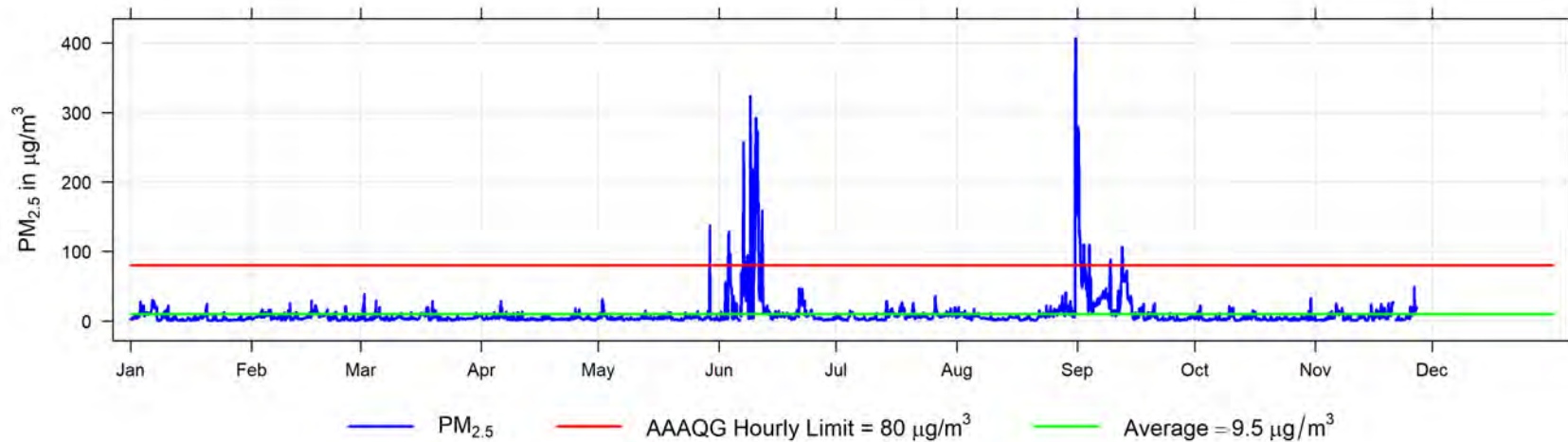
Particulate Matter (PM_{2.5}) Frequency Distribution at Henry Pirker

Month	Valid Hours	% of Readings in Concentration Range						Monthly Average (µg/m ³)	MAXIMUM VALUES				Operational time (%)	Valid time (%)	Reportable Incidents	
		0 to 5 (µg/m ³)	5 to 15 (µg/m ³)	15 to 30 (µg/m ³)	30 to 50 (µg/m ³)	50 to 80 (µg/m ³)	> 80 (µg/m ³)		24-hr (µg/m ³)	Date	1-hr (µg/m ³)	Date			24-hr 29 µg/m ³	1-hr 80 µg/m ³
January 2025	743	68.6%	23.0%	8.2%	0.1%	0.0%	0.0%	5.1	20.2	Jan 06	30.4	Jan 06 13:00	100.0%	99.9%	0	0
February 2025	671	50.1%	46.2%	3.7%	0.0%	0.0%	0.0%	5.9	14.9	Feb 17	29.1	Feb 16 09:00	100.0%	99.9%	0	0
March 2025	742	67.7%	28.3%	3.9%	0.1%	0.0%	0.0%	5.1	11.4	Mar 01	38.7	Mar 01 23:00	100.0%	99.7%	0	0
April 2025	719	78.9%	19.3%	1.8%	0.0%	0.0%	0.0%	4.0	10.0	Apr 06	28.6	Apr 06 01:00	100.0%	99.9%	0	0
May 2025	730	74.7%	23.4%	1.4%	0.1%	0.3%	0.1%	4.6	18.2	May 29	137.8	May 29 15:00	98.3%	98.1%	0	1
June 2025	718	35.5%	34.8%	8.5%	7.9%	4.5%	8.8%	26.1	192.7	Jun 10	323.7	Jun 09 01:00	100.0%	99.7%	8	63
July 2025	742	40.6%	50.1%	8.9%	0.4%	0.0%	0.0%	7.2	16.8	Jul 26	35.8	Jul 26 12:00	99.9%	99.7%	0	0
August 2025	743	44.0%	43.5%	9.6%	0.8%	0.1%	2.0%	12.3	163.7	Aug 31	406.6	Aug 31 12:00	100.0%	99.9%	1	15
September 2025	714	36.7%	21.0%	14.4%	13.6%	9.2%	5.0%	24.3	156.8	Sep 01	279.7	Sep 01 04:00	99.4%	99.2%	10	36
October 2025	742	78.8%	19.3%	1.8%	0.1%	0.0%	0.0%	3.8	11.7	Oct 10	32.6	Oct 30 20:00	100.0%	99.7%	0	0
November 2025	607	55.4%	33.6%	10.7%	0.3%	0.0%	0.0%	6.6	19.9	Nov 26	48.8	Nov 26 10:00	87.4%	87.2%	0	0
December 2025																
Annual	7871	57.4%	31.1%	6.6%	2.1%	1.3%	1.5%	9.5	192.7	Jun 10	406.6	Aug 31 12:00	98.6%	98.4%	19	115

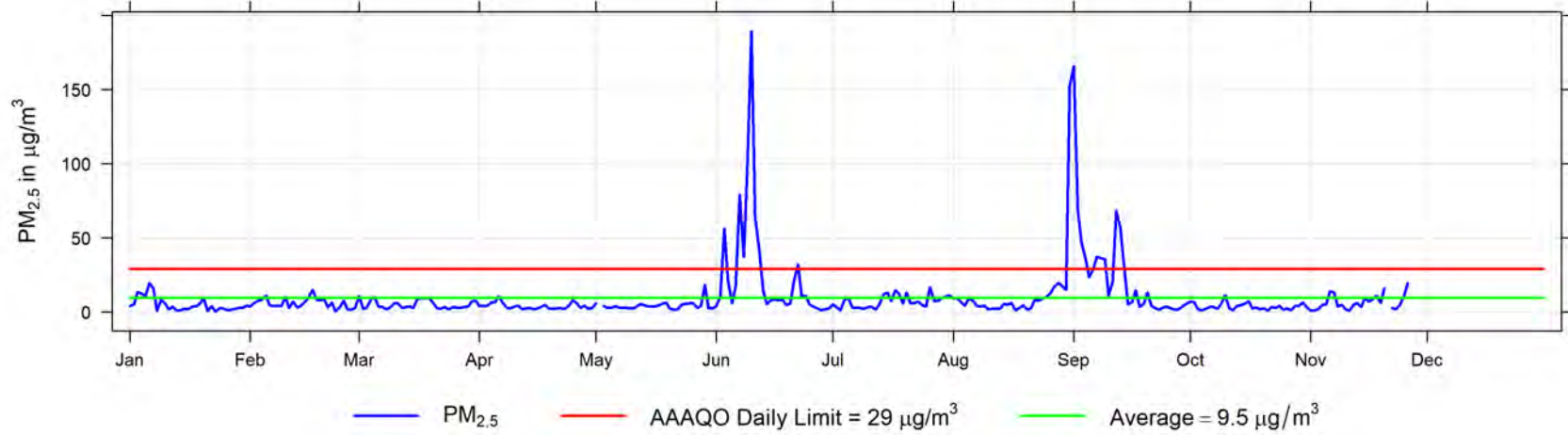
AAAQO Objectives: 24-Hr: 29 µg/m³, AAAQO Guideline: 1-Hr: 80 µg/m³

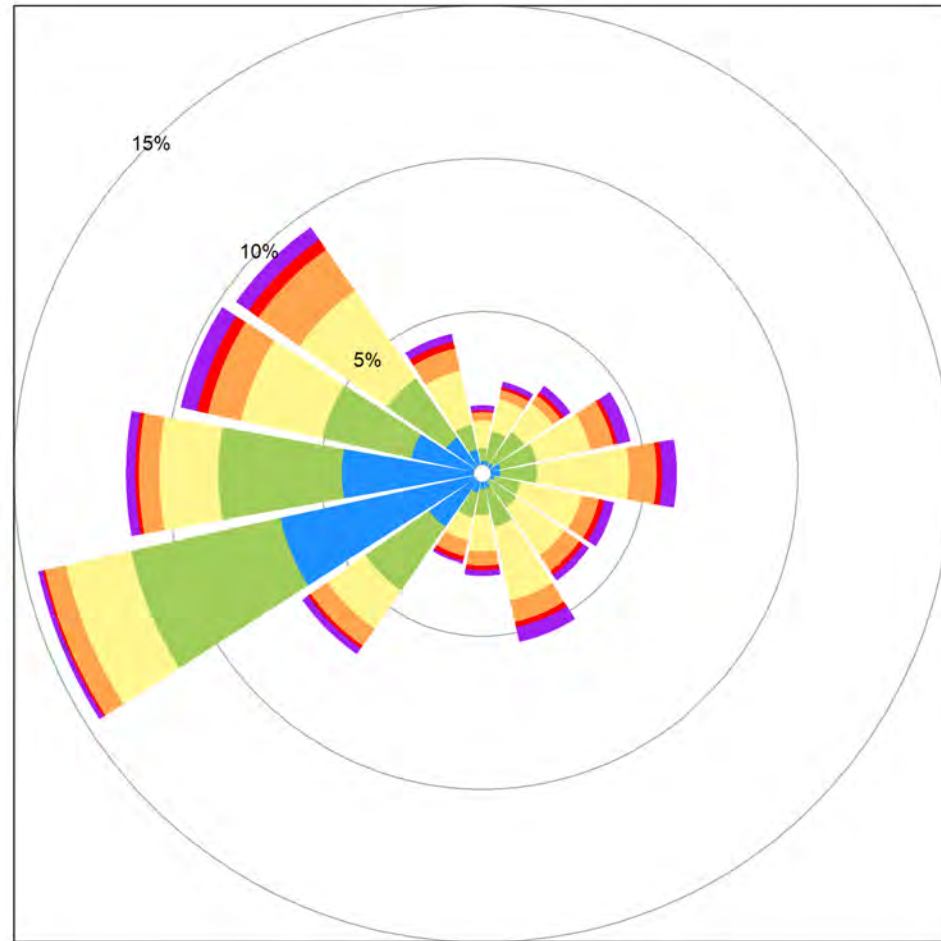
All equipment down in December 2025

2025 Hourly Concentration Readings of PM_{2.5} in µg/m³ at Henry Pirker

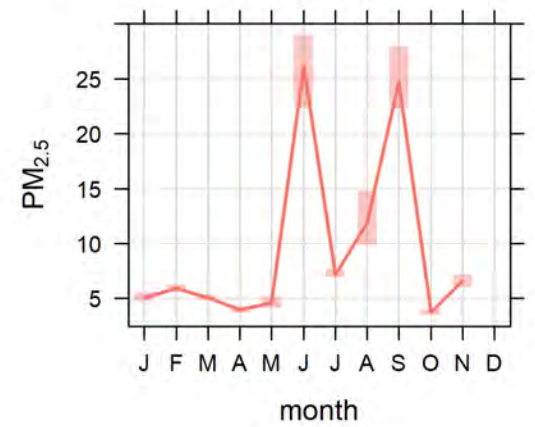
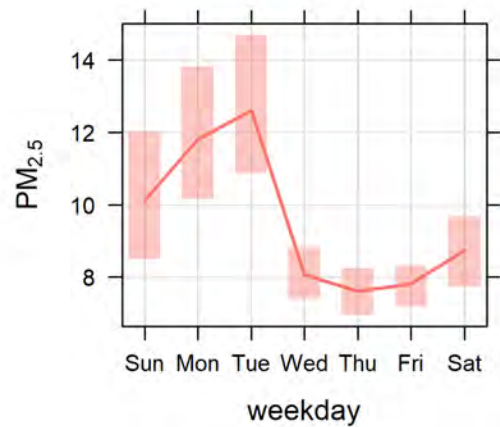
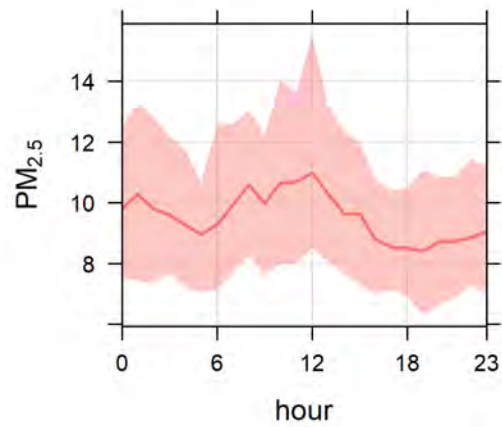
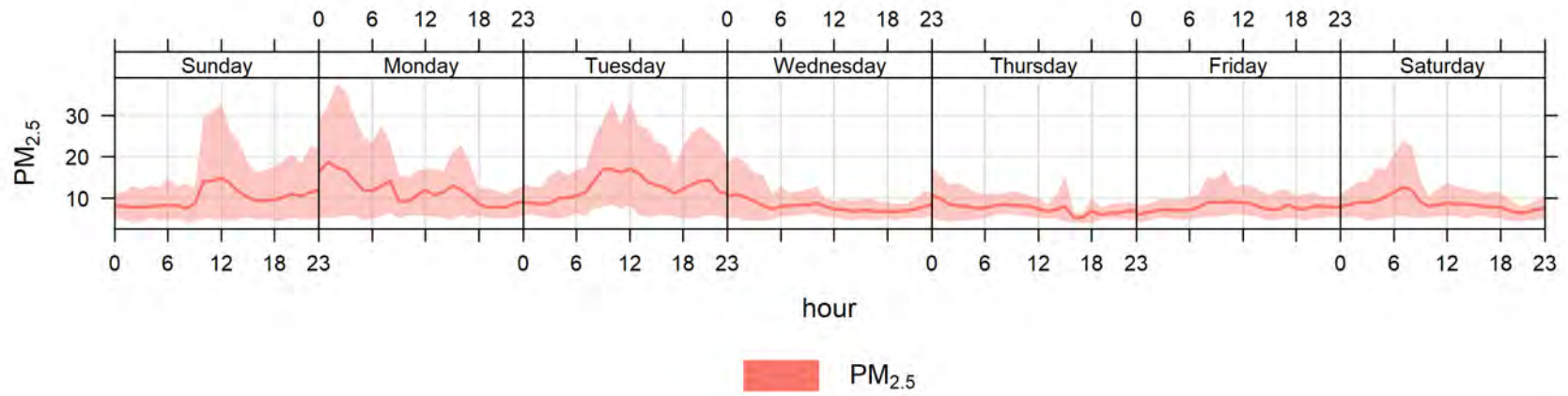


2025 Daily Concentration Readings of PM_{2.5} in µg/m³ at Henry Pirker



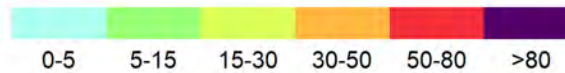
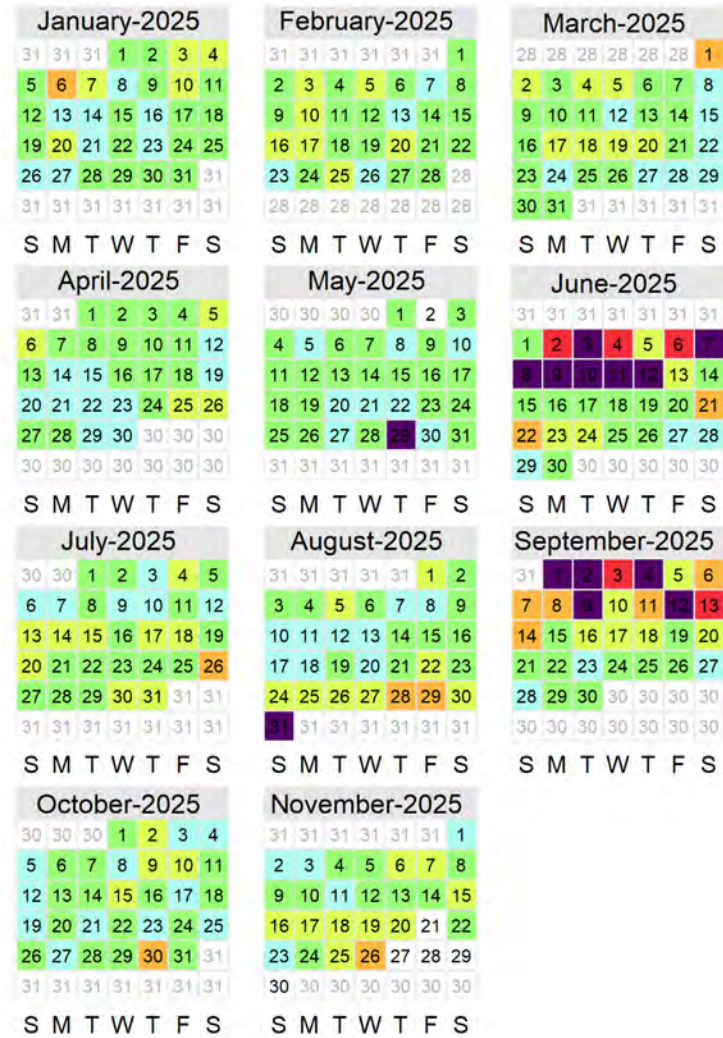


2025 Annual Concentration Readings of PM_{2.5} in µg/m³ at Henry Pirker



mean and 95% confidence interval in mean

Hourly Maximum PM_{2.5} (in µg/m³) for 2025 at Henry Pirker



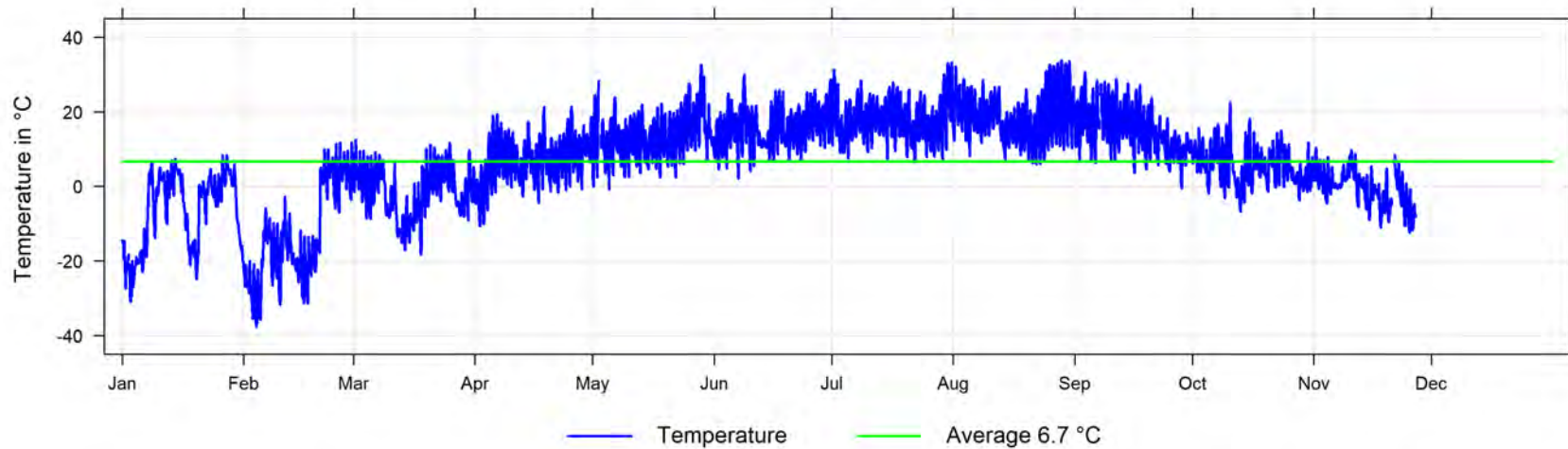
6.13 Temperature (ET) - Henry Pirker 2025 Summary

Temperature (ET) Frequency Distribution at Henry Pirker

Month	Valid Hours	Monthly Average (°C)	Maximum Values			Minimum Values			Operational time (%)	Valid time (%)			
			24-hr (°C)	Date	1-hr (°C)	Date	24-hr (°C)	Date			1-hr (°C)	Date	
January 2025	743	-6.8	4.0	Jan 27	8.4	Jan 26 15:00	-27.0	Jan 03	-30.9	Jan 03 04:00	99.9%	99.9%	
February 2025	672	-13.3	5.3	Feb 26	11.8	Feb 28 13:00	-32.0	Feb 04	-37.8	Feb 04 05:00	100.0%	100.0%	
March 2025	744	-1.7	5.1	Mar 24	12.5	Mar 01 14:00	-12.2	Mar 12	-18.3	Mar 18 05:00	100.0%	100.0%	
April 2025	720	7.1	12.6	Apr 30	21.4	Apr 25 15:00	-2.0	Apr 02	-10.7	Apr 02 06:00	100.0%	100.0%	
May 2025	730	13.9	23.6	May 28	32.7	May 28 17:00	9.6	May 04	-0.8	May 05 06:00	98.1%	98.1%	
June 2025	720	15.9	21.3	Jun 30	30.2	Jun 08 18:00	11.0	Jun 01	2.2	Jun 07 05:00	100.0%	100.0%	
July 2025	744	17.9	23.7	Jul 30	33.3	Jul 31 15:00	13.1	Jul 21	6.5	Jul 22 05:00	100.0%	100.0%	
August 2025	744	18.8	23.0	Aug 27	33.8	Aug 28 15:00	12.7	Aug 21	5.9	Aug 22 06:00	100.0%	100.0%	
September 2025	717	15.2	22.0	Sep 03	30.6	Sep 03 15:00	6.9	Sep 28	-0.6	Sep 28 07:00	99.6%	99.6%	
October 2025	744	5.4	9.8	Oct 07	22.5	Oct 10 16:00	-0.8	Oct 13	-6.8	Oct 13 08:00	100.0%	100.0%	
November 2025	608	-0.6	6.6	Nov 10	10.3	Nov 01 12:00	-8.9	Nov 26	-12.4	Nov 25 09:00	87.4%	87.4%	
December 2025													
7886		AVERAGE 6.7	23.7	MAXIMUM VALUES Jul 30 33.8		Aug 28 15:00		MINIMUM VALUES -32.0		Feb 04 -37.8		98.6%	98.6%

All equipment down in December 2025

2025 Hourly Temperature Readings (in °C) at Henry Pirker



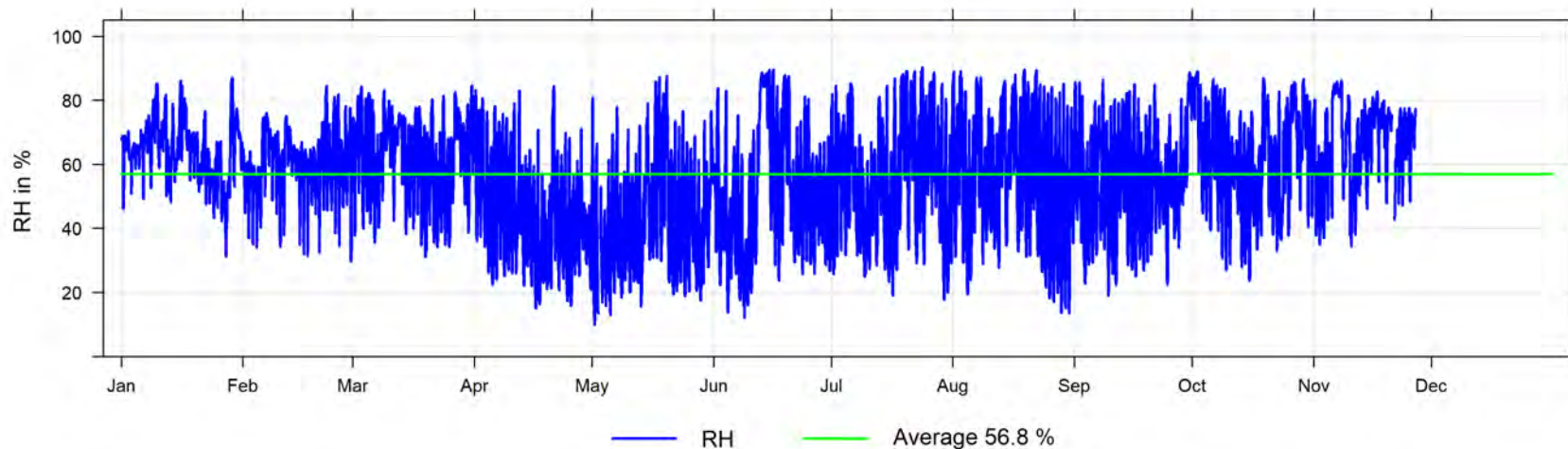
6.14 Relative Humidity (RH) - Henry Pirker 2025 Summary

Relative Humidity (RH) Frequency Distribution at Henry Pirker

Month	Valid Hours	Monthly Average (%)	Maximum Values			Operational time (%)	Valid time (%)	
			24-hr (%)	Date	1-hr (%)			Date
January 2025	743	64.5	77.7	Jan 09	87.0	Jan 29 07:00	99.9%	99.9%
February 2025	672	60.2	69.4	Feb 07	84.6	Feb 22 08:00	100.0%	100.0%
March 2025	744	62.7	75.7	Mar 27	84.8	Mar 31 09:00	100.0%	100.0%
April 2025	720	45.1	61.6	Apr 02	84.5	Apr 21 06:00	100.0%	100.0%
May 2025	730	44.1	69.6	May 19	87.7	May 20 02:00	98.1%	98.1%
June 2025	720	51.8	86.5	Jun 13	89.5	Jun 16 06:00	100.0%	100.0%
July 2025	744	56.2	74.8	Jul 19	90.2	Jul 24 06:00	100.0%	100.0%
August 2025	744	56.4	78.5	Aug 16	89.6	Aug 19 05:00	100.0%	100.0%
September 2025	717	55.9	82.5	Sep 30	88.8	Sep 30 09:00	99.6%	99.6%
October 2025	744	62.7	82.6	Oct 01	89.0	Oct 02 07:00	100.0%	100.0%
November 2025	608	66.6	84.0	Nov 06	86.3	Nov 08 02:00	87.4%	87.4%
December 2025								
7886		AVERAGE 56.8	MAXIMUM VALUES				98.6%	98.6%
			86.5	Jun 13	90.2	Jul 24 06:00		

All equipment down in December 2025

2025 Hourly Readings of Relative Humidity (in %) at Henry Pirker

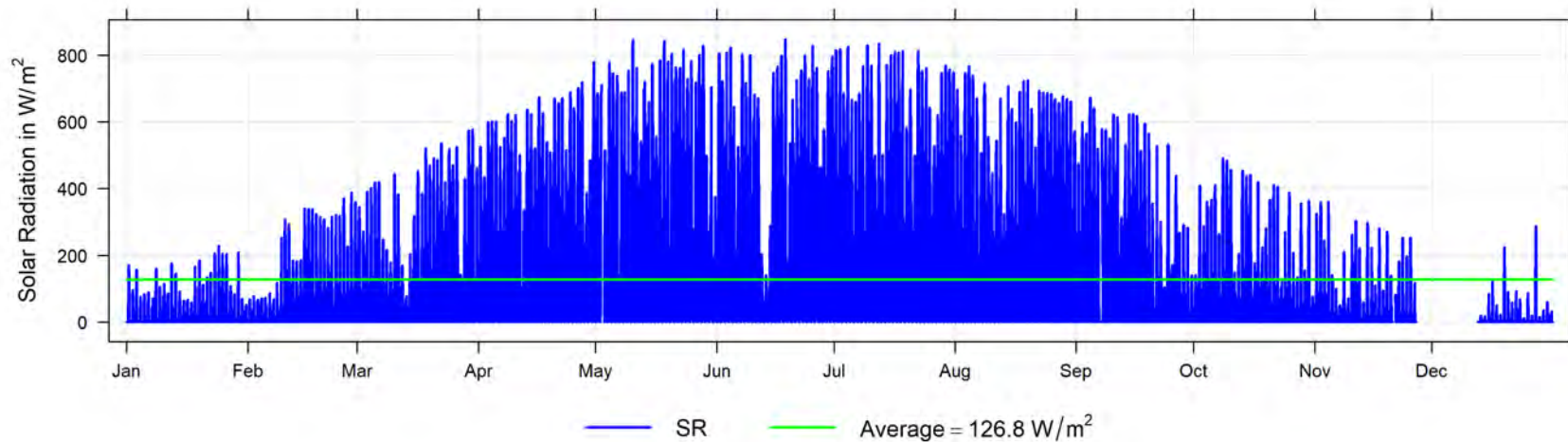


6.15 Solar Radiation (SR) - Henry Pirker 2025 Summary

Solar Radiation (SR) Frequency Distribution at Henry Pirker

Month	Valid Hours	Monthly Average (W/m ²)	Maximum Values			Operational time (%)	Valid time (%)		
			24-hr (W/m ²)	Date	1-hr (W/m ²)			Date	
January 2025	743	22.7	40.1	Jan 26	227.7	Jan 24 13:00	99.9%	99.9%	
February 2025	672	49.0	89.2	Feb 28	388.1	Feb 27 13:00	100.0%	100.0%	
March 2025	744	97.4	175.5	Mar 30	577.5	Mar 30 13:00	100.0%	100.0%	
April 2025	720	177.7	253.7	Apr 30	780.2	Apr 30 14:00	100.0%	100.0%	
May 2025	730	224.5	318.6	May 28	846.6	May 10 14:00	98.1%	98.1%	
June 2025	720	224.4	309.1	Jun 30	848.0	Jun 18 13:00	100.0%	100.0%	
July 2025	744	227.2	319.9	Jul 09	835.5	Jul 12 13:00	100.0%	100.0%	
August 2025	744	193.9	265.4	Aug 04	767.2	Aug 04 14:00	100.0%	100.0%	
September 2025	717	128.9	215.2	Sep 04	673.5	Sep 04 14:00	99.6%	99.6%	
October 2025	744	67.0	123.1	Oct 09	490.4	Oct 08 13:00	100.0%	100.0%	
November 2025	609	36.5	75.8	Nov 02	360.4	Nov 04 13:00	87.5%	87.5%	
December 2025	463	11.4	42.4	Dec 27	288.6	Dec 27 15:00	100.0%	100.0%	
		AVERAGE	MAXIMUM VALUES						
		8350	126.8	319.9	Jul 09	848.0	Jun 18 13:00	98.8%	98.8%

2025 Hourly Concentration Readings of Solar Radiation in W/m² at Henry Pirker

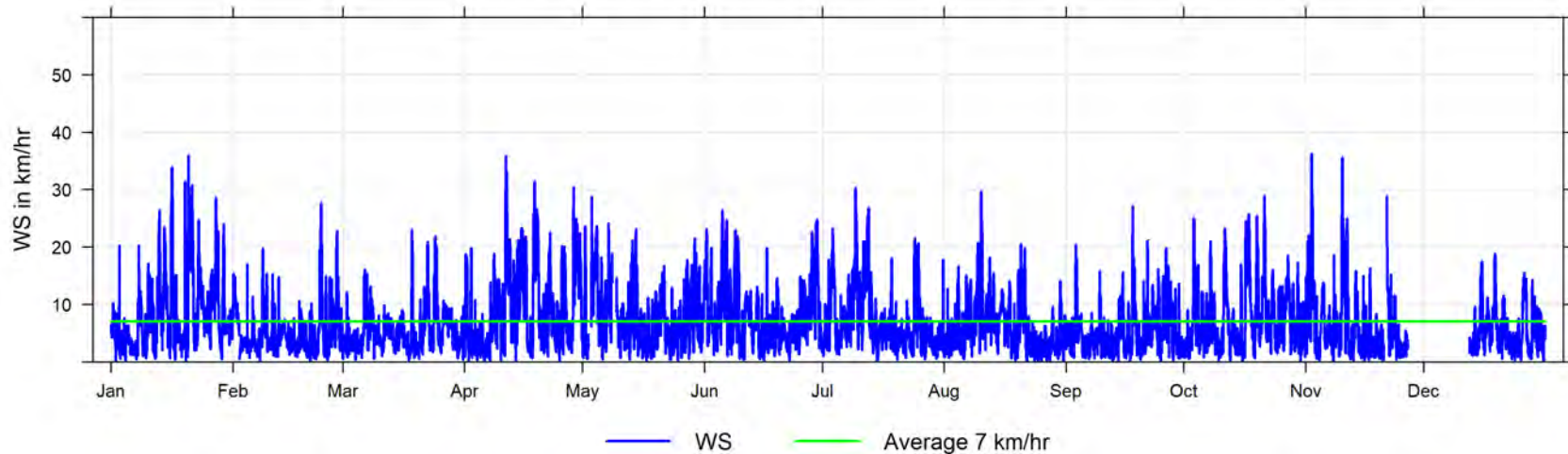


6.16 Wind Speed and Wind Direction (WS and WD) - Henry Pirker 2025 Summary

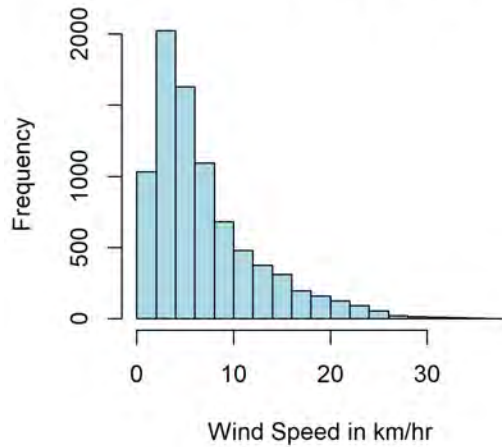
Wind Speed Frequency Distribution at Henry Pirker

Month	Valid Hours	Calm	% of Readings in Concentration Range					Monthly Average (km/hr)	24-hr (km/hr)	MAXIMUM VALUES			Operational time (%)	Valid time (%)
			0.5 to 5 (km/hr)	5 to 11 (km/hr)	11 to 19 (km/hr)	19 to 28 (km/hr)	>28 (km/hr)			Date	1-hr Date	Date		
January 2025	743	0.8%	38.0%	34.6%	18.0%	6.9%	1.7%	8.4	20.6	Jan 21	36.0	Jan 20 19:00	99.9%	99.9%
February 2025	660	0.6%	60.5%	27.9%	9.1%	2.0%	0.0%	5.5	15.0	Feb 23	27.7	Feb 23 12:00	98.2%	98.2%
March 2025	744	0.9%	55.9%	35.6%	5.6%	1.9%	0.0%	5.5	14.3	Mar 24	23.0	Mar 18 14:00	100.0%	100.0%
April 2025	720	1.1%	36.1%	27.1%	23.3%	10.8%	1.5%	9.5	19.6	Apr 11	35.9	Apr 11 13:00	100.0%	100.0%
May 2025	710	1.0%	39.3%	37.3%	18.5%	3.8%	0.1%	7.5	17.2	May 04	28.7	May 03 08:00	95.6%	95.4%
June 2025	720	1.3%	34.9%	38.3%	18.2%	7.4%	0.0%	8.1	15.7	Jun 29	26.4	Jun 05 15:00	100.0%	100.0%
July 2025	744	0.7%	42.2%	37.4%	13.8%	5.8%	0.1%	7.2	18.6	Jul 09	30.2	Jul 09 11:00	100.0%	100.0%
August 2025	744	2.2%	47.0%	35.9%	12.8%	1.7%	0.4%	6.2	13.9	Aug 10	29.6	Aug 10 11:00	100.0%	100.0%
September 2025	717	1.0%	56.5%	32.4%	9.2%	1.0%	0.0%	5.4	10.5	Sep 18	27.1	Sep 18 01:00	99.6%	99.6%
October 2025	744	0.7%	42.5%	34.0%	17.1%	5.5%	0.3%	7.7	18.1	Oct 17	28.9	Oct 21 12:00	100.0%	100.0%
November 2025	608	2.0%	53.6%	26.2%	12.5%	4.1%	1.6%	6.6	18.9	Nov 10	36.2	Nov 02 13:00	87.4%	87.4%
December 2025	463	1.1%	54.9%	32.8%	11.2%	0.0%	0.0%	5.6	11.3	Dec 26	18.9	Dec 19 05:00	100.0%	100.0%
Annual	8317	1.1%	46.8%	33.3%	14.1%	4.2%	0.5%	7.0	20.6	MAXIMUM VALUES			98.4%	98.4%

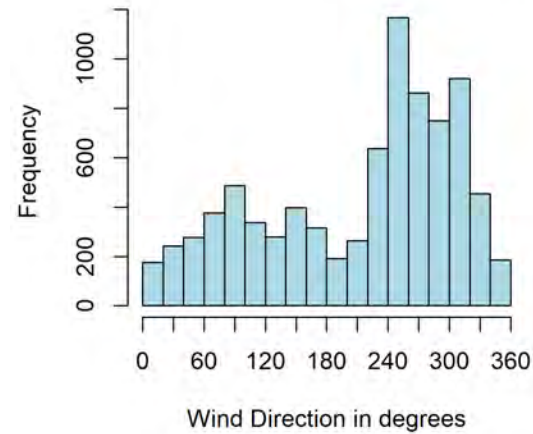
2025 Hourly Readings of Wind Speed (in km/hr) at Henry Pirker



2025 Wind Speed Histogram

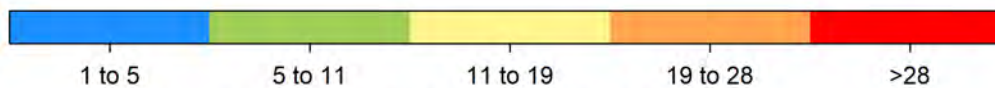
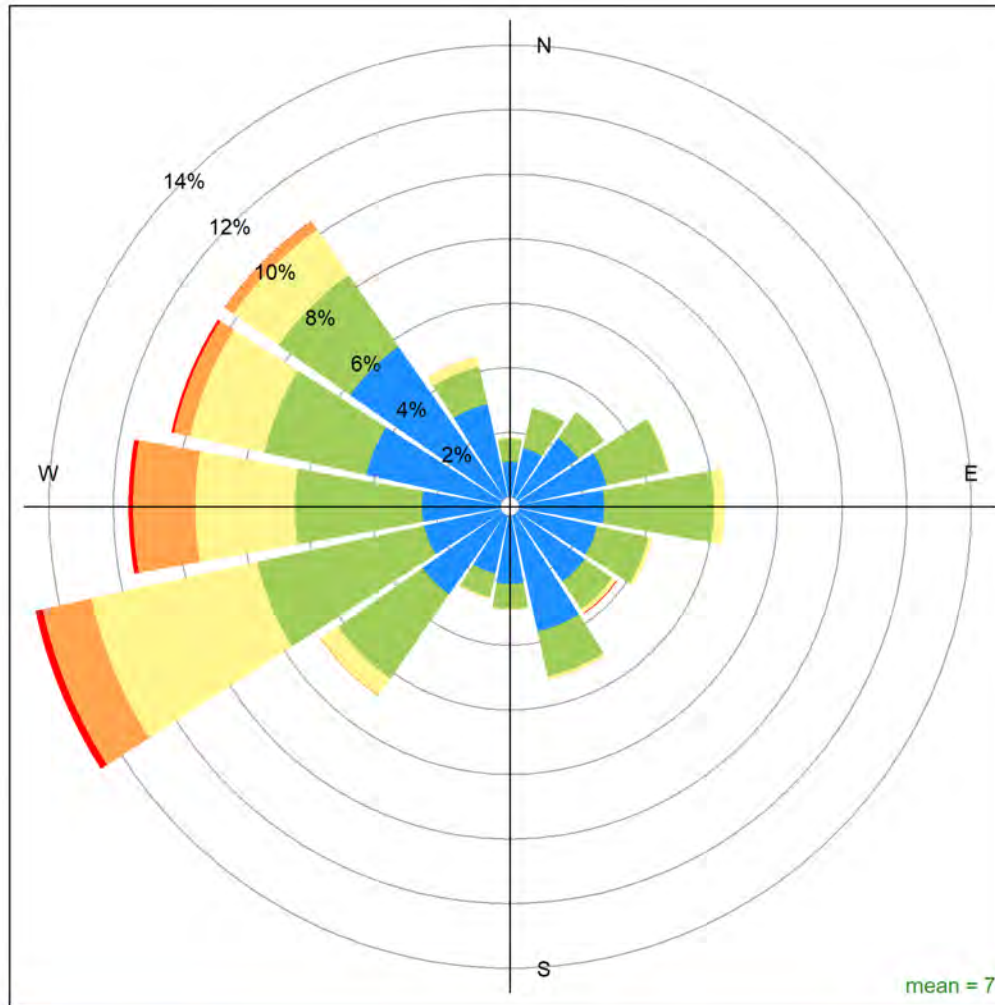


2025 Wind Direction Histogram



Wind Speed and Wind Direction Frequency Distribution at Henry Pirker

Direction	Number of Readings	% of wind speed range						Total %
		Calm (<0.5) (km/hr)	0.5 to 5 (km/hr)	5 to 11 (km/hr)	11 to 19 (km/hr)	19 to 28 (km/hr)	>28 (km/hr)	
N	172	0.1%	1.2%	0.7%	0.0%	0.0%	0.0%	2.1%
NNE	254	0.1%	1.7%	1.3%	0.0%	0.0%	0.0%	3.1%
NE	286	0.1%	2.4%	1.0%	0.0%	0.0%	0.0%	3.4%
ENE	418	0.1%	2.9%	2.0%	0.0%	0.0%	0.0%	5.0%
E	549	0.1%	2.8%	3.4%	0.3%	0.0%	0.0%	6.6%
ESE	365	0.0%	2.6%	1.6%	0.1%	0.0%	0.0%	4.4%
SE	333	0.1%	2.7%	1.0%	0.1%	0.0%	0.0%	4.0%
SSE	453	0.1%	3.8%	1.4%	0.1%	0.0%	0.0%	5.4%
S	261	0.0%	2.3%	0.8%	0.0%	0.0%	0.0%	3.1%
SSW	239	0.1%	2.0%	0.8%	0.0%	0.0%	0.0%	2.9%
SW	586	0.0%	3.1%	3.2%	0.6%	0.0%	0.0%	7.0%
WSW	1251	0.1%	2.6%	5.3%	5.3%	1.6%	0.2%	15.0%
W	974	0.0%	2.6%	3.9%	3.1%	1.9%	0.1%	11.7%
WNW	890	0.1%	4.5%	3.2%	2.4%	0.5%	0.1%	10.7%
NW	900	0.0%	6.0%	2.7%	1.7%	0.3%	0.0%	10.8%
NNW	391	0.1%	3.1%	1.2%	0.3%	0.0%	0.0%	4.7%
Total	8322	1.1%	46.3%	33.5%	14.3%	4.4%	0.5%	100.0%

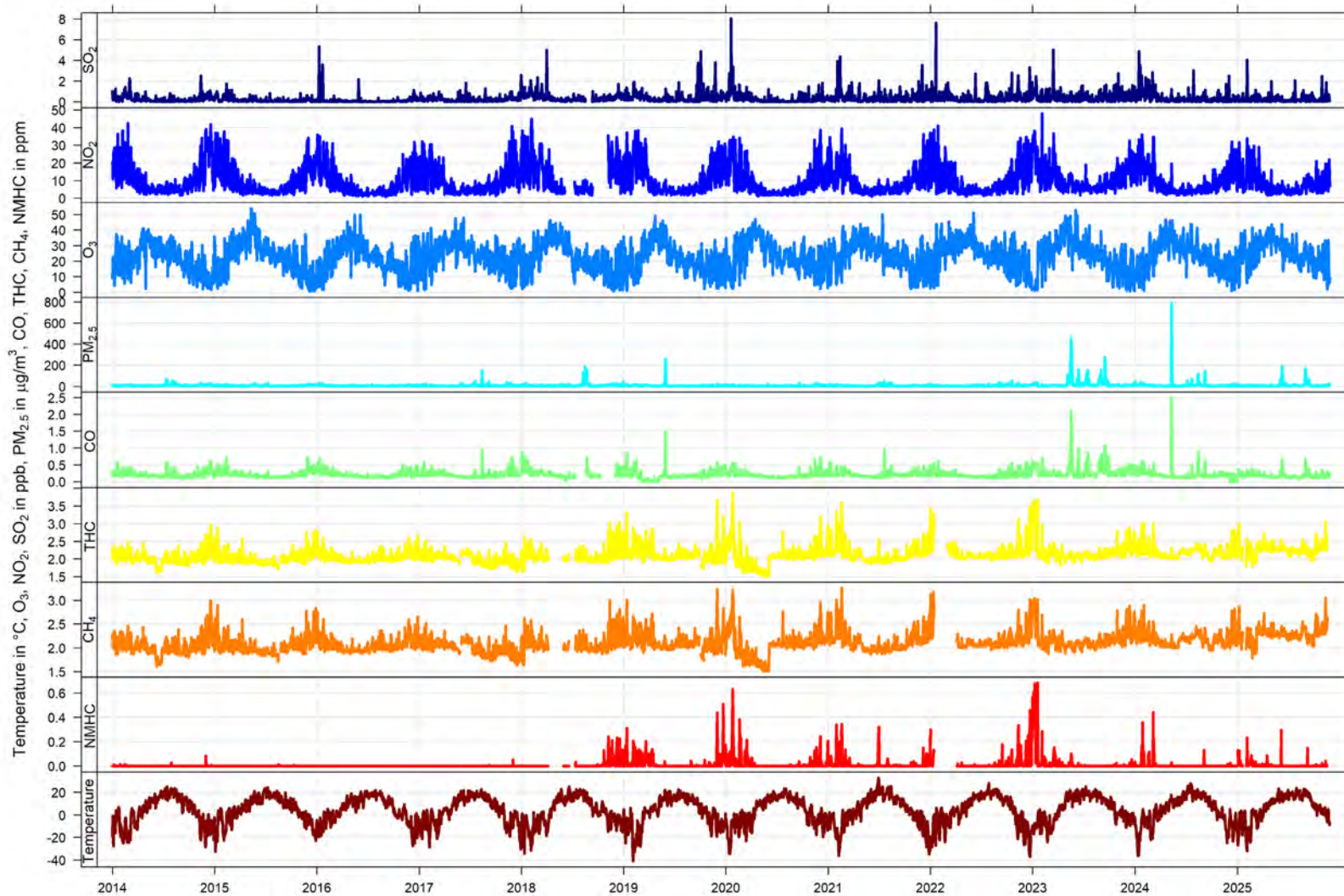


Henry Pirker 2025 Wind Rose, wind speed in km/hr
Calms (<1km/hr) = 3.6 %

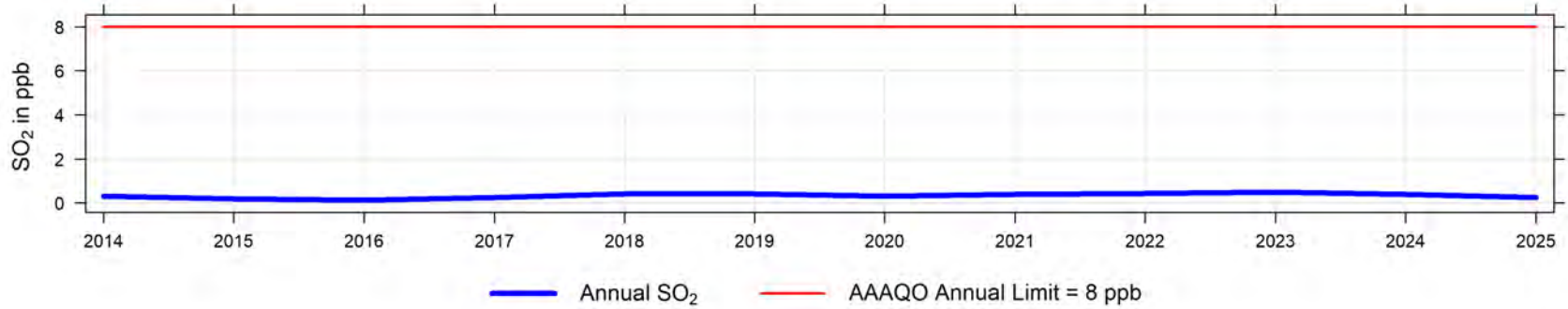
6.17 Henry Pirker Annual Trends, 2014 to 2025

The following pages include historical annual charts collected between 2014 and 2025 at the Henry Pirker Station.

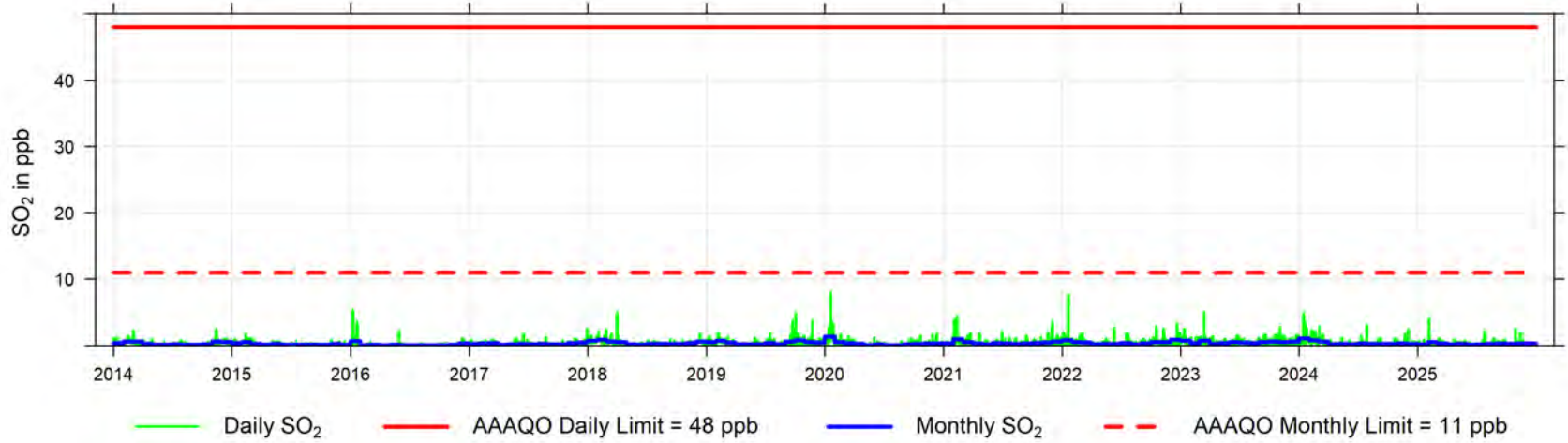
2014 to 2025 Daily Concentration Readings at Henry Pirker



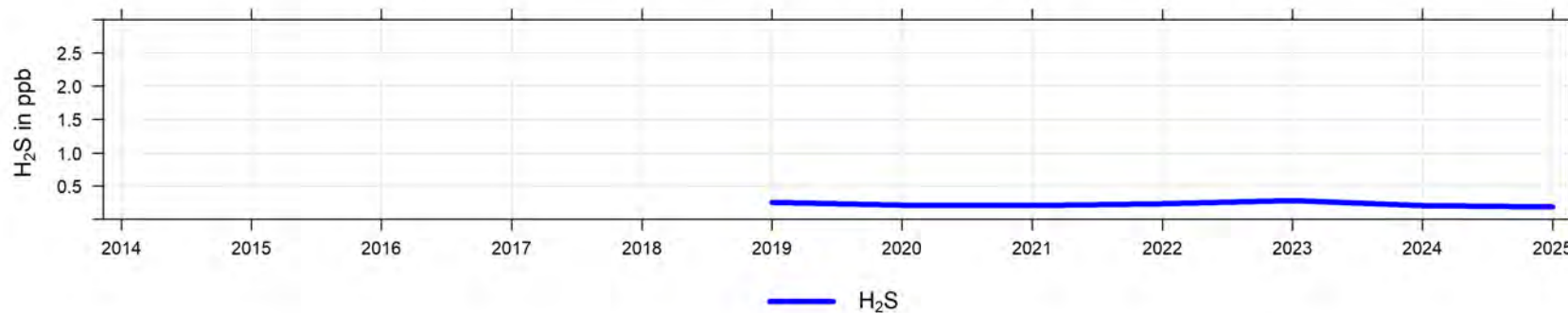
Years 2014 to 2025 Annual Concentration Readings of SO₂ (in ppb) at Henry Pirker



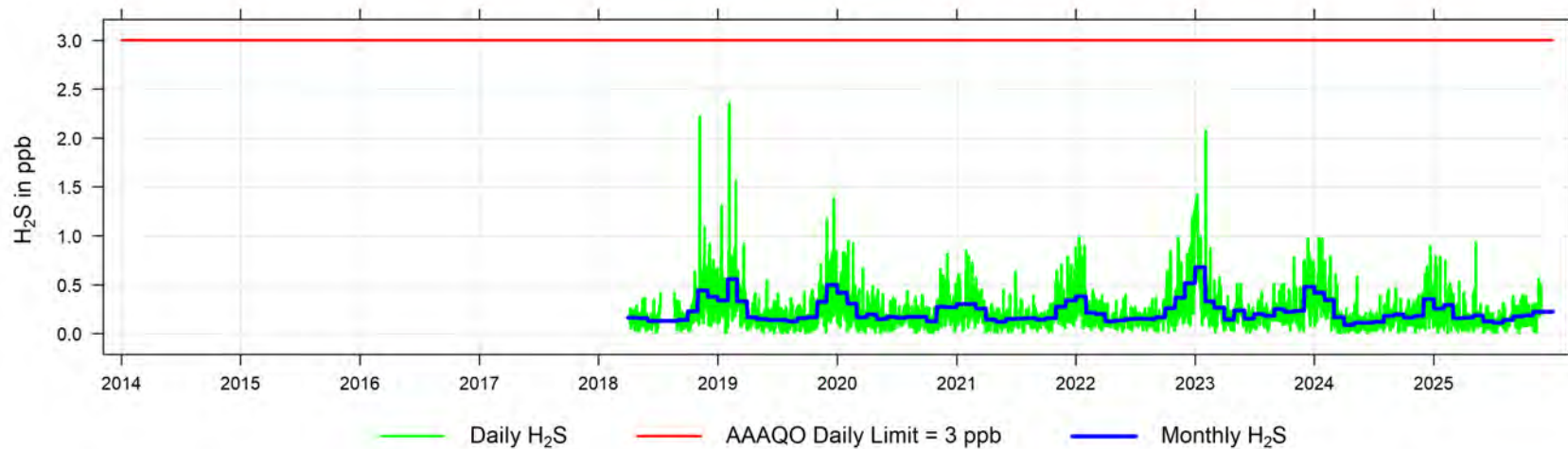
Years 2014 to 2025 Concentration Readings of SO₂ (in ppb) at Henry Pirker



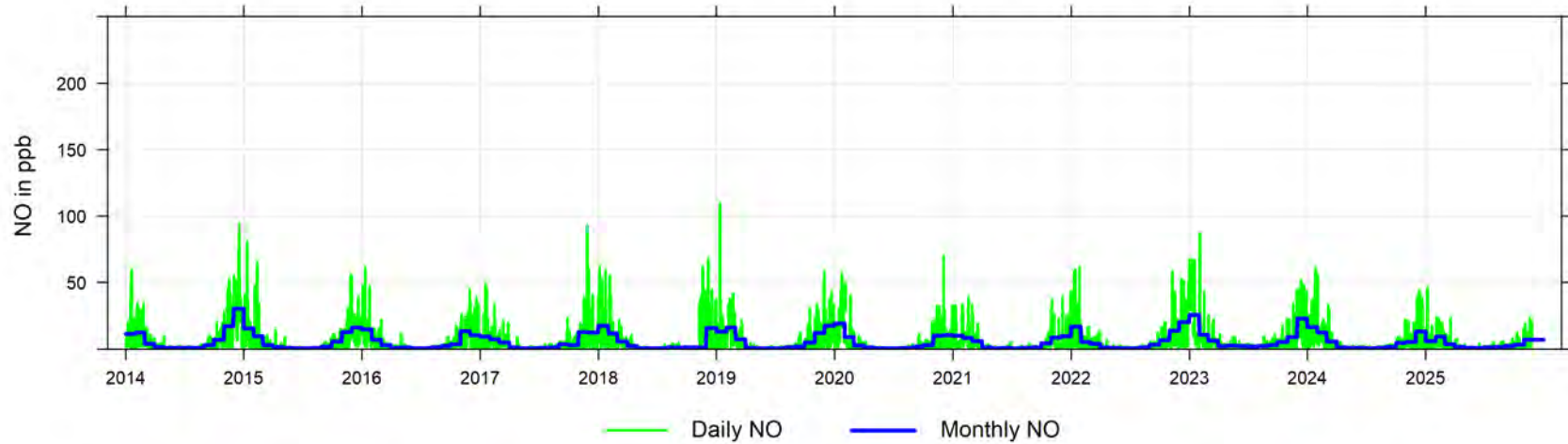
Years 2014 to 2025 Annual Concentration Readings of H₂S (in ppb) at Henry Pirker



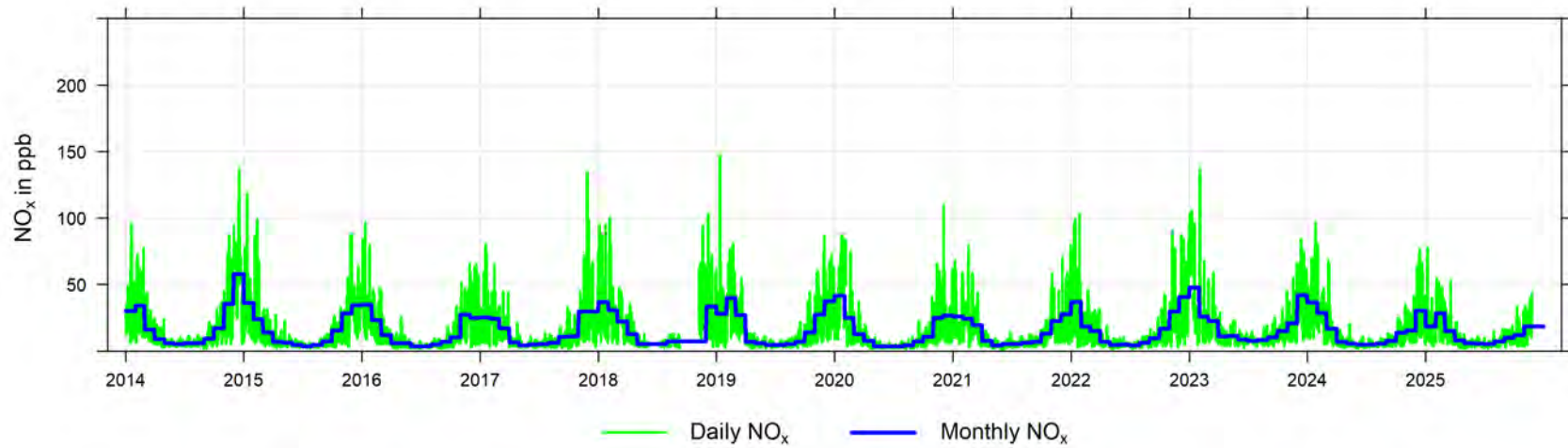
Years 2014 to 2025 Concentration Readings of H₂S (in ppb) at Henry Pirker



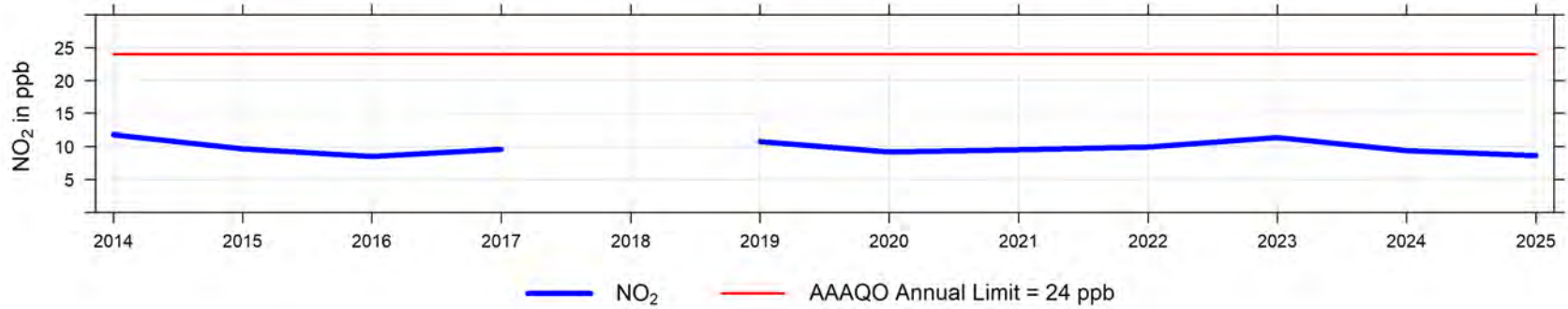
Years 2014 to 2025 Concentration Readings of NO (in ppb) at Henry Pirker



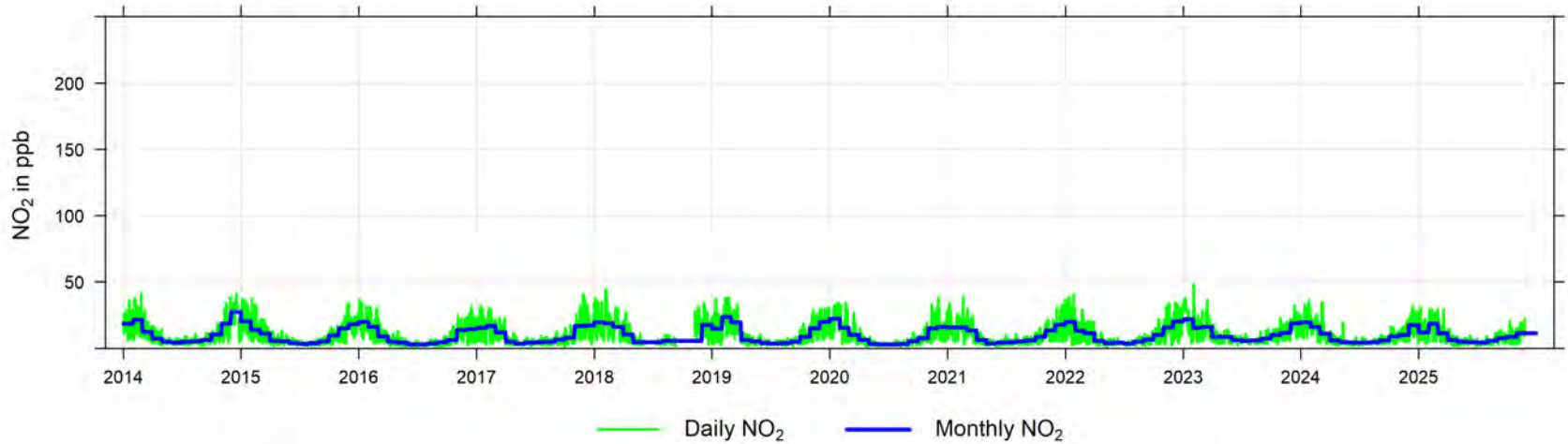
Years 2014 to 2025 Concentration Readings of NO_x (in ppb) at Henry Pirker



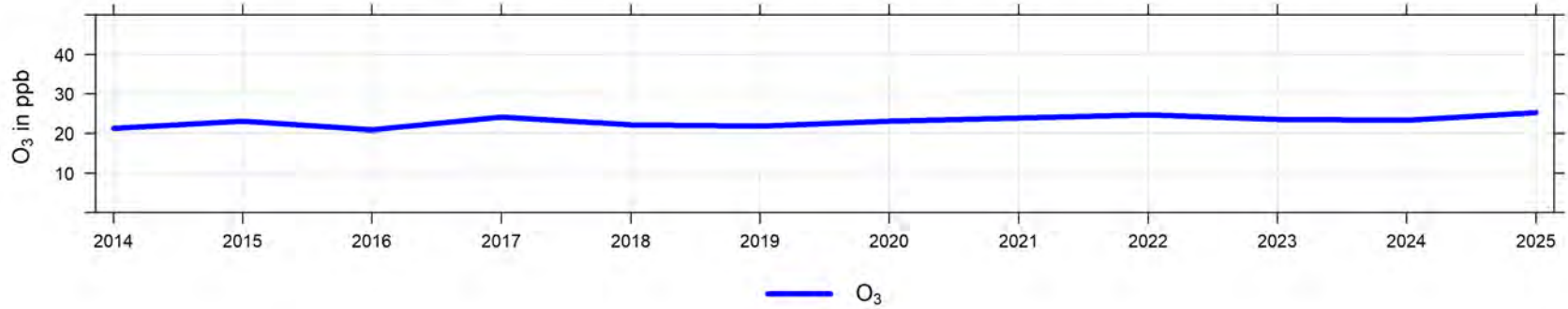
Years 2014 to 2025 Annual Concentration Readings of NO₂ (in ppb) at Henry Pirker



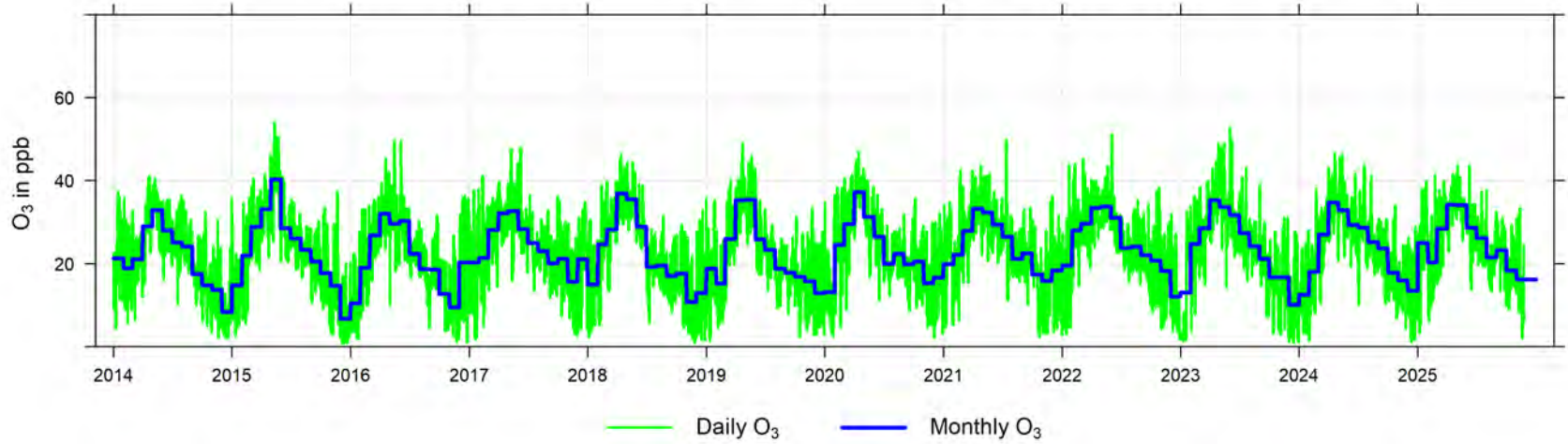
Years 2014 to 2025 Concentration Readings of NO₂ (in ppb) at Henry Pirker



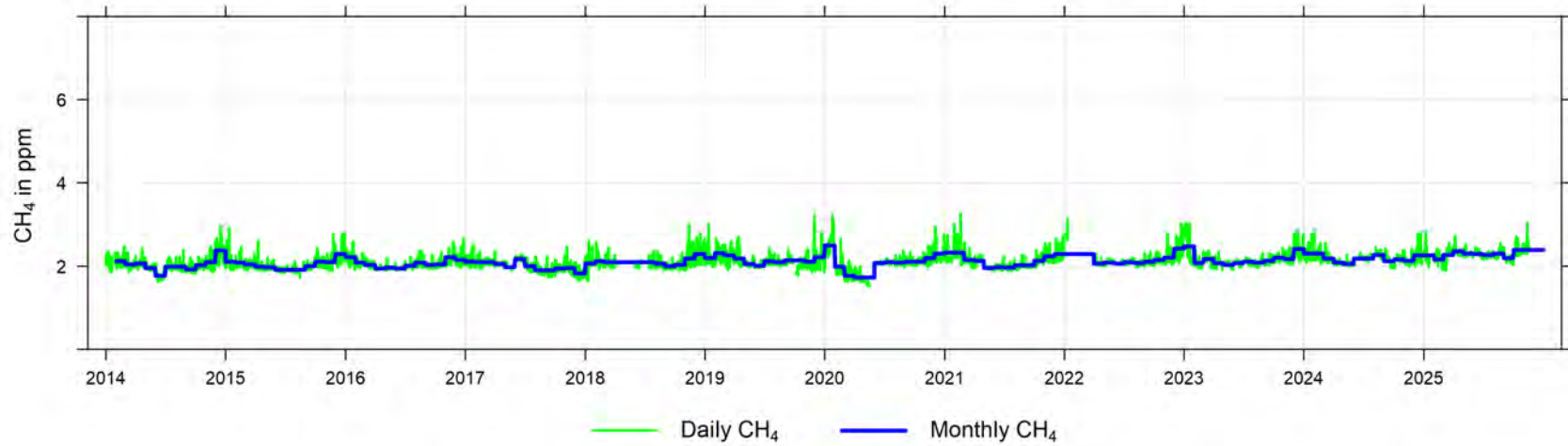
Years 2014 to 2025 Annual Concentration Readings of O₃ (in ppb) at Henry Pirker



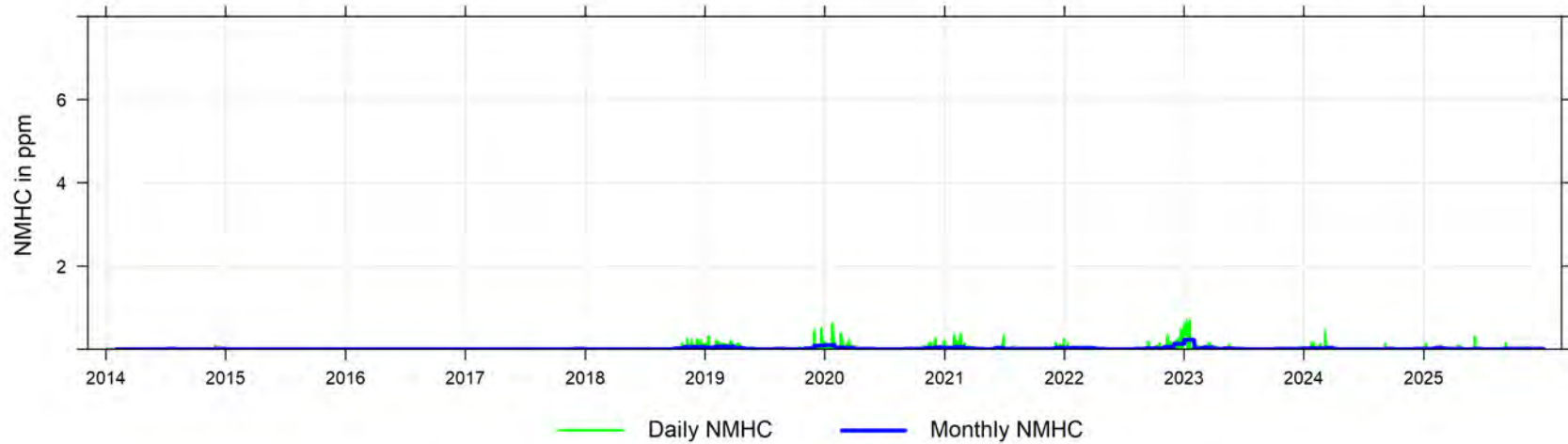
Years 2014 to 2025 Concentration Readings of O₃ (in ppb) at Henry Pirker



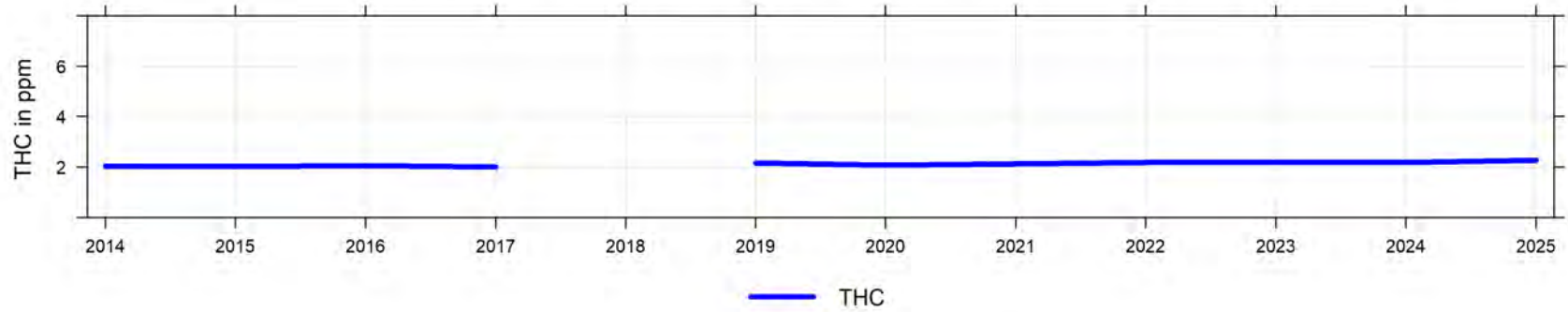
Years 2014 to 2025 Concentration Readings of CH₄ (in ppm) at Henry Pirker



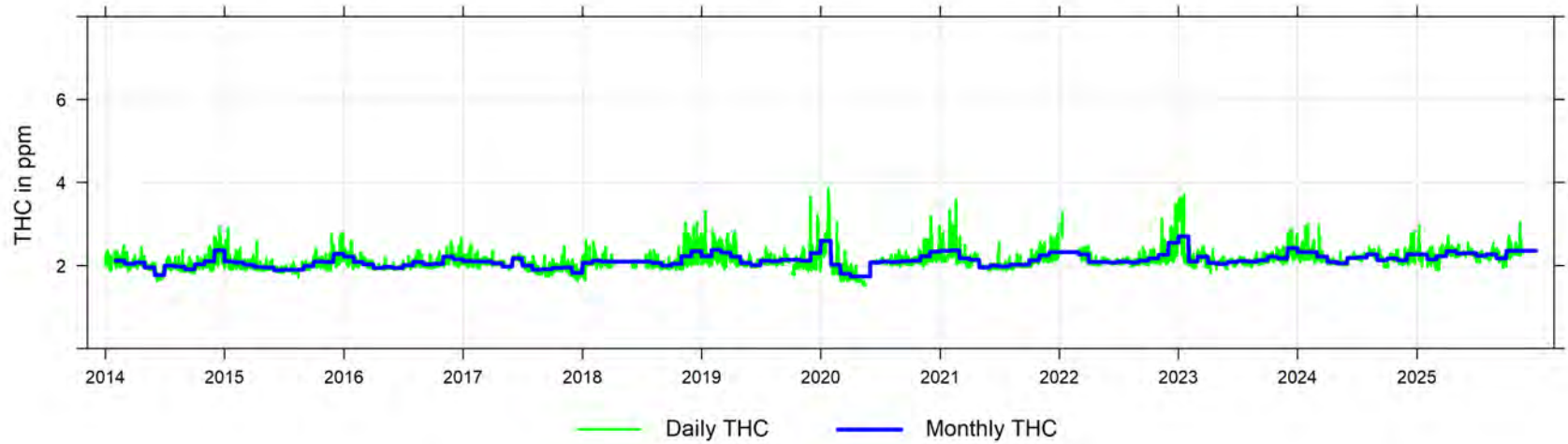
Years 2014 to 2025 Concentration Readings of NMHC (in ppm) at Henry Pirker



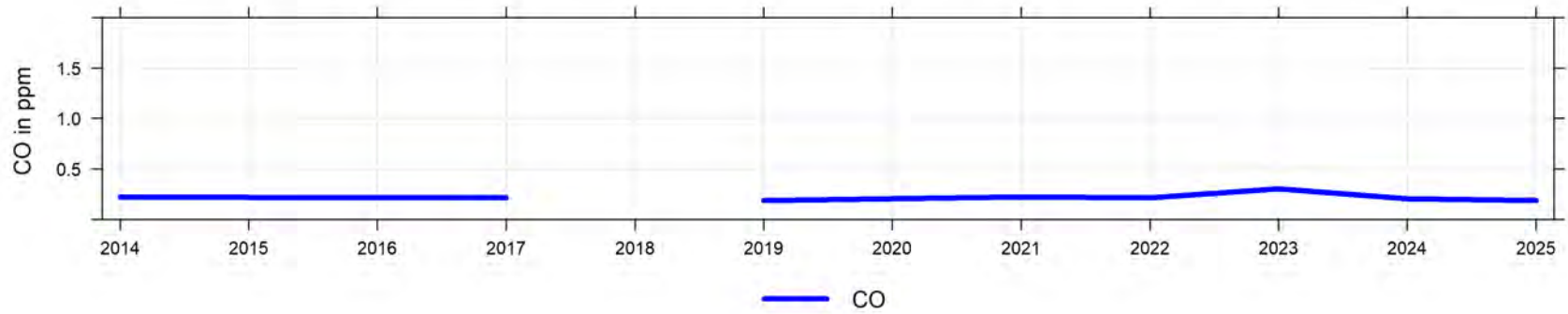
Years 2025 Annual Concentration Readings of THC (in ppm) at Henry Pirker



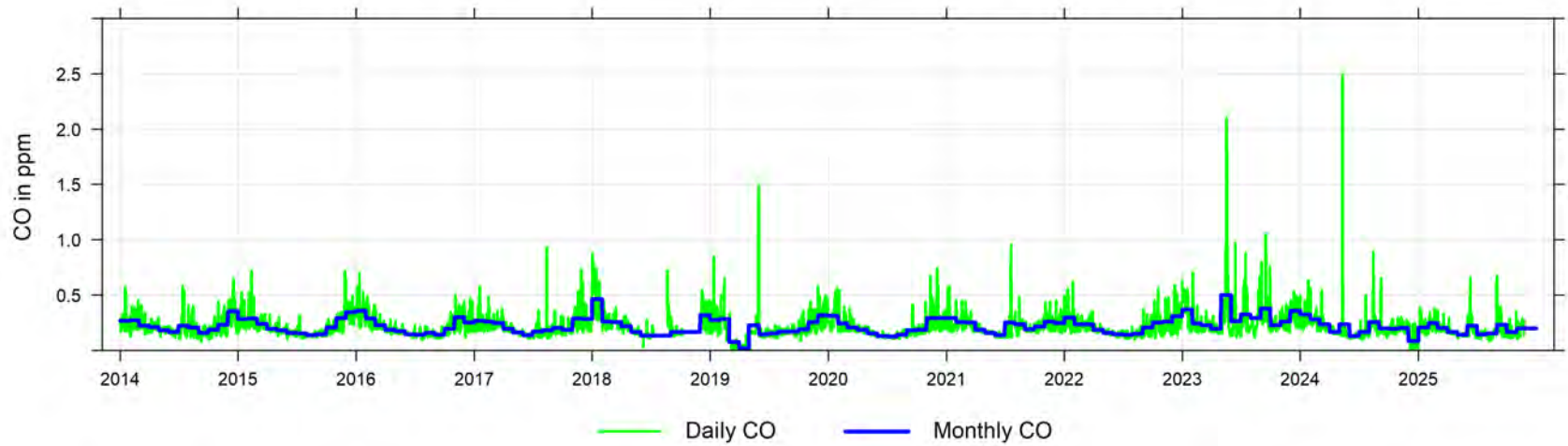
Years 2014 to 2025 Concentration Readings of THC (in ppm) at Henry Pirker



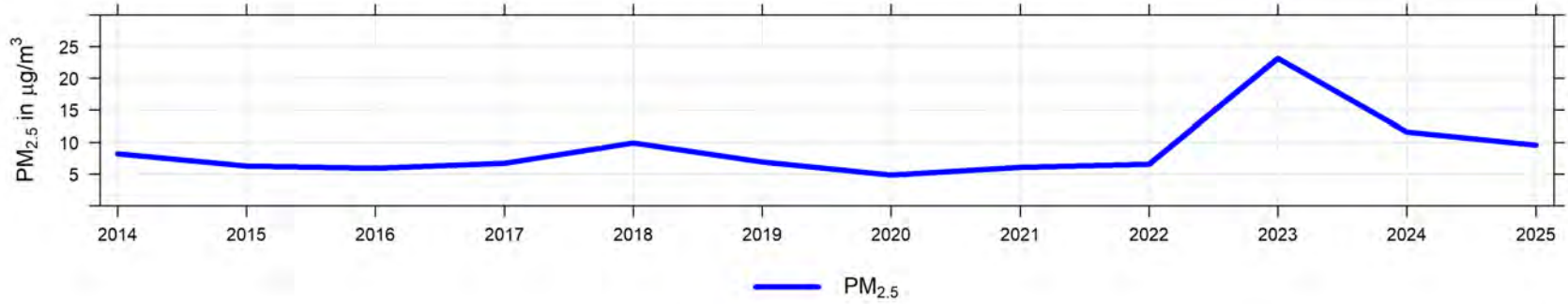
Years 2025 Annual Concentration Readings of CO (in ppm) at Henry Pirker



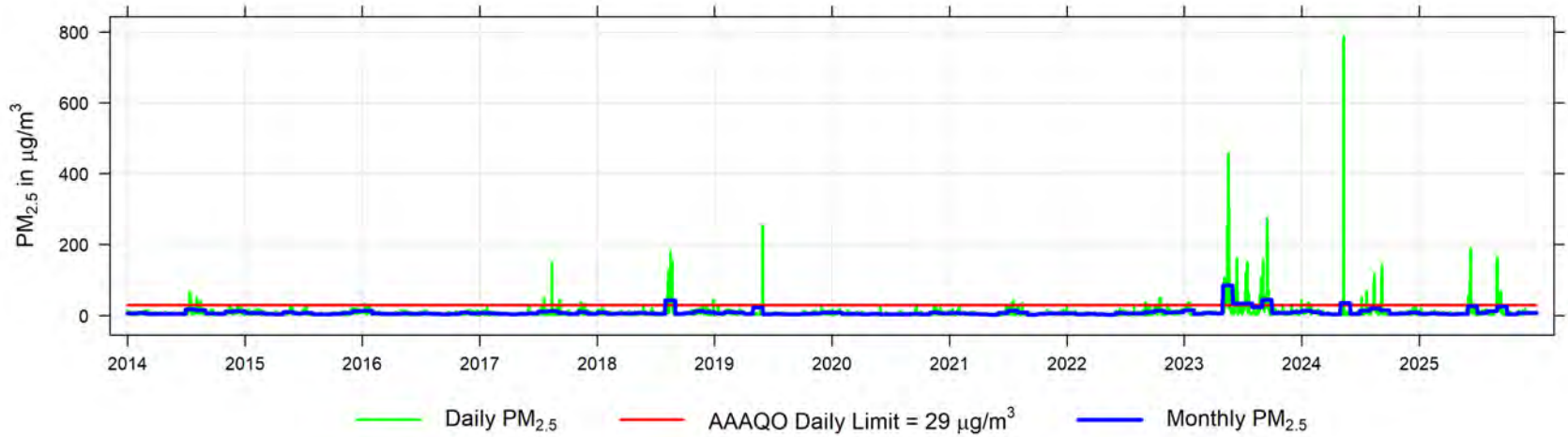
Years 2014 to 2025 Concentration Readings of CO (in ppm) at Henry Pirker



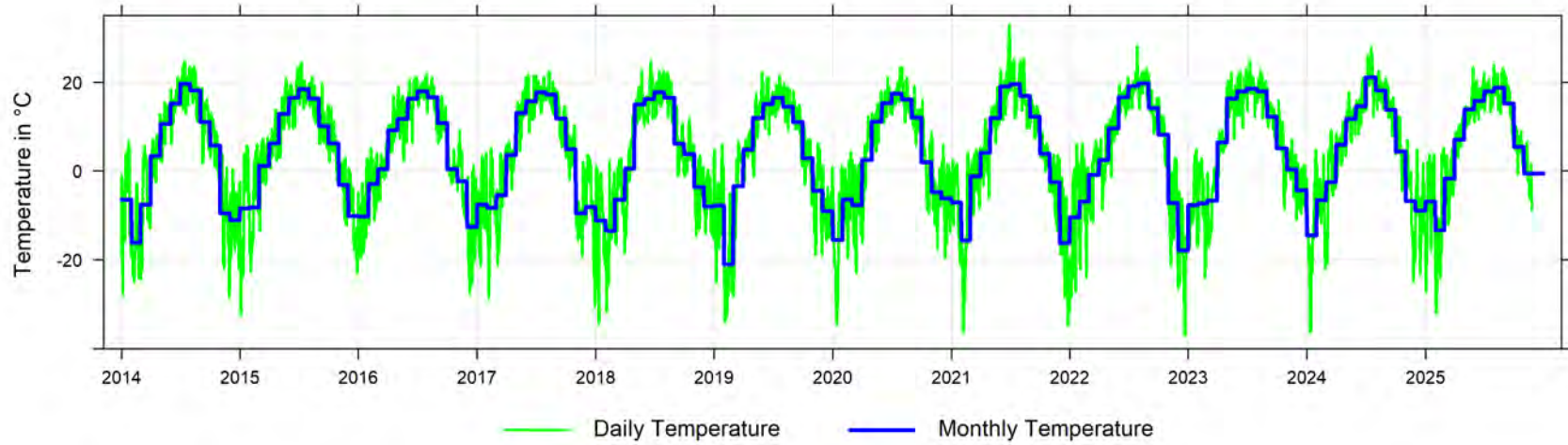
2014 to 2025 Annual Concentration Readings of PM_{2.5} in µg/m³ at Henry Pirker



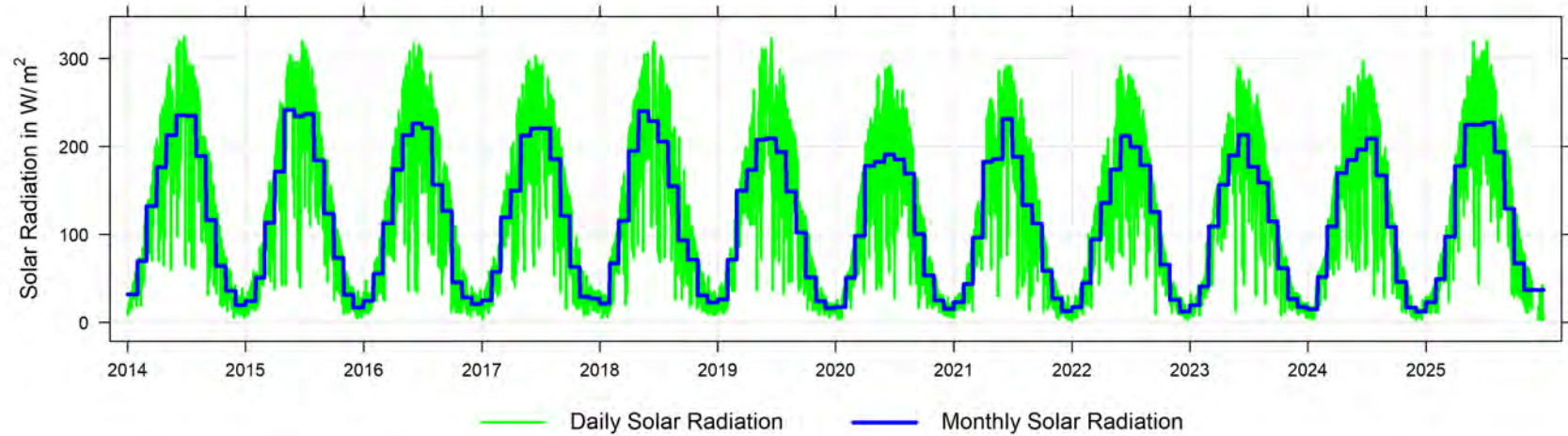
Years 2014 to 2025 Concentration Readings of PM_{2.5} in µg/m³ at Henry Pirker



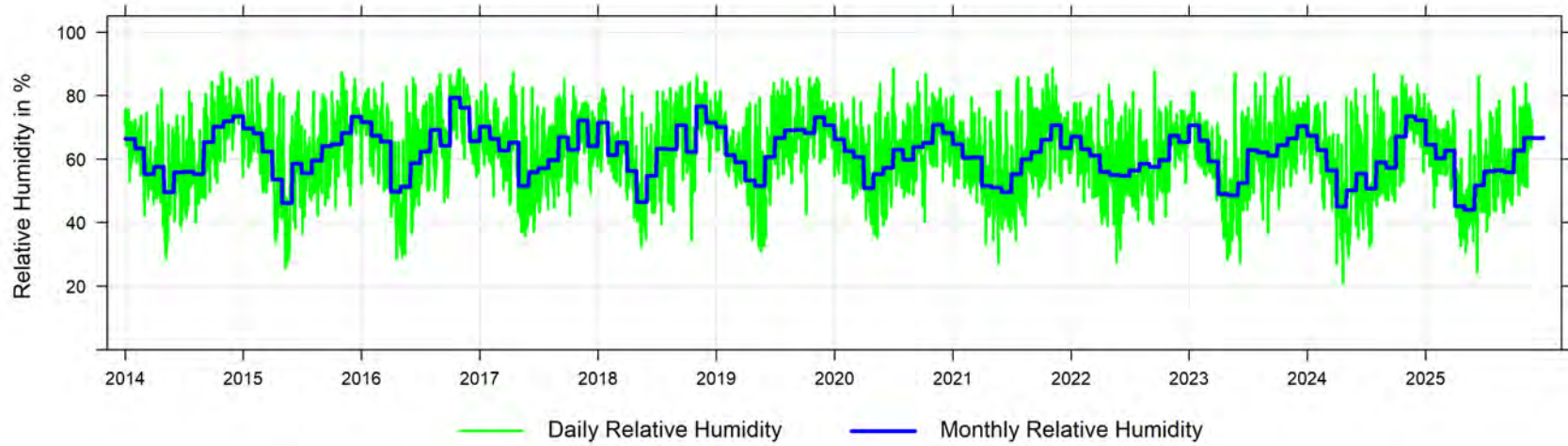
Years 2014 to 2025 Temperature Readings (in °C) at Henry Pirker



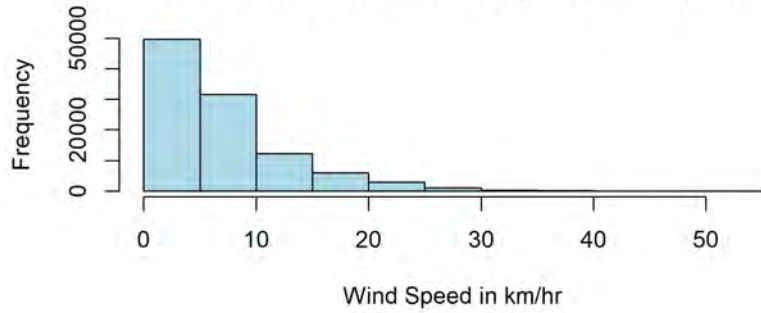
Years 2014 to 2025 Solar Radiation in W/m^2 at Henry Pirker



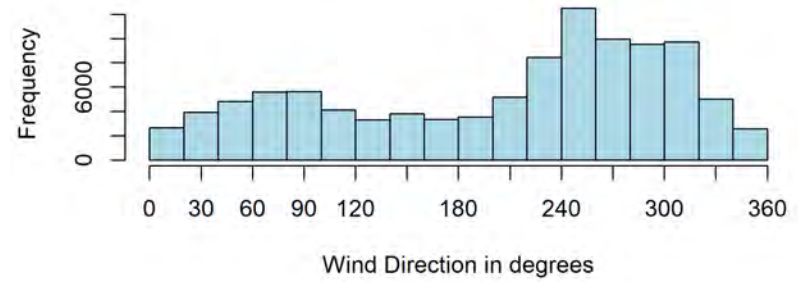
Years 2014 to 2025 Relative Humidity Readings (in %) at Henry Pirker



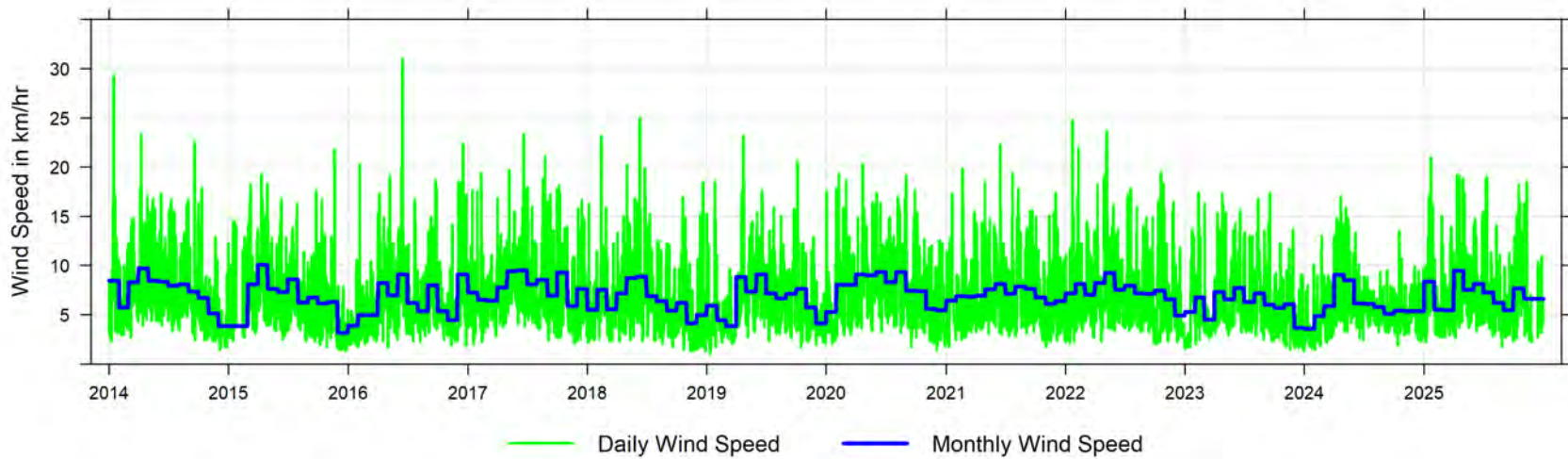
Years 2014 to 2025 Wind Speed Histogram

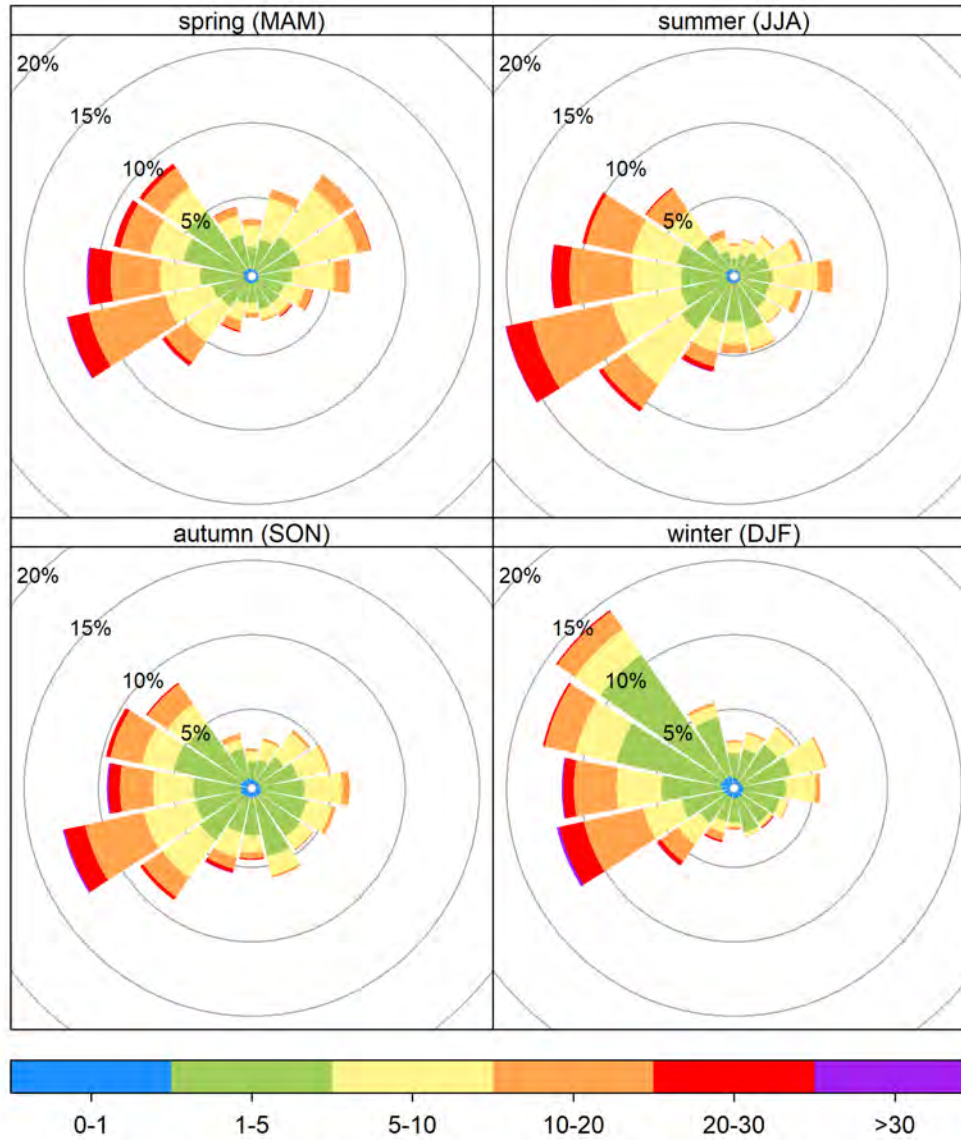


Years 2014 to 2025 Wind Direction Histogram

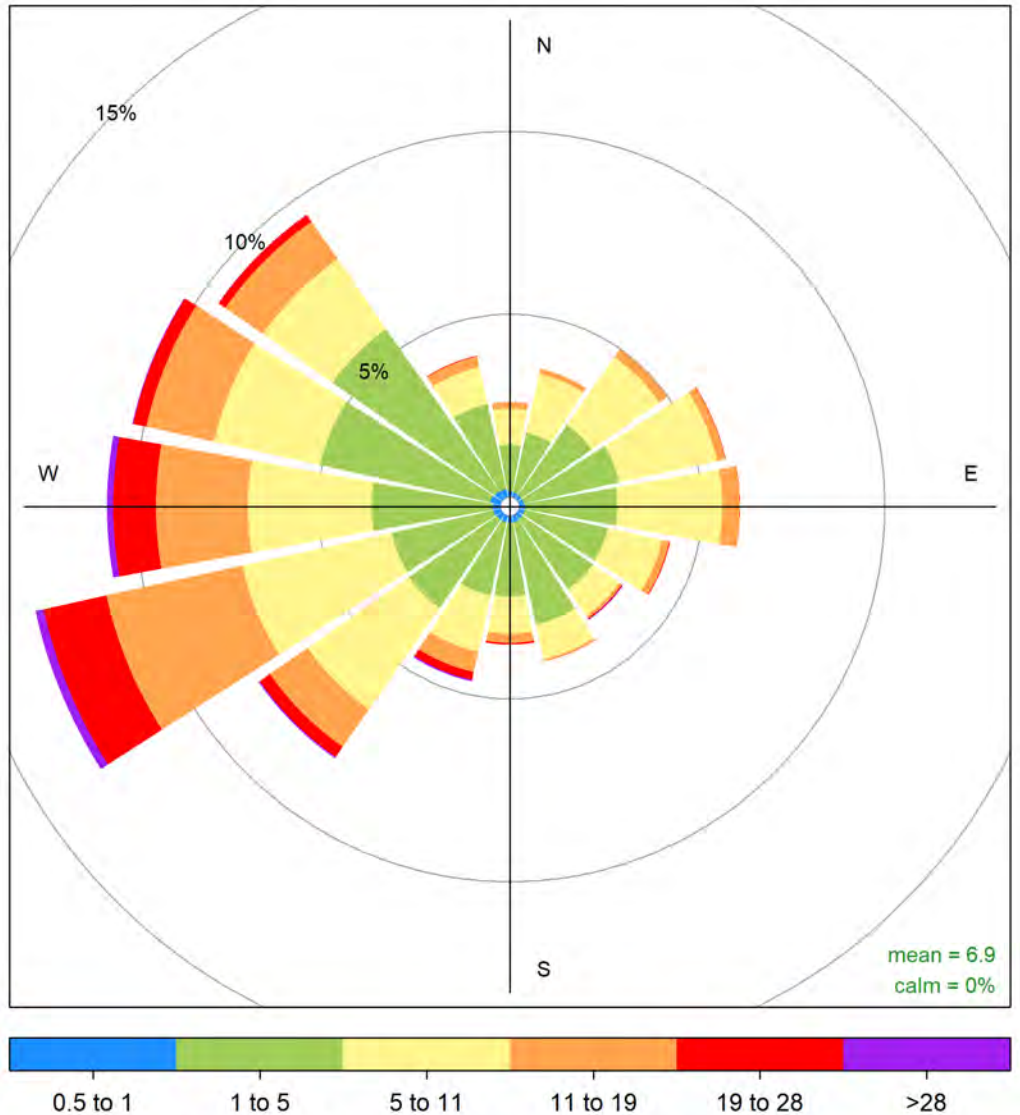


Years 2014 to 2025 Wind Speed Readings (in km/hr) at Henry Pirker





Henry Pirker 2014 to 2025 Seasonal Wind Rose, wind speed in km/hr

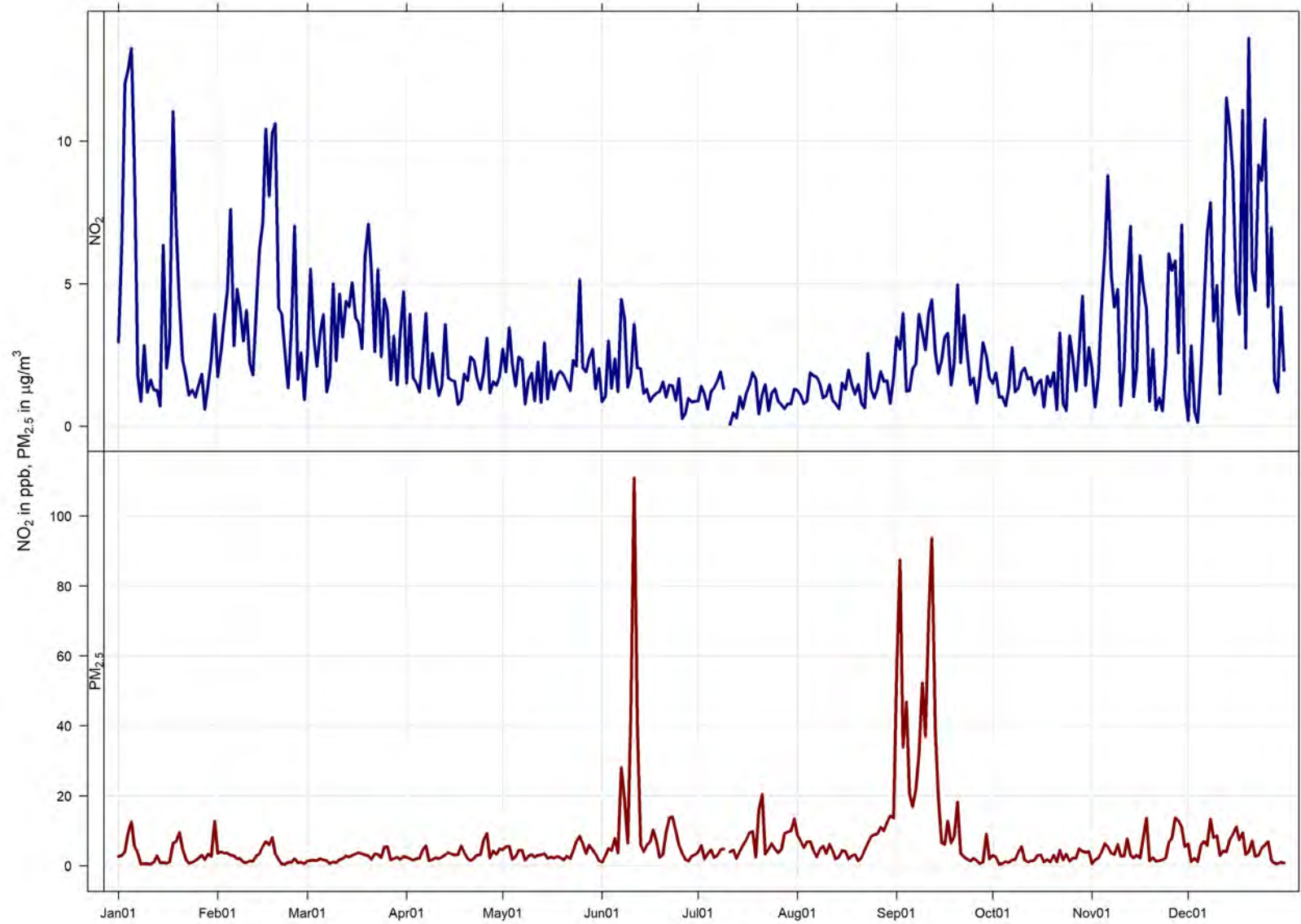


7 Milner Key Parameters - Continuous Monitoring Data - 2025 Summary

Milner Key Parameters - Continuous Monitoring Data - 2025 Summary

Milner Station	Parameter	Average	Maximum Values			Operational Time (%)	Valid Time (%)	Readings above AAAQO & AAAQG					
			24-hr	Date	1-hr			Date	1-hr	8-hr	24-hr	30-d	Annual
			Nitrogen Dioxide NO ₂ measured in ppb	2.8	13.9			Dec 20	28.9	Dec 20 02:00	99.1%	94.2%	0
Nitrogen Oxides NO _x measured in ppb	3.6	21.4	Jan 05	56.2	Mar 23 10:00	99.1%	94.2%	-	-	-	-	-	
Nitric Oxide NO measured in ppb	0.8	7.7	Jan 05	32.5	Dec 18 13:00	99.1%	94.2%	-	-	-	-	-	
Particulate Matter PM _{2.5} measured in µg/m ³	6.4	107.2	Jun 11	163.2	Jun 10 22:00	99.2%	98.9%	65	-	14	-	-	

2025 Daily Concentration Readings at Milner



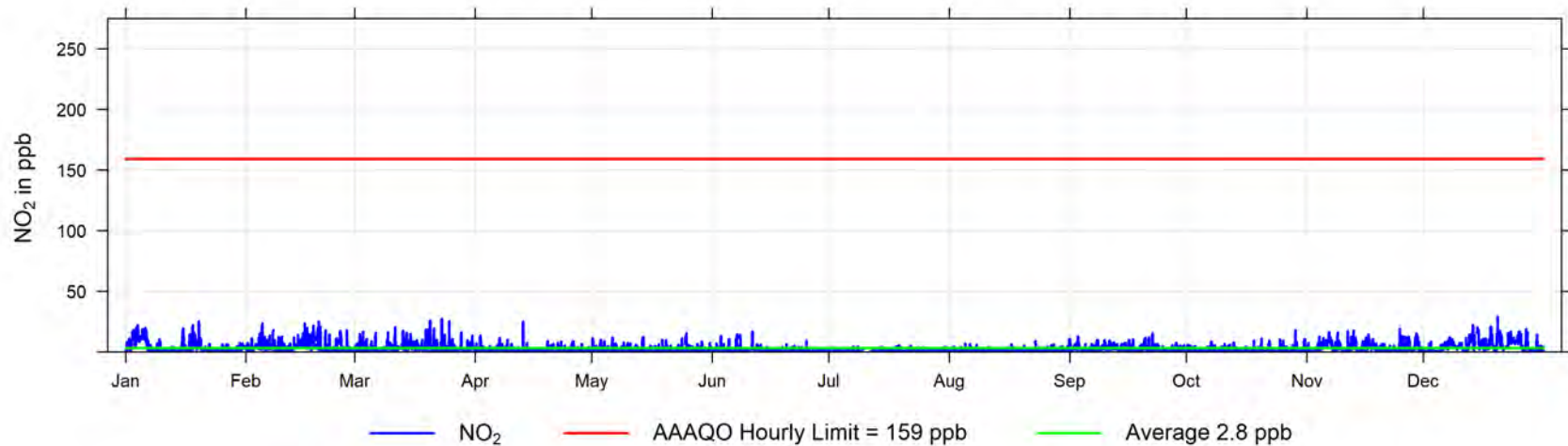
7.1 Nitrogen Dioxide (NO₂) - Milner 2025 Summary

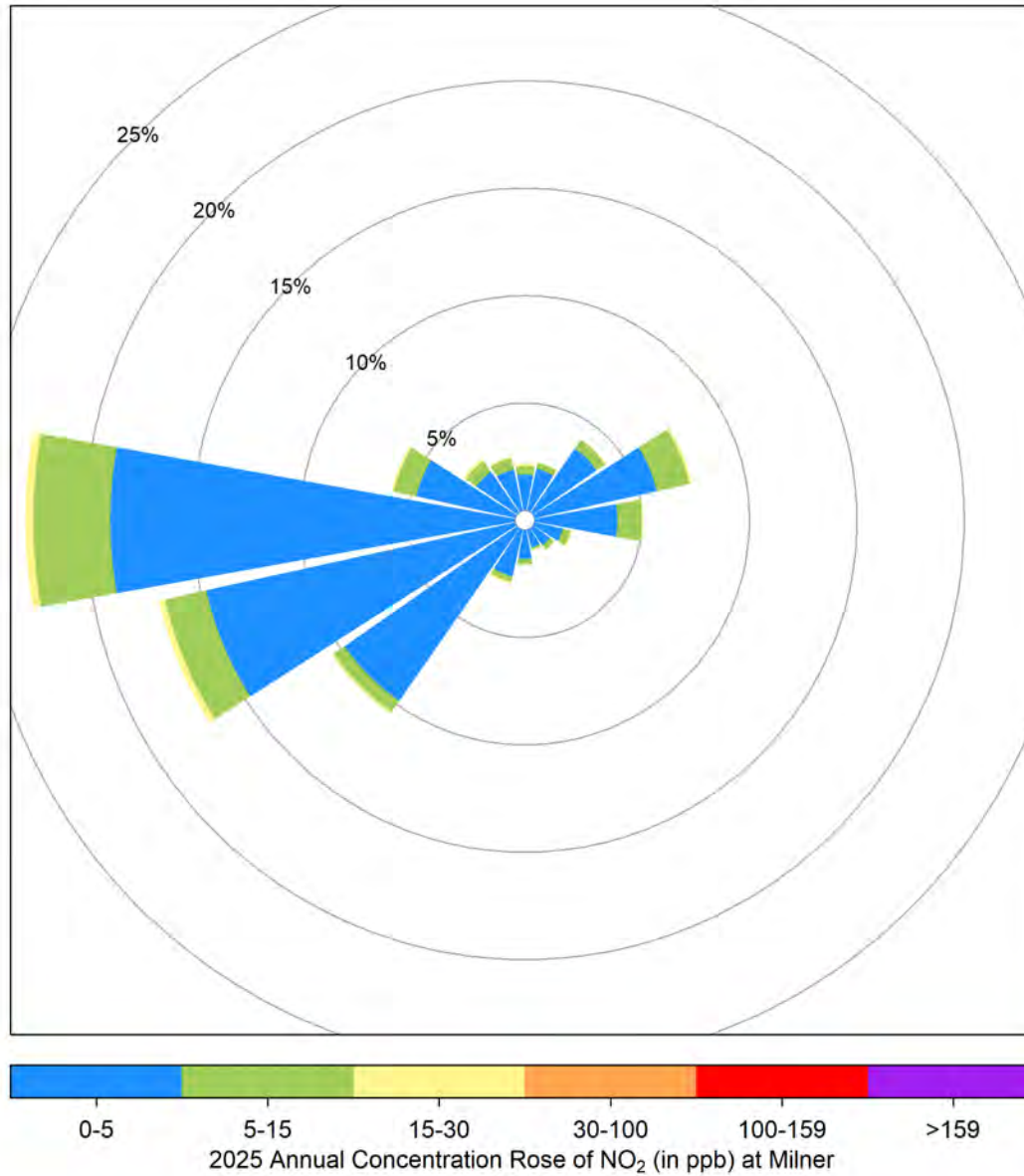
Nitrogen Dioxide (NO₂) Frequency Distribution at Milner

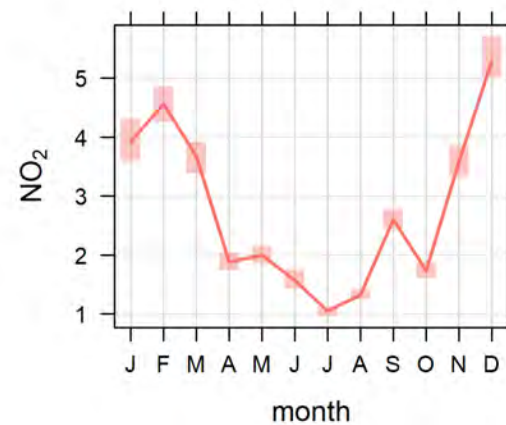
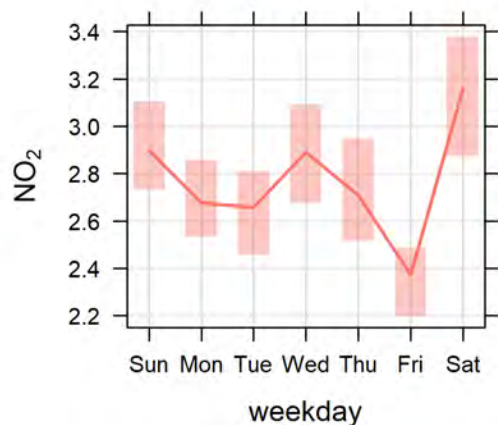
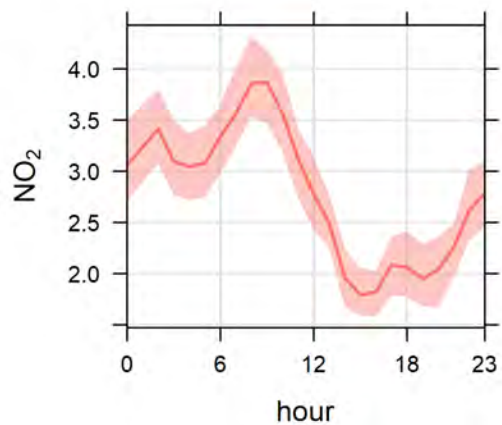
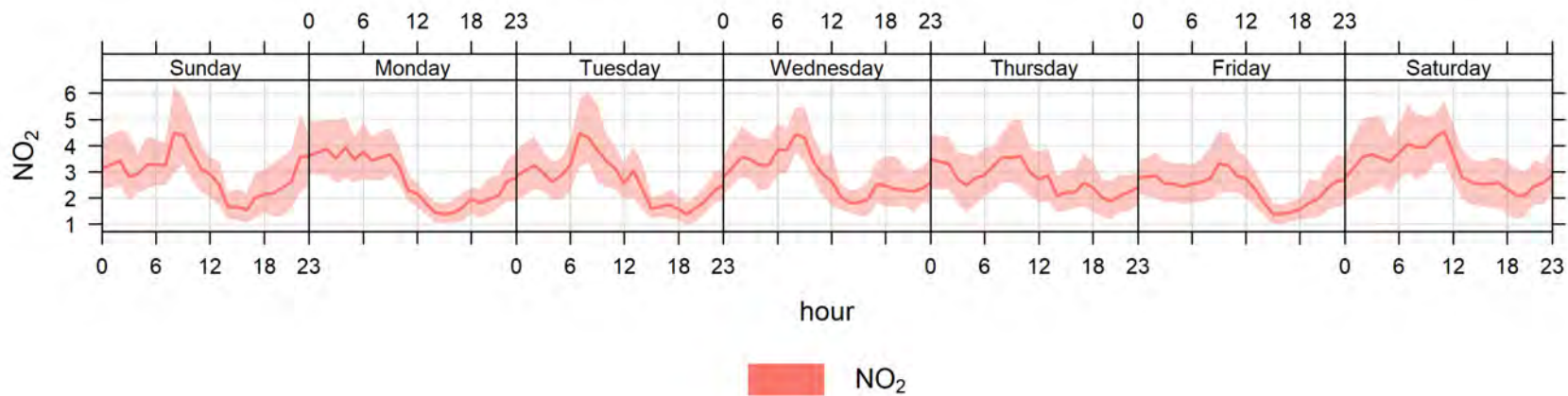
Month	Valid Hours	% of Readings in Concentration Range						Monthly Average (ppb)	MAXIMUM VALUES				Operational time (%)	Valid time (%)	Reportable Incidents 1-hr 159 ppb
		0 to 5 (ppb)	5 to 15 (ppb)	15 to 30 (ppb)	30 to 100 (ppb)	100 to 159 (ppb)	> 159 (ppb)		24-hr (ppb)	Date	1-hr (ppb)	Date			
January 2025	708	75.7%	19.1%	5.2%	0.0%	0.0%	0.0%	3.9	13.5	Jan 05	25.1	Jan 19 20:00	100.0%	95.2%	0
February 2025	639	70.6%	23.8%	5.6%	0.0%	0.0%	0.0%	4.6	11.1	Feb 19	25.0	Feb 19 18:00	100.0%	95.1%	0
March 2025	708	79.8%	17.7%	2.5%	0.0%	0.0%	0.0%	3.7	7.0	Mar 20	27.1	Mar 23 10:00	100.0%	95.2%	0
April 2025	674	92.9%	6.8%	0.3%	0.0%	0.0%	0.0%	1.9	3.9	Apr 07	24.8	Apr 13 08:00	98.6%	93.6%	0
May 2025	706	90.5%	9.3%	0.1%	0.0%	0.0%	0.0%	2.0	5.2	May 25	15.1	May 25 08:00	99.9%	94.9%	0
June 2025	681	95.2%	4.7%	0.1%	0.0%	0.0%	0.0%	1.6	4.6	Jun 07	16.5	Jun 11 09:00	100.0%	94.6%	0
July 2025	655	99.7%	0.3%	0.0%	0.0%	0.0%	0.0%	1.1	1.9	Jul 18	5.6	Jul 19 03:00	92.3%	88.0%	0
August 2025	705	97.7%	2.3%	0.0%	0.0%	0.0%	0.0%	1.3	2.5	Aug 23	10.7	Aug 31 23:00	99.5%	94.8%	0
September 2025	684	85.8%	14.0%	0.1%	0.0%	0.0%	0.0%	2.6	4.8	Sep 20	15.1	Sep 22 08:00	100.0%	95.0%	0
October 2025	706	92.9%	6.9%	0.1%	0.0%	0.0%	0.0%	1.7	4.5	Oct 29	17.8	Oct 29 02:00	99.7%	94.9%	0
November 2025	682	69.5%	29.5%	1.0%	0.0%	0.0%	0.0%	3.6	8.7	Nov 06	18.9	Nov 24 23:00	99.2%	94.7%	0
December 2025	706	58.2%	37.1%	4.7%	0.0%	0.0%	0.0%	5.3	13.9	Dec 20	28.9	Dec 20 02:00	99.9%	94.9%	0
Annual	8254	84.0%	14.3%	1.7%	0.0%	0.0%	0.0%	2.8	MAXIMUM VALUES				99.1%	94.2%	0

AAAQO Objectives: Annual: 24ppb, 1-Hr: 159ppb

2025 Hourly Concentration Readings of NO₂ (in ppb) at Milner

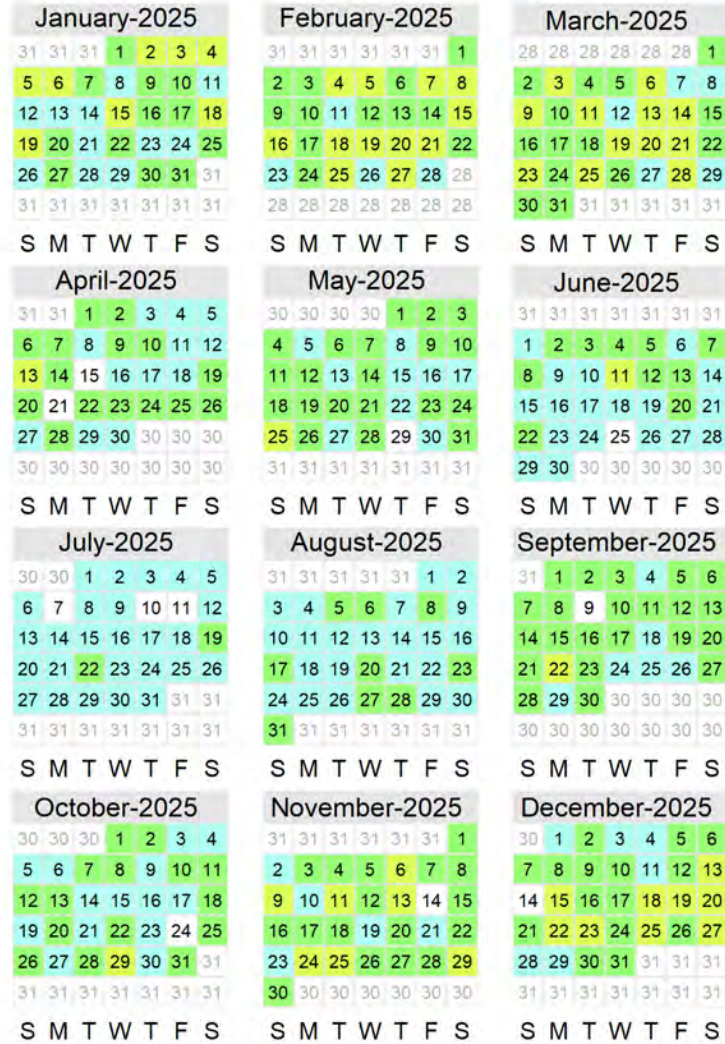






mean and 95% confidence interval in mean

Hourly Maximum NO₂ (in ppb) for 2025 at Milner



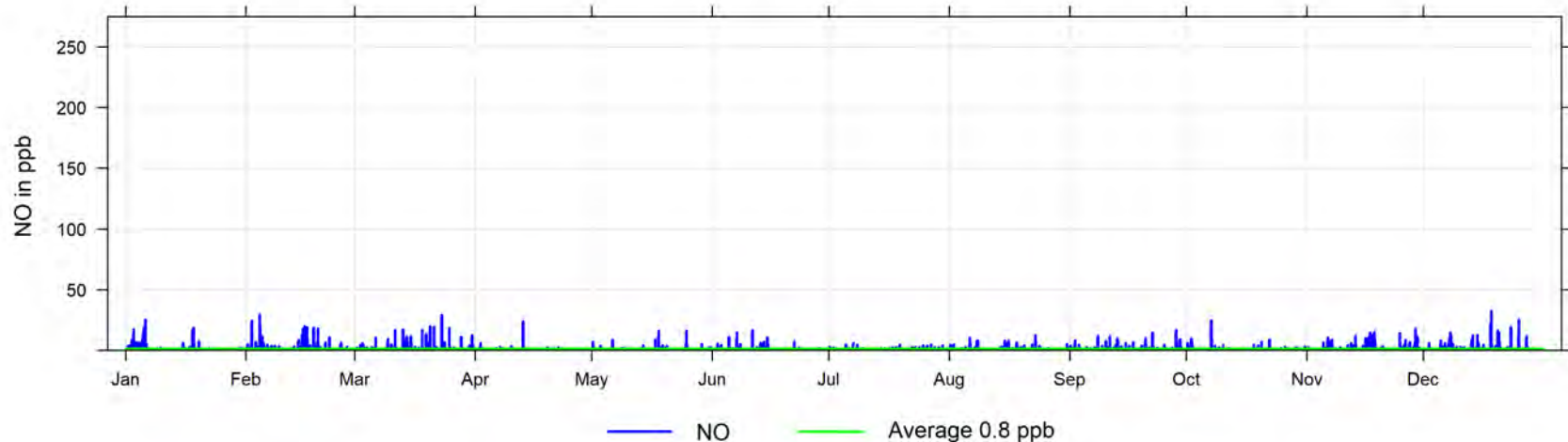
7.2 Nitric Oxide (NO) - Milner 2025 Summary

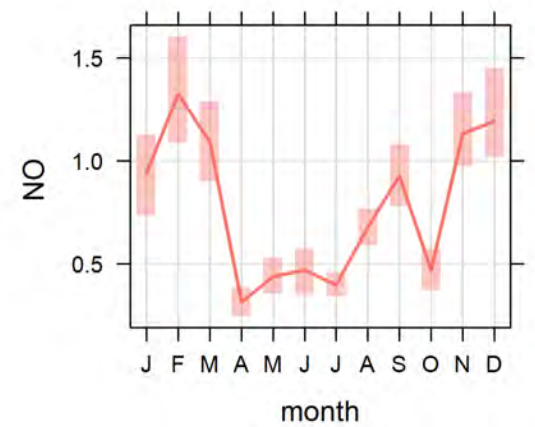
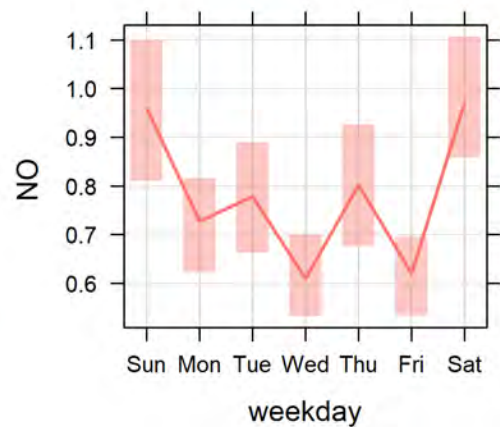
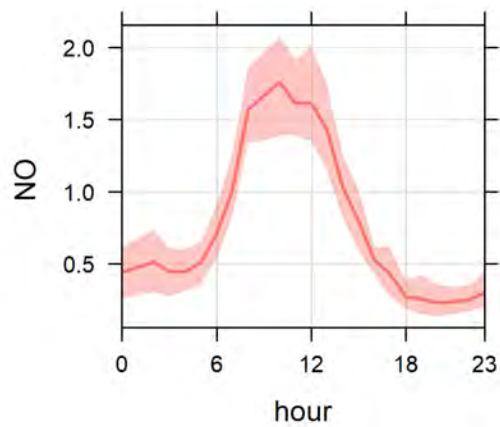
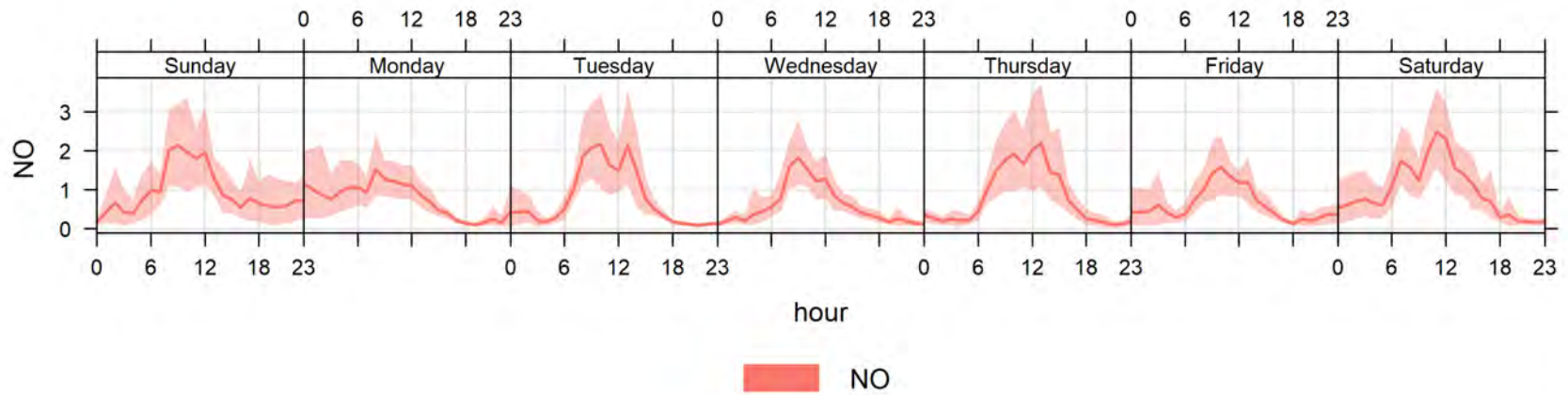
Nitric Oxide (NO) Frequency Distribution at Milner

Month	Valid Hours	% of Readings in Concentration Range						Monthly Average (ppb)	24-hr (ppb)	MAXIMUM VALUES			Operational time (%)	Valid time (%)
		0 to 5 (ppb)	5 to 15 (ppb)	15 to 30 (ppb)	30 to 100 (ppb)	100 to 159 (ppb)	> 159 (ppb)			Date	1-hr (ppb)	Date		
January 2025	708	94.2%	4.7%	1.1%	0.0%	0.0%	0.0%	0.9	7.7	Jan 05	25.1	Jan 06 02:00	100.0%	95.2%
February 2025	639	92.8%	5.5%	1.7%	0.0%	0.0%	0.0%	1.3	5.2	Feb 16	29.2	Feb 04 13:00	100.0%	95.1%
March 2025	708	94.2%	4.7%	1.1%	0.0%	0.0%	0.0%	1.1	2.8	Mar 23	29.1	Mar 23 10:00	100.0%	95.2%
April 2025	674	99.6%	0.1%	0.3%	0.0%	0.0%	0.0%	0.3	2.0	Apr 13	23.7	Apr 13 08:00	98.6%	93.6%
May 2025	706	98.6%	1.1%	0.3%	0.0%	0.0%	0.0%	0.4	2.0	May 25	15.9	May 25 08:00	99.9%	94.9%
June 2025	681	97.8%	2.1%	0.1%	0.0%	0.0%	0.0%	0.5	1.7	Jun 15	16.4	Jun 11 09:00	100.0%	94.6%
July 2025	655	99.8%	0.2%	0.0%	0.0%	0.0%	0.0%	0.4	1.0	Jul 19	5.9	Jul 07 08:00	92.3%	88.0%
August 2025	705	97.6%	2.4%	0.0%	0.0%	0.0%	0.0%	0.7	1.9	Aug 15	12.1	Aug 23 04:00	99.5%	94.8%
September 2025	684	95.3%	4.5%	0.1%	0.0%	0.0%	0.0%	0.9	2.8	Sep 29	16.6	Sep 28 10:00	100.0%	95.0%
October 2025	706	98.3%	1.6%	0.1%	0.0%	0.0%	0.0%	0.5	2.6	Oct 07	24.5	Oct 07 10:00	99.7%	94.9%
November 2025	682	93.0%	6.7%	0.3%	0.0%	0.0%	0.0%	1.1	4.2	Nov 18	17.7	Nov 29 00:00	99.2%	94.7%
December 2025	706	93.9%	4.8%	1.0%	0.3%	0.0%	0.0%	1.2	5.5	Dec 18	32.5	Dec 18 13:00	99.9%	94.9%
Annual	8254	96.3%	3.2%	0.5%	0.0%	0.0%	0.0%	0.8	7.7	MAXIMUM VALUES			99.1%	94.2%

AAAQO Objectives: none

2025 Hourly Concentration Readings of NO (in ppb) at Milner





mean and 95% confidence interval in mean

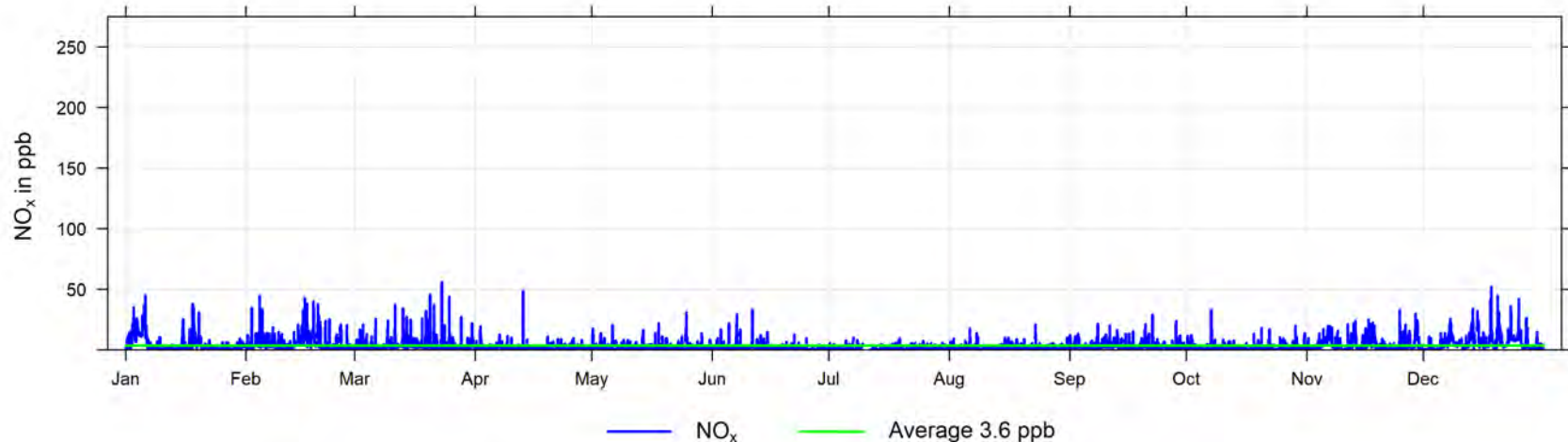
7.3 Oxides of Nitrogen (NO_x) - Milner 2025 Summary

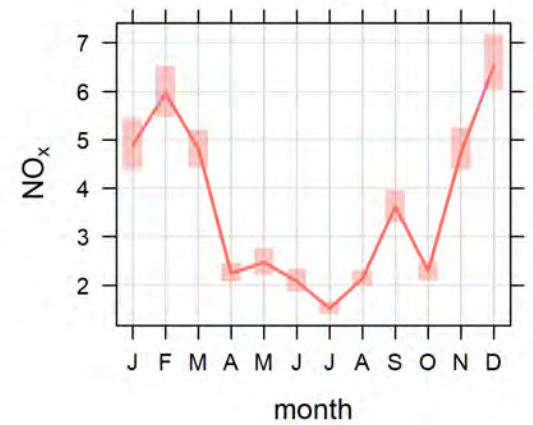
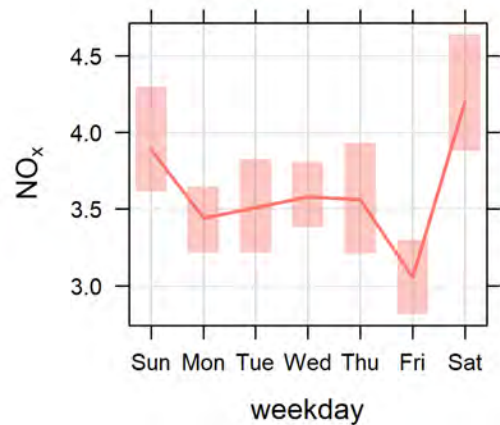
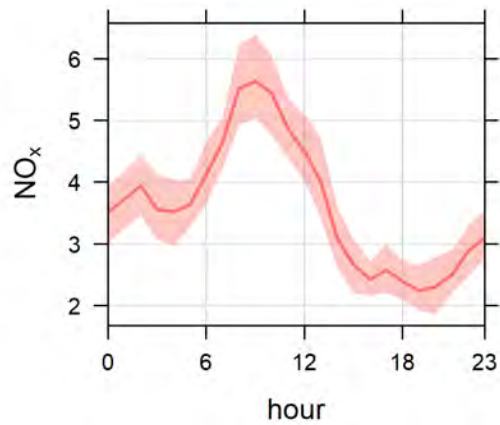
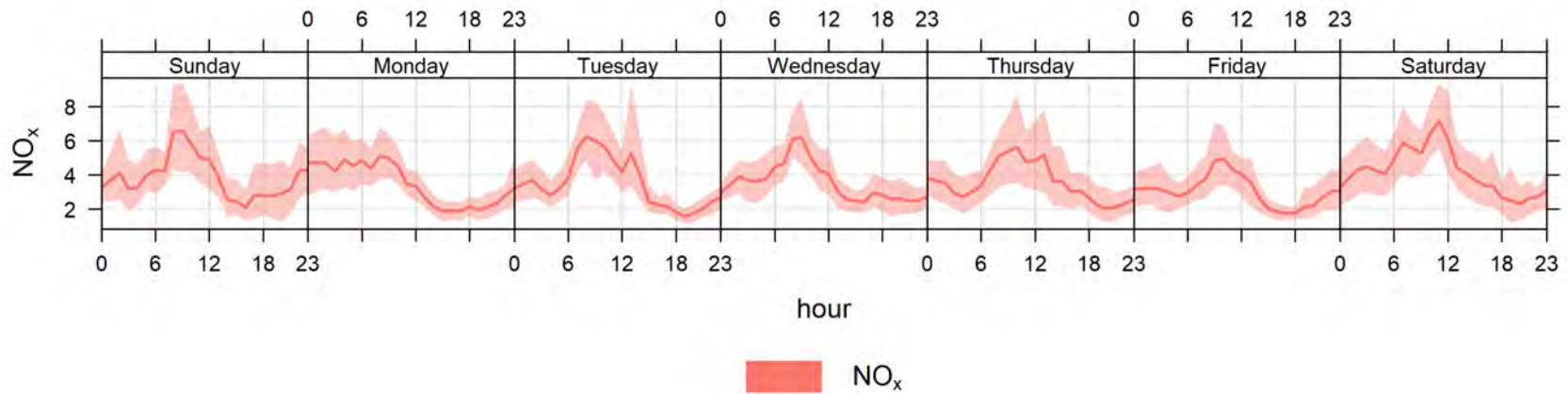
Nitrogen Oxides (NO_x) Frequency Distribution at Milner

Month	Valid Hours	% of Readings in Concentration Range						Monthly Average (ppb)	MAXIMUM VALUES			Operational time (%)	Valid time (%)	
		0 to 5 (ppb)	5 to 15 (ppb)	15 to 30 (ppb)	30 to 100 (ppb)	100 to 159 (ppb)	> 159 (ppb)		24-hr (ppb)	Date	1-hr (ppb)			Date
January 2025	708	73.3%	17.7%	7.3%	1.7%	0.0%	0.0%	4.9	21.4	Jan 05	45.1	Jan 06 02:00	100.0%	95.2%
February 2025	639	62.9%	26.4%	8.5%	2.2%	0.0%	0.0%	6.0	15.7	Feb 16	44.7	Feb 04 13:00	100.0%	95.1%
March 2025	708	73.6%	20.3%	4.7%	1.4%	0.0%	0.0%	4.8	9.3	Mar 20	56.2	Mar 23 10:00	100.0%	95.2%
April 2025	674	90.7%	8.8%	0.3%	0.3%	0.0%	0.0%	2.2	5.5	Apr 13	48.7	Apr 13 08:00	98.6%	93.6%
May 2025	706	88.2%	10.5%	1.1%	0.1%	0.0%	0.0%	2.5	7.3	May 25	31.2	May 25 08:00	99.9%	94.9%
June 2025	681	92.7%	6.0%	1.2%	0.1%	0.0%	0.0%	2.1	6.4	Jun 07	33.2	Jun 11 09:00	100.0%	94.6%
July 2025	655	95.6%	4.4%	0.0%	0.0%	0.0%	0.0%	1.5	2.7	Jul 08	10.2	Jul 07 08:00	92.3%	88.0%
August 2025	705	91.6%	8.1%	0.3%	0.0%	0.0%	0.0%	2.1	4.4	Aug 23	21.1	Aug 23 04:00	99.5%	94.8%
September 2025	684	75.7%	22.5%	1.8%	0.0%	0.0%	0.0%	3.6	6.9	Sep 20	29.4	Sep 22 08:00	100.0%	95.0%
October 2025	706	89.2%	9.8%	0.8%	0.1%	0.0%	0.0%	2.3	5.5	Oct 07	33.3	Oct 07 10:00	99.7%	94.9%
November 2025	682	65.0%	29.0%	5.9%	0.1%	0.0%	0.0%	4.7	11.7	Nov 06	33.0	Nov 24 23:00	99.2%	94.7%
December 2025	706	55.0%	35.4%	7.9%	1.7%	0.0%	0.0%	6.5	18.1	Dec 20	52.4	Dec 18 13:00	99.9%	94.9%
Annual	8254	79.5%	16.6%	3.3%	0.7%	0.0%	0.0%	3.6	MAXIMUM VALUES			99.1%	94.2%	

AAAQO Objectives: none

2025 Hourly Concentration Readings of NO_x (in ppb) at Milner





mean and 95% confidence interval in mean

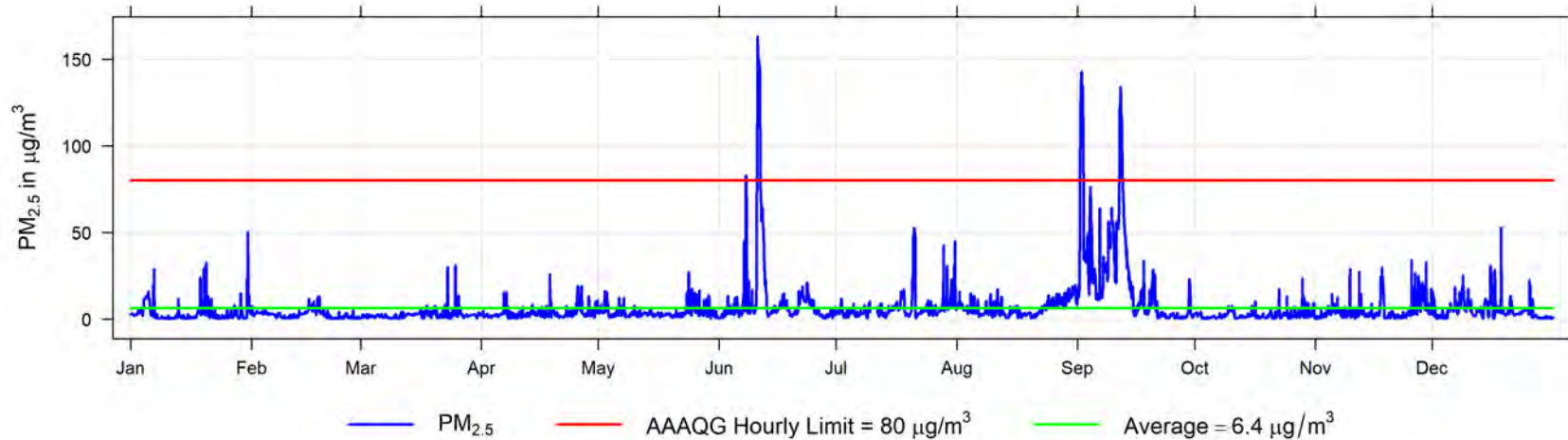
7.4 Particulate Matter (PM_{2.5}) - Milner 2025 Summary

Particulate Matter (PM_{2.5}) Frequency Distribution at Milner

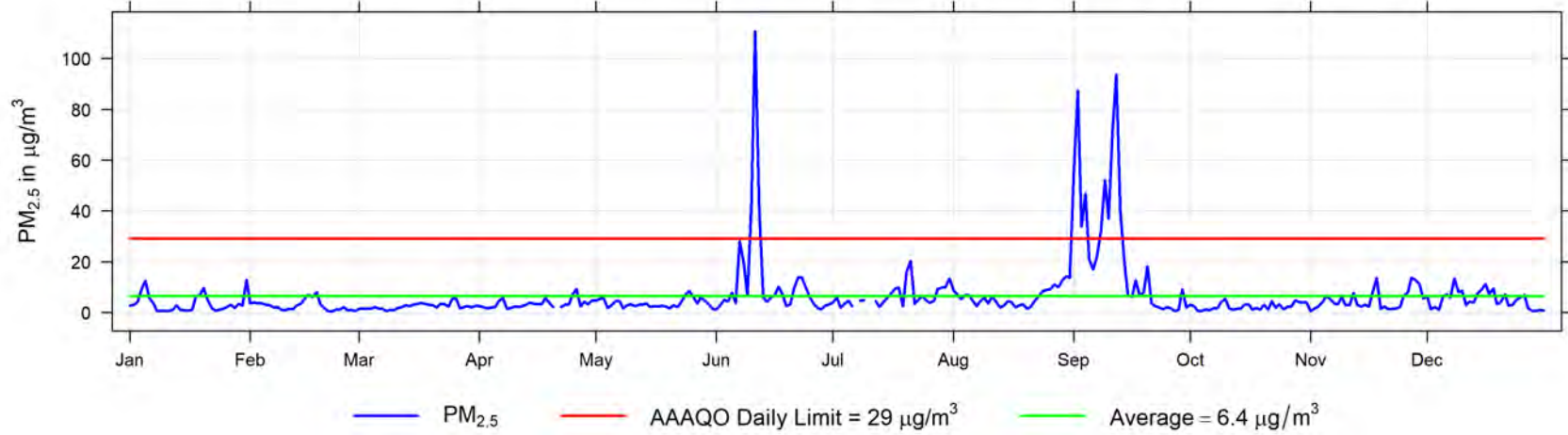
Month	Valid Hours	% of Readings in Concentration Range						Monthly Average (µg/m ³)	MAXIMUM VALUES				Operational time (%)	Valid time (%)	Reportable Incidents	
		0 to 5 (µg/m ³)	5 to 15 (µg/m ³)	15 to 30 (µg/m ³)	30 to 50 (µg/m ³)	50 to 80 (µg/m ³)	> 80 (µg/m ³)		24-hr (µg/m ³)	Date	1-hr (µg/m ³)	Date			24-hr 29 µg/m ³	1-hr 80 µg/m ³
January 2025	743	80.1%	17.4%	2.0%	0.4%	0.1%	0.0%	3.5	12.2	Jan 05	50.3	Jan 31 02:00	100.0%	99.9%	0	0
February 2025	670	89.1%	10.9%	0.0%	0.0%	0.0%	0.0%	2.7	7.7	Feb 18	13.2	Feb 18 09:00	100.0%	99.7%	0	0
March 2025	741	93.3%	6.5%	0.0%	0.3%	0.0%	0.0%	2.4	5.4	Mar 26	30.9	Mar 25 08:00	100.0%	99.6%	0	0
April 2025	709	86.3%	12.7%	1.0%	0.0%	0.0%	0.0%	3.3	9.1	Apr 26	25.6	Apr 18 13:00	98.6%	98.5%	0	0
May 2025	742	84.1%	15.0%	0.9%	0.0%	0.0%	0.0%	3.6	8.5	May 25	27.0	May 24 05:00	100.0%	99.7%	0	0
June 2025	717	48.5%	36.8%	6.1%	2.0%	3.2%	3.3%	12.9	107.2	Jun 11	163.2	Jun 10 22:00	100.0%	99.6%	4	24
July 2025	688	53.6%	40.1%	3.8%	1.7%	0.7%	0.0%	6.4	18.4	Jul 21	53.0	Jul 21 01:00	92.6%	92.5%	0	0
August 2025	738	48.5%	48.4%	3.1%	0.0%	0.0%	0.0%	6.1	14.3	Aug 30	19.7	Aug 31 08:00	99.5%	99.2%	0	0
September 2025	716	36.2%	19.0%	18.0%	12.2%	8.9%	5.7%	23.6	90.3	Sep 12	142.9	Sep 02 01:00	100.0%	99.4%	10	41
October 2025	743	91.0%	8.6%	0.4%	0.0%	0.0%	0.0%	2.4	5.3	Oct 10	23.6	Oct 28 17:00	100.0%	99.9%	0	0
November 2025	715	72.2%	20.4%	7.1%	0.3%	0.0%	0.0%	4.9	13.7	Nov 27	34.2	Nov 25 17:00	100.0%	99.3%	0	0
December 2025	743	62.0%	32.8%	4.8%	0.1%	0.1%	0.0%	5.1	13.4	Dec 08	53.3	Dec 18 17:00	100.0%	99.9%	0	0
Annual	8665	70.4%	22.4%	3.9%	1.4%	1.1%	0.8%	6.4	107.2	Jun 11	163.2	Jun 10 22:00	99.2%	98.9%	14	65

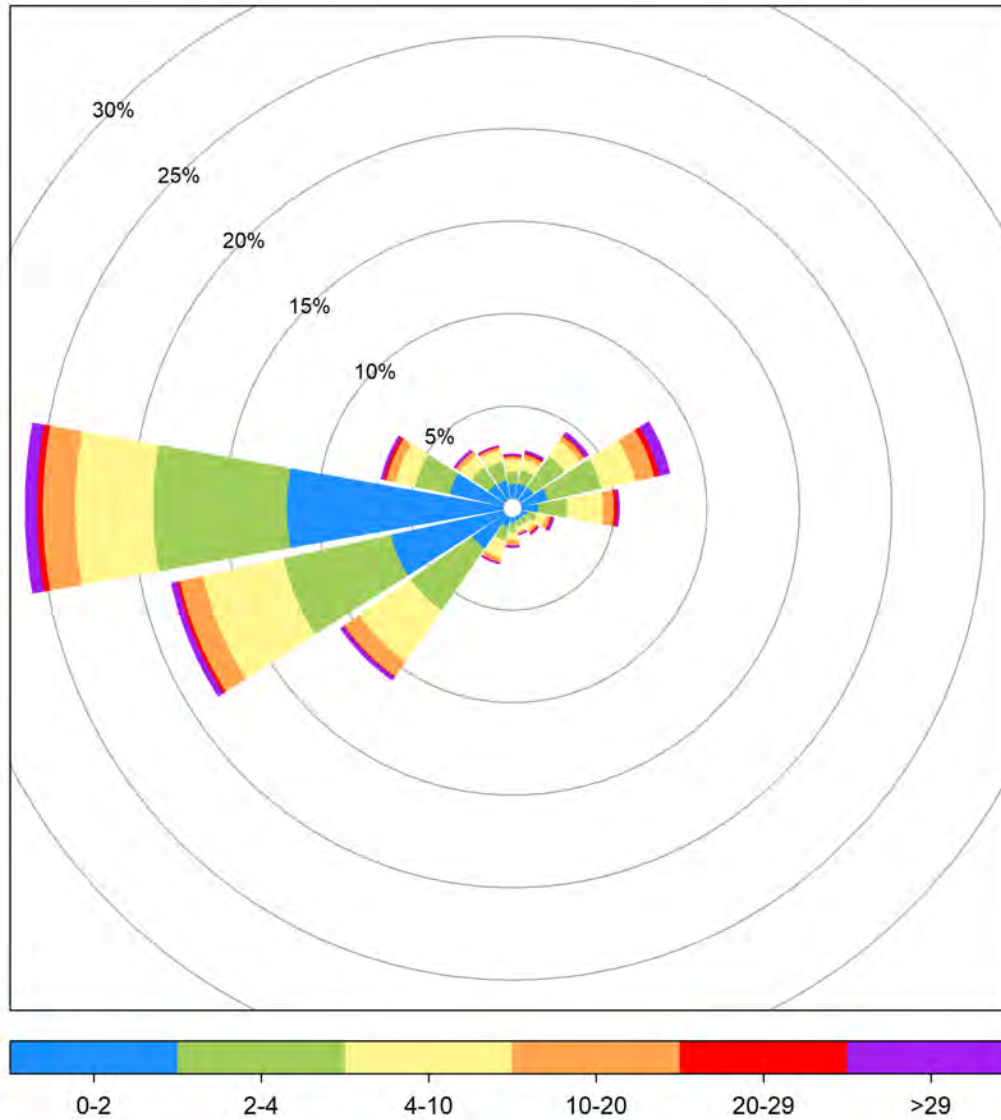
AAAQO Objectives: 24-Hr: 29 µg/m³, AAAQG Guideline: 1-Hr: 80 µg/m³

2025 Hourly Concentration Readings of PM_{2.5} in µg/m³ at Milner

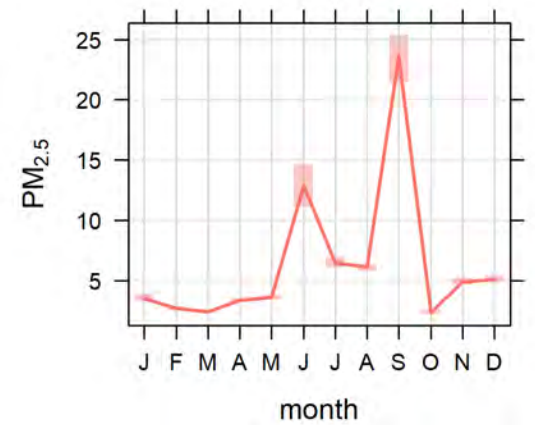
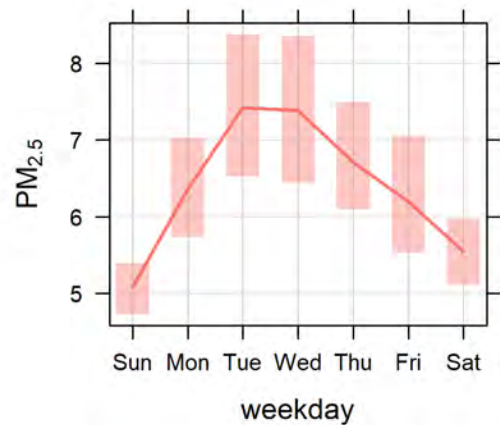
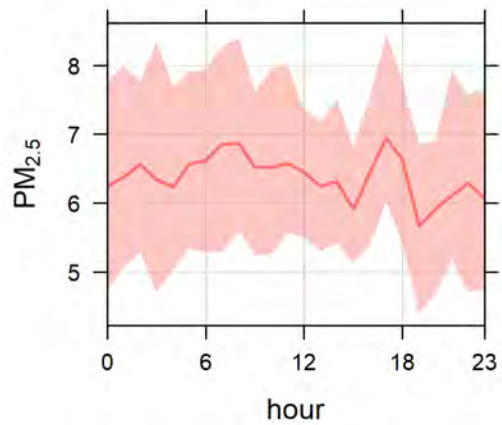
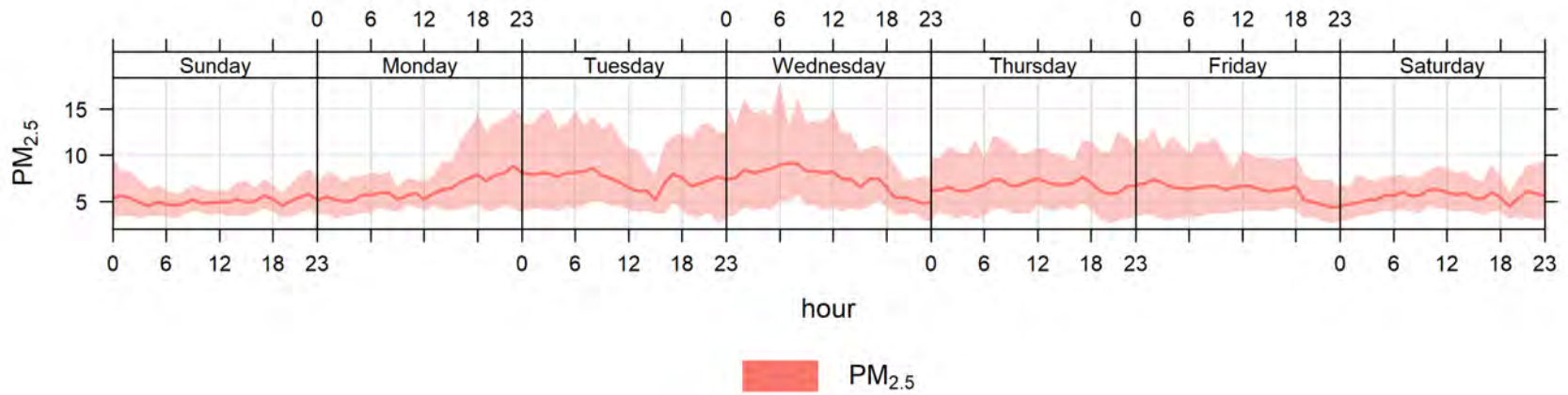


2025 Daily Concentration Readings of PM_{2.5} in µg/m³ at Milner



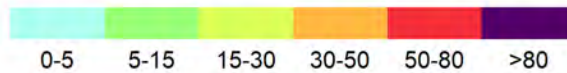
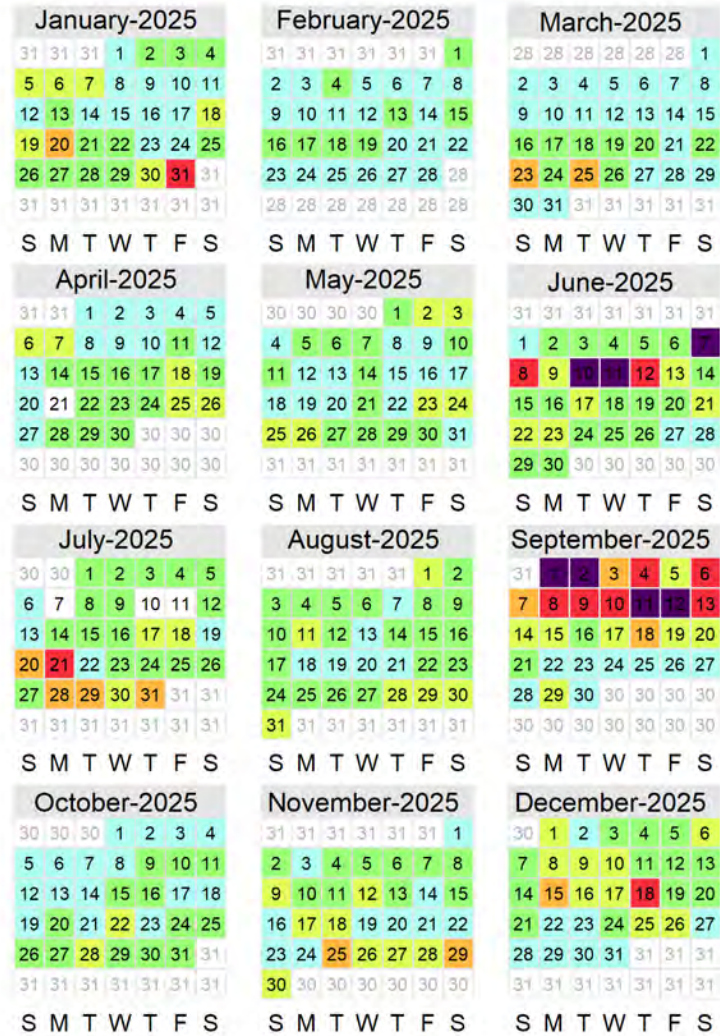


2025 Annual Concentration Readings of PM_{2.5} in µg/m³ at Milner



mean and 95% confidence interval in mean

Hourly Maximum PM_{2.5} (in µg/m³) for 2025 at Milner

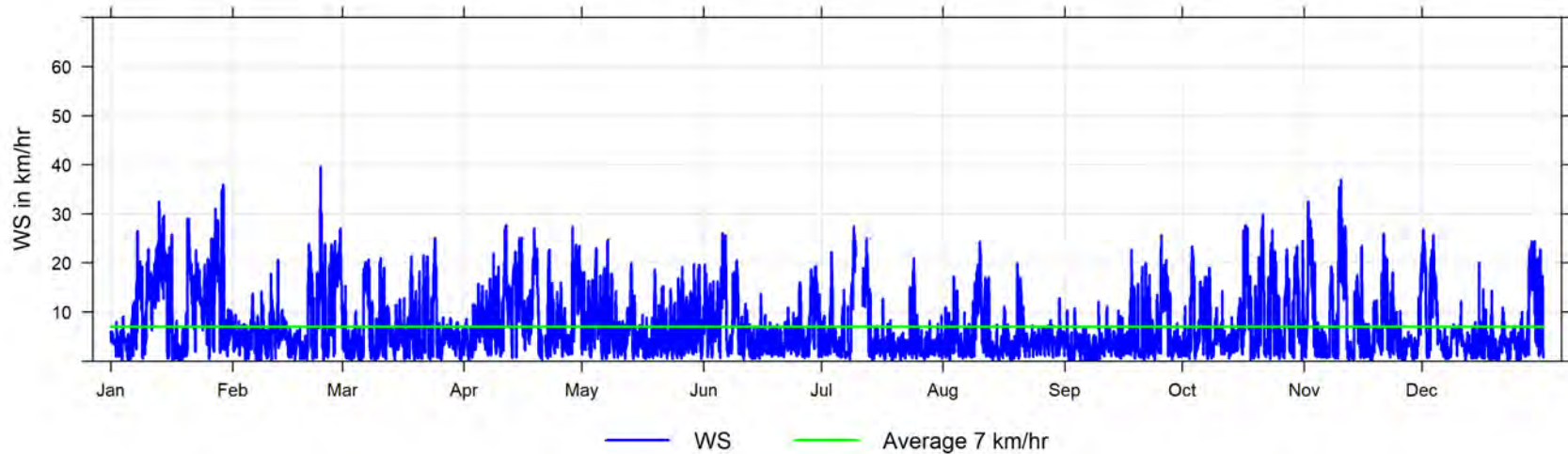


7.5 Wind Speed and Wind Direction (WS and WD) - Milner 2025 Summary

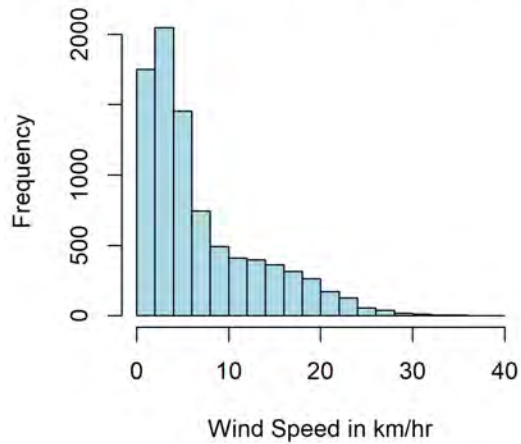
Wind Speed Frequency Distribution at Milner

Month	Valid Hours	% of Readings in Concentration Range						Monthly Average (km/hr)	MAXIMUM VALUES				Operational time (%)	Valid time (%)
		Calm	0.5 to 5 (km/hr)	5 to 11 (km/hr)	11 to 19 (km/hr)	19 to 28 (km/hr)	>28 (km/hr)		24-hr (km/hr)	Date	1-hr (km/hr)	Date		
January 2025	744	2.7%	31.3%	19.5%	28.8%	14.7%	3.1%	10.9	22.6	Jan 13	36.0	Jan 29 15:00	100.0%	100.0%
February 2025	672	3.9%	45.2%	28.7%	14.9%	6.4%	0.9%	7.3	18.7	Feb 23	39.6	Feb 23 11:00	100.0%	100.0%
March 2025	744	3.8%	52.3%	25.9%	14.1%	3.9%	0.0%	6.2	16.7	Mar 24	25.1	Mar 24 14:00	100.0%	100.0%
April 2025	703	0.6%	33.4%	30.7%	25.3%	10.0%	0.0%	9.4	18.7	Apr 11	27.7	Apr 11 16:00	97.6%	97.6%
May 2025	744	1.3%	48.4%	29.6%	19.0%	1.7%	0.0%	6.6	12.7	May 04	24.9	May 07 15:00	100.0%	100.0%
June 2025	720	0.4%	53.2%	26.7%	17.4%	2.4%	0.0%	6.5	16.0	Jun 06	26.0	Jun 05 21:00	100.0%	100.0%
July 2025	687	1.9%	72.8%	11.6%	9.6%	4.1%	0.0%	5.1	21.7	Jul 09	27.4	Jul 09 08:00	92.6%	92.3%
August 2025	742	1.3%	66.4%	22.9%	8.1%	1.2%	0.0%	4.9	14.0	Aug 10	24.3	Aug 10 10:00	99.7%	99.7%
September 2025	715	8.7%	62.4%	15.9%	11.5%	1.5%	0.0%	4.8	15.1	Sep 26	25.7	Sep 25 15:00	100.0%	99.3%
October 2025	743	0.9%	46.2%	21.3%	23.1%	8.3%	0.1%	8.0	17.8	Oct 17	29.8	Oct 21 12:00	100.0%	99.9%
November 2025	720	2.8%	49.6%	21.4%	15.6%	9.0%	1.7%	7.6	24.0	Nov 02	37.0	Nov 10 09:00	100.0%	100.0%
December 2025	744	3.8%	54.4%	24.5%	8.6%	8.7%	0.0%	6.4	21.5	Dec 01	26.7	Dec 01 10:00	100.0%	100.0%
Annual	8678	2.7%	51.3%	23.2%	16.3%	6.0%	0.5%	7.0	24.0	Nov 02	39.6	Feb 23 11:00	99.2%	99.1%

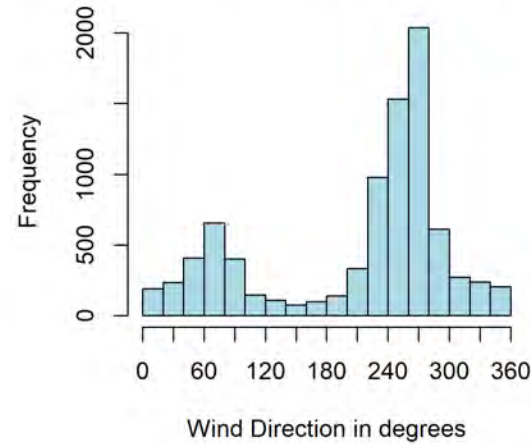
2025 Hourly Readings of Wind Speed (in km/hr) at Milner



2025 Wind Speed Histogram

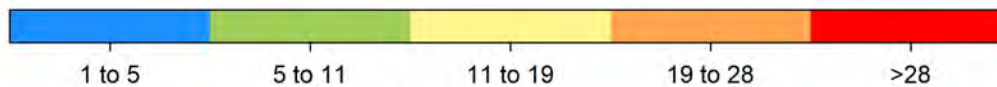
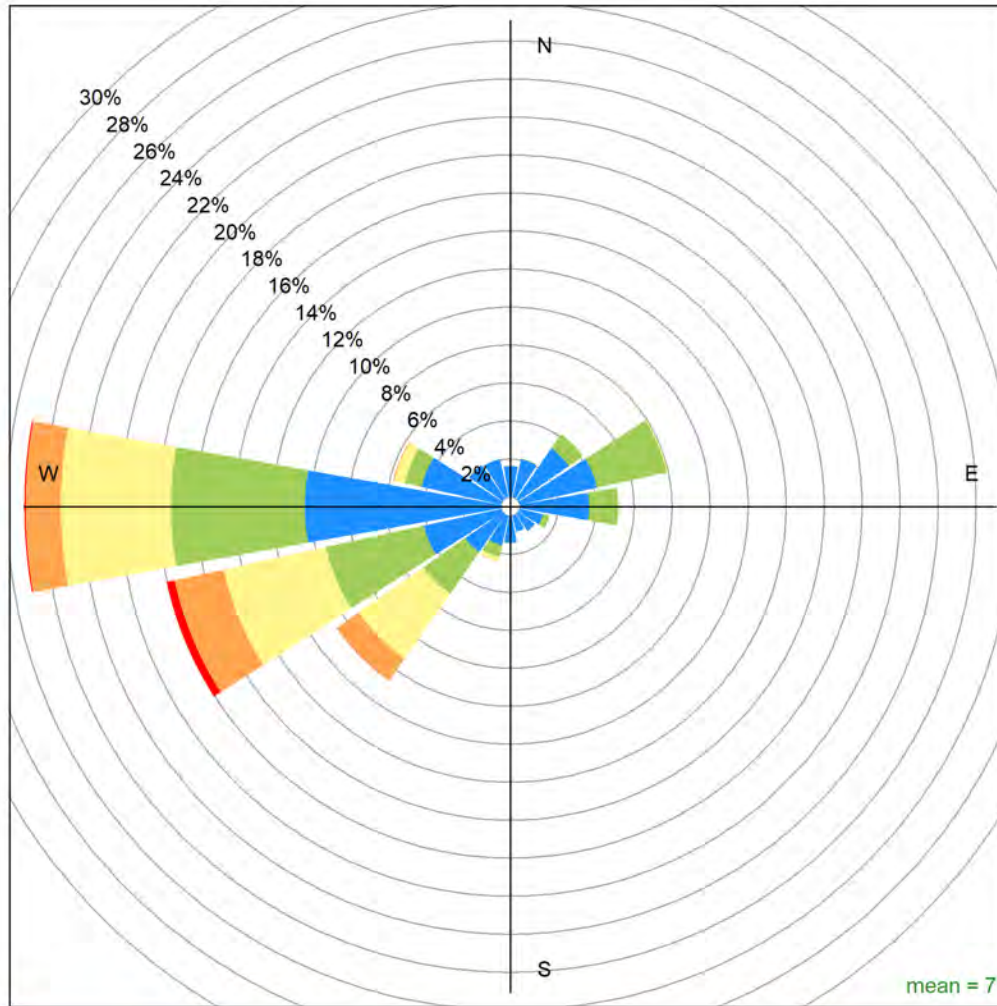


2025 Wind Direction Histogram



Wind Speed and Wind Direction Frequency Distribution at Milner

Direction	Number of Readings	% of wind speed range						Total %
		Calm (<0.5) (km/hr)	0.5 to 5 (km/hr)	5 to 11 (km/hr)	11 to 19 (km/hr)	19 to 28 (km/hr)	>28 (km/hr)	
N	211	0.3%	2.2%	0.0%	0.0%	0.0%	0.0%	2.4%
NNE	232	0.3%	2.4%	0.0%	0.0%	0.0%	0.0%	2.7%
NE	394	0.1%	3.5%	0.9%	0.0%	0.0%	0.0%	4.5%
ENE	717	0.2%	4.3%	3.7%	0.1%	0.0%	0.0%	8.3%
E	463	0.1%	3.7%	1.6%	0.0%	0.0%	0.0%	5.3%
ESE	158	0.1%	1.4%	0.4%	0.0%	0.0%	0.0%	1.8%
SE	112	0.0%	1.2%	0.0%	0.0%	0.0%	0.0%	1.3%
SSE	88	0.1%	0.9%	0.0%	0.0%	0.0%	0.0%	1.0%
S	143	0.1%	1.5%	0.0%	0.0%	0.0%	0.0%	1.6%
SSW	227	0.0%	1.7%	0.6%	0.2%	0.0%	0.0%	2.6%
SW	946	0.1%	2.5%	2.7%	4.2%	1.4%	0.0%	10.9%
WSW	1605	0.2%	4.4%	5.3%	5.5%	2.7%	0.4%	18.5%
W	2246	0.3%	10.8%	7.1%	5.8%	1.9%	0.1%	25.9%
WNW	588	0.3%	4.9%	0.9%	0.6%	0.1%	0.0%	6.8%
NW	291	0.3%	3.0%	0.0%	0.0%	0.0%	0.0%	3.4%
NNW	257	0.2%	2.7%	0.0%	0.0%	0.0%	0.0%	3.0%
Total	8678	2.7%	51.3%	23.2%	16.4%	6.0%	0.5%	100.0%

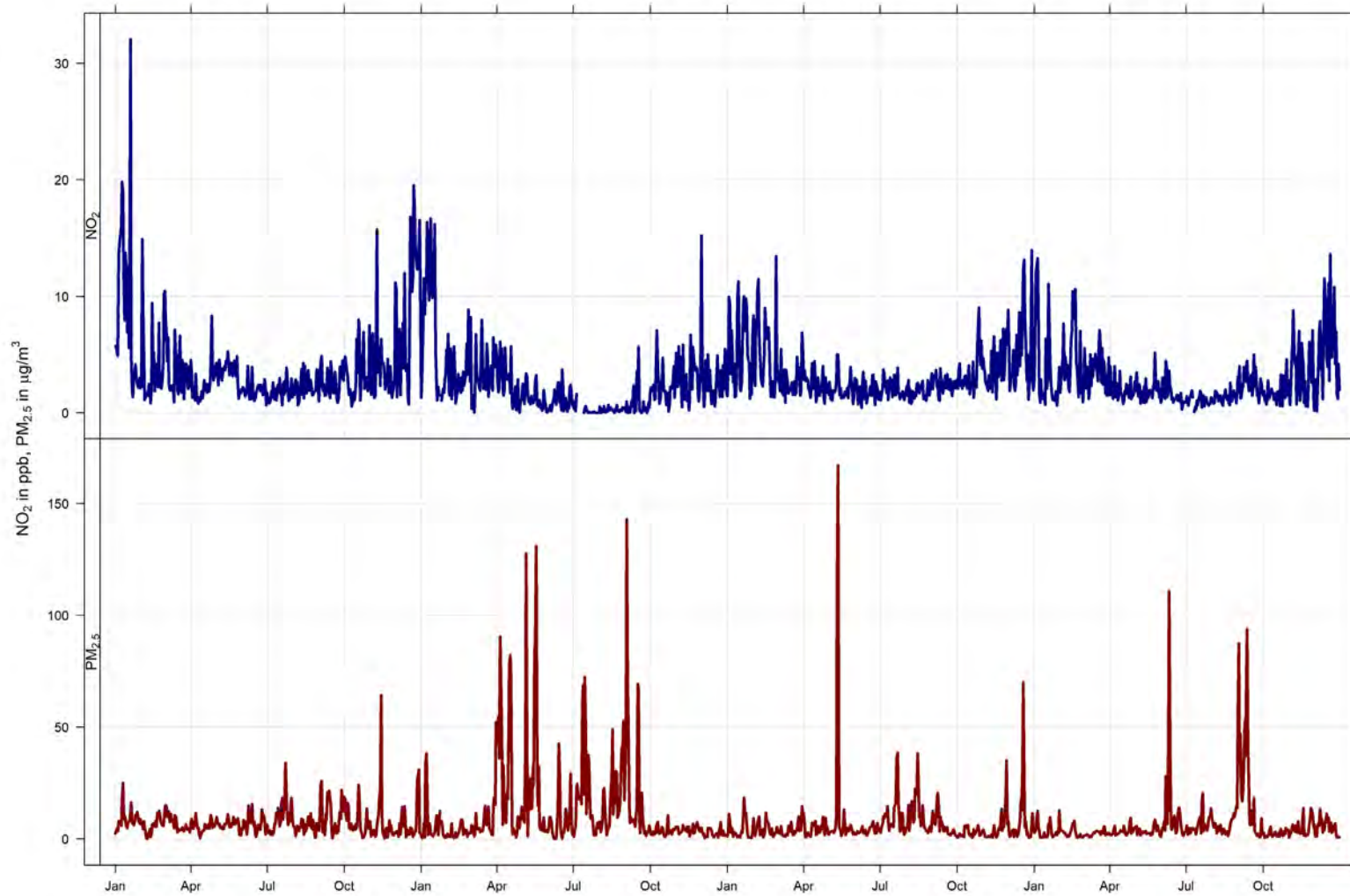


Milner 2025 Wind Rose, wind speed in km/hr
Calms (<1km/hr) = 7.7 %

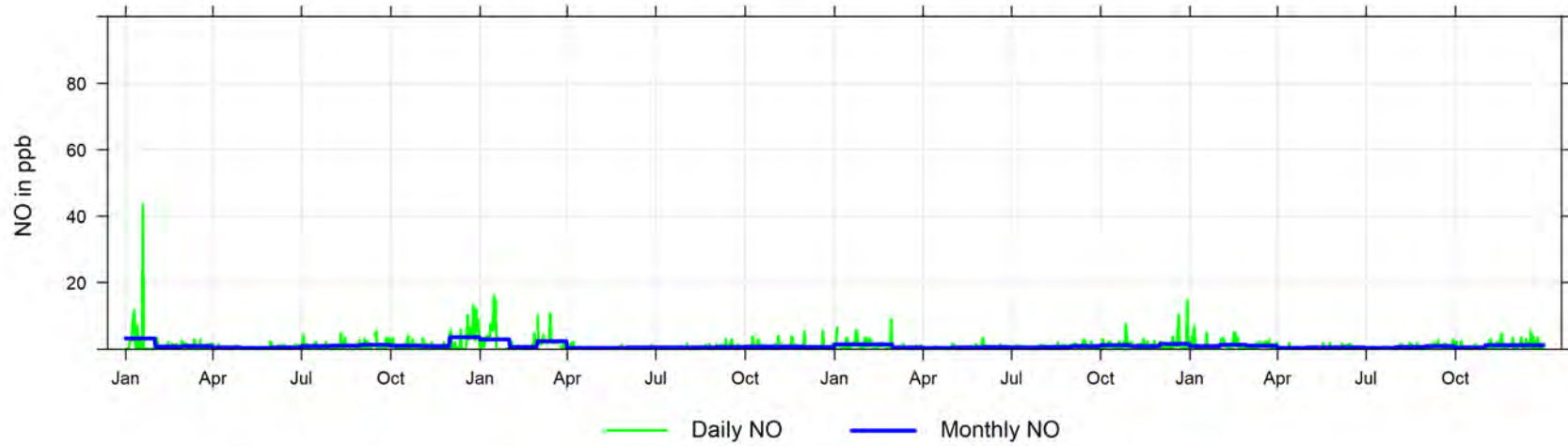
7.6 Milner Annual Trends, 2022 to 2025

The following pages include historical annual charts collected between 2022 and 2025 at the Milner Station.

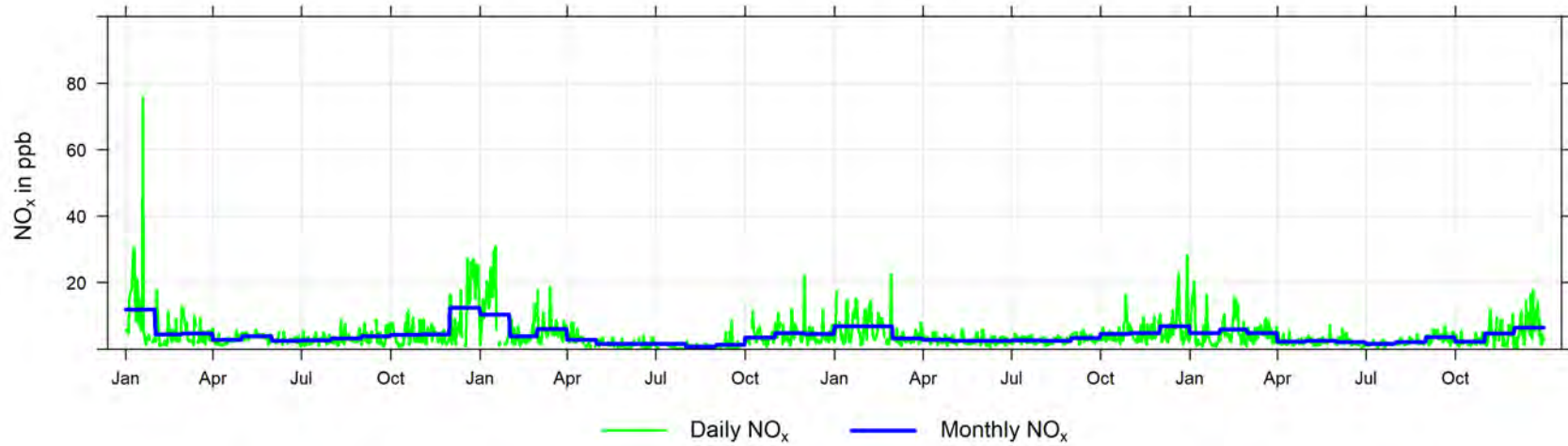
2022 to 2025 Daily Concentration Readings at Milner



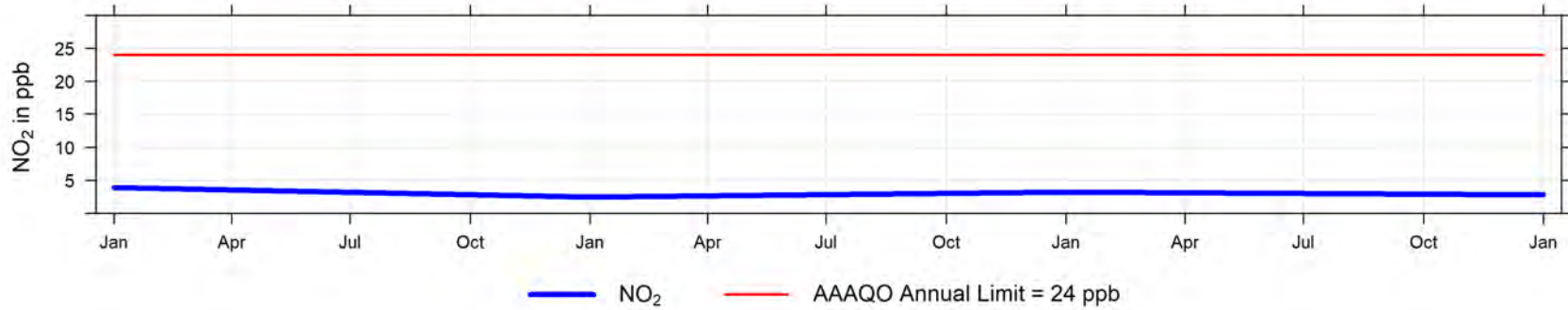
Years 2022 to 2025 Concentration Readings of NO (in ppb) at Milner



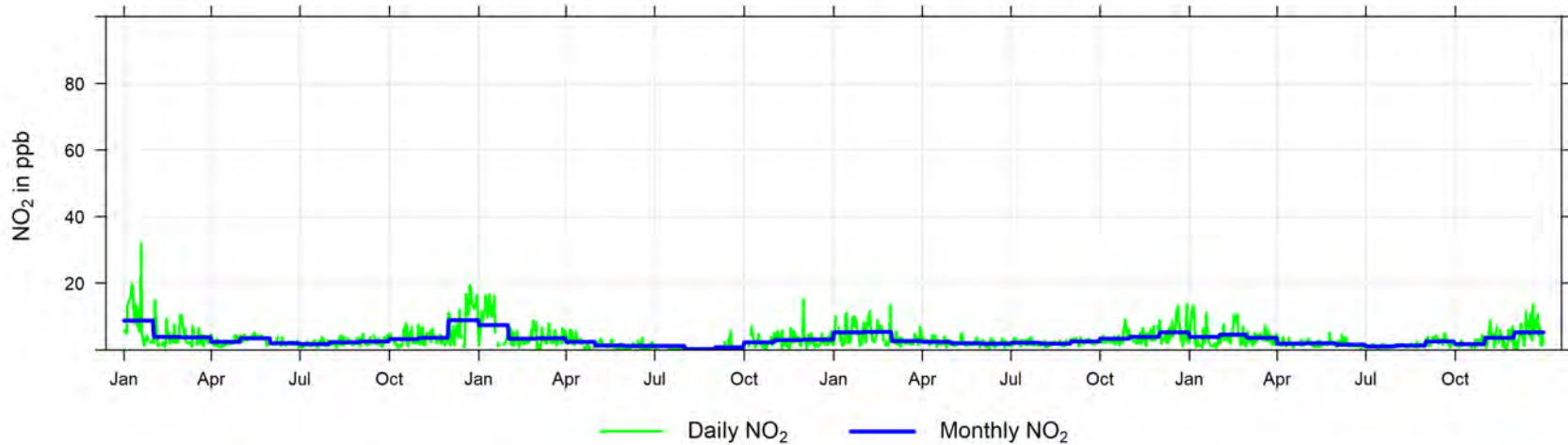
Years 2022 to 2025 Concentration Readings of NO_x (in ppb) at Milner



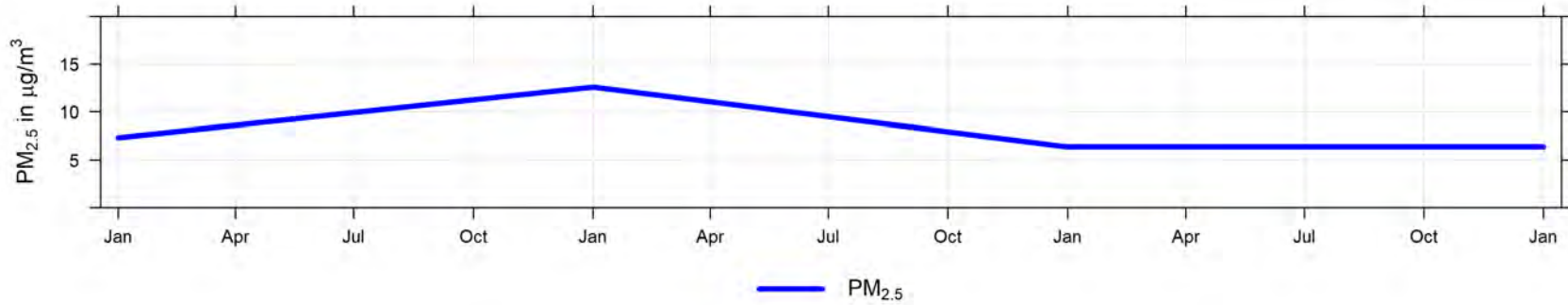
Years 2022 to 2025 Annual Concentration Readings of NO₂ (in ppb) at Milner



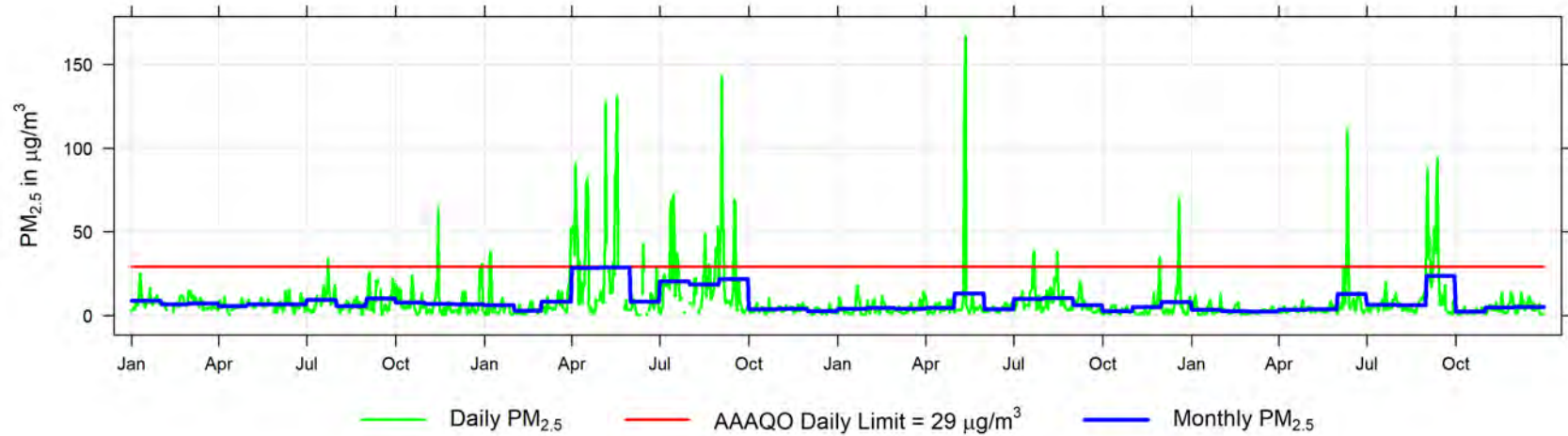
Years 2022 to 2025 Concentration Readings of NO₂ (in ppb) at Milner



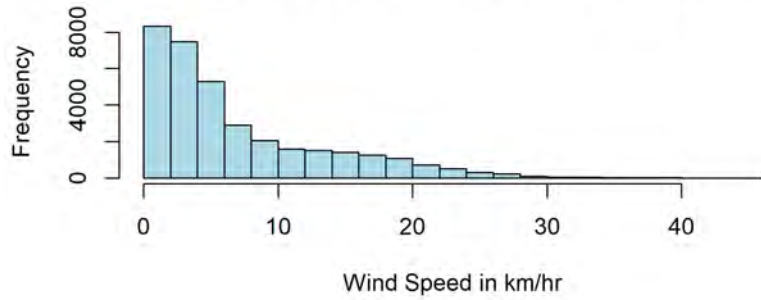
2022 to 2025 Annual Concentration Readings of PM_{2.5} in µg/m³ at Milner



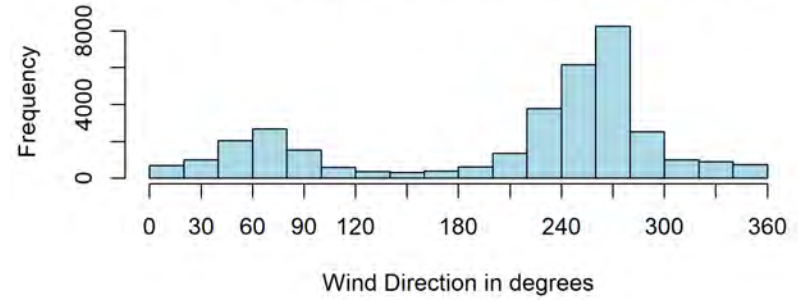
Years 2022 to 2025 Concentration Readings of PM_{2.5} in µg/m³ at Milner



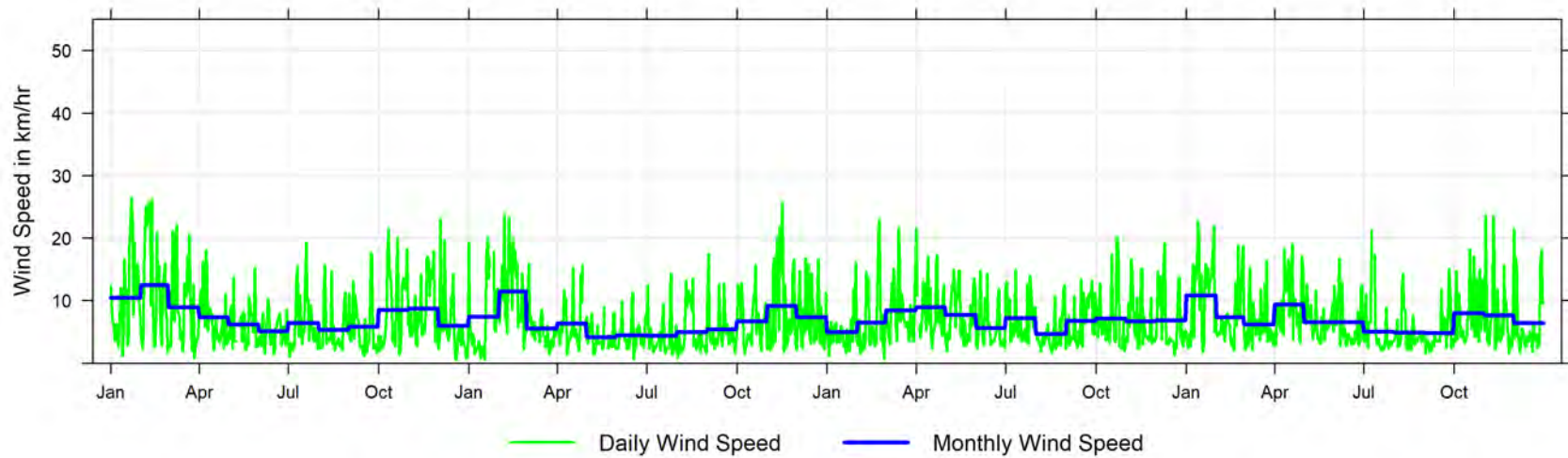
Years 2022 to 2025 Wind Speed Histogram

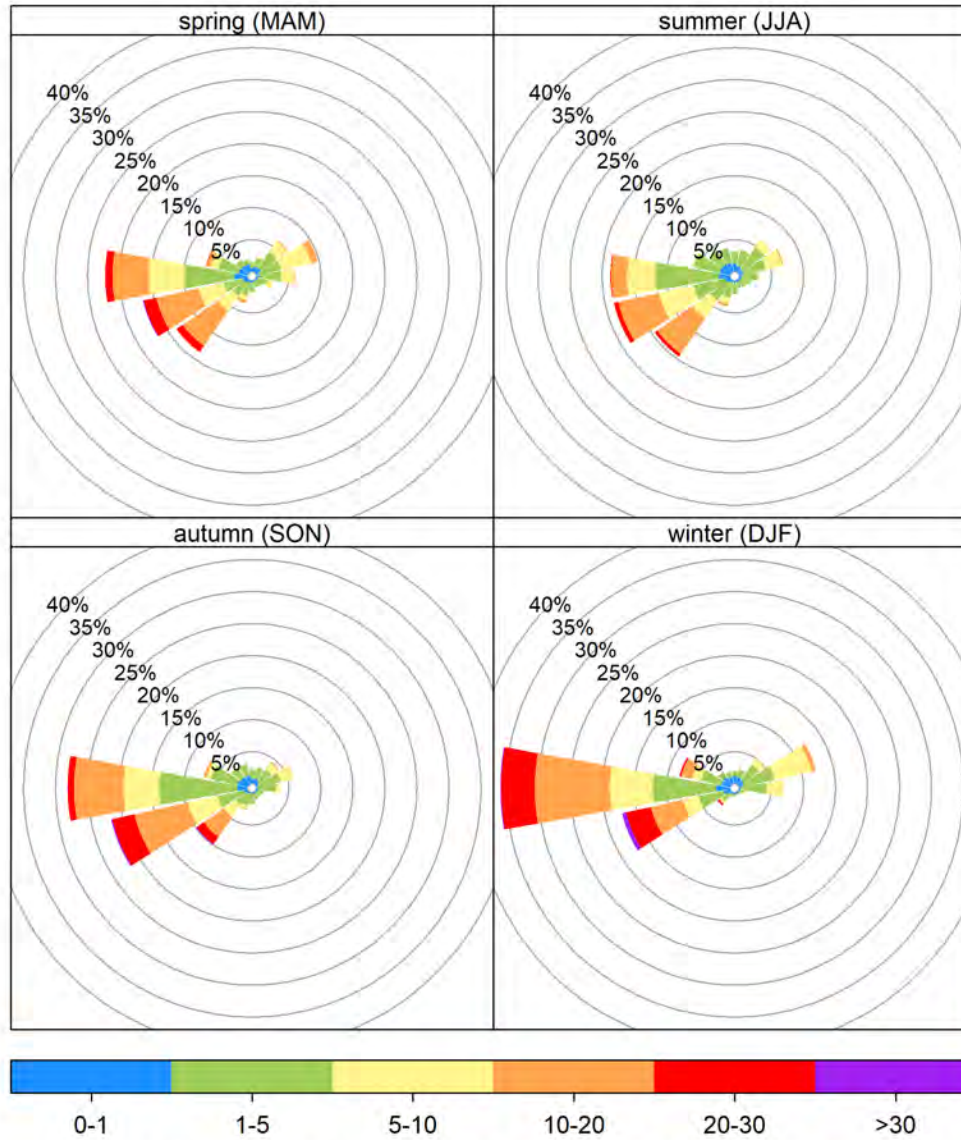


Years 2022 to 2025 Wind Direction Histogram

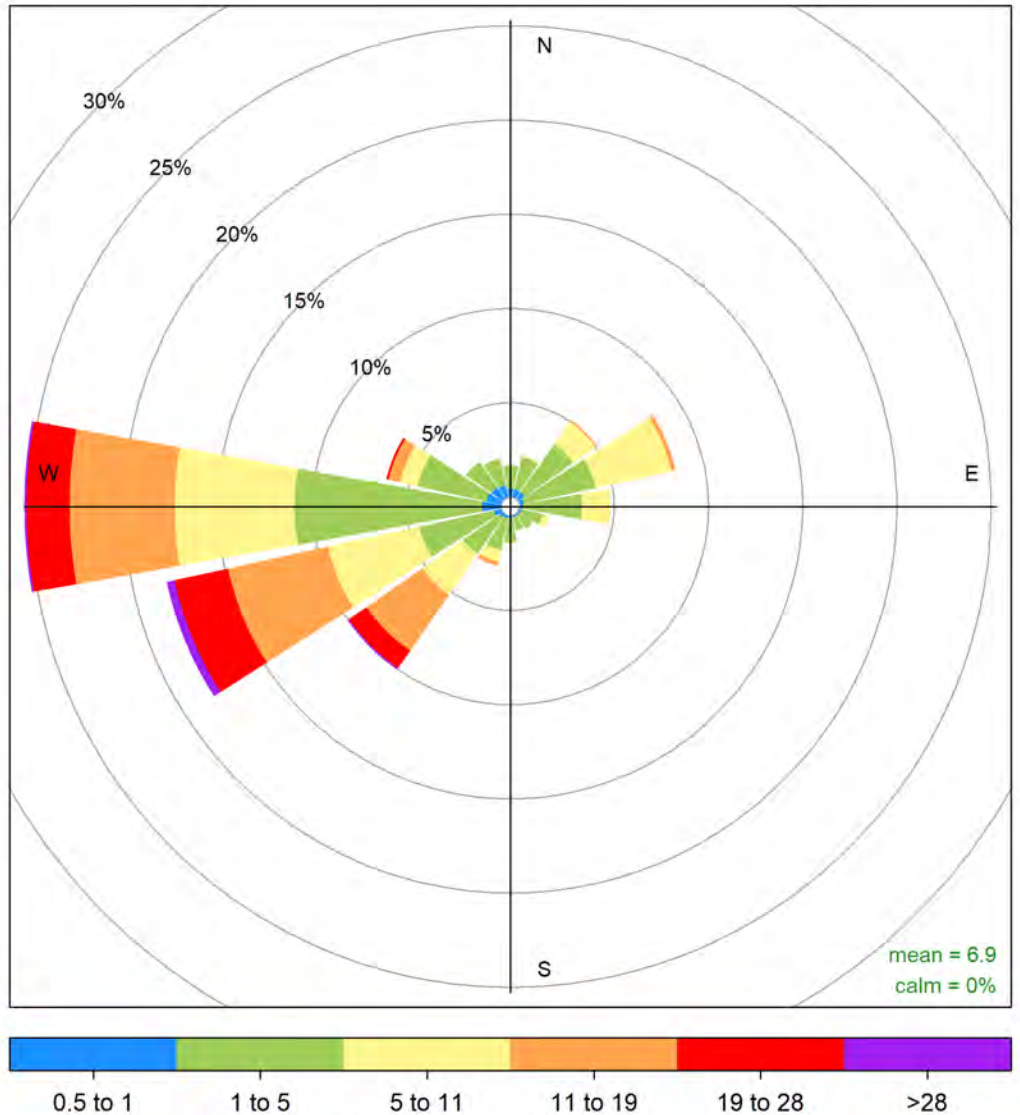


Years 2022 to 2025 Wind Speed Readings (in km/hr) at Milner





Milner 2022 to 2025 Seasonal Wind Rose, wind speed in km/hr



Milner 2022 to 2025 Wind Rose, wind speed in km/hr
Frequency of counts by wind direction (%)