

June 25, 2026

Lorna Morishita

Executive Director of Palliser Airshed Society
PO Box 23121 Medicine Hat Mall
Medicine Hat AB T1B 4C7

RE: Palliser Airshed Society (PAS) Ambient Air Monitoring Report – May 2026

Enclosed is the PAS Dashboard Report for the month of **May 2026**.

Continuous Monitoring – Crescent Heights, Brooks – Meadowplace, Hanna and Raymond Airpointer Monitoring Stations

Included in this report are: Monthly Air Monitoring Summary Table, Station Issue Summary, Station Summary Graphs and Station Wind Roses.

Continuous Monitoring Instrumentation Uptime Summary:

Due to ongoing operational issues with the NOx analyzer in the Raymond Airpointer the station was removed March 27 for delivery to the vendor for repair. Station remains offline for May. **Reference #452013.**

The PM_{2.5} analyzer at Brooks – Meadowplace returned an uptime of 50.4% in May due to pump failure on May 11. Failure was identified during the May 25 calibration visit and analyzer returned to service after repair May 26. **Reference #455100.**

AAAQO/G Exceedance Summary:

There were 6 exceedances of the 1-hour AAAQO for O₃ (76 ppb) in May.

Station Name	Date	Start Time	End Time	1-Hour O ₃ Concentration	Wind Direction	Wind Speed (km/h)	Reference Number
		(MST)	(MST)	(ppb)			
Brooks - Meadowplace	28-May-26	13:00	14:00	77	N	12.8	453923
Brooks - Meadowplace	28-May-26	14:00	15:00	78	NNE	8.4	453923
Brooks - Meadowplace	28-May-26	15:00	16:00	78	N	6.4	453923
Brooks - Meadowplace	28-May-26	16:00	17:00	79	N	5.7	453923
Brooks - Meadowplace	28-May-26	17:00	18:00	80	NNE	5.9	453923
Brooks - Meadowplace	28-May-26	18:00	19:00	78	NE	4.5	453923

If you have any questions, please contact the WSP office at 403-519-8480.

X *Patrick Andersen*

Patrick Andersen, B.Sc.
WSP AQM Data Specialist

X 

Lenin Flores
Project Manager

May 2026 Monthly Ambient Air Quality Summary

May-26				Palliser Airshed Society										Maximum Recorded Values				Operational Time (%)	Calibration Date
Pollutant (units)	Objectives			Station	Monthly Average	1-Hour Minimum	Exceedence			1-hr		24-hr / 8-hr							
	1-hr	24-hr	30-day				1-hr	24-hr	30-day	Conc	Day	Conc	Day						
SO ₂ (ppb)	172	48	8	Crescent Heights	0.0	0.0	0	0	0	0.3	May-28 09:00	0.2	May-28	99.5	May-13				
NO (ppb)					0.8	0.0				17.9	May-08 01:00	1.5	May-06	99.7	May-12				
NO ₂ (ppb)	159				3.7	0.0	0			29.6	May-08 01:00	6.2	May-07	99.7	May-12				
NO _x (ppb)					4.5	0.0				47.5	May-08 01:00	7.7	May-28	99.7	May-12				
O ₃ (ppb)	76				38.8	3.8	0			75.4	May-28 16:00	53.7	May-29	99.7	May-13				
CO (ppm)					0.1	0.1				0.3	May-02 22:00	0.2	May-28	99.6	May-12				
CO 8-Hour (ppm)	5				-	0.1	0			0.2	May-28 03:00	-	-	100.0	-				
THC (ppm)					2.2	2.0				2.8	May-08 00:00	2.3	May-02	99.2	May-12				
PM _{2.5} (µg/m ³)	80	29			4.6	0.3	0	0		13.6	May-02 23:00	8.4	May-28	99.7	May-13				
ET (°C)					15.2	-3.3				34.9	May-26 16:00	25.9	May-27	99.7	-				
RH (%)					48.6	10.7				100.0	May-14 04:00	100.0	May-31	99.7	-				
GSR (W/m ²)					264.2	0.0				1003.1	May-18 13:00	355.4	May-25	99.7	-				
WSPD (km/h)					3.2	0.0				33.4	May-13 22:00	19.2	May-14	99.7	12/05/26				
WDIR					WNW									99.7					

Pollutant (units)	Analyzer			Notes
SO ₂	Make	Model		Logger offline for 1 hour for updates May 20 and 21.
	TEI	43i-TLE		Manual span check May 12.
NO/NO ₂ /NO _x	TEI	42i		
O ₃	TECO	49i		
CO	TEI	48i-TLE		Manual span check May 13.
THC	TECO	51C-LT		Analyzer verification May 13.
PM _{2.5}	API	T640		
ET/RH	RMYoung	41382VC		
GSR	Pyranometer	PY45774		
WS/WD	RMYoung	5305		

May-26				Palliser Airshed Society				Maximum Recorded Values							
Pollutant (units)		Objectives		Station	Monthly Average	1-Hour Minimum	Exceedence		1-hr		24-hr / 8-hr		Operational Time (%)	Calibration Date	
		1-hr	24-hr				30-day	1-hr	24-hr	30-day	Conc	Day			Conc
NO (ppb)					0.3	0.0				10.0	May-23 06:00	1.1	May-12	99.7	May-25
NO ₂ (ppb)		159			3.4	0.3	0			29.8	May-29 00:00	10.2	May-28	99.7	May-25
NO _x (ppb)					3.6	0.2				30.1	May-29 00:00	10.6	May-28	99.7	May-25
O ₃ (ppb)		76		Brooks Meadowplace	38.8	1.4	6			80.3	May-28 18:00	54.1	May-29	99.7	May-25
PM _{2.5} (ug/m ³)		80	29		-	1.5	0	0		25.8	May-08 07:00	13.0	May-28	50.4	May-26
ET (°C)					14.0	-5.1				32.4	May-26 17:00	23.7	May-29	99.7	-
RH (%)					54.6	14.8				100.0	May-18 04:00	96.2	May-31	99.7	-
WSPD (km/h)					4.2	0.0				43.7	May-14 10:00	31.1	May-31	99.7	19/08/25
WDIR					NW									99.7	

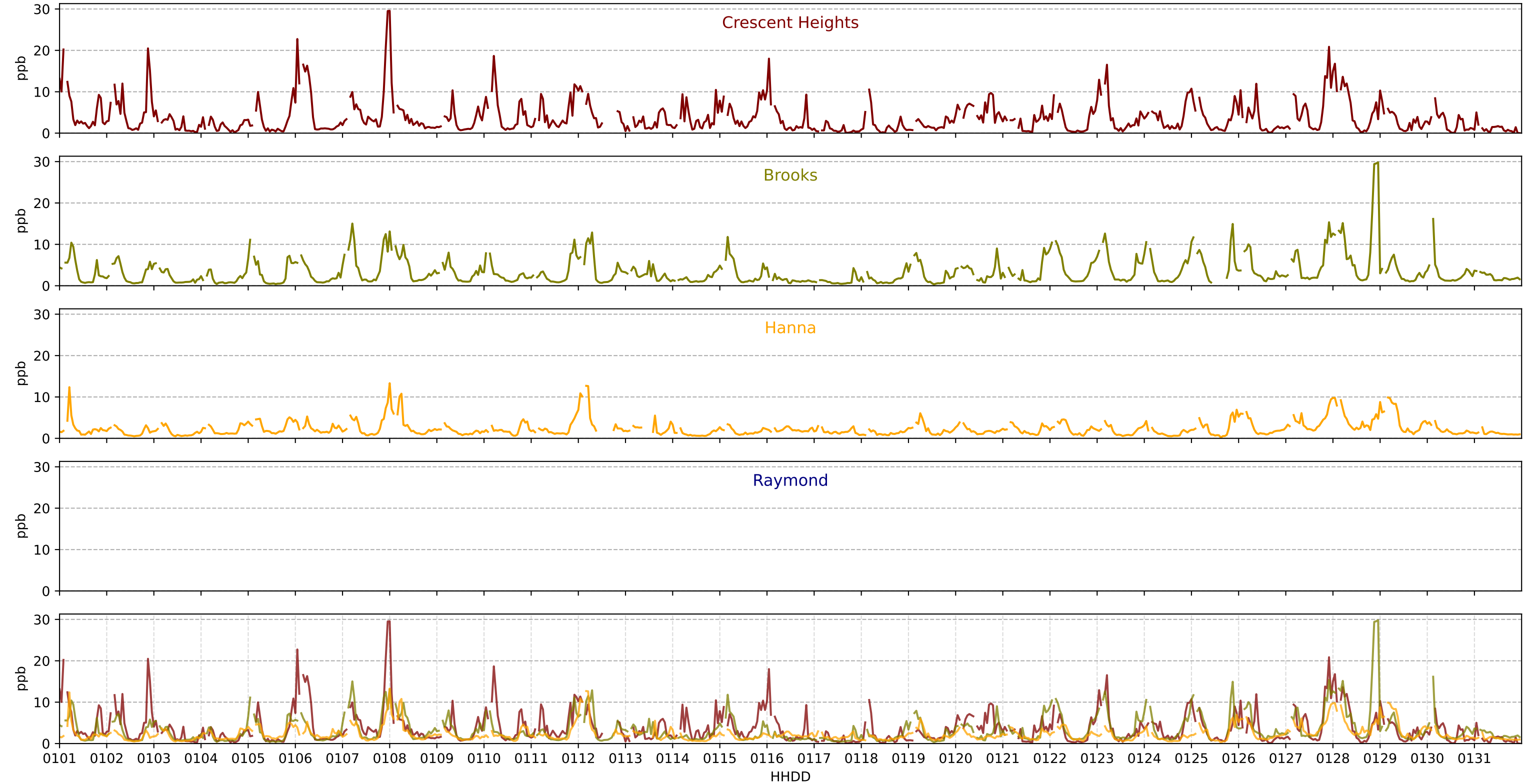
Pollutant (units)	Analyzer			Notes
NO/NO ₂ /NO _x	Make	Model		Logger offline for 1 hour for updates May 20 and 21.
	TEI	42iQ		
O ₃	TEI	49iQ		
PM _{2.5}	API	T640		Analyzer pump failure was identified during May 25 calibration visit. Pump rebuild kit acquired from AEPA and analyzer returned to service May 26. Data was invalidated back to flow rate failure point on May 11.
ET/RH	CS	HC2-S3		
WS/WD	RMYoung	5305		

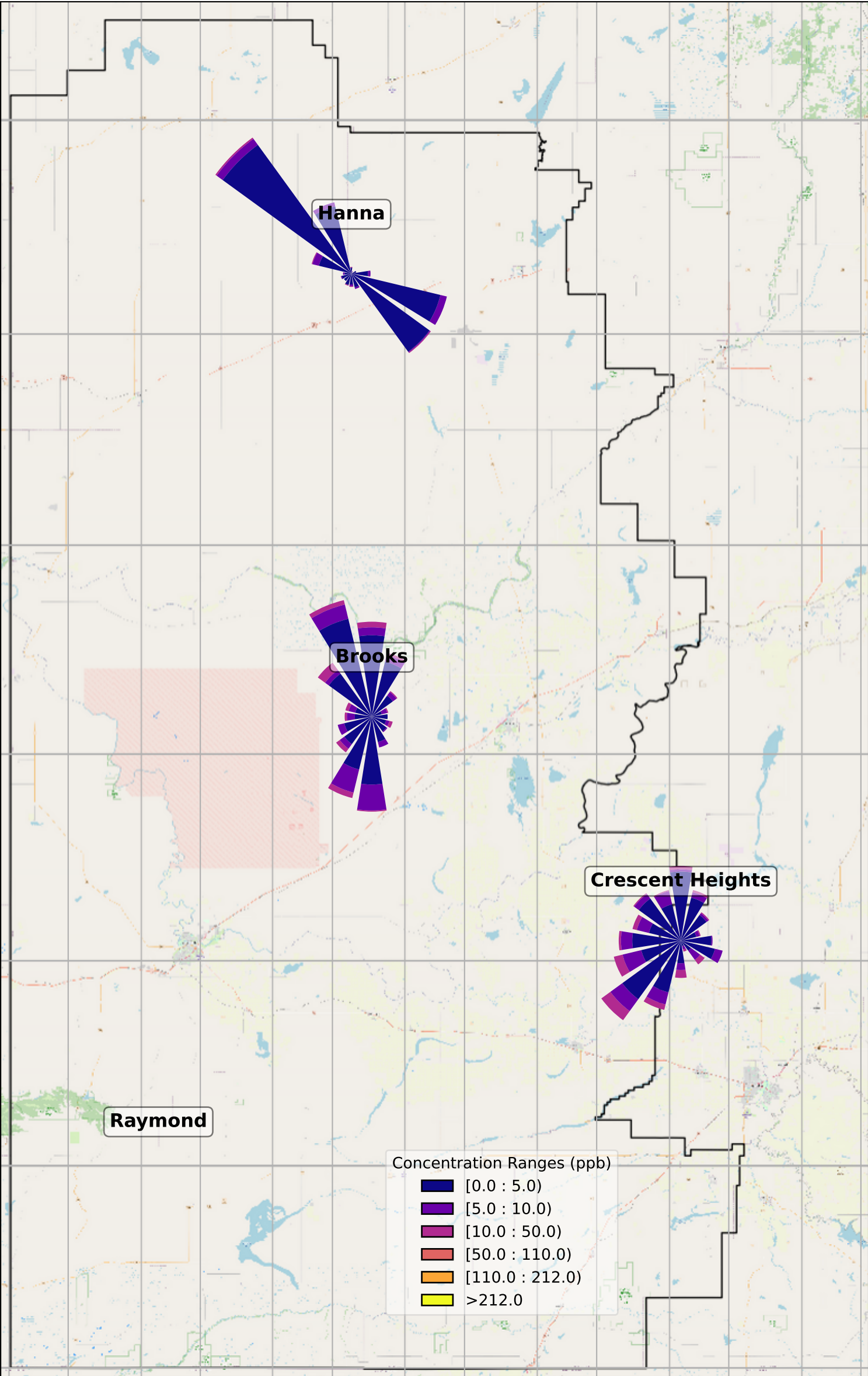
May-26				Palliser Airshed Society				Maximum Recorded Values							
Pollutant (units)		Objectives		Station	Monthly Average	1-Hour Minimum	Exceedence		1-hr		24-hr / 8-hr		Operational Time (%)	Calibration Date	
		1-hr	24-hr				30-day	1-hr	24-hr	30-day	Conc	Day			Conc
NO (ppb)					0.7	0.0				6.6	May-12 05:00	1.5	May-16	99.3	May-12
NO ₂ (ppb)		159			2.4	0.2	0			13.3	May-08 01:00	4.7	May-28	99.3	May-12
NO _x (ppb)					3.0	0.6				19.3	May-12 05:00	5.4	May-28	99.3	May-12
O ₃ (ppb)		76			37.7	9.2	0			72.1	May-28 17:00	51.1	May-28	99.1	May-13
PM _{2.5} (µg/m³)		80	29		4.6	0.3	0	0		34.9	May-08 01:00	13.6	May-28	100.0	May-13
ET (°C)					13.4	-2.7				32.7	May-26 17:00	23.8	May-29	100.0	-
RH (%)					50.5	13.8				94.0	May-31 09:00	88.1	May-31	100.0	-
WSPD (km/h)					0.7	0.0				16.9	May-14 11:00	11.2	May-14	100.0	26/09/25
WDIR					NW									100.0	

Pollutant (units)	Analyzer			Notes
	Make		Model	
NO/NO ₂ /NO _x	Airpointer API		200e	Analyzer offline during May 13 O ₃ calibration.
O ₃	Airpointer API		400e	Analyzer offline during May 12 NO _x calibration.
PM _{2.5}	Sharp		5030	
ET/RH	CS		HC2-S3	
WS/WD	RMYoung		5305	

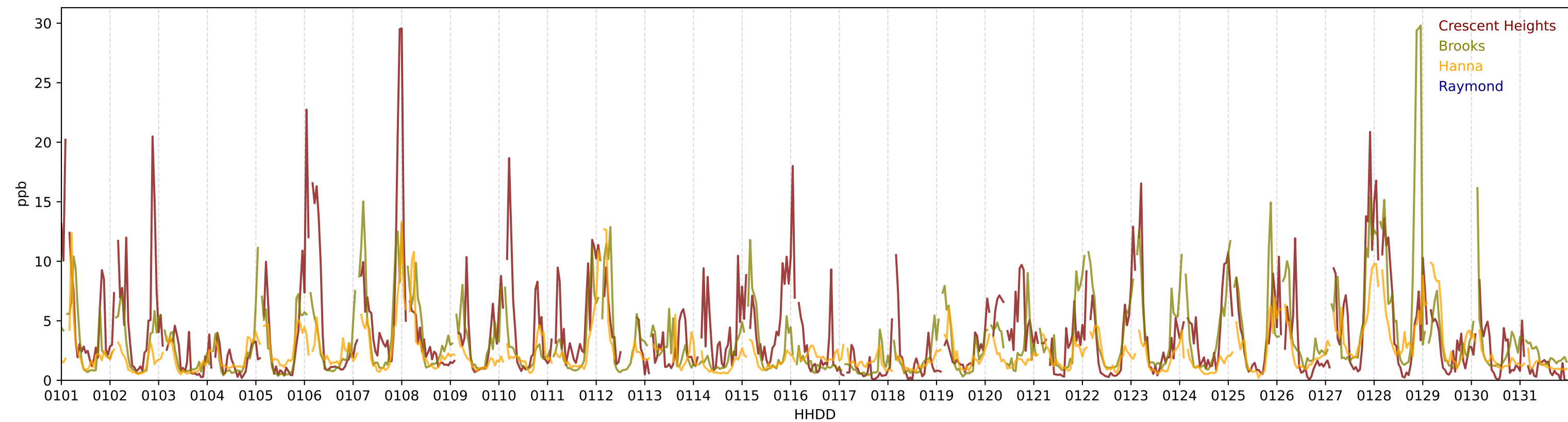
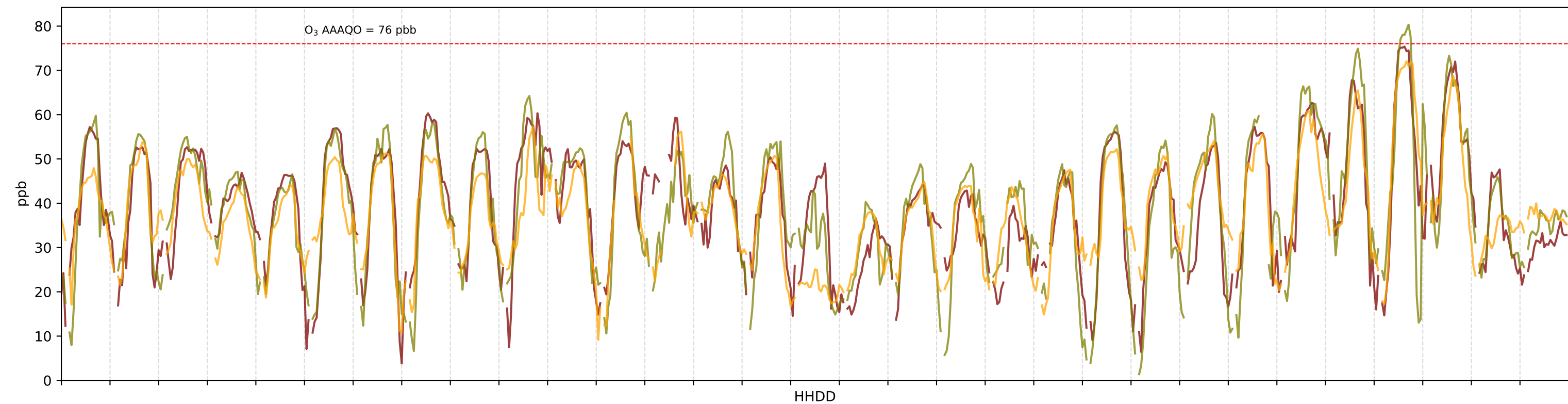
May 2026 NO₂

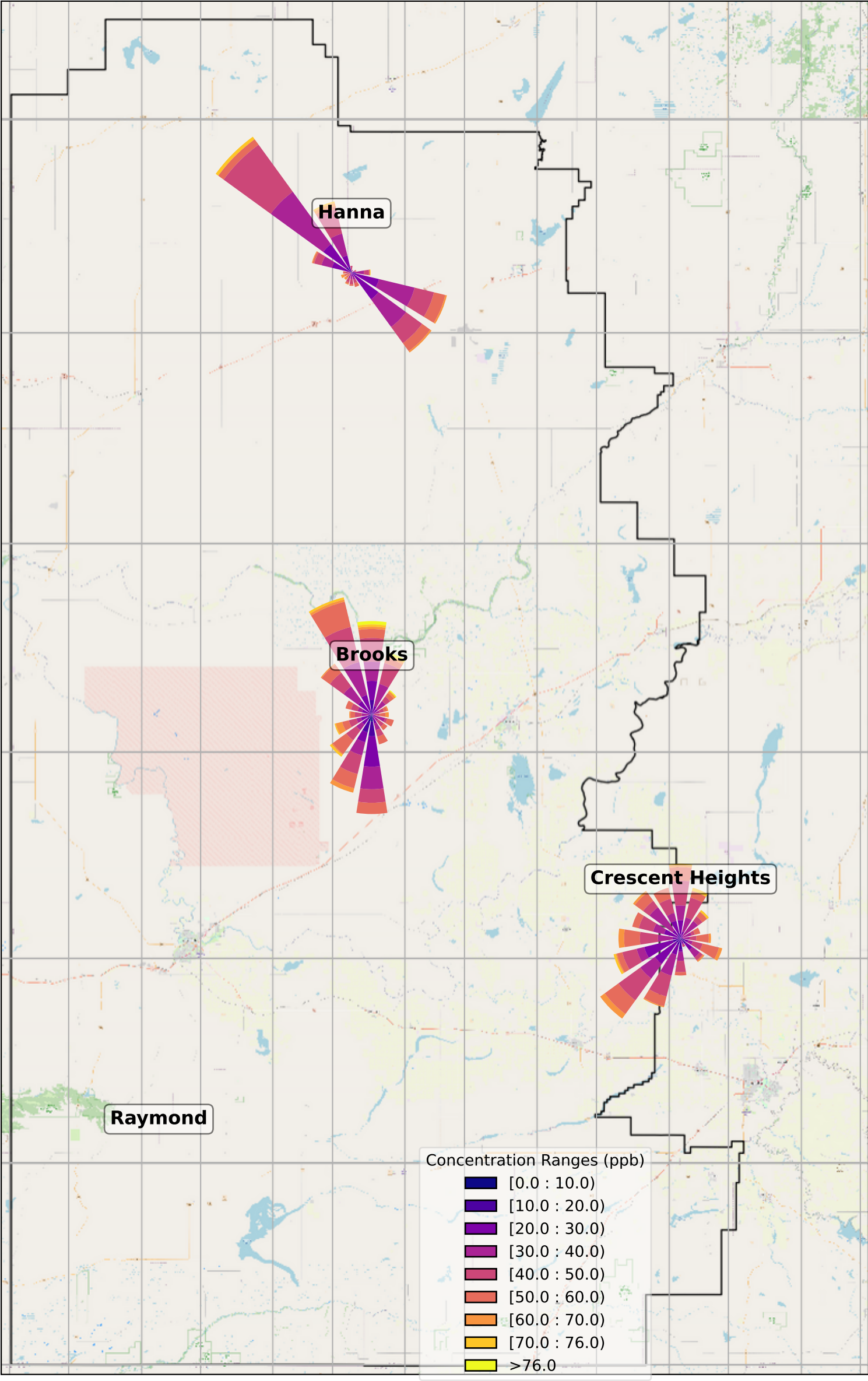
NO₂ AAAQO = 172 ppb





May 2026 O₃ vs NO₂

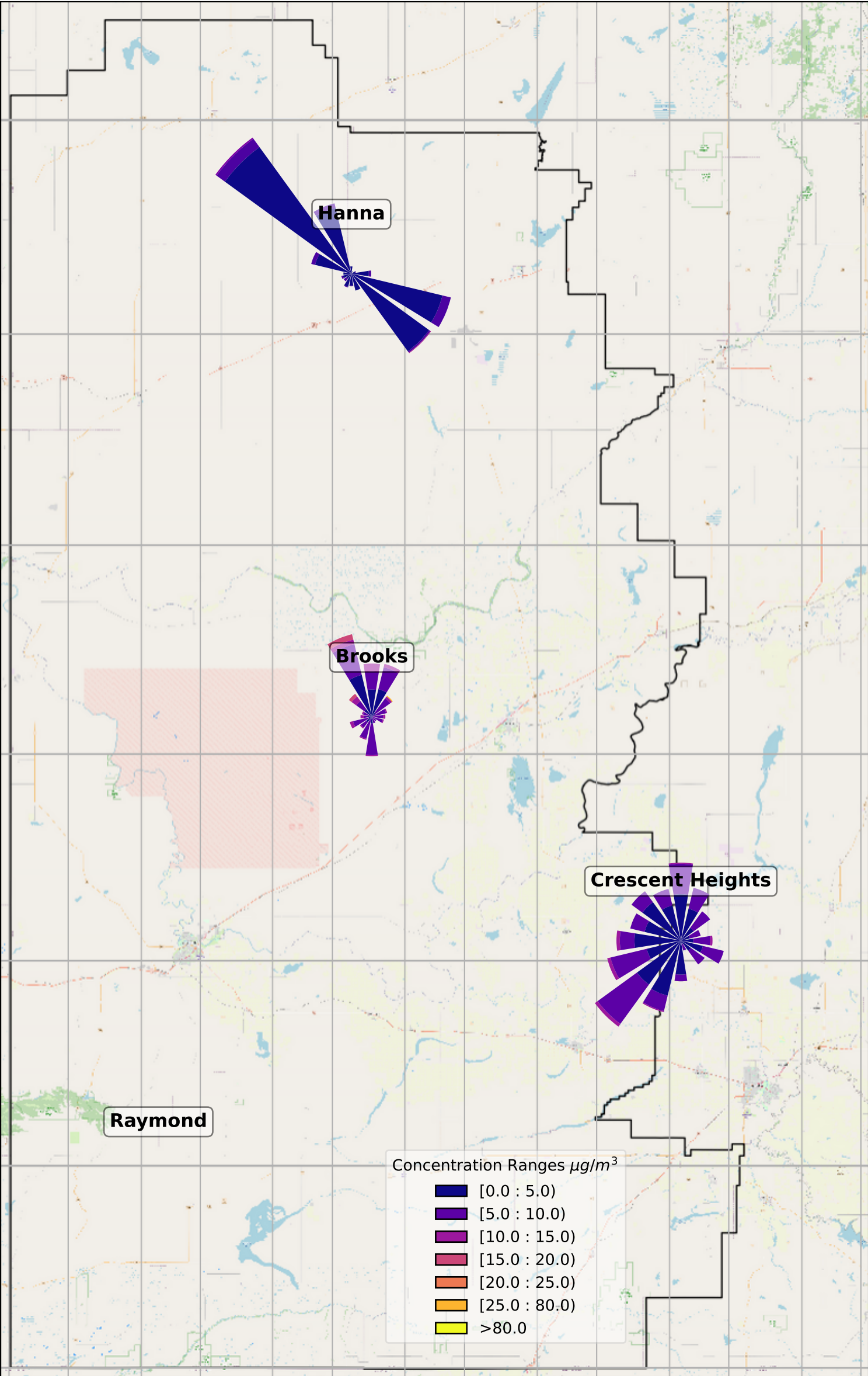




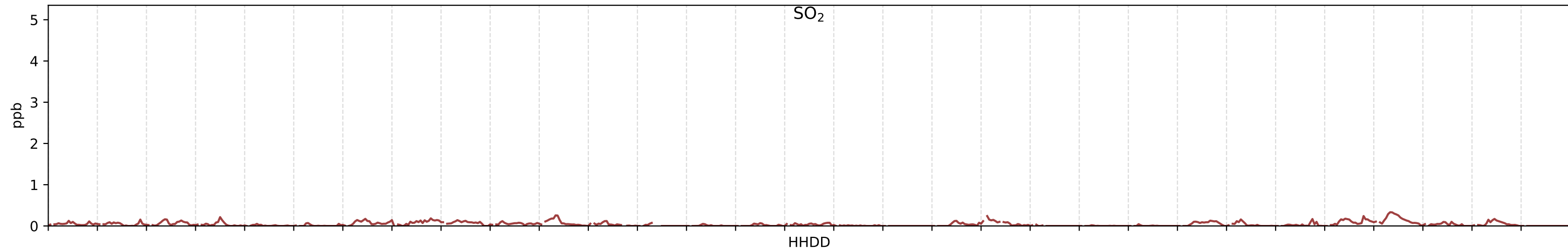
May 2026 PM_{2.5}

PM_{2.5} AAAQG = 80 $\mu\text{g}/\text{m}^3$

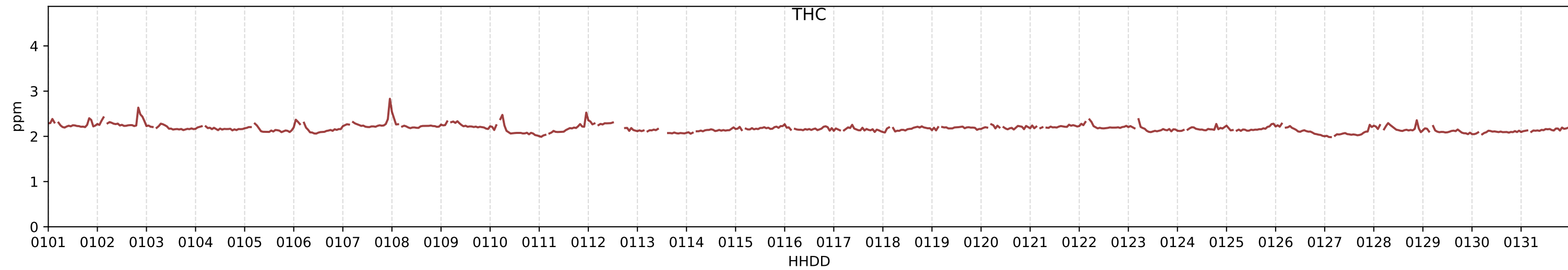
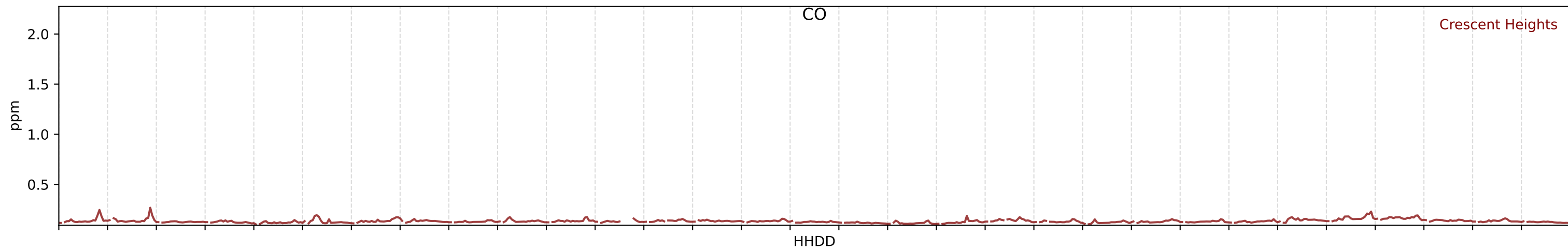




SO₂ AAAQO = 172 ppb



CO AAAQO = 13 ppm



May 2026

