

September 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 – August 2026

Enclosed is the PAS Dashboard Report for the month of **August 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:

None to report for August.

AAAQO/G Exceedance Summary:

There were 13 1-hour and 8 24-hour exceedances of the AAAQO/G for PM_{2.5} (80/29 µg/m³) in August. These exceedances are attributed to wildfire smoke.

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)	
Raymond (Airpointer)	02-Aug-26	07:00	08:00	108	SW	11.3	*
Raymond (Airpointer)	02-Aug-26	08:00	09:00	114	SW	4.7	*
Raymond (Airpointer)	02-Aug-26	09:00	10:00	152	SSW	7.6	*
Raymond (Airpointer)	02-Aug-26	10:00	11:00	258	SW	9.2	*
Raymond (Airpointer)	02-Aug-26	11:00	12:00	204	SW	15.2	*
Raymond (Airpointer)	02-Aug-26	12:00	13:00	141	SW	16.0	*
Raymond (Airpointer)	02-Aug-26	13:00	14:00	112	SW	19.7	*
Crescent Heights	02-Aug-26	14:00	15:00	86	W	5.6	*
Raymond (Airpointer)	02-Aug-26	14:00	15:00	82	SW	17.5	*
Crescent Heights	02-Aug-26	15:00	16:00	102	W	8.0	*
Crescent Heights	02-Aug-26	16:00	17:00	117	WNW	5.7	*
Crescent Heights	02-Aug-26	17:00	18:00	108	W	3.8	*
Raymond (Airpointer)	07-Aug-26	15:00	16:00	88	NE	3.0	*

Station Name	Date	24-Hour PM _{2.5} Concentration	Wind Direction	Wind Speed	Reference Number
		(µg/m ³)		(km/h)	
Brooks - Meadowplace	01-Aug-26	44	SW	14.3	457063
Crescent Heights	01-Aug-26	32	SSW	6.7	457062
Raymond (Airpointer)	01-Aug-26	41	SW	5.5	457058

Station Name	Date	24-Hour PM _{2.5} Concentration	Wind Direction	Wind Speed	Reference Number
Brooks - Meadowplace	02-Aug-26	32	NNW	10.4	457063
Crescent Heights	02-Aug-26	49	WNW	8.4	457062
Raymond (Airpointer)	02-Aug-26	65	WSW	9.6	457058
Raymond (Airpointer)	07-Aug-26	35	NE	1.0	457058
Raymond (Airpointer)	18-Aug-26	30	SW	6.3	457058

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

August 2026 Monthly Ambient Air Quality Summary

Aug-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	Day		
SO ₂ (ppb)	172	48	8	Crescent Heights	0.0	0.0	0	0	0	1.5	Aug-02 04:00	0.2	Aug-02	100.0	Aug-18
NO (ppb)					0.7	0.0				14.3	Aug-29 07:00	1.8	Aug-29	100.0	Aug-18
NO ₂ (ppb)	159				2.1	0.0	0			23.3	Aug-29 01:00	4.1	Aug-19	100.0	Aug-18
NO _x (ppb)					2.8	0.0				30.9	Aug-29 01:00	5.7	Aug-19	100.0	Aug-18
O ₃ (ppb)	76				29.8	2.4	0			59.4	Aug-01 12:00	41.3	Aug-02	100.0	Aug-18
CO (ppm)					0.2	0.1				0.6	Aug-02 17:00	0.3	Aug-02	100.0	Aug-18
CO 8-Hour (ppm)	5				-	0.1	0			0.4	Aug-02 20:00	-	-	100.0	-
THC (ppm)					2.3	2.0				2.8	Aug-16 22:00	2.4	Aug-15	100.0	Aug-18
PM _{2.5} (µg/m ³)	80	29			13.2	1.6	4	2		117.3	Aug-02 17:00	48.9	Aug-02	100.0	Aug-18
ET (°C)					20.1	7.2				39.0	Aug-01 15:00	27.2	Aug-01	100.0	-
RH (%)					55.7	10.2				100.0	Aug-12 01:00	99.7	Aug-12	100.0	-
GSR (W/m ²)					223.8	0.0				847.0	Aug-04 12:00	299.2	Aug-04	100.0	-
WSPD (km/h)					1.4	0.1				31.6	Aug-02 22:00	10.8	Aug-24	100.0	12/05/26
WDIR					WNW									100.0	

Pollutant (units)	Analyzer			Notes
	Make		Model	
SO ₂	TEI		43i-TLE	
NO/NO ₂ /NO _x	TEI		42i	
O ₃	TECO		49i	
CO	TEI		48i-TLE	
THC	TECO		51C-LT	
PM _{2.5}	API		T640	
ET/RH	RMYoung		41382VC	
GSR	Pyranometer		PY45774	
WS/WD	RMYoung		5305	

Aug-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	Day		
NO (ppb)				Brooks Meadowplace	0.3	0.0				22.9	Aug-25 08:00	3.0	Aug-25	100.0	Aug-19
NO ₂ (ppb)	159				3.2	0.0	0			18.6	Aug-05 01:00	5.2	Aug-25	100.0	Aug-19
NO _x (ppb)					3.4	0.0				34.5	Aug-25 08:00	8.1	Aug-25	100.0	Aug-19
O ₃ (ppb)	76				29.2	0.0	0			58.8	Aug-01 14:00	42.3	Aug-01	100.0	Aug-19
PM _{2.5} (µg/m ³)	80	29			14.3	1.8	0	2		67.3	Aug-01 10:00	43.5	Aug-01	100.0	Aug-19
ET (°C)					18.5	6.6				37.0	Aug-01 17:00	25.3	Aug-01	100.0	-
RH (%)					65.5	16.8				100.0	Aug-09 04:00	99.4	Aug-13	100.0	-
WSPD (km/h)					2.0	0.2				35.4	Aug-02 21:00	14.3	Aug-01	100.0	30/07/26
WDIR					WNW										100.0

Pollutant (units)	Analyzer			Notes
	Make		Model	
NO/NO ₂ /NO _x	TEI		42iQ	
O ₃	TEI		49iQ	
PM _{2.5}	API		T640	
ET/RH	CS		HC2-S3	
WS/WD	RMYoung		5305	

Aug-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	Day		
NO (ppb)				Hanna Airpointer	0.9	0.0				5.4	Aug-14 08:00	1.6	Aug-26	97.6	Aug-20
NO ₂ (ppb)	159				1.7	0.0	0			9.4	Aug-09 06:00	3.2	Aug-10	97.6	Aug-20
NO _x (ppb)					2.5	0.0				10.3	Aug-09 06:00	3.9	Aug-10	97.6	Aug-20
O ₃ (ppb)	76				30.8	8.1	0			64.1	Aug-01 13:00	44.8	Aug-01	99.2	Aug-21
PM _{2.5} (µg/m ³)	80	29			8.4	0.0	0	0		49.7	Aug-01 19:00	24.5	Aug-01	100.0	Aug-21
ET (°C)					18.4	7.3				35.5	Aug-01 16:00	25.5	Aug-01	100.0	-
RH (%)					58.3	13.3				95.4	Aug-09 06:00	78.0	Aug-12	100.0	-
WSPD (km/h)					0.6	0.0				15.3	Aug-01 13:00	8.9	Aug-02	100.0	17/07/26
WDIR					WNW									100.0	

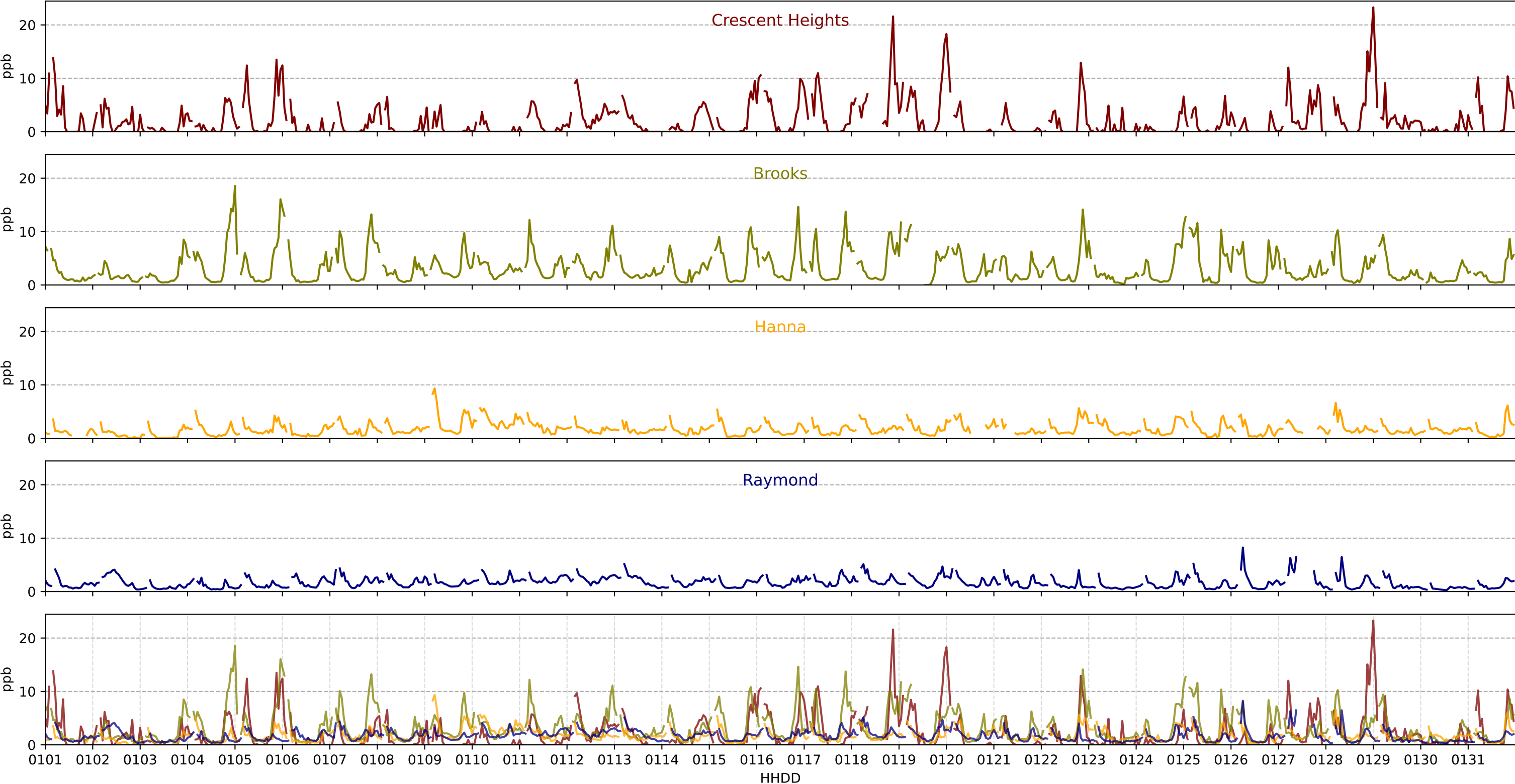
Pollutant (units)	Analyzer			Notes
	Make		Model	
NO/NO ₂ /NO _x	Airpointer API		200e	Analyzer offline during August 21 O ₃ calibration. Analyzer returned invalid readings August 1 and 27.
O ₃	Airpointer API		400e	Analyzer offline during August 20 NO _x calibration.
PM _{2.5}	Sharp		5030	
ET/RH	CS		HC2-S3	
WS/WD	RMYoung		5305	

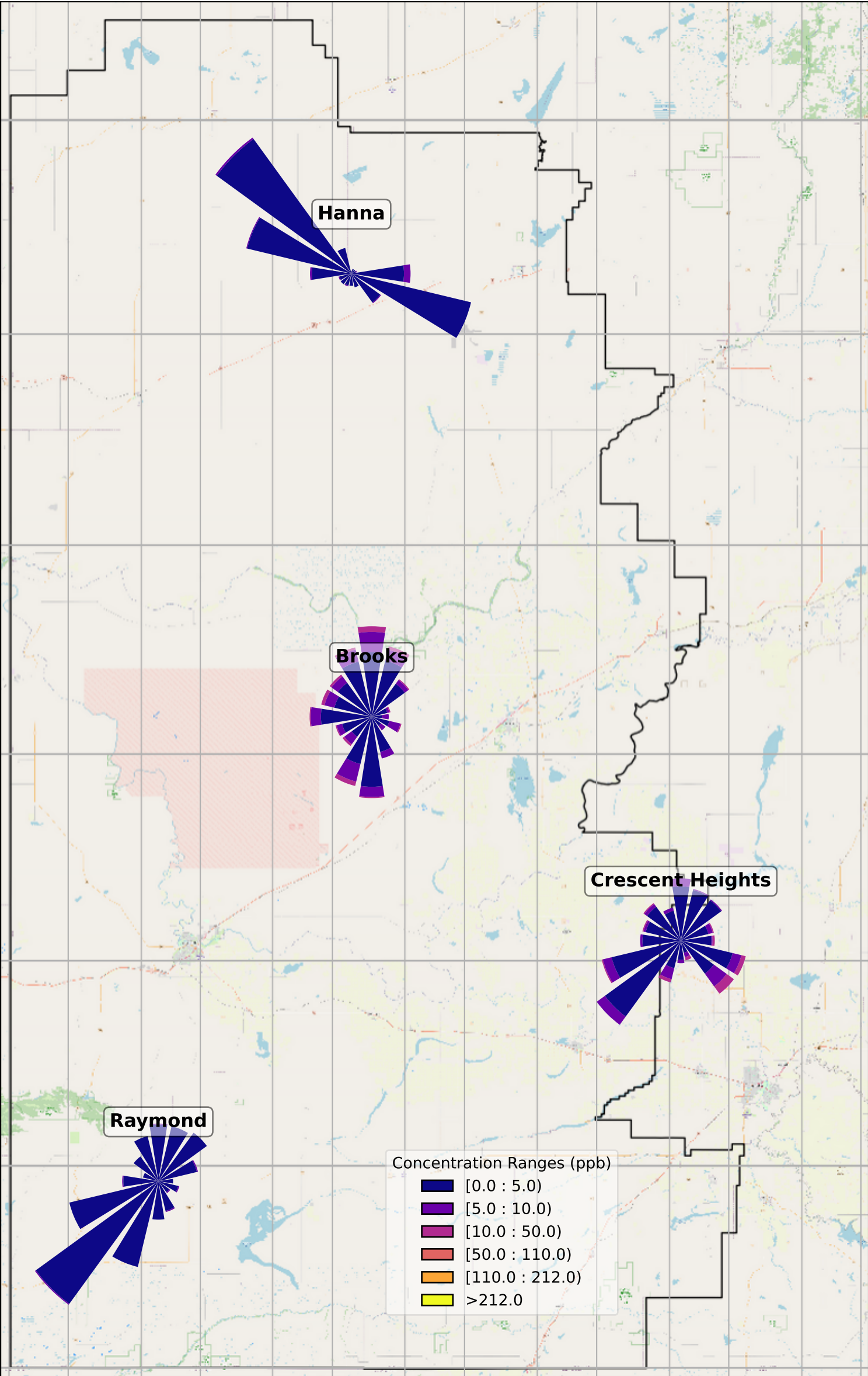
Aug-26			Palliser Airshed Society			Maximum Recorded Values									
Pollutant (units)	Objectives			Station	Monthly Average	1-Hour Minimum	Exceedence			1-hr		24-hr / 8-hr		Operational Time (%)	Calibration Date
	1-hr	24-hr	30-day				1-hr	24-hr	30-day	Conc	Day	Conc	Day		
NO (ppb)				Raymond Airpointer	0.1	0.0				11.3	Aug-25 07:00	0.9	Aug-25	100.0	Aug-27
NO ₂ (ppb)	159				1.7	0.2	0			8.3	Aug-26 07:00	2.4	Aug-18	100.0	Aug-27
NO _x (ppb)					1.7	0.1				14.6	Aug-26 07:00	2.4	Aug-18	100.0	Aug-27
O ₃ (ppb)	76				30.8	3.6	0			54.6	Aug-18 15:00	45.6	Aug-01	100.0	Aug-27
PM _{2.5} (µg/m ³)	80	29			16.8	0.0	9	4		258.2	Aug-02 11:00	65.0	Aug-02	100.0	Aug-27
ET (°C)					17.7	4.0				35.9	Aug-01 14:00	24.4	Aug-01	100.0	-
RH (%)					60.5	17.4				100.0	Aug-15 04:00	95.6	Aug-13	100.0	-
WSPD (km/h)					2.5	0.1				22.3	Aug-30 14:00	14.2	Aug-23	100.0	-
WDIR					WSW									100.0	-

Pollutant (units)	Analyzer			Notes
	Make		Model	
NO/NO ₂ /NO _x	Airpointer API		200e	
O ₃	Airpointer API		400e	
PM _{2.5}	Sharp		5030	
ET/RH	Vaisala		WXT520	
WS/WD	Vaisala		WXT520	

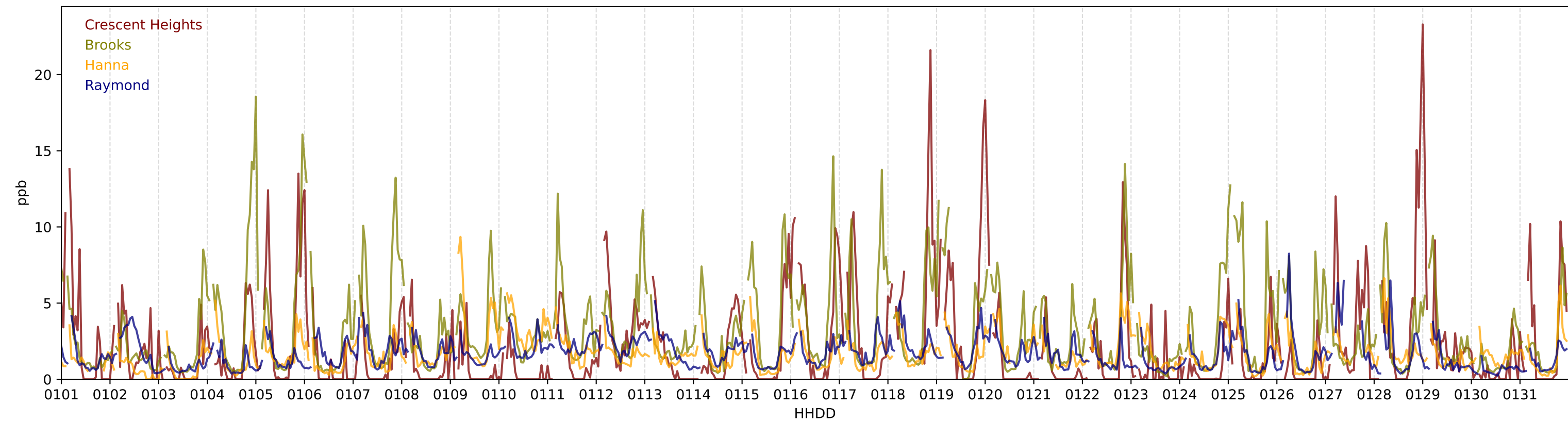
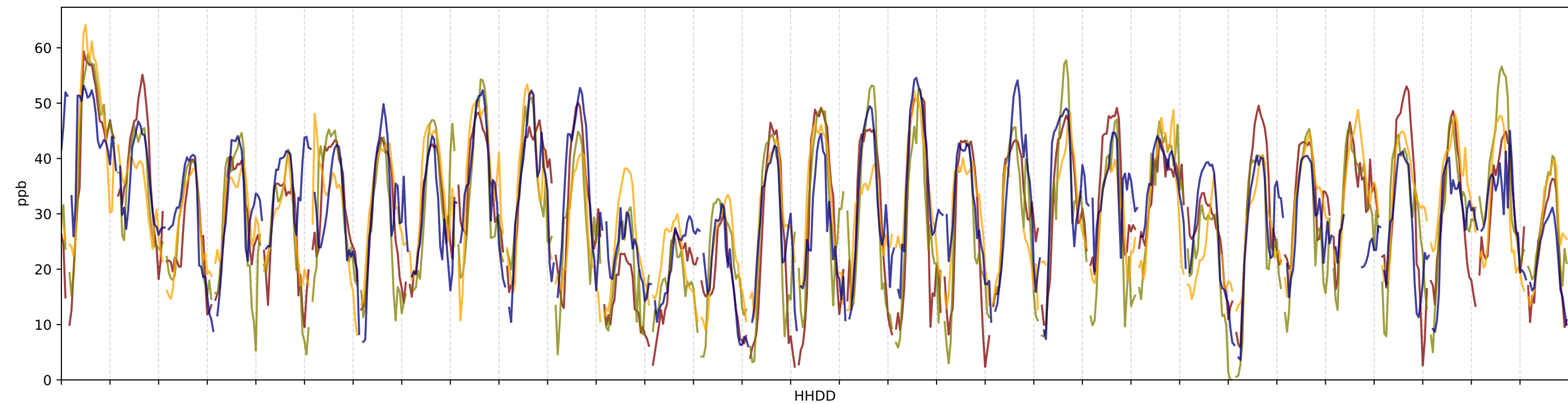
August 2026 NO₂

NO₂ AAAQO = 172 ppb

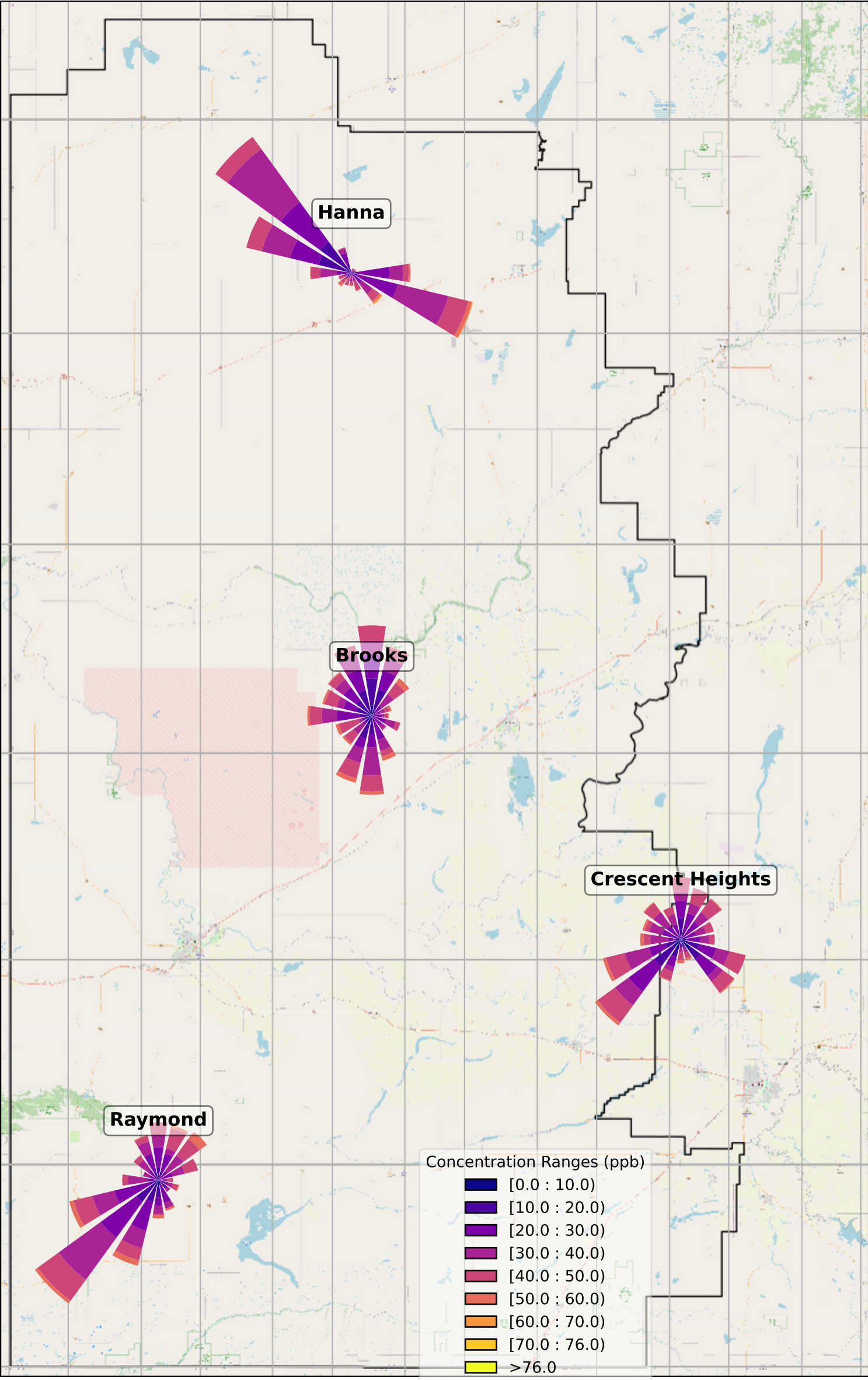




August 2026 O₃ vs NO₂



August 2026 O₃ Roses



August 2026 PM_{2.5}

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

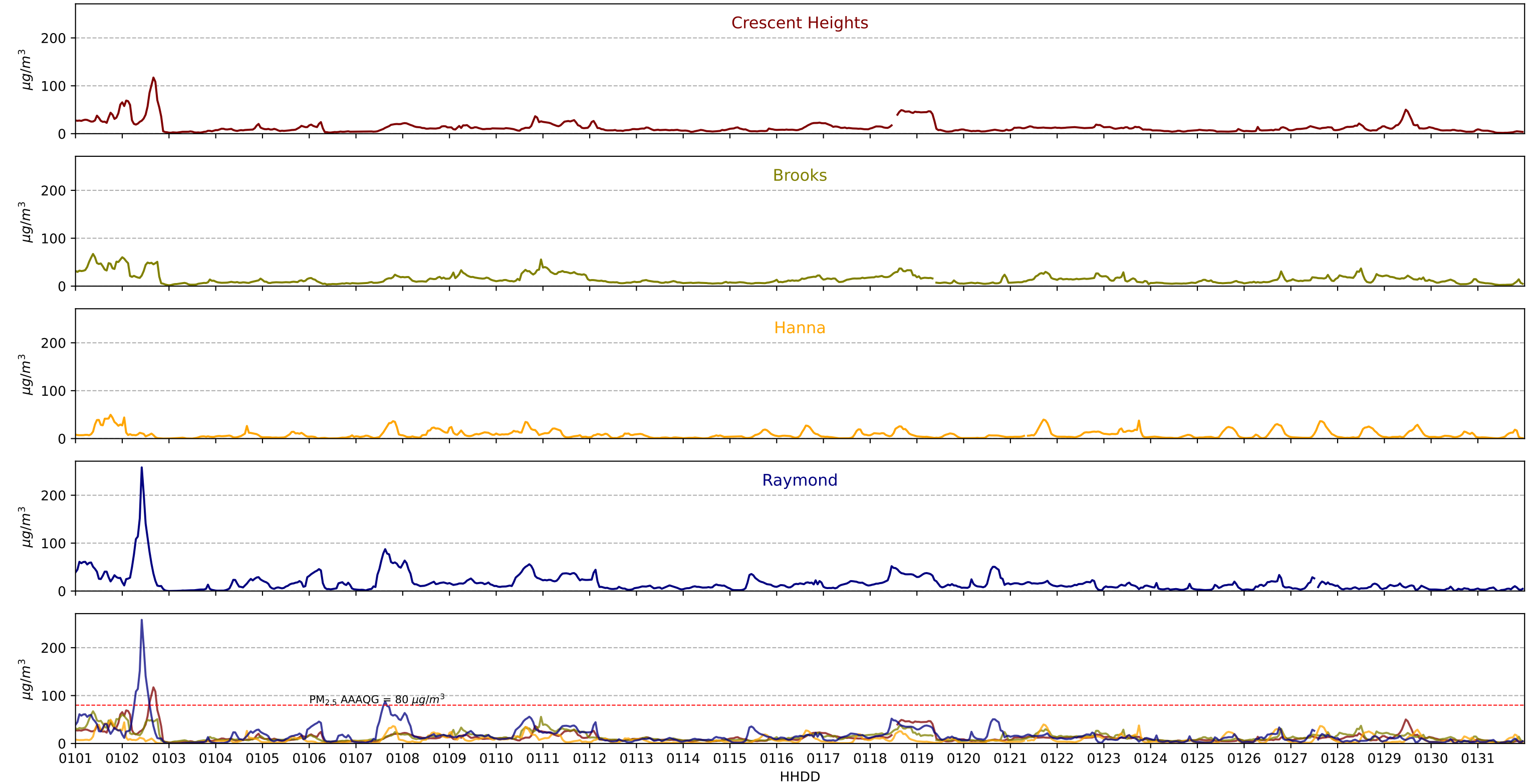
Crescent Heights

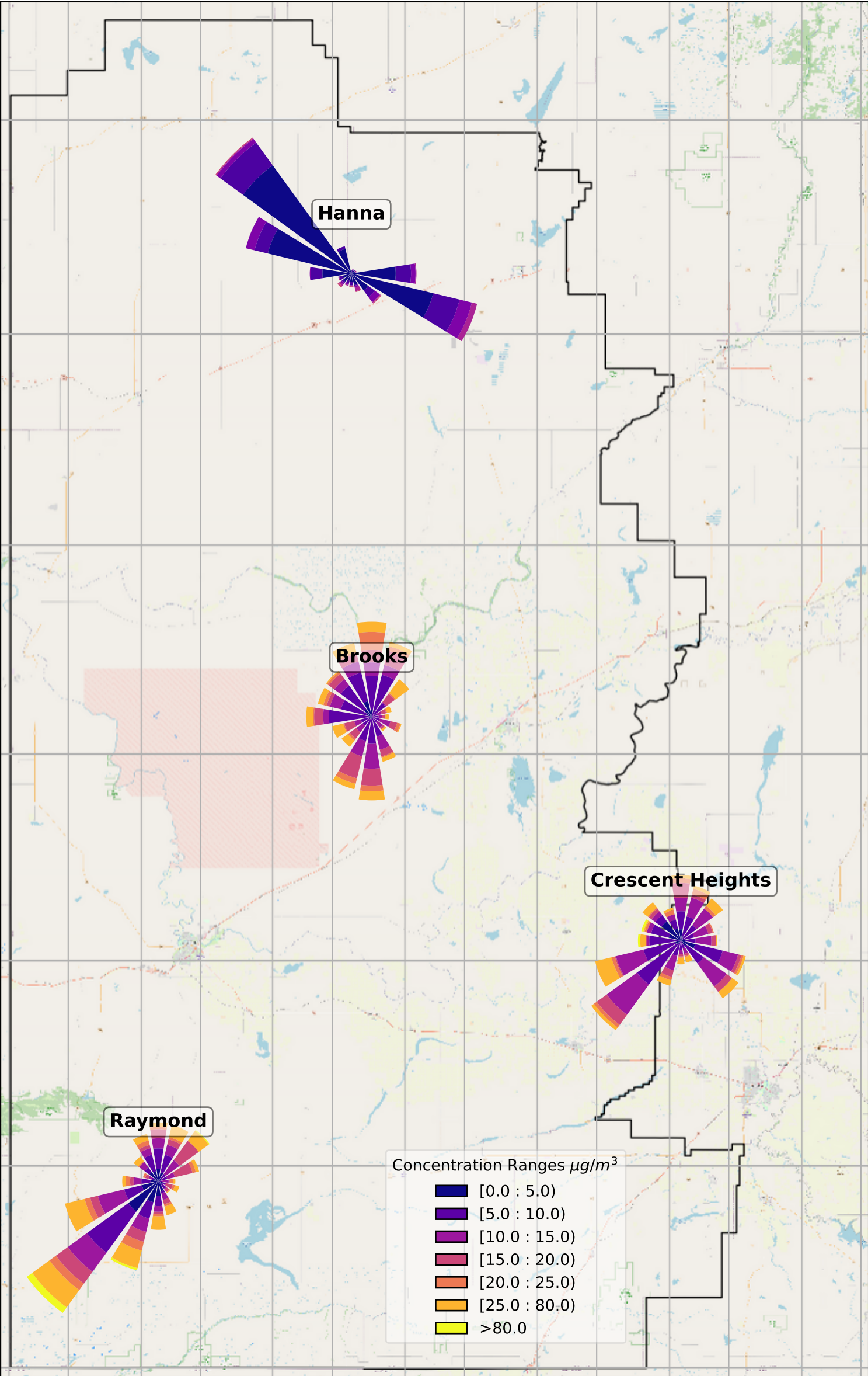
Brooks

Hanna

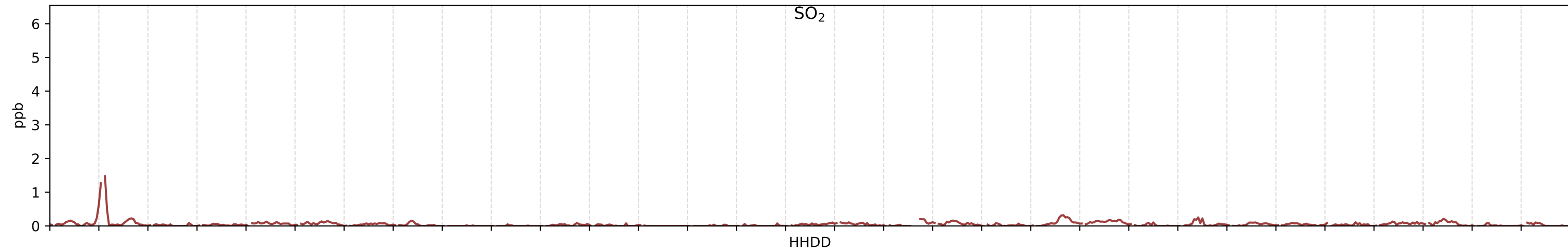
Raymond

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

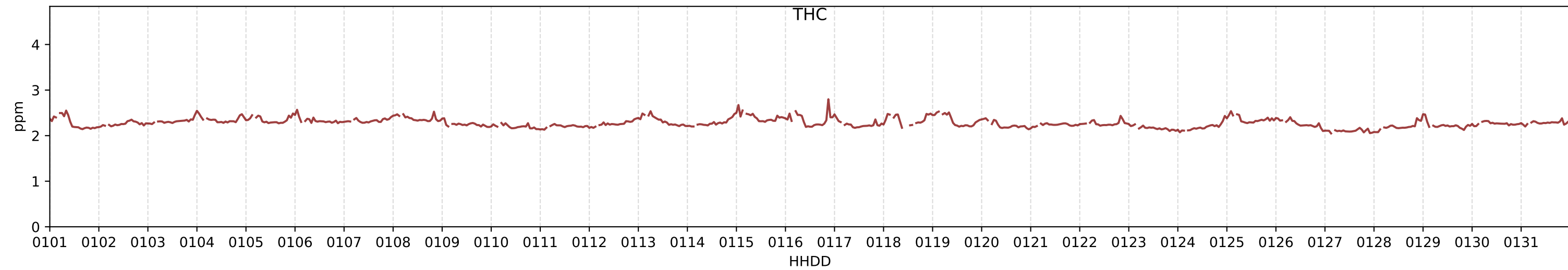
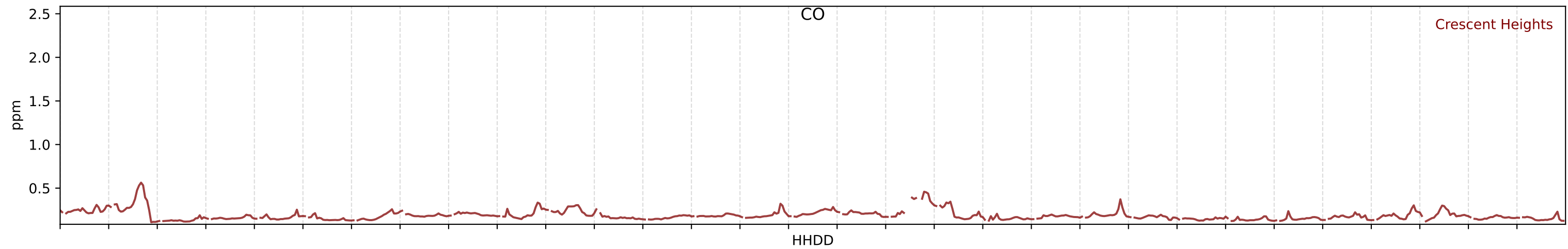




SO₂ AAAQO = 172 ppb



CO AAAQO = 13 ppm



August 2026

