

August 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 – July 2026

Enclosed is the PAS Dashboard Report for the month of **July 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 July.

AAAQO/G Exceedance Summary:

There were 20 1-hour and 15 24-hour exceedances of the AAAQO/G for PM_{2.5} (80/29 µg/m³) in July. 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)	18-Jul-26	15:00	16:00	95	SSW	8.4	*
Hanna (Airpointer)	20-Jul-26	21:00	22:00	84	E	0.2	*
Hanna (Airpointer)	20-Jul-26	22:00	23:00	89	NW	0.4	*
Hanna (Airpointer)	20-Jul-26	23:00	00:00	90	NNW	0.2	*
Hanna (Airpointer)	21-Jul-26	00:00	01:00	94	NNW	0.3	*
Hanna (Airpointer)	21-Jul-26	01:00	02:00	97	NNW	0.4	*
Hanna (Airpointer)	21-Jul-26	02:00	03:00	96	ENE	0.1	*
Hanna (Airpointer)	21-Jul-26	03:00	04:00	92	NW	0.2	*
Brooks - Meadowplace	23-Jul-26	23:00	00:00	81	WNW	1.9	*
Brooks - Meadowplace	24-Jul-26	01:00	02:00	87	WSW	2.1	*
Brooks - Meadowplace	24-Jul-26	02:00	03:00	84	WNW	1.7	*
Brooks - Meadowplace	24-Jul-26	03:00	04:00	87	W	8.0	*
Brooks - Meadowplace	24-Jul-26	11:00	12:00	90	W	6.5	*
Brooks - Meadowplace	24-Jul-26	12:00	13:00	100	W	6.0	*
Brooks - Meadowplace	24-Jul-26	13:00	14:00	104	SSW	16.6	*
Brooks - Meadowplace	24-Jul-26	14:00	15:00	81	SW	11.0	*
Raymond (Airpointer)	28-Jul-26	12:00	13:00	89	SW	8.8	*
Raymond (Airpointer)	28-Jul-26	13:00	14:00	81	SW	10.4	*
Raymond (Airpointer)	31-Jul-26	10:00	11:00	82	WSW	10.9	*

Station Name	Date	Start Time	End Time	1-Hour PM _{2.5} Concentration	Wind Direction	Wind Speed	Reference Number
Raymond (Airpointer)	31-Jul-26	11:00	12:00	82	WSW	13.4	*

Station Name	Date	24-Hour PM _{2.5} Concentration (µg/m ³)	Wind Direction	Wind Speed (km/h)	Reference Number
Hanna (Airpointer)	21-Jul-26	43	ESE	1.6	456512
Brooks - Meadowplace	23-Jul-26	41	WNW	2.0	443129
Crescent Heights	23-Jul-26	35	WSW	4.8	443130
Raymond (Airpointer)	23-Jul-26	40	SW	4.8	443131
Brooks - Meadowplace	24-Jul-26	58	W	5.4	443129
Crescent Heights	24-Jul-26	49	WSW	10.5	443130
Hanna (Airpointer)	24-Jul-26	52	WSW	2.0	456512
Brooks - Meadowplace	25-Jul-26	38	SSW	4.4	443129
Hanna (Airpointer)	25-Jul-26	39	ESE	2.9	456512
Crescent Heights	26-Jul-26	40	WSW	8.4	443130
Crescent Heights	27-Jul-26	31	SW	12.0	443130
Brooks - Meadowplace	28-Jul-26	31	SW	7.6	443129
Crescent Heights	28-Jul-26	34	SW	5.9	443130
Raymond (Airpointer)	28-Jul-26	31	SSW	5.1	443131
Raymond (Airpointer)	31-Jul-26	40	WSW	3.2	443131

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

July 2026 Monthly Ambient Air Quality Summary

Jul-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	0.1	0.0	0	0	0	0.3	Jul-30 15:00	0.1	Jul-30	99.7	Jul-29	
NO (ppb)					0.7	0.0					8.4	Jul-12 00:00	1.3	Jul-14	99.9	Jul-28
NO ₂ (ppb)	159				1.7	0.0	0				25.1	Jul-30 22:00	4.2	Jul-24	99.9	Jul-28
NO _x (ppb)					2.3	0.0					28.7	Jul-30 22:00	5.2	Jul-24	99.9	Jul-28
O ₃ (ppb)	76				32.9	2.9	0				64.5	Jul-24 15:00	46.1	Jul-19	99.9	Jul-29
CO (ppm)					0.2	0.1					0.7	Jul-21 09:00	0.3	Jul-24	99.7	Jul-28
CO 8-Hour (ppm)	5				-	0.1	0				0.4	Jul-28 23:00	-	-	100.0	-
THC (ppm)					2.1	1.9					2.5	Jul-30 22:00	2.4	Jul-31	99.9	Jul-28
PM _{2.5} (µg/m ³)	80	29			14.5	2.2	0	5			62.8	Jul-28 22:00	48.6	Jul-24	99.9	Jul-28
ET (°C)					23.1	10.1					36.7	Jul-18 17:00	28.7	Jul-18	99.9	-
RH (%)					55.4	13.3					100.0	Jul-01 01:00	83.2	Jul-15	99.9	-
GSR (W/m ²)					299.4	0.0					949.3	Jul-13 13:00	357.8	Jul-06	99.9	-
WSPD (km/h)					4.0	0.4					25.2	Jul-08 15:00	12.0	Jul-27	99.9	12/05/26
WDIR					SW										99.9	

Pollutant (units)	Analyzer			Notes
SO ₂	Make	Model		Logger offline for 1 hour for updates July 21.
	TEI	43i-TLE		Manual span check July 28.
NO/NO ₂ /NO _x	TEI	42i		
O ₃	TECO	49i		
CO	TEI	48i-TLE		Manual span check July 29.
THC	TECO	51C-LT		
PM _{2.5}	API	T640		
ET/RH	RMYoung	41382VC		
GSR	Pyranometer	PY45774		
WSWD	RMYoung	5305		

Jul-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)				Brooks Meadowplace	0.5	0.0				16.7	Jul-07 08:00	2.7	Jul-07	99.9	Jul-30
NO ₂ (ppb)		159			2.7	0.0	0			16.7	Jul-31 22:00	6.3	Jul-31	99.9	Jul-30
NO _x (ppb)					3.1	0.0				27.0	Jul-23 07:00	7.4	Jul-23	99.9	Jul-30
O ₃ (ppb)		76			32.9	3.5	0			65.5	Jul-24 15:00	45.7	Jul-19	99.9	Jul-30
PM _{2.5} (µg/m ³)		80	29		15.5	2.0	8	4		104.1	Jul-24 14:00	58.0	Jul-24	99.9	Jul-30
ET (°C)					21.5	9.3				34.3	Jul-18 17:00	26.4	Jul-18	99.9	-
RH (%)					65.7	18.7				100.0	Jul-01 01:00	88.9	Jul-14	99.9	-
WSPD (km/h)					3.0	0.1				29.6	Jul-05 18:00	14.3	Jul-18	99.9	30/07/26
WDIR					SW									99.9	

Pollutant (units)	Analyzer			Notes
NO/NO ₂ /NO _x	Make	Model		Logger offline for 1 hour for updates July 21.
	TEI	42iQ		
O ₃	TEI	49iQ		
PM _{2.5}	API	T640		
ET/RH	CS	HC2-S3		
WSWD	RMYoung	5305		

Jul-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	0.8	0.0				15.7	Jul-23 06:00	1.8	Jul-31	99.3	Jul-16
NO ₂ (ppb)	159				1.5	0.2	0			8.2	Jul-23 06:00	2.9	Jul-23	99.3	Jul-16
NO _x (ppb)					2.3	0.2				23.9	Jul-23 06:00	4.1	Jul-23	99.3	Jul-16
O ₃ (ppb)	76				33.2	8.8	0			64.0	Jul-24 18:00	41.0	Jul-26	99.2	Jul-17
PM _{2.5} (µg/m ³)	80	29			13.1	0.5	7	3		96.5	Jul-21 02:00	51.8	Jul-24	100.0	Jul-17
ET (°C)					20.6	9.5				33.8	Jul-18 16:00	25.3	Jul-18	100.0	-
RH (%)					62.9	18.3				97.7	Jul-16 07:00	73.7	Jul-20	100.0	-
WSPD (km/h)					0.8	0.0				15.2	Jul-30 12:00	8.4	Jul-07	100.0	17/07/26
WDIR					SE									100.0	

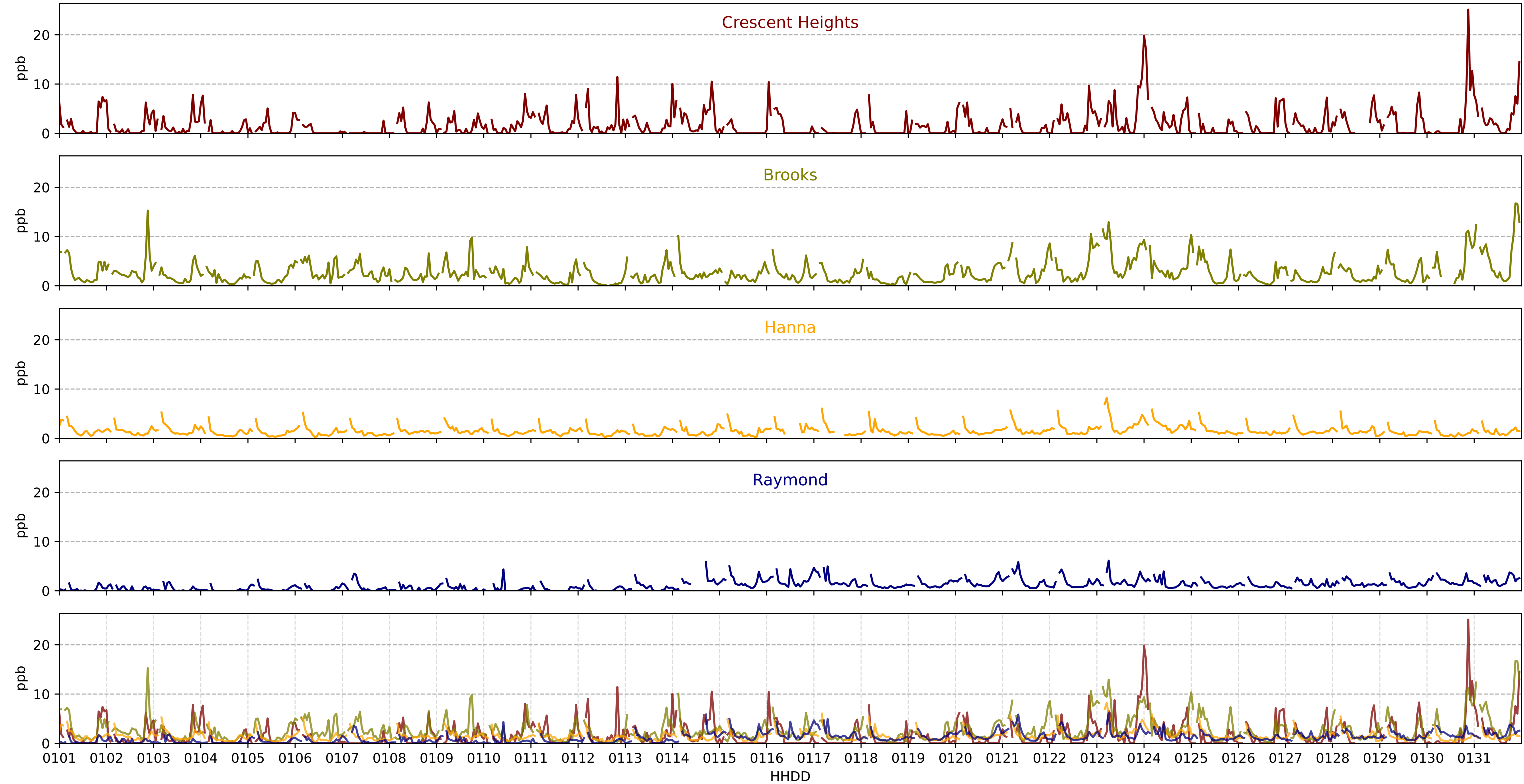
Pollutant (units)	Analyzer			Notes
	Make		Model	
NO/NO ₂ /NO _x	Airpointer API		200e	Analyzer offline during Jly 17 O ₃ calibration.
O ₃	Airpointer API		400e	Analyzer offline during July 16 NO _x calibration.
PM _{2.5}	Sharp		5030	
ET/RH	CS		HC2-S3	
WS/WD	RMYoung		5305	

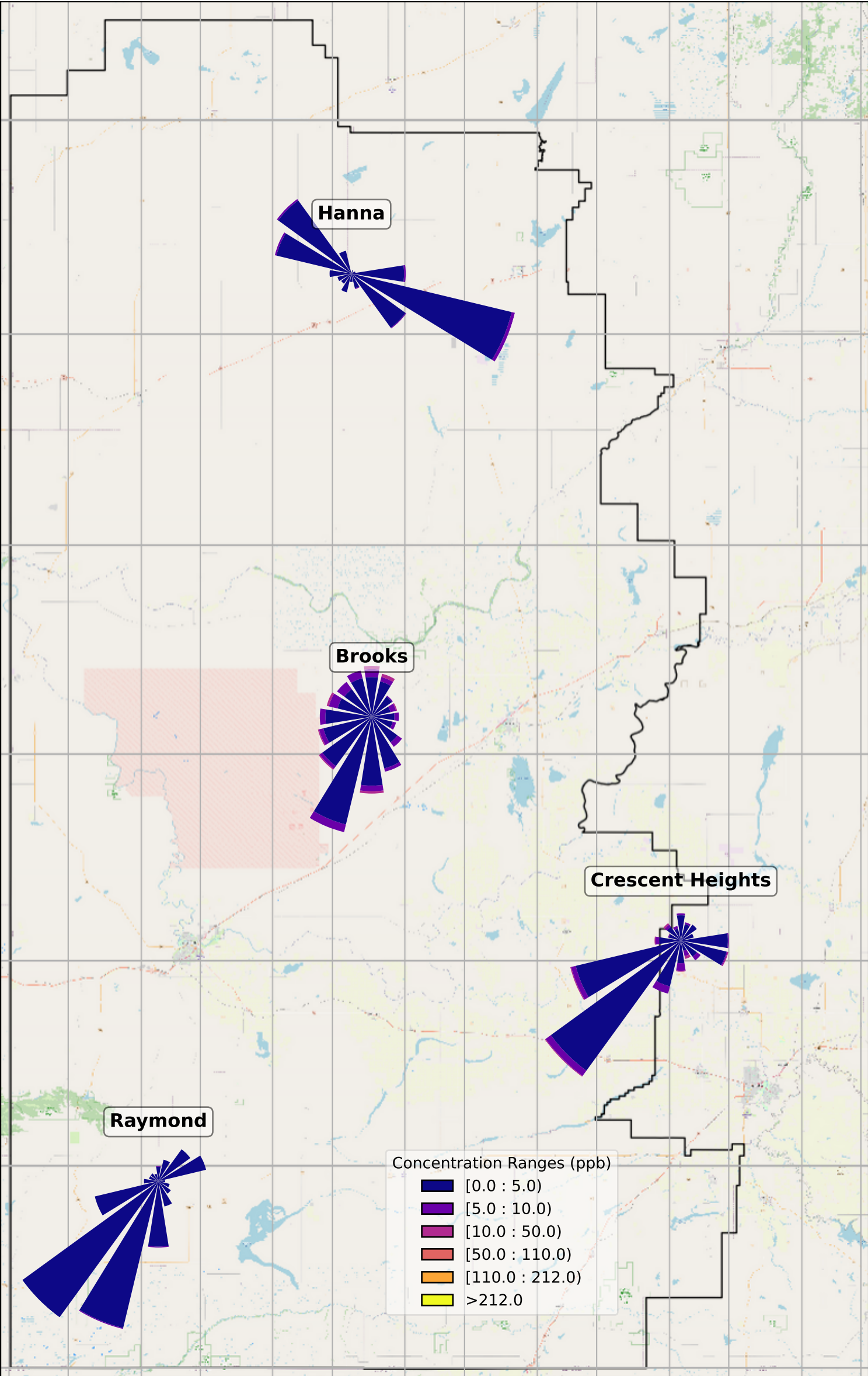
Jul-26 Palliser Airshed Society										Maximum Recorded Values					
Pollutant (units)	Objectives			Station	Monthly Average	1-Hour Minimum	Exceedence			1-hr		24-hr / 8-hr		Operational Time (%)	Calibration Date
	1-hr	24-hr	30-day				1-hr	24-hr	30-day	Conc	Day	Conc	Day		
NO (ppb)				Raymond Airpointer	0.1	0.0				5.1	Jul-24 11:00	0.3	Jul-03	100.0	Jul-14
NO ₂ (ppb)	159				1.1	0.0	0			6.1	Jul-23 07:00	2.2	Jul-17	100.0	Jul-14
NO _x (ppb)					1.2	0.0				9.1	Jul-24 11:00	2.3	Jul-17	100.0	Jul-14
O ₃ (ppb)	76				31.8	5.0	0			65.3	Jul-31 16:00	42.2	Jul-31	100.0	Jul-14
PM _{2.5} (µg/m ³)	80	29			13.4	0.0	5	3		95.1	Jul-18 16:00	40.0	Jul-31	100.0	Jul-14
ET (°C)					20.3	6.1				34.2	Jul-25 15:00	25.0	Jul-18	100.0	-
RH (%)					60.1	19.3				100.0	Jul-09 07:00	80.0	Jul-16	100.0	-
WSPD (km/h)					3.3	0.1				19.7	Jul-03 13:00	9.0	Jul-03	100.0	-
WDIR					SW									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	

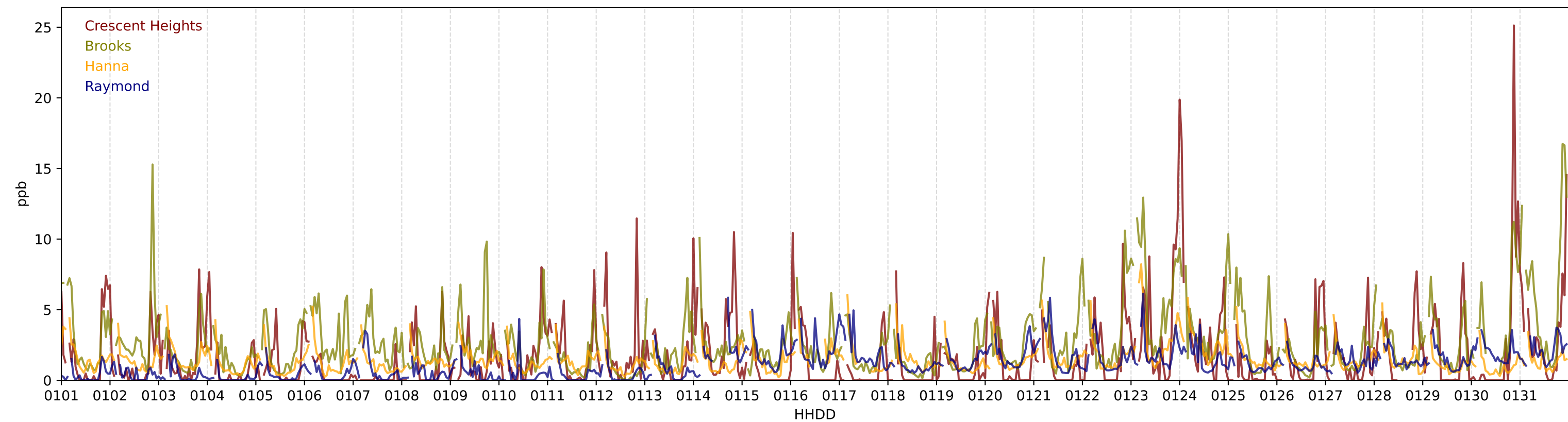
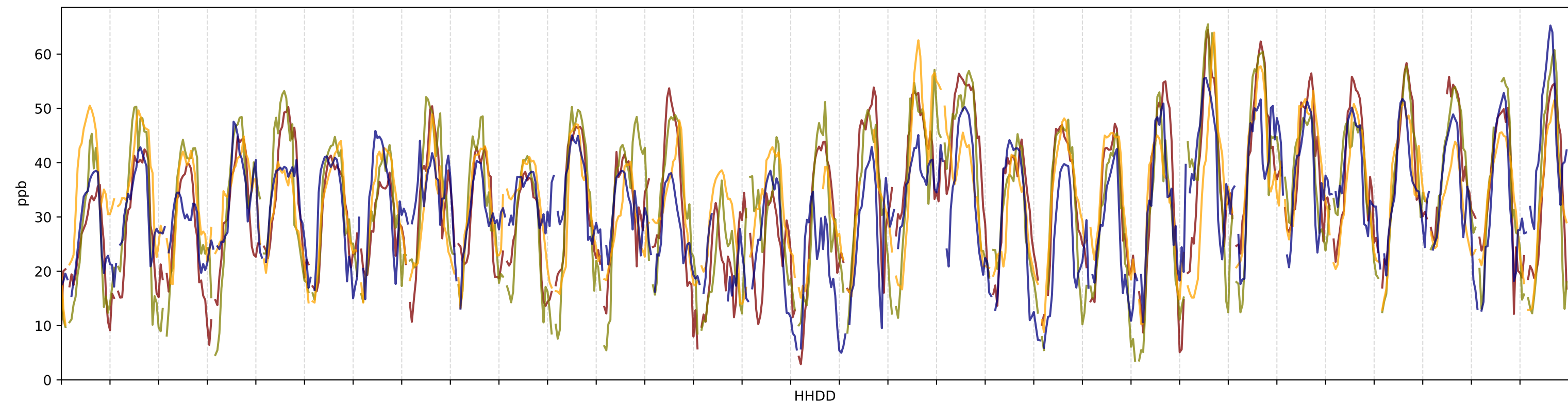
July 2026 NO₂

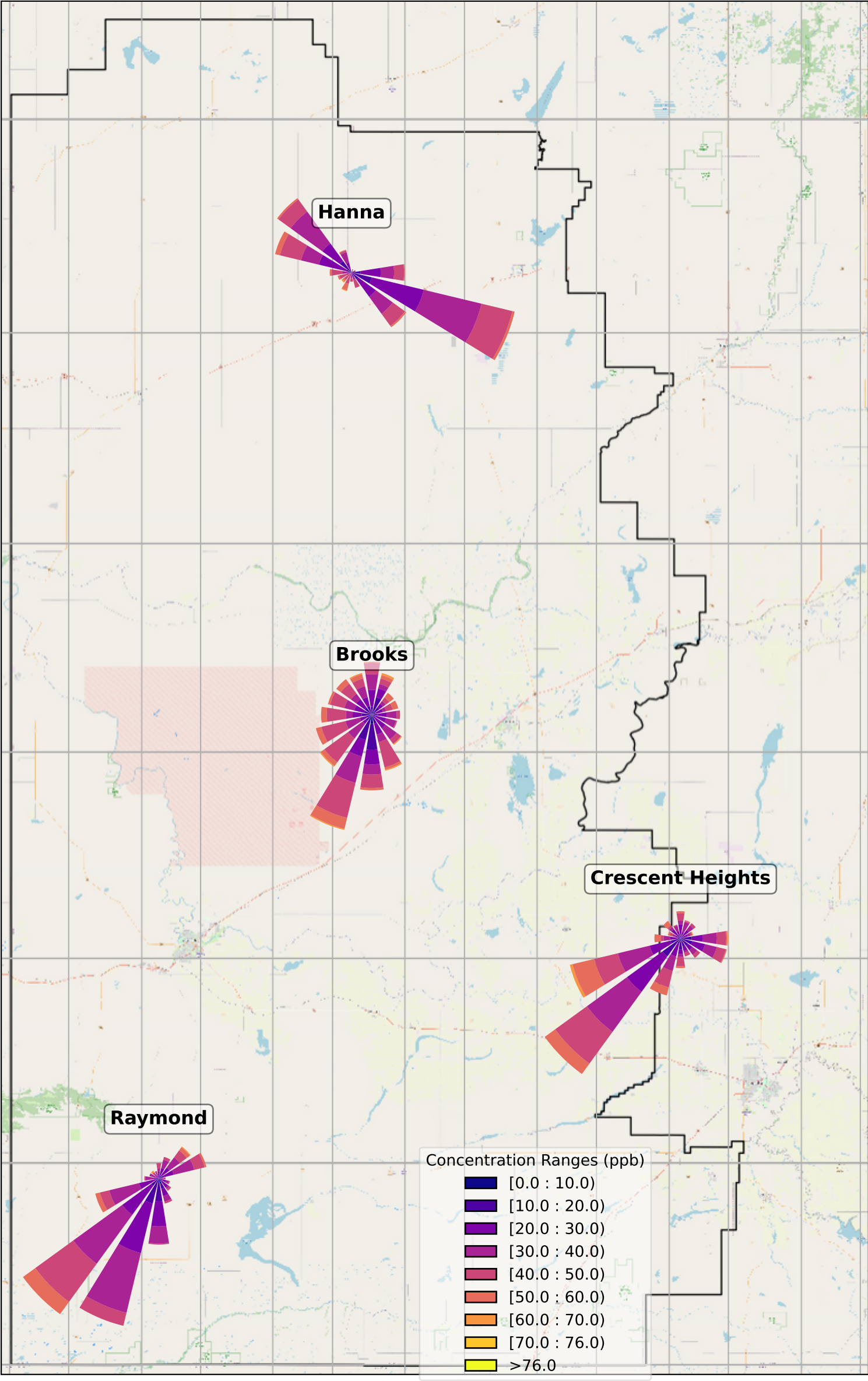
NO₂ AAAQO = 172 ppb





July 2026 O₃ vs NO₂





July 2026 PM_{2.5}

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

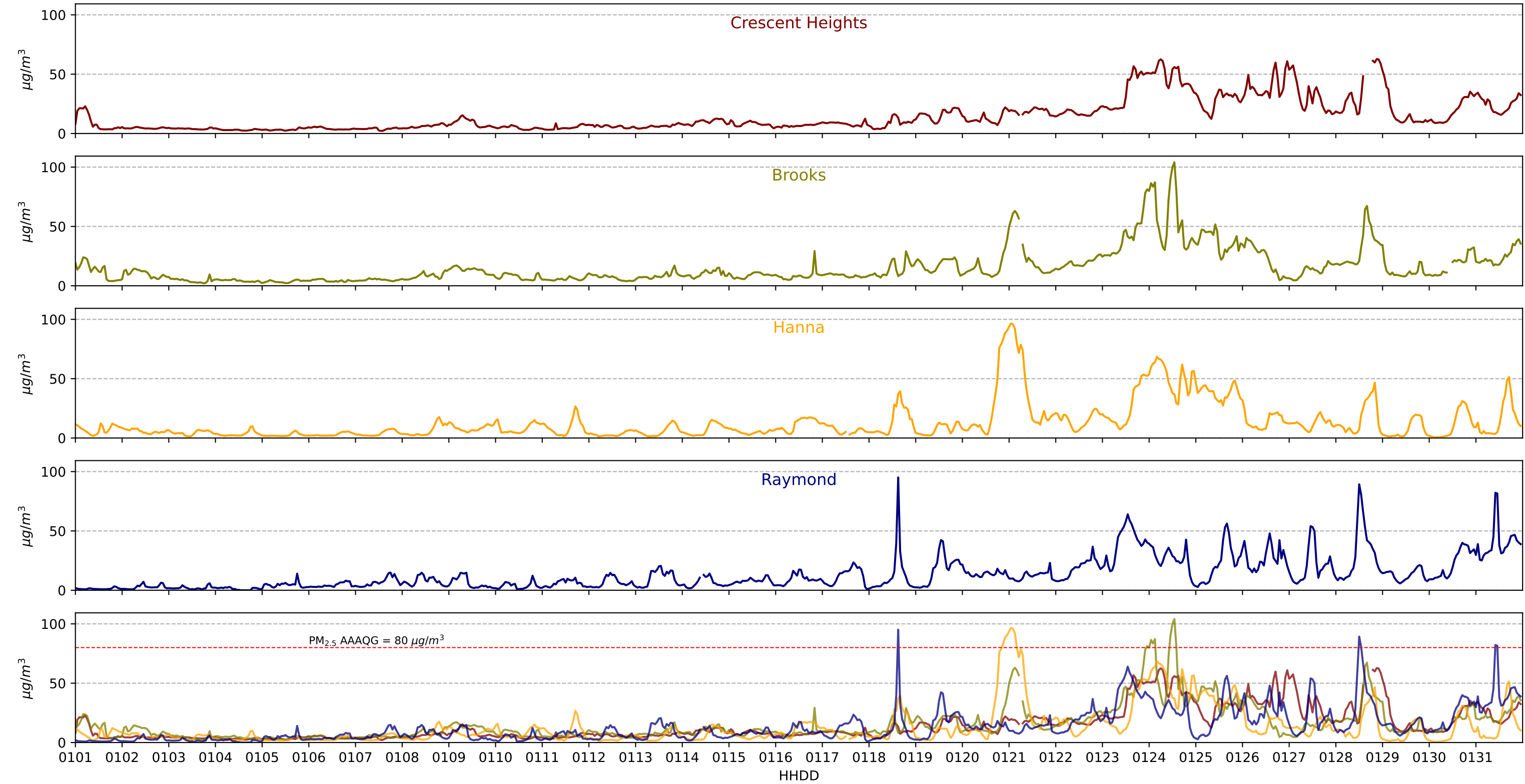
Crescent Heights

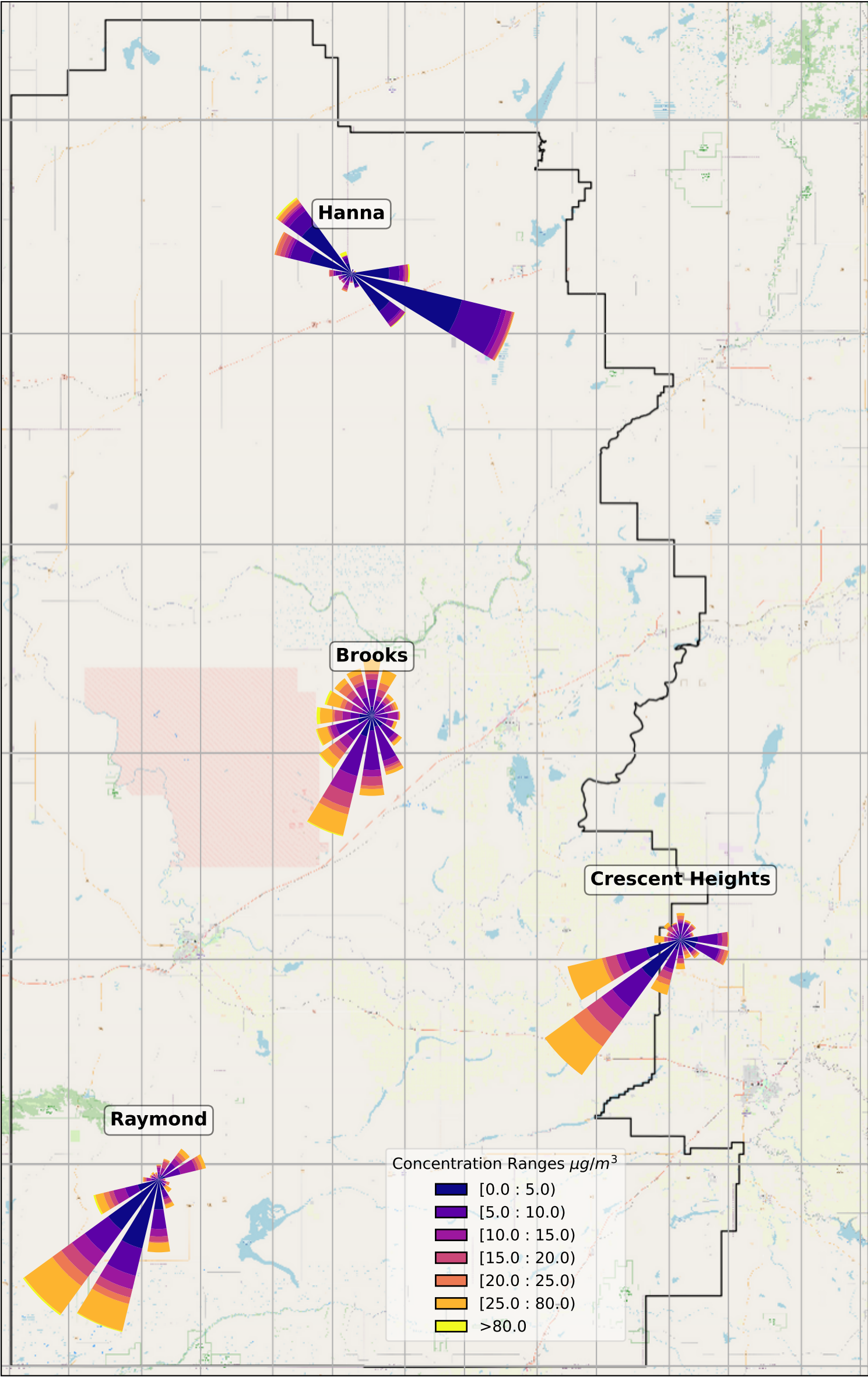
Brooks

Hanna

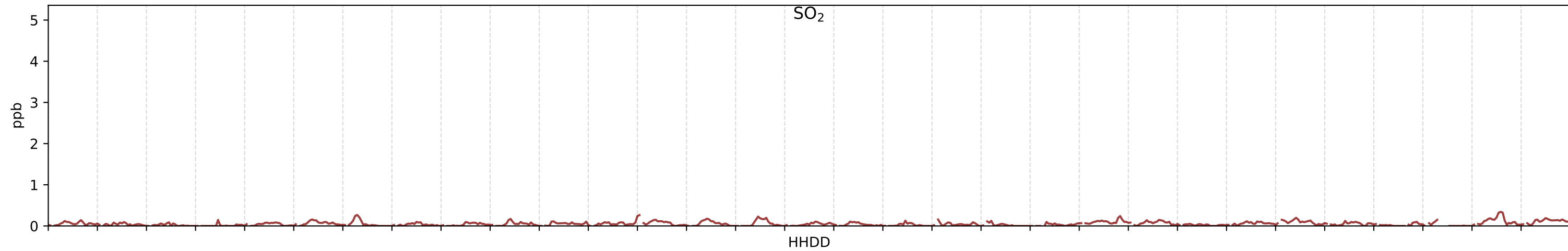
Raymond

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

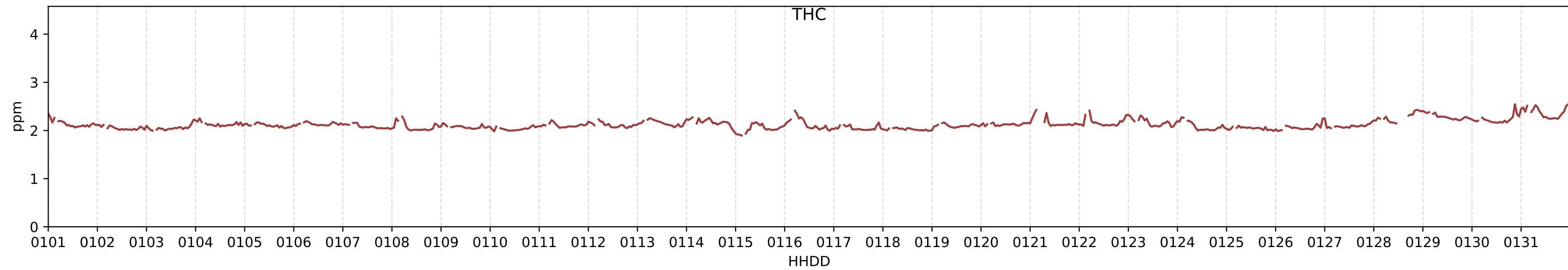
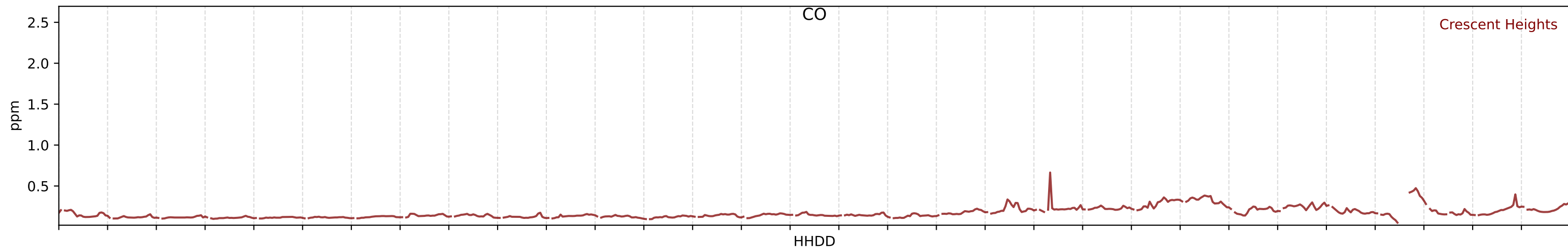




SO₂ AAAQO = 172 ppb

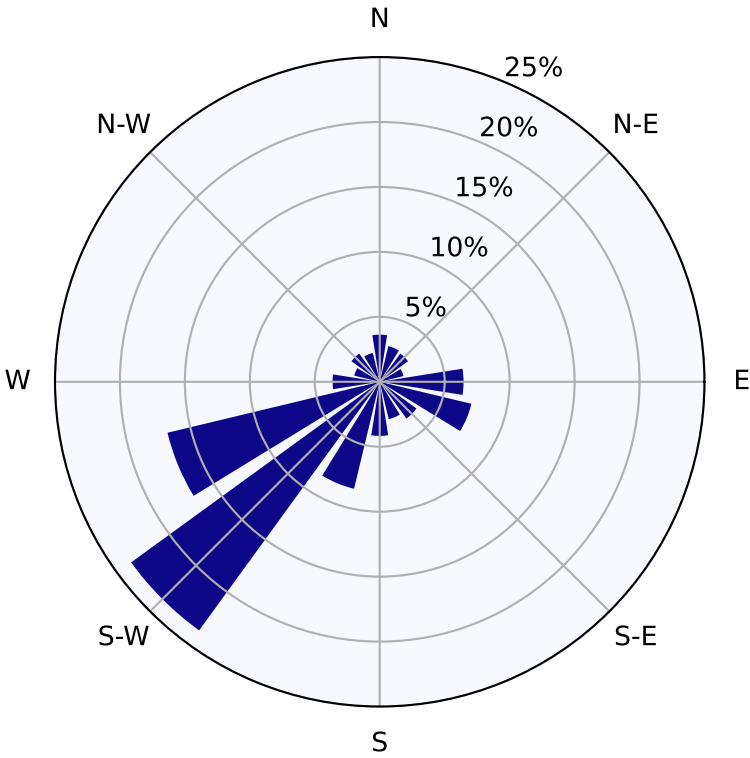


CO AAAQO = 13 ppm

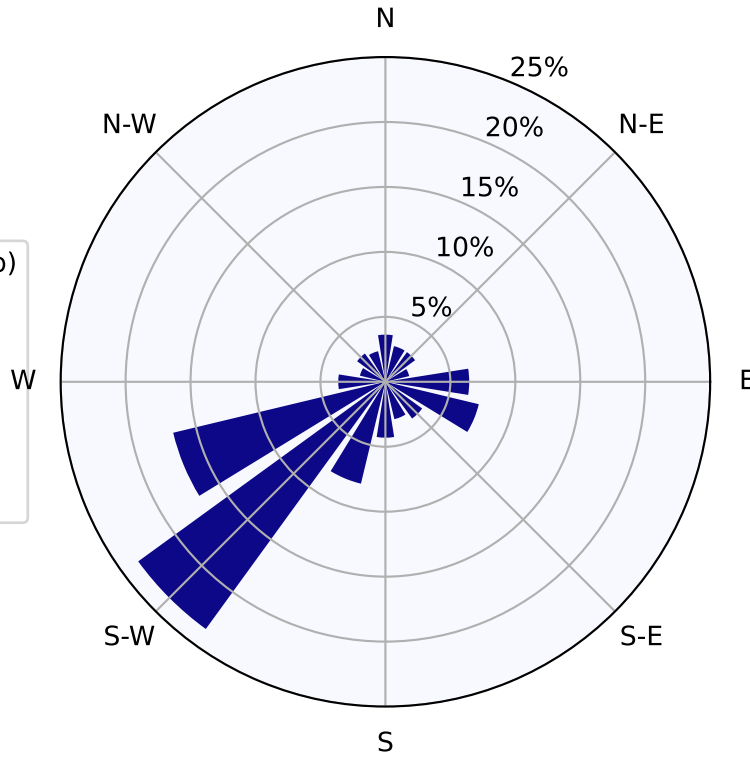


July 2026

Crescent Heights SO₂



Crescent Heights CO



Crescent Heights THC

