

February 20, 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 – January 2026**

---

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

The THC analyzer at Crescent Heights malfunctioned after the December 2 calibration and was returned to service January 14, with an uptime of 57.5% for January. **Ref# 449562.**

The NO<sub>x</sub> and O<sub>3</sub> analyzers were returned to service January 20 after NO<sub>x</sub> analyzer repair, with uptimes of 36.8% and 36.6% in January respectively. **Ref# 449563.**

**AAAQO/G Exceedance Summary:**

There were no exceedances of the AAAQO/G in January.

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

# January 2026 Monthly Ambient Air Quality Summary

Jan-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 <sub>2</sub> (ppb)	172	48	8	Crescent Heights	0.1	0.0	0	0	0	0.9	Jan-24 14:00	0.2	Jan-24	98.7	Jan-13	
NO (ppb)					2.1	0.0					47.8	Jan-29 05:00	9.8	Jan-29	98.8	Jan-13
NO <sub>2</sub> (ppb)	159				7.9	0.9	0				36.9	Jan-09 08:00	17.0	Jan-29	98.8	Jan-13
NO <sub>x</sub> (ppb)					10.0	0.9					73.2	Jan-29 05:00	26.8	Jan-29	98.8	Jan-13
O <sub>3</sub> (ppb)	76				26.6	0.2	0				44.1	Jan-21 02:00	36.5	Jan-21	98.8	Jan-14
CO (ppm)					0.2	0.1					0.4	Jan-09 08:00	0.2	Jan-29	98.7	Jan-14
CO 8-Hour (ppm)	5				-	0.1	0				0.2	Jan-29 11:00	-	-	98.5	-
THC (ppm)					-	1.8					2.9	Jan-29 07:00	2.5	Jan-28	57.5	Jan-14
PM <sub>2.5</sub> (µg/m <sup>3</sup> )	80	29			5.6	0.2	0	0			21.0	Jan-23 02:00	11.7	Jan-05	95.4	Jan-14
ET (°C)					-5.0	-30.2					15.1	Jan-14 16:00	8.6	Jan-12	98.8	-
RH (%)					74.2	30.6					100.0	Jan-01 02:00	100.0	Jan-01	98.8	-
GSR (W/m <sup>2</sup> )					53.3	0.0					381.8	Jan-31 13:00	85.8	Jan-25	98.8	-
WSPD (km/h)					4.6	0.4					39.7	Jan-15 14:00	20.8	Jan-15	98.8	25/09/25
WDIR					WNW										98.8	

Pollutant (units)	Analyzer		Notes
	Make	Model	
SO <sub>2</sub>	TEI	43i-TLE	Logger offline for 1 hour for updates January 7 and 19. Logger returned no data for 7 hours January 23.
NO/NO <sub>2</sub> /NO <sub>x</sub>	TEI	42i	Manual span check January 14.
O <sub>3</sub>	TECO	49i	
CO	TEI	48i-TLE	Manual span check January 13.
THC	TECO	51C-LT	Analyzer returned invalid readings after December 2 calibration. Returned to service January 13-14. Manual span checks January 24 and 28.
PM <sub>2.5</sub>	API	T640	Analyzer did not properly return to service after January 14 calibration, reset January 15.
ET/RH	RMYoung	41382VC	
GSR	Pyranometer	PY45774	
WS/WD	RMYoung	5305	

Jan-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	0.9	0.0				45.1	Jan-26 10:00	5.7	Jan-26	99.9	Jan-27	
NO <sub>2</sub> (ppb)	159				5.6	0.5	0				29.3	Jan-26 08:00	14.1	Jan-26	99.9	Jan-27
NO <sub>x</sub> (ppb)					6.5	0.4					72.5	Jan-26 10:00	19.8	Jan-26	99.9	Jan-27
O <sub>3</sub> (ppb)	76				25.3	0.0	0				43.8	Jan-21 00:00	35.8	Jan-21	99.9	Jan-27
PM <sub>2.5</sub> (µg/m <sup>3</sup> )	80	29			6.5	0.2	0	0			28.2	Jan-24 08:00	16.7	Jan-24	99.9	Jan-27
ET (°C)					-6.7	-29.6					15.8	Jan-14 15:00	7.1	Jan-12	99.9	-
RH (%)					78.8	31.3					100.0	Jan-29 23:00	96.6	Jan-01	99.9	-
WSPD (km/h)					3.3	0.0					45.9	Jan-15 14:00	21.5	Jan-15	99.9	19/08/25
WDIR					WNW										99.9	

Pollutant (units)	Analyzer		Notes
	Make	Model	
NO/NO <sub>2</sub> /NO <sub>x</sub>	TEI	42iQ	Logger offline for 1 hour for updates January 7.
O <sub>3</sub>	TEI	49iQ	
PM <sub>2.5</sub>	API	T640	
ET/RH	CS	HC2-S3	
WS/WD	RMYoung	5305	

Jan-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	3.3	0.0				45.2	Jan-06 12:00	8.5	Jan-06	99.5	Jan-28		
NO <sub>2</sub> (ppb)	159				7.4	0.8	0			39.6	Jan-09 10:00	16.1	Jan-08	99.5	Jan-28		
NO <sub>x</sub> (ppb)					10.7	1.3				79.8	Jan-06 12:00	21.9	Jan-08	99.5	Jan-28		
O <sub>3</sub> (ppb)	76				28.4	2.1	0			44.5	Jan-18 02:00	41.0	Jan-15	99.2	Jan-29		
PM <sub>2.5</sub> (µg/m <sup>3</sup> )	80	29			5.7	0.5	0	0		34.9	Jan-01 06:00	14.6	Jan-01	100.0	Jan-29		
ET (°C)					-8.0	-27.5				11.2	Jan-14 15:00	5.3	Jan-12	100.0	-		
RH (%)					76.0	38.8				95.5	Jan-06 14:00	91.1	Jan-01	100.0	-		
WSPD (km/h)					0.4	0.0				14.3	Jan-12 13:00	9.1	Jan-15	100.0	26/09/25		
WDIR					NW									100.0			

Pollutant (units)	Analyzer			Notes
	Make		Model	
NO/NO <sub>2</sub> /NO <sub>x</sub>	Airpointer API		200e	Analyzer offline during January 29 O3 calibration.
O <sub>3</sub>	Airpointer API		400e	Analyzer offline during January 28 NOx calibration.
PM <sub>2.5</sub>	Sharp		5030	
ET/RH	CS		HC2-S3	
WS/WD	RMYoung		5305	Wind system failed to return valid readings November 18-19.

Jan-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	-	0.0				1.5	Jan-23 12:00	0.2	Jan-23	36.8	Jan-20		
NO <sub>2</sub> (ppb)	159				-	0.4	0			6.4	Jan-21 18:00	2.5	Jan-27	36.8	Jan-20		
NO <sub>x</sub> (ppb)					-	0.3				6.4	Jan-21 18:00	2.7	Jan-27	36.8	Jan-20		
O <sub>3</sub> (ppb)	76				-	19.7	0			44.0	Jan-25 17:00	39.0	Jan-29	36.6	Jan-20		
PM <sub>2.5</sub> (µg/m <sup>3</sup> )	80	29			3.4	0.0	0	0		66.1	Jan-01 15:00	19.0	Jan-01	100.0	Jan-20		
ET (°C)					-1.5	-24.6				17.3	Jan-14 14:00	11.4	Jan-14	99.9	-		
RH (%)					63.6	17.8				100.0	Jan-01 21:00	99.8	Jan-02	99.9	-		
WSPD (km/h)					7.8	0.1				33.7	Jan-06 16:00	20.2	Jan-14	99.9	-		
WDIR					W									99.9	-		

Pollutant (units)	Analyzer			Notes
	Make		Model	
NO/NO <sub>2</sub> /NO <sub>x</sub>	Airpointer API		200e	No data returned for 1 hour January 25.
O <sub>3</sub>	Airpointer API		400e	Analyzer returned to service January 20.
PM <sub>2.5</sub>	Sharp		5030	
ET/RH	Vaisala		WXT520	No data returned during PM calibration.
WS/WD	Vaisala		WXT520	No data returned during PM calibration.

# January 2026 NO<sub>2</sub>

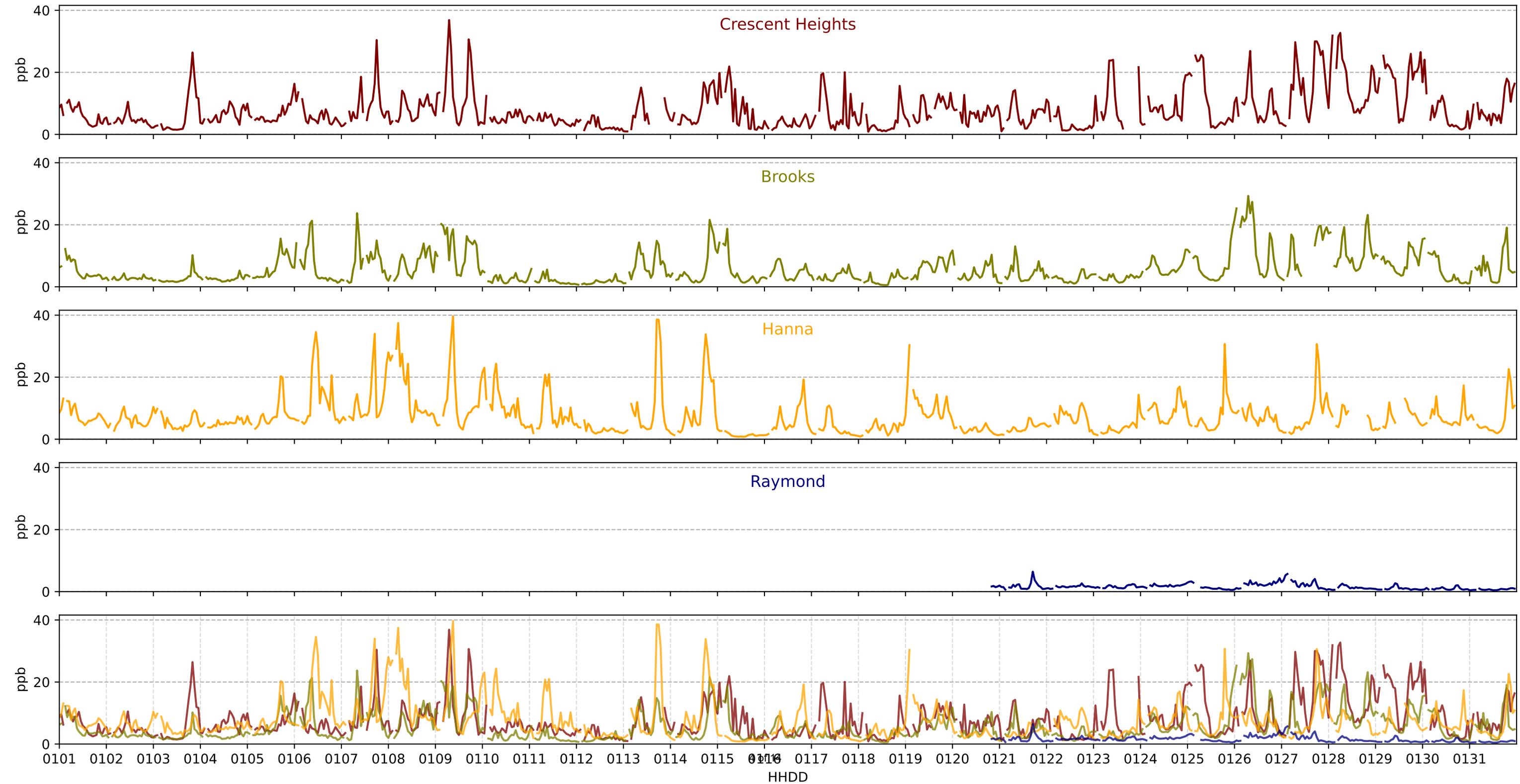
NO<sub>2</sub> AAAQO = 172 ppb

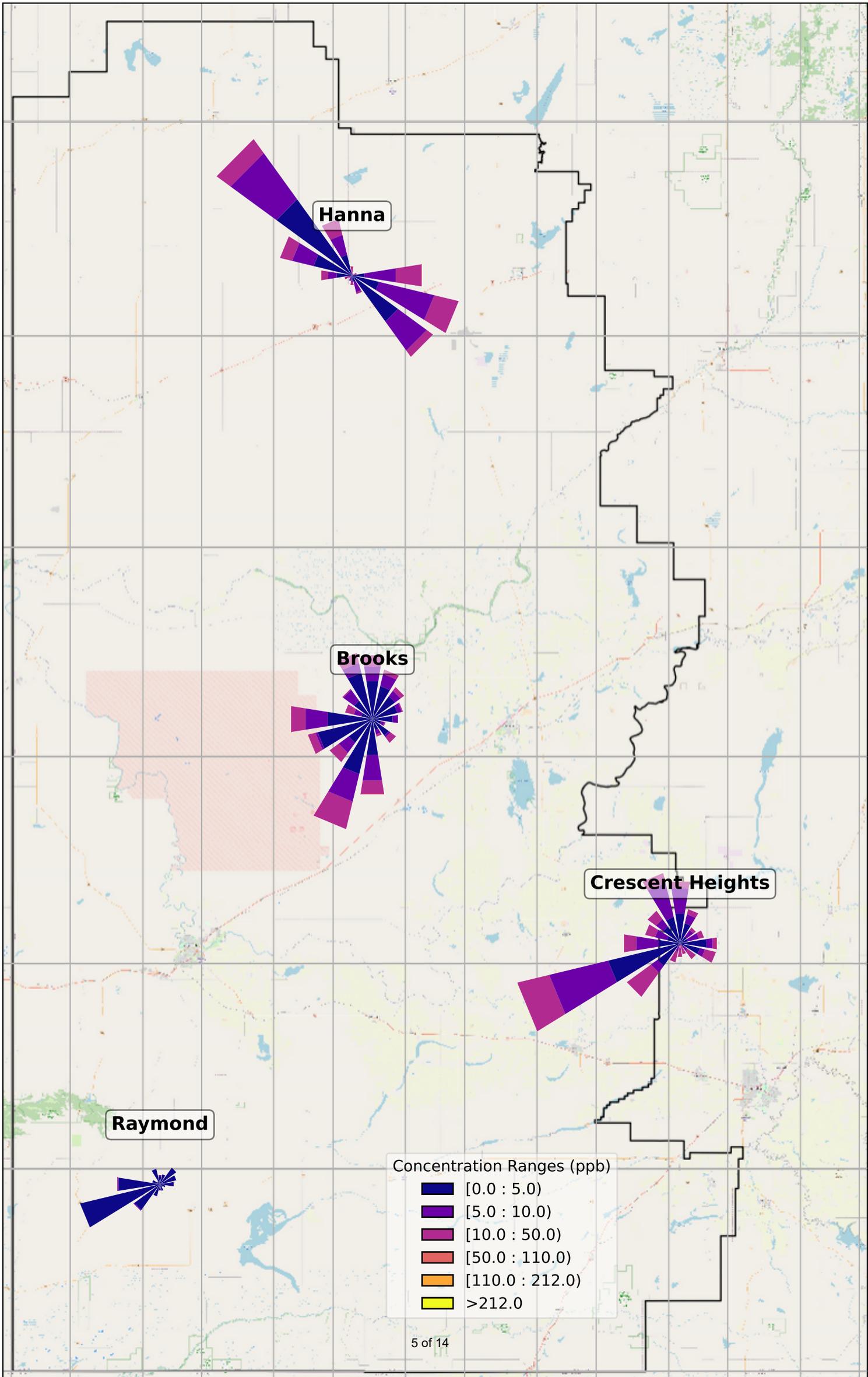
Crescent Heights

Brooks

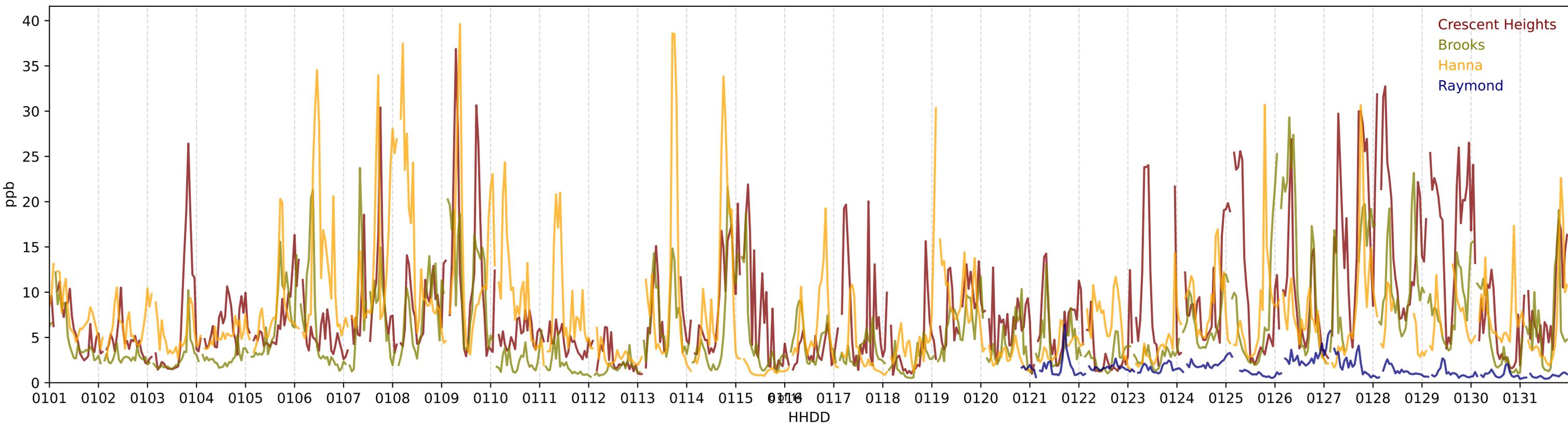
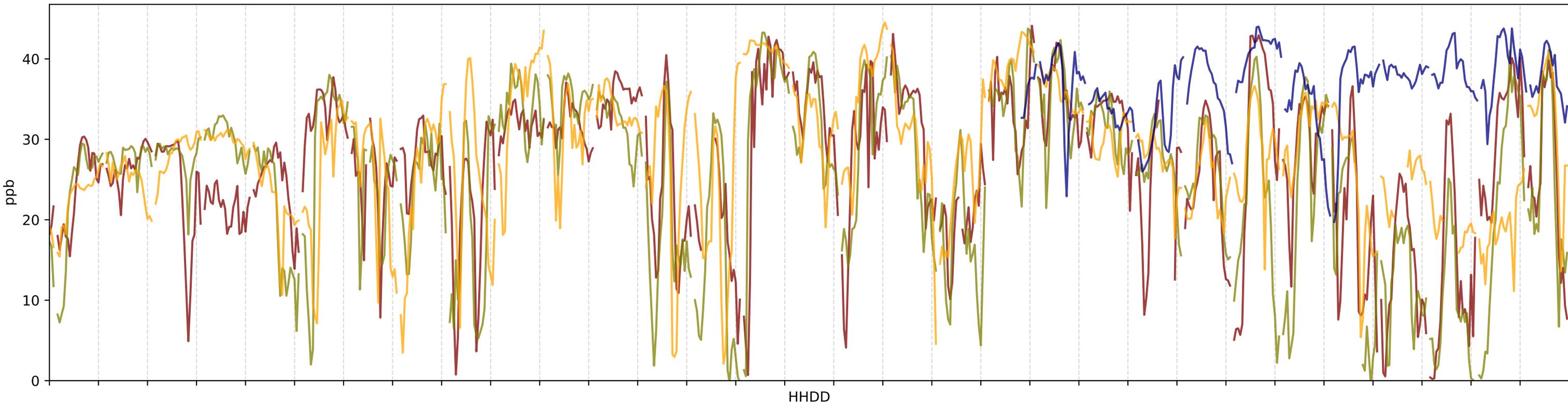
Hanna

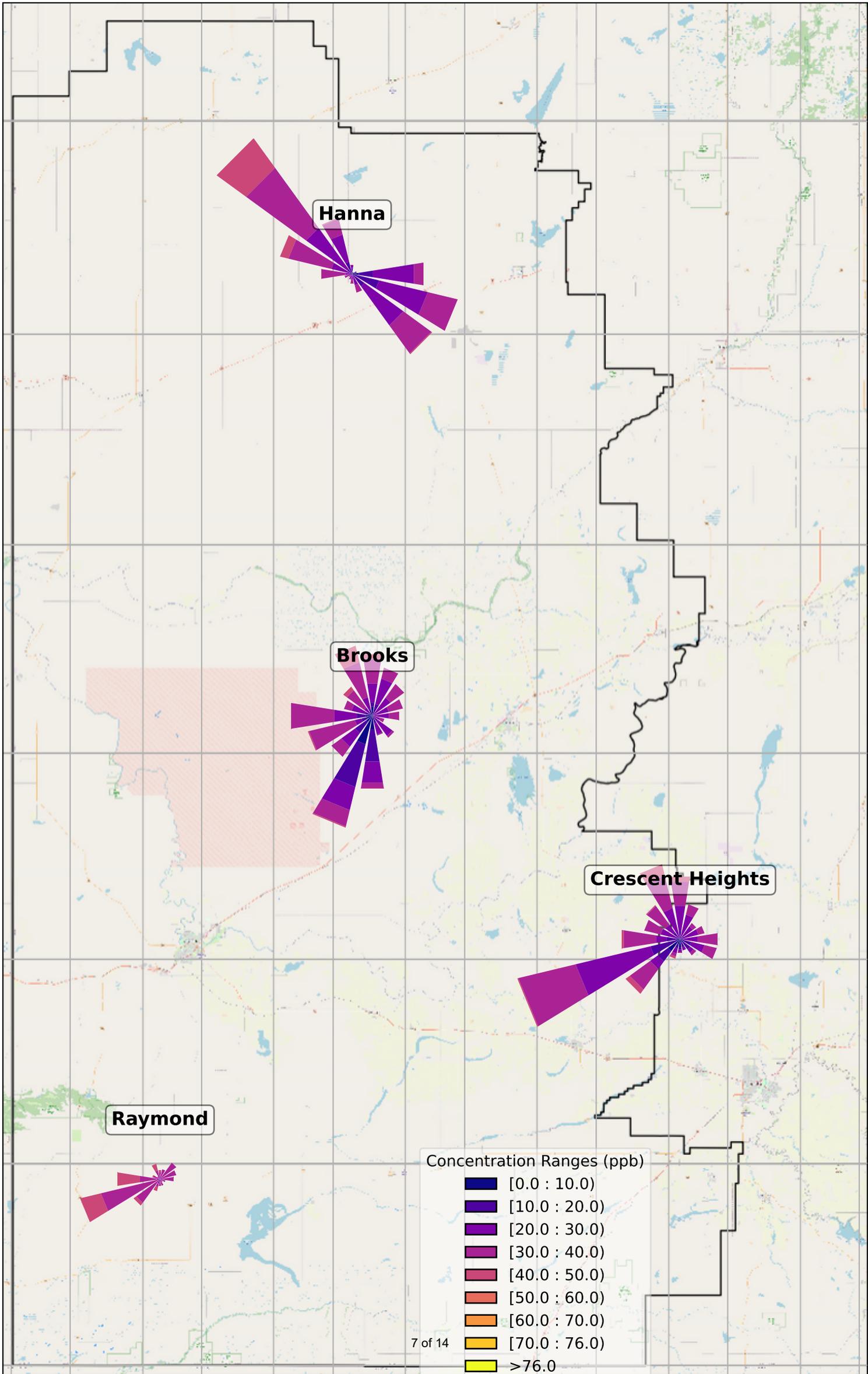
Raymond





January 2026 O<sub>3</sub> vs NO<sub>2</sub>





Hanna

Brooks

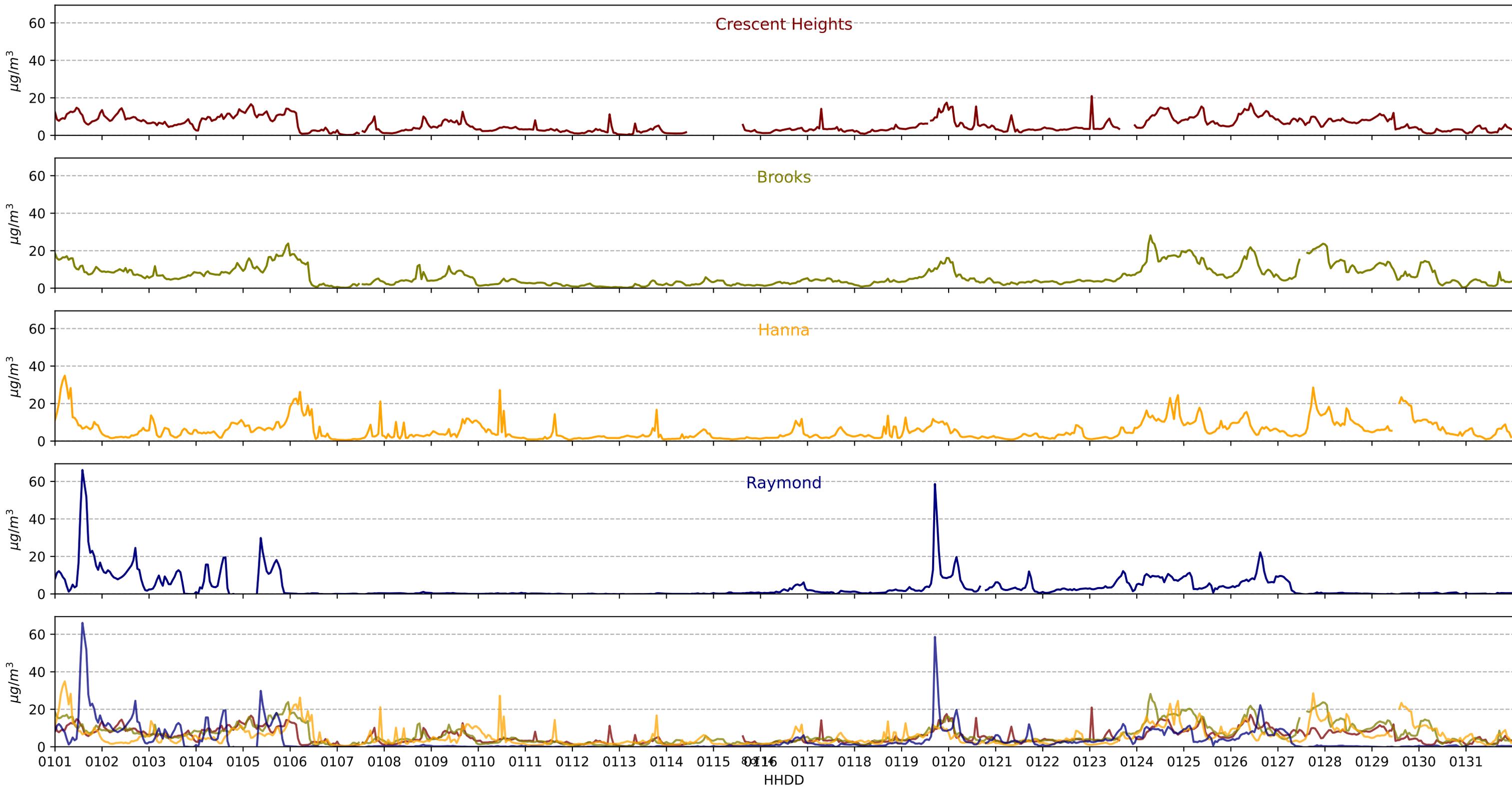
Crescent Heights

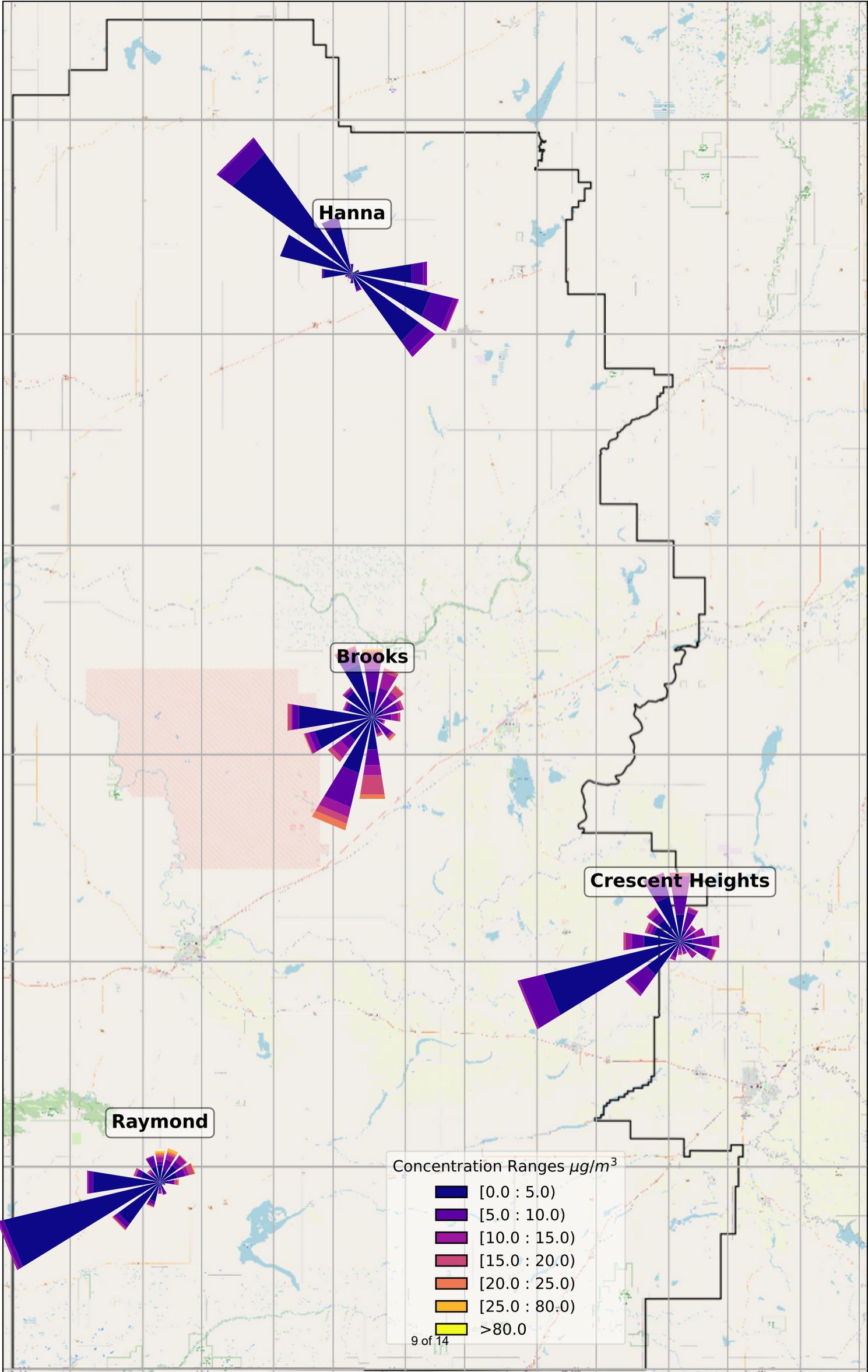
Raymond

Concentration Ranges (ppb)

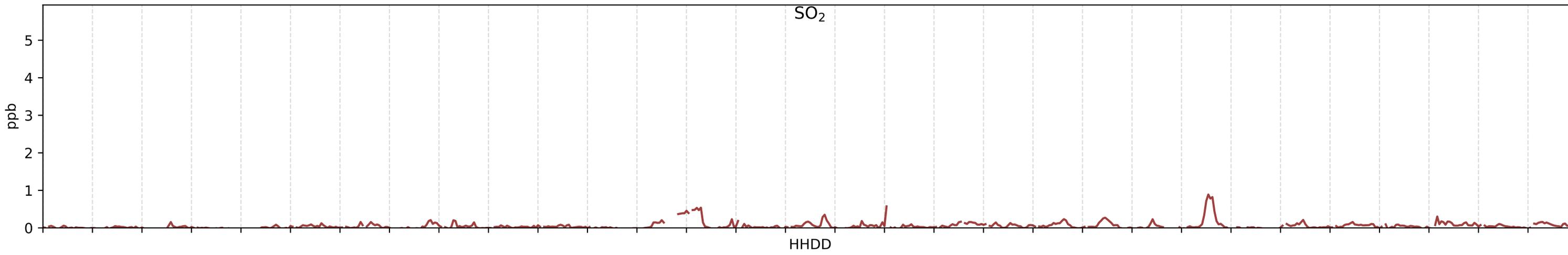
# January 2026 PM<sub>2.5</sub>

PM<sub>2.5</sub> AAAQG = 80  $\mu\text{g}/\text{m}^3$

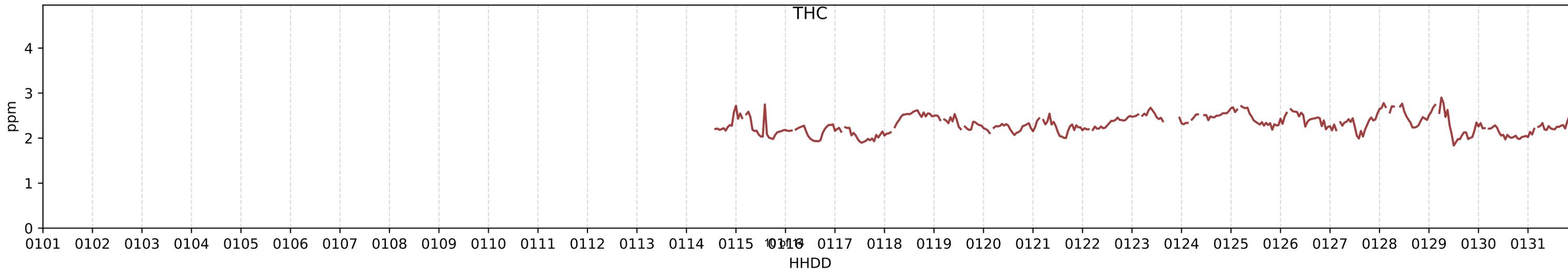
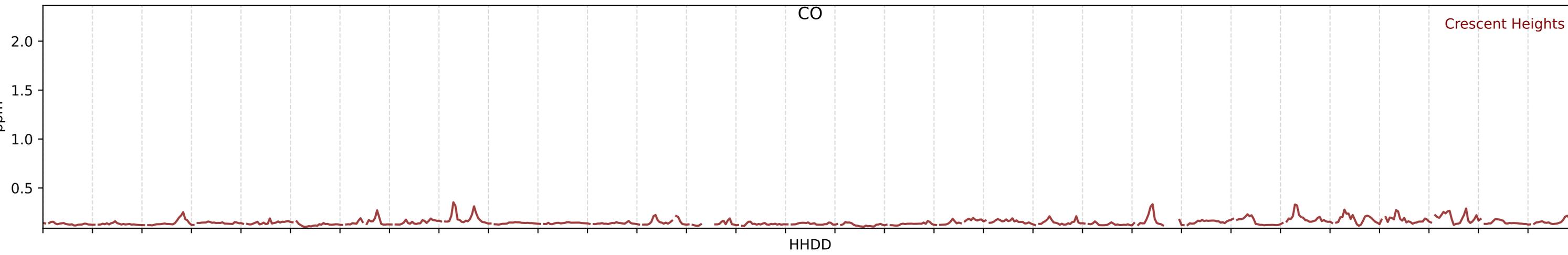




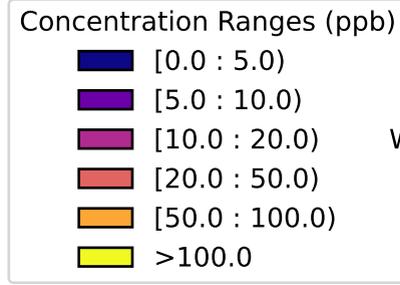
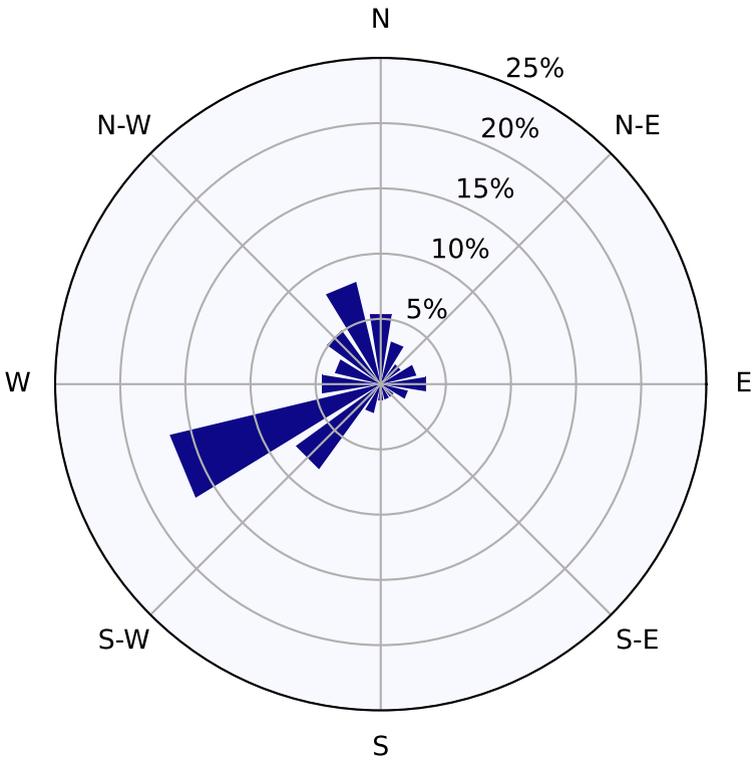
SO<sub>2</sub> AAAQO = 172 ppb



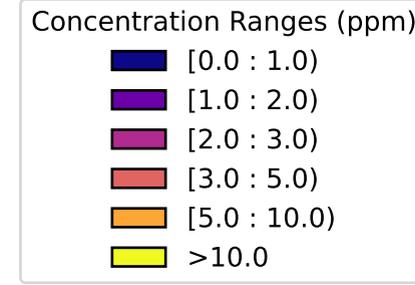
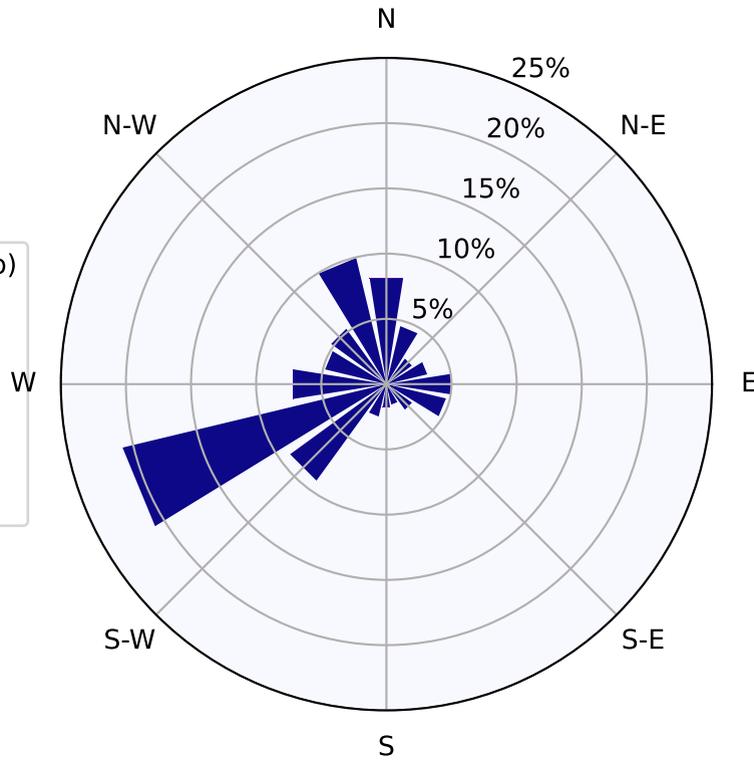
CO AAAQO = 13 ppm



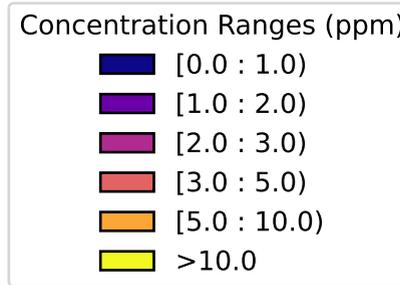
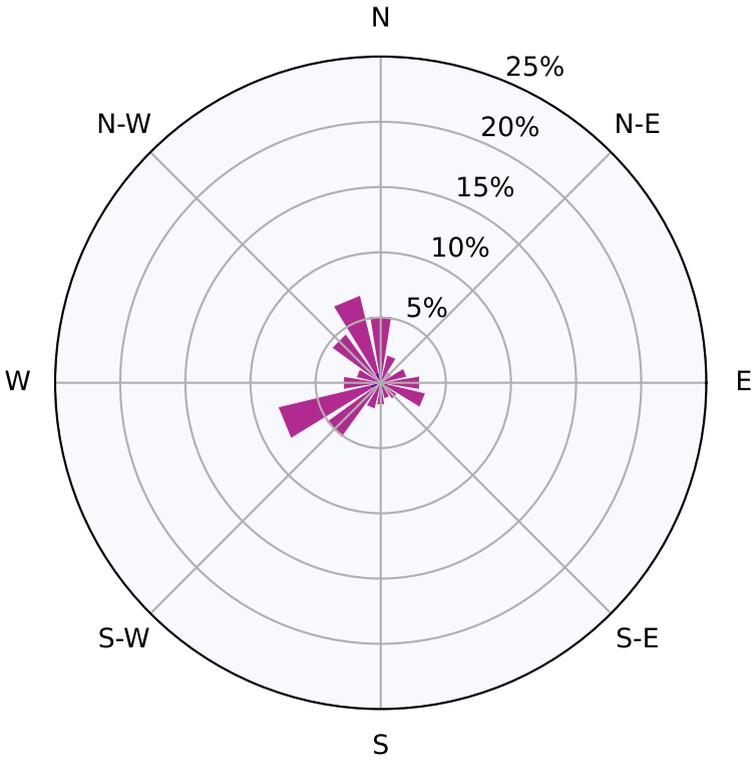
Crescent Heights SO<sub>2</sub>

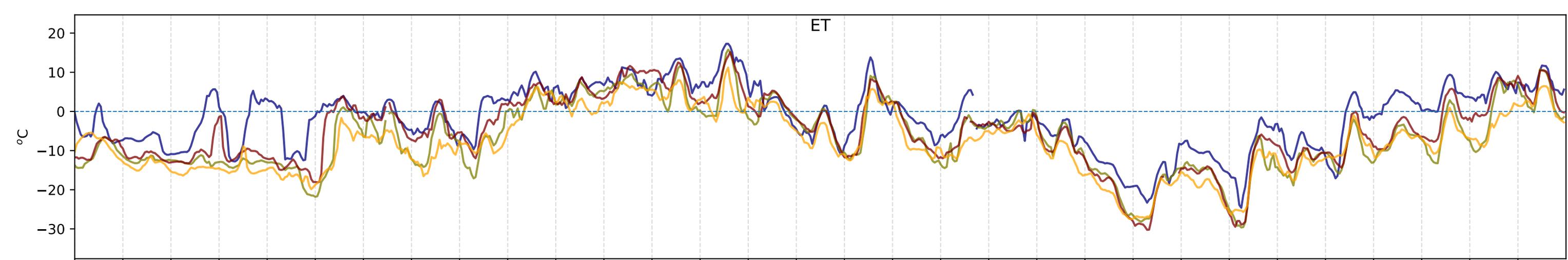


Crescent Heights CO

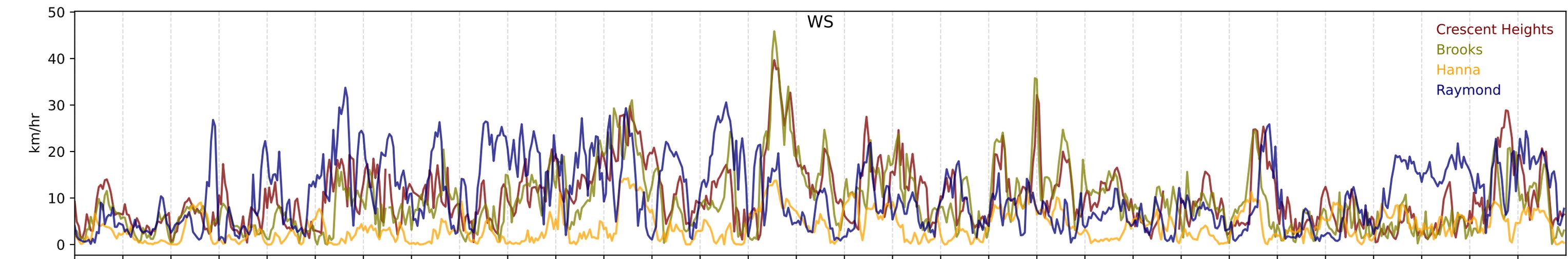


Crescent Heights THC

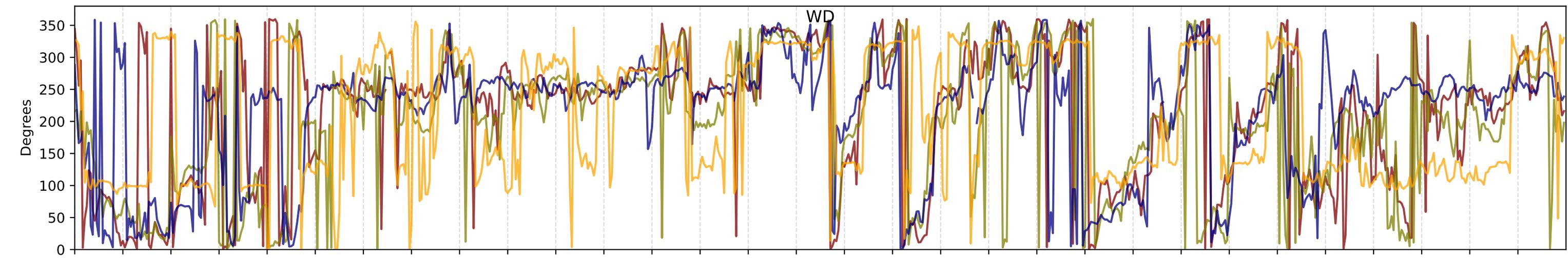




HHDD



HHDD



HHDD

