

December 10, 2025

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 – November 2025

Enclosed is the PAS Dashboard Report for the month of **November 2025**.

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:

The sample pump at Hanna failed November 13 and was replaced November 17, affecting the NO_x and O₃ analyzers. The NO_x analyzer returned to service November 17 with an uptime of 85.0% and the O₃ analyzer returned to service November 18 with an uptime of 83.1%. **Reference #448426**

AAAQO/G Exceedance Summary:

There was 1 exceedance of the 1-hour AAAQG for PM_{2.5} (80µg/m³) in November. No attribution for this exceedance is known at this time.

Station Name	Date	Start Time	End Time	1-Hour PM _{2.5} Concentration	Wind Direction	Wind Speed	Reference Number
		(MST)	(MST)	(µg/m ³)		(km/h)	
Hanna (Airpointer)	04-Nov-25	22:00	23:00	118	SE	0.1	448427

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

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Patrick Andersen

Patrick Andersen, B.Sc.
WSP AQM Data Specialist

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Lenin Flores
Project Manager

November 2025 Monthly Ambient Air Quality Summary

Nov-25				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	Day		
SO ₂ (ppb)	172	48	8	Crescent Heights	0.0	0.0	0	0	0	0.5	Nov-17 10:00	0.1	Nov-26	99.6	Nov-25
NO (ppb)					3.5	0.0				64.8	Nov-17 10:00	11.1	Nov-26	99.6	Nov-25
NO ₂ (ppb)	159				7.5	0.0	0			34.2	Nov-29 19:00	19.6	Nov-26	99.6	Nov-25
NO _x (ppb)					11.0	0.1				81.6	Nov-17 10:00	30.7	Nov-26	99.6	Nov-25
O ₃ (ppb)	76				18.6	0.2	0			39.8	Nov-07 12:00	31.8	Nov-02	99.6	Nov-26
CO (ppm)					0.1	0.1				0.5	Nov-17 09:00	0.2	Nov-26	99.6	Nov-25
CO 8-Hour (ppm)	5				-	0.1	0			0.3	Nov-17 13:00	-	-	99.2	-
THC (ppm)					2.1	1.6				2.6	Nov-17 10:00	2.3	Nov-04	99.6	Nov-26
PM _{2.5} (µg/m³)	80	29			5.7	0.8	0	0		20.8	Nov-27 08:00	13.8	Nov-27	99.6	Nov-26
ET (°C)					1.3	-27.2				21.1	Nov-13 15:00	14.6	Nov-01	99.6	-
RH (%)					73.5	13.0				100.0	Nov-07 06:00	99.9	Nov-18	99.6	-
GSR (W/m²)					56.6	0.0				432.2	Nov-06 13:00	101.0	Nov-02	99.6	-
WSPD (km/h)					4.6	0.1				39.9	Nov-14 00:00	25.4	Nov-01	99.6	25/09/25
WDIR					WSW									99.6	

Pollutant (units)	Analyzer			Notes
	Make		Model	
SO ₂	TEI		43i-TLE	Data logger offline for update November 5.
NO/NO ₂ /NO _x	TEI		42i	
O ₃	TECO		49i	
CO	TEI		48i-TLE	
THC	TECO		51C-LT	Loaner THC removed from service on November 25, PAS-owned THC installed and calibrated November 26.
PM _{2.5}	API		T640	
ET/RH	RMYoung		41382VC	
GSR	Pyranometer		PY45774	
WS/WD	RMYoung		5305	

Nov-25 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)				Brooks Meadowplace	1.4	0.0				27.4	Nov-29 22:00	5.3	Nov-26	99.2	Nov-28
NO ₂ (ppb)	159				5.6	0.2	0			30.2	Nov-30 02:00	12.7	Nov-26	99.2	Nov-28
NO _x (ppb)					7.0	0.1				49.0	Nov-29 22:00	18.0	Nov-26	99.2	Nov-28
O ₃ (ppb)	76				16.2	0.0	0			40.8	Nov-02 15:00	31.6	Nov-02	99.2	Nov-28
PM _{2.5} (µg/m ³)	80	29			7.2	0.7	0	0		33.6	Nov-28 05:00	16.8	Nov-30	92.6	Nov-28
ET (°C)					-0.8	-28.5				18.6	Nov-13 15:00	13.1	Nov-01	99.2	-
RH (%)					80.1	14.9				100.0	Nov-08 05:00	99.6	Nov-18	99.2	-
WSPD (km/h)					3.0	0.1				30.9	Nov-13 19:00	18.3	Nov-01	99.2	19/08/25
WDIR					WSW									99.2	

Pollutant (units)	Analyzer			Notes
	Make		Model	
NO/NO ₂ /NO _x	TEI		42iQ	Data logger offline for update November 5. Station power outages November 25 and 27 invalidated 3 hours of data.
O ₃	TEI		49iQ	
PM _{2.5}	API		T640	Analyzer did not return to service after November 25 power outage, automatically restarted at end of November 27 power outage.
ET/RH	CS		HC2-S3	
WS/WD	RMYoung		5305	

Nov-25 Palliser Airshed Society										Maximum Recorded Values					
Pollutant (units)		Objectives		Station	Monthly Average	1-Hour Minimum	Exceedence		1-hr		24-hr / 8-hr				
									Conc	Day	Conc	Day			
NO (ppb)					3.2	0.0				22.9	Nov-12 08:00	6.6	Nov-12	85.0	Nov-17
NO ₂ (ppb)		159			6.5	0.4	0			27.2	Nov-04 18:00	10.9	Nov-25	85.0	Nov-17
NO _x (ppb)					9.6	1.1				43.6	Nov-19 18:00	16.1	Nov-26	85.0	Nov-17
O ₃ (ppb)		76			12.9	0.0	0			31.3	Nov-24 15:00	20.4	Nov-02	83.1	Nov-18
PM _{2.5} (µg/m³)		80	29		5.2	0.0	1	0		117.6	Nov-04 23:00	12.8	Nov-26	99.7	Nov-18
ET (°C)					-2.4	-23.6				16.6	Nov-13 15:00	10.9	Nov-01	99.7	-
RH (%)					78.7	20.8				97.6	Nov-09 08:00	94.0	Nov-18	99.7	-
WSPD (km/h)					0.8	0.0				17.7	Nov-02 16:00	11.1	Nov-09	97.2	26/09/25
WDIR					ESE									97.2	

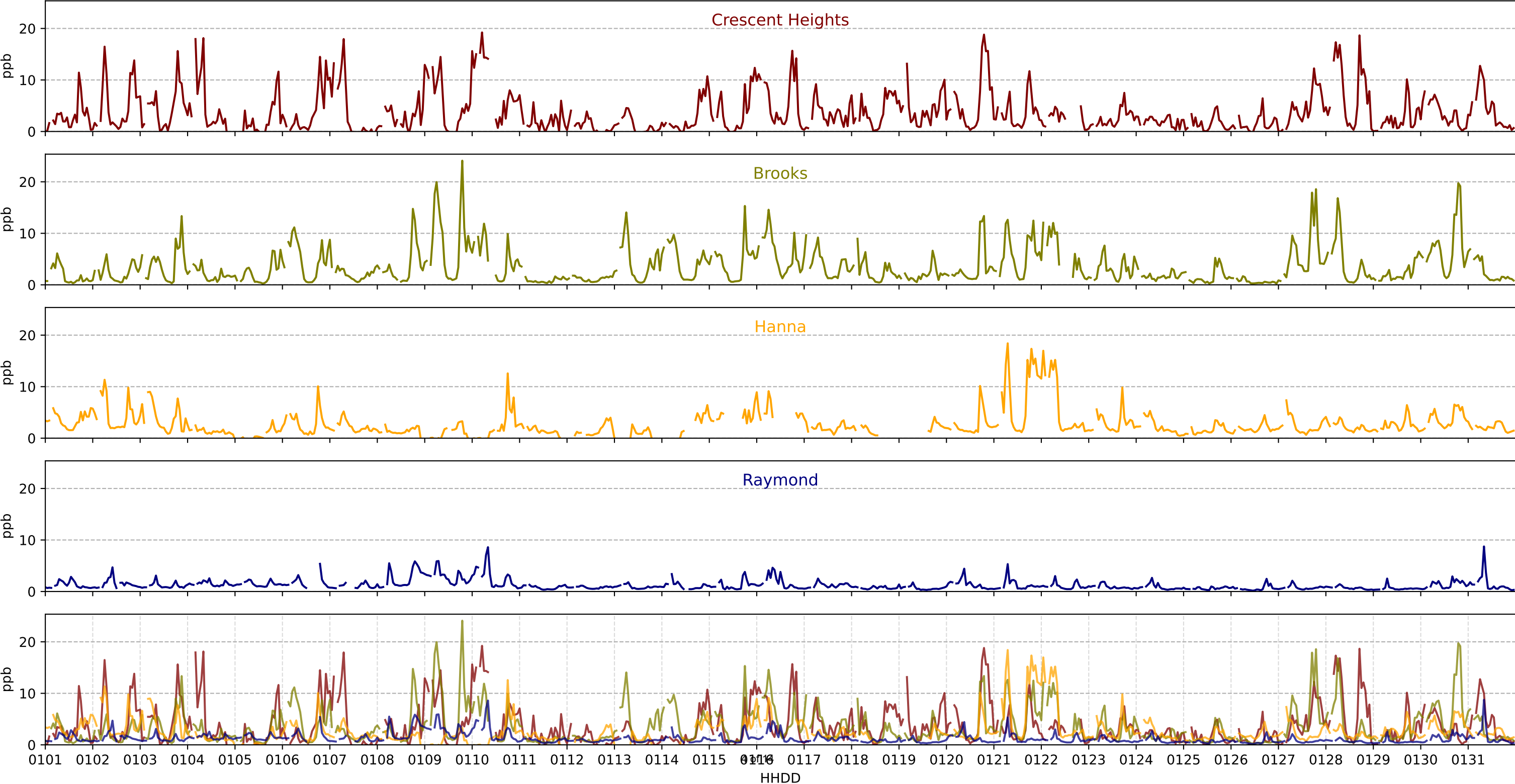
Pollutant (units)	Analyzer			Notes
	Make		Model	
NO/NO ₂ /NO _x	Airpointer API		200e	Data logger offline for update November 12. Sample pump failed November 13, replaced November 17 and analyzer recalibrated. Analyzer offline during November 18 O3 calibration.
O ₃	Airpointer API		400e	Sample pump failed November 13, replaced November 17 and analyzer recalibrated November 18.
PM _{2.5}	Sharp		5030	
ET/RH	CS		HC2-S3	
WS/WD	RMYoung		5305	Wind system failed to return valid readings November 18-19.

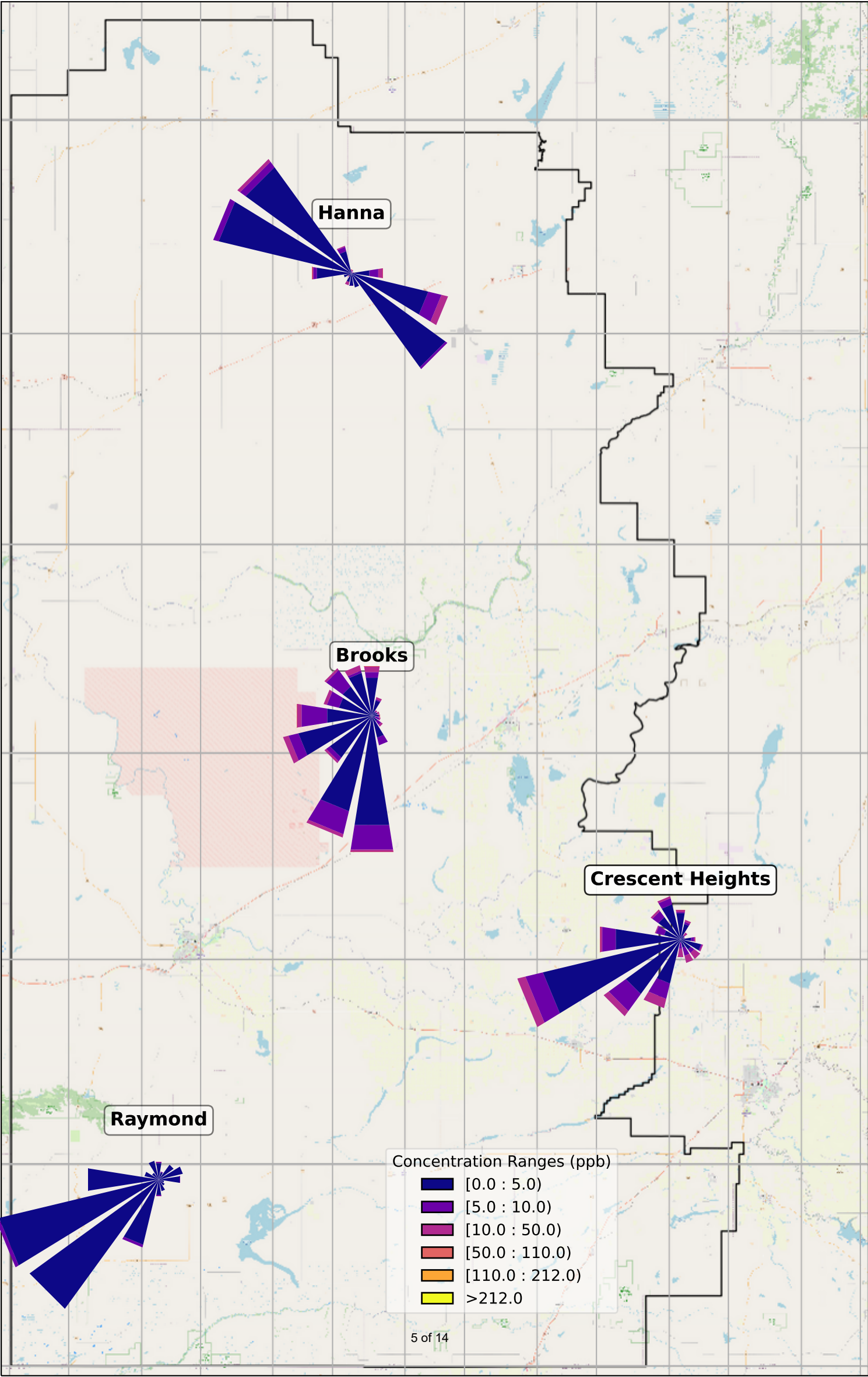
Nov-25 Palliser Airshed Society										Maximum Recorded Values				Operational Time (%)	Calibration Date
Pollutant (units)	Objectives			Station	Monthly Average	1-Hour Minimum	Exceedence			1-hr		24-hr / 8-hr			
	1-hr	24-hr	30-day				1-hr	24-hr	30-day	Conc	Day	Conc	Day		
NO (ppb)				Raymond Airpointer	0.3	0.0				8.4	Nov-27 11:00	1.0	Nov-18	94.9	Nov-27
NO ₂ (ppb)	159				2.0	0.2	0			15.0	Nov-28 07:00	6.9	Nov-28	94.9	Nov-27
NO _x (ppb)					2.3	0.2				20.3	Nov-12 12:00	7.6	Nov-28	94.9	Nov-27
O ₃ (ppb)	76				26.0	1.4	0			43.5	Nov-10 15:00	35.9	Nov-11	94.6	Nov-28
PM _{2.5} (µg/m³)	80	29			5.1	0.0	0	0		63.9	Nov-12 18:00	19.3	Nov-28	100.0	Nov-27
ET (°C)					2.0	-26.2				20.1	Nov-13 14:00	13.9	Nov-13	100.0	-
RH (%)					66.9	21.3				100.0	Nov-14 19:00	98.1	Nov-24	100.0	-
WSPD (km/h)					7.0	0.2				38.2	Nov-14 01:00	20.3	Nov-10	100.0	-
WDIR					WSW									100.0	-

Pollutant (units)	Analyzer			Notes
	Make		Model	
NO/NO ₂ /NO _x	Airpointer API		200e	Sample pump failed November 29. Analyzer offline during November 28 O3 calibration.
O ₃	Airpointer API		400e	Sample pump failed November 29. Analyzer offline during November 27 NOx calibration.
PM _{2.5}	Sharp		5030	
ET/RH	Vaisala		WXT520	
WS/WD	Vaisala		WXT520	

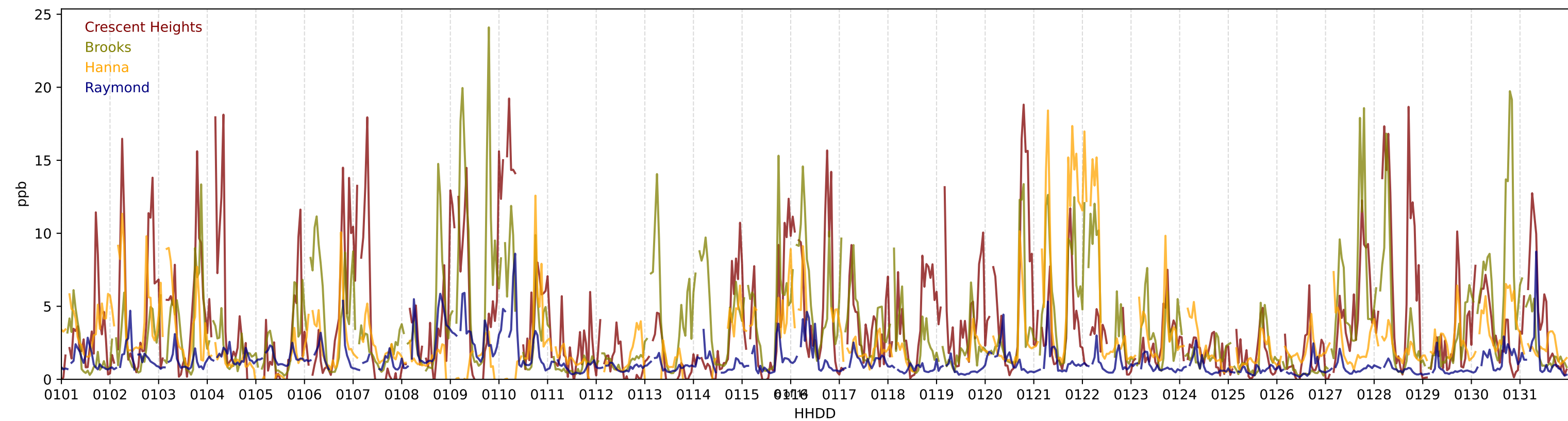
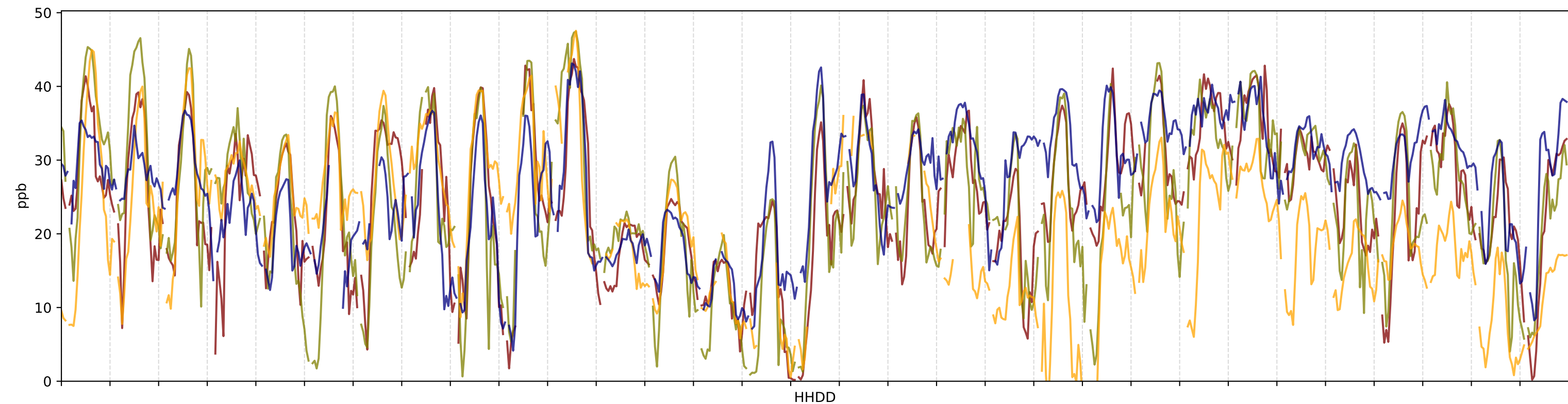
October 2025 NO₂

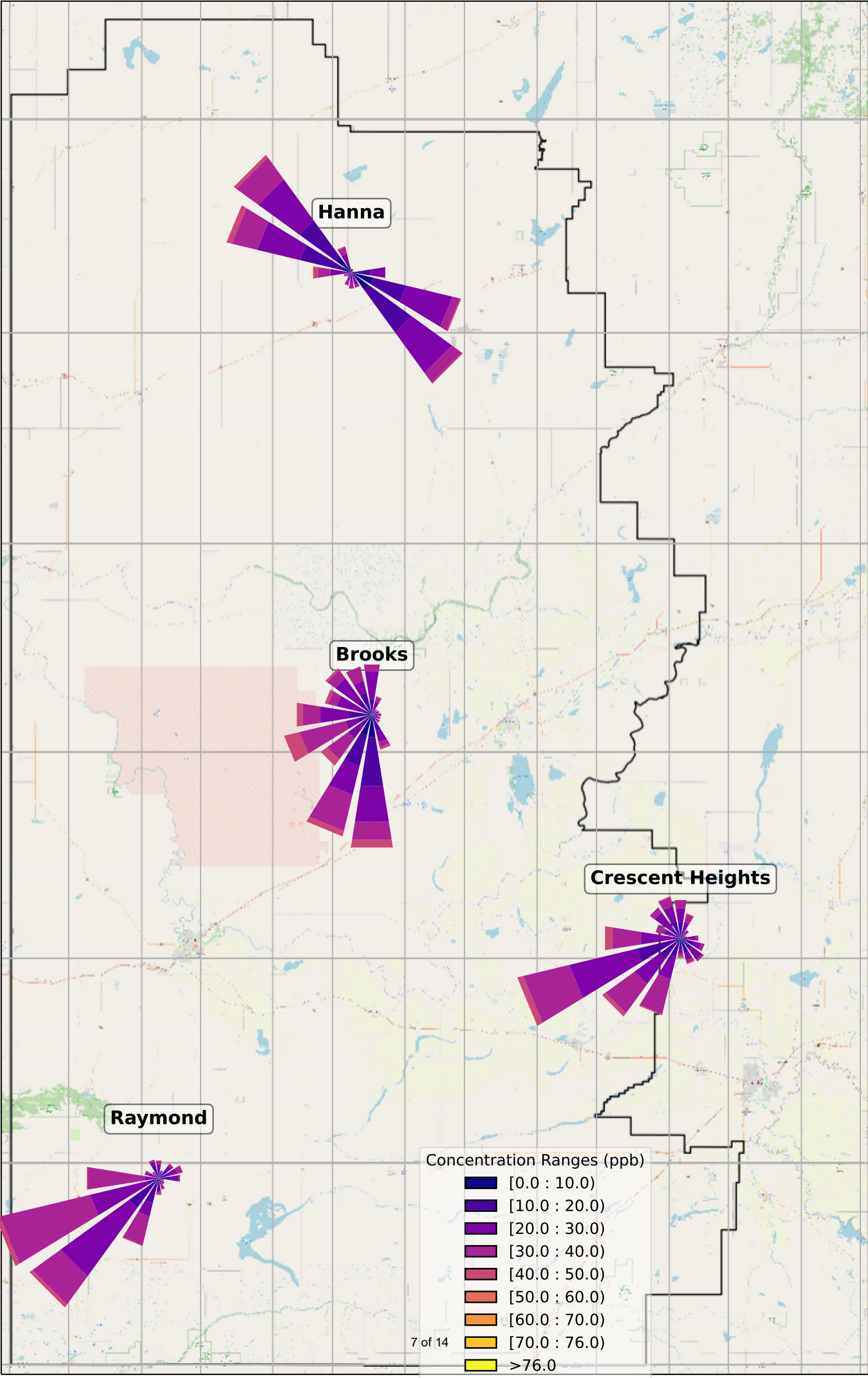
NO₂ AAAQO = 172 ppb





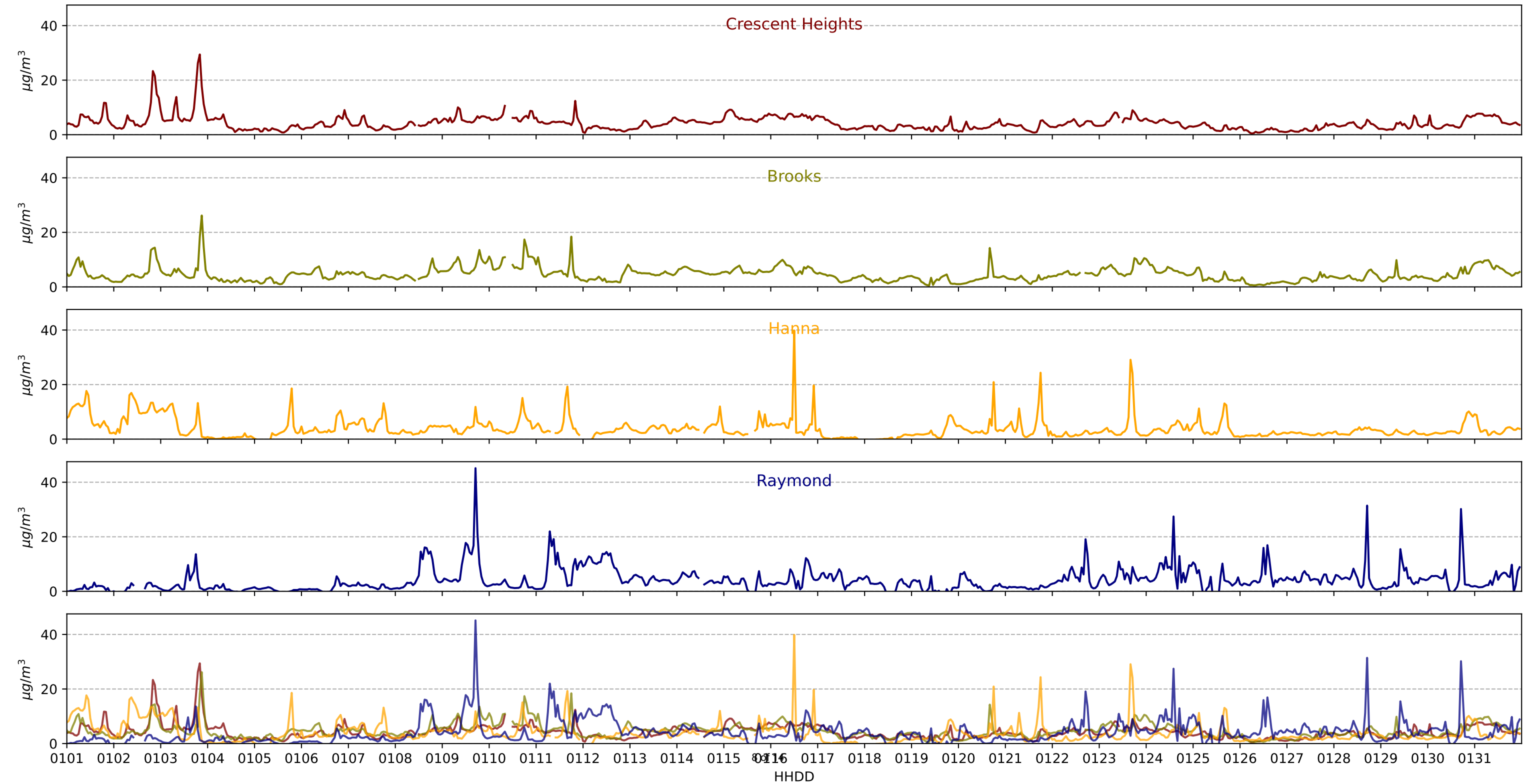
October 2025 O₃ vs NO₂

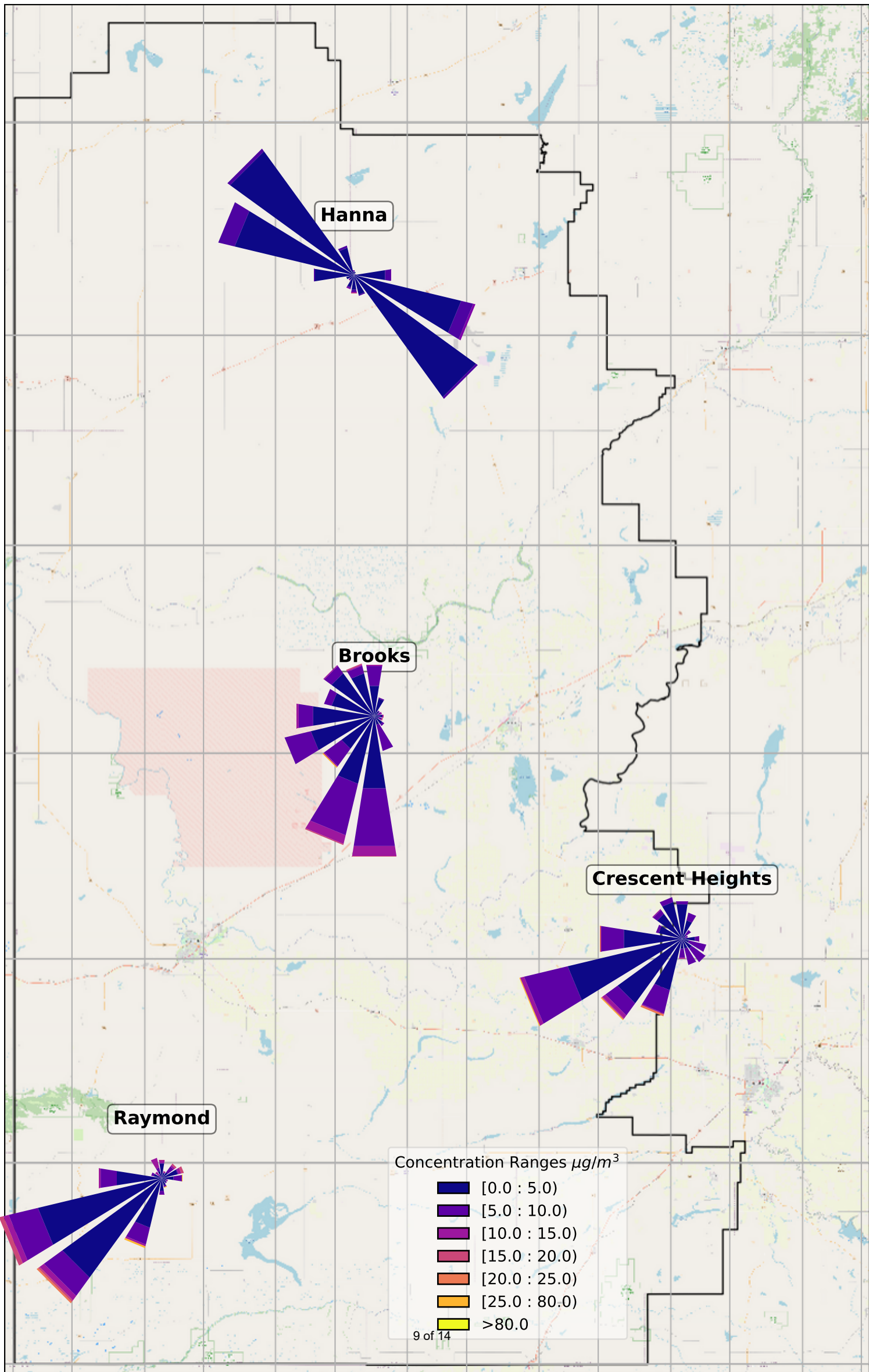




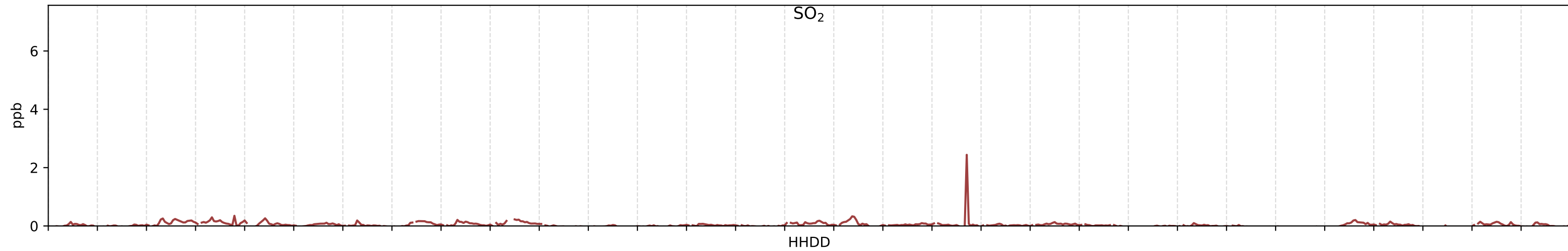
October 2025 PM_{2.5}

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





SO₂ AAAQO = 172 ppb



CO AAAQO = 13 ppm

