October 27, 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 – September 2026

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

AAAQO/G Exceedance Summary:
There were no exceedances of the AAAQO/G in September.

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

September 2026 Monthly Ambient Air Quality Summary

Sep-26	Palliser Airshed Society									Maximum Recorded Values					
										1-hr		24-hr / 8-hr			
Pollutant	**Objectives**			**Station**	**Monthly**	**1-Hour**	**Exceedence**			Conc	Day	Conc	Day	**Operational**	Calibration
(units)	1-hr	24-hr	30-day		**Average**	**Minimum**	1-hr	24-hr	30-day					**Time (%)**	Date
SO_2 **(ppb)**	172	48	8	Crescent Heights	0.0	0.0	0	0	0	0.9	Sep-08 10:00	0.1	Sep-08	99.7	Sep-29
NO **(ppb)**					1.4	0.0				32.0	Sep-28 07:00	5.1	Sep-18	99.9	Sep-28
NO_2 **(ppb)**	159				2.5	0.0	0			23.1	Sep-23 20:00	5.9	Sep-23	99.9	Sep-28
NO_X **(ppb)**					3.8	0.0				44.7	Sep-28 07:00	10.5	Sep-18	99.9	Sep-28
O_3 **(ppb)**	76				24.6	0.4	0			53.7	Sep-23 16:00	42.6	Sep-25	99.9	Sep-29
CO **(ppm)**					0.2	0.1				0.4	Sep-17 08:00	0.2	Sep-17	99.7	Sep-28
CO 8-Hour **(ppm)**	5				-	0.1	0			0.2	Sep-15 14:00	-	-	100.0	-
THC **(ppm)**					2.3	2.0				4.0	Sep-19 08:00	2.6	Sep-19	99.9	Sep-28
$PM_{2.5}$ **(µg/m^3)**	80	29			4.7	0.4	0	0		26.7	Sep-22 22:00	11.0	Sep-23	99.9	Sep-28
ET **(°C)**					15.3	2.0				31.6	Sep-25 16:00	23.9	Sep-25	99.9	-
RH **(%)**					63.6	12.5				100.0	Sep-05 08:00	100.0	Sep-07	99.9	-
GSR **(W/m^2)**					156.0	0.0				721.1	Sep-01 12:00	239.0	Sep-01	99.9	-
WSPD **(km/h)**					3.3	0.3				33.9	Sep-02 19:00	16.3	Sep-25	99.9	12/05/26
WDIR					SW									99.9	

Pollutant	Analyzer			Notes
(units)	Make		Model	Logger offline for 1 hour for updates September 14.
SO_2	TEI		43i-TLE	Manual span check September 28.
$NO/NO_2/NOx$	TEI		42i	
O_3	TECO		49i	
CO	TEI		48i-TLE	Manual span check September 29.
THC	TECO		51C-LT	
$PM_{2.5}$	API		T640	
ET/RH	RMYoung		41382VC	
GSR	Pyranometer		PY45774	
WS/WD	RMYoung		5305	

Sep-26	Palliser Airshed Society									Maximum Recorded Values					
										1-hr		24-hr / 8-hr			
Pollutant	**Objectives**			**Station**	**Monthly**	**1-Hour**	**Exceedence**			Conc	Day	Conc	Day	**Operational**	Calibration
(units)	1-hr	24-hr	30-day		**Average**	**Minimum**	1-hr	24-hr	30-day					**Time (%)**	Date
NO **(ppb)**				Brooks Meadowplace	0.5	0.0				18.6	Sep-28 08:00	3.3	Sep-28	99.9	Sep-24
NO_2 **(ppb)**	159				3.0	0.2	0			15.9	Sep-18 07:00	6.7	Sep-18	99.9	Sep-24
NO_X **(ppb)**					3.4	0.0				29.4	Sep-28 08:00	8.4	Sep-18	99.9	Sep-24
O_3 **(ppb)**	76				22.9	0.4	0			54.9	Sep-23 16:00	34.8	Sep-03	99.9	Sep-25
$PM_{2.5}$ **(µg/m^3)**	80	29			6.4	0.6	0	0		25.4	Sep-01 21:00	13.7	Sep-24	99.9	Sep-24
ET **(°C)**					13.3	-2.0				30.3	Sep-25 15:00	18.6	Sep-01	99.9	-
RH **(%)**					73.5	22.2				100.0	Sep-05 23:00	100.0	Sep-07	99.9	-
WSPD **(km/h)**					2.3	0.3				29.9	Sep-14 16:00	17.7	Sep-07	99.9	30/07/26
WDIR					WSW									99.9	

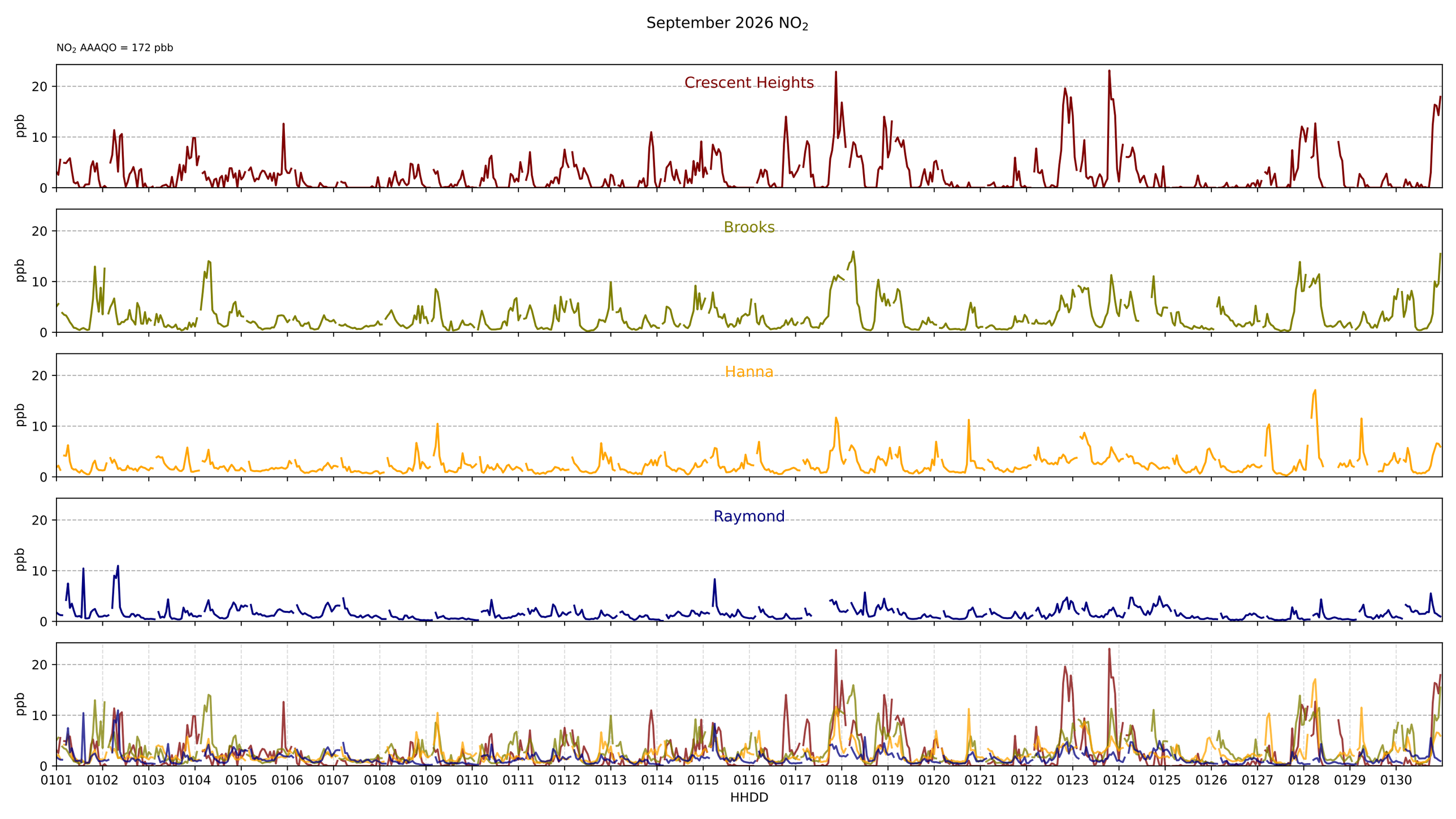
Pollutant	Analyzer			Notes
(units)	Make		Model	Logger offline for 1 hour for updates September 14.
$NO/NO_2/NOx$	TEI		42iQ	
O_3	TEI		49iQ	
$PM_{2.5}$	API		T640	
ET/RH	CS		HC2-S3	
WS/WD	RMYoung		5305	

Sep-26	Palliser Airshed Society				Maximum Recorded Values										
										1-hr		24-hr / 8-hr			
Pollutant	**Objectives**			**Station**	**Monthly**	**1-Hour**	**Exceedence**			Conc	Day	Conc	Day	**Operational**	Calibration
(units)	1-hr	24-hr	30-day		**Average**	**Minimum**	1-hr	24-hr	30-day					**Time (%)**	Date
NO **(ppb)**				Hanna Airpointer	1.0	0.0				15.5	Sep-28 07:00	1.6	Sep-09	99.3	Sep-28
NO_2 **(ppb)**	159				2.3	0.2	0			17.1	Sep-28 07:00	4.5	Sep-23	99.3	Sep-28
NO_X **(ppb)**					3.3	0.1				32.6	Sep-28 07:00	5.5	Sep-23	99.3	Sep-28
O_3 **(ppb)**	76				23.4	4.1	0			46.3	Sep-19 18:00	31.6	Sep-19	98.9	Sep-29
$PM_{2.5}$ **(µg/m^3)**	80	29			4.9	0.0	0	0		41.2	Sep-25 18:00	10.6	Sep-25	100.0	Sep-29
ET **(°C)**					12.9	1.2				27.5	Sep-01 17:00	19.2	Sep-02	100.0	-
RH **(%)**					66.6	22.8				97.2	Sep-21 08:00	95.0	Sep-07	100.0	-
WSPD **(km/h)**					0.3	0.0				16.8	Sep-25 19:00	7.6	Sep-25	100.0	17/07/26
WDIR					ESE									100.0	

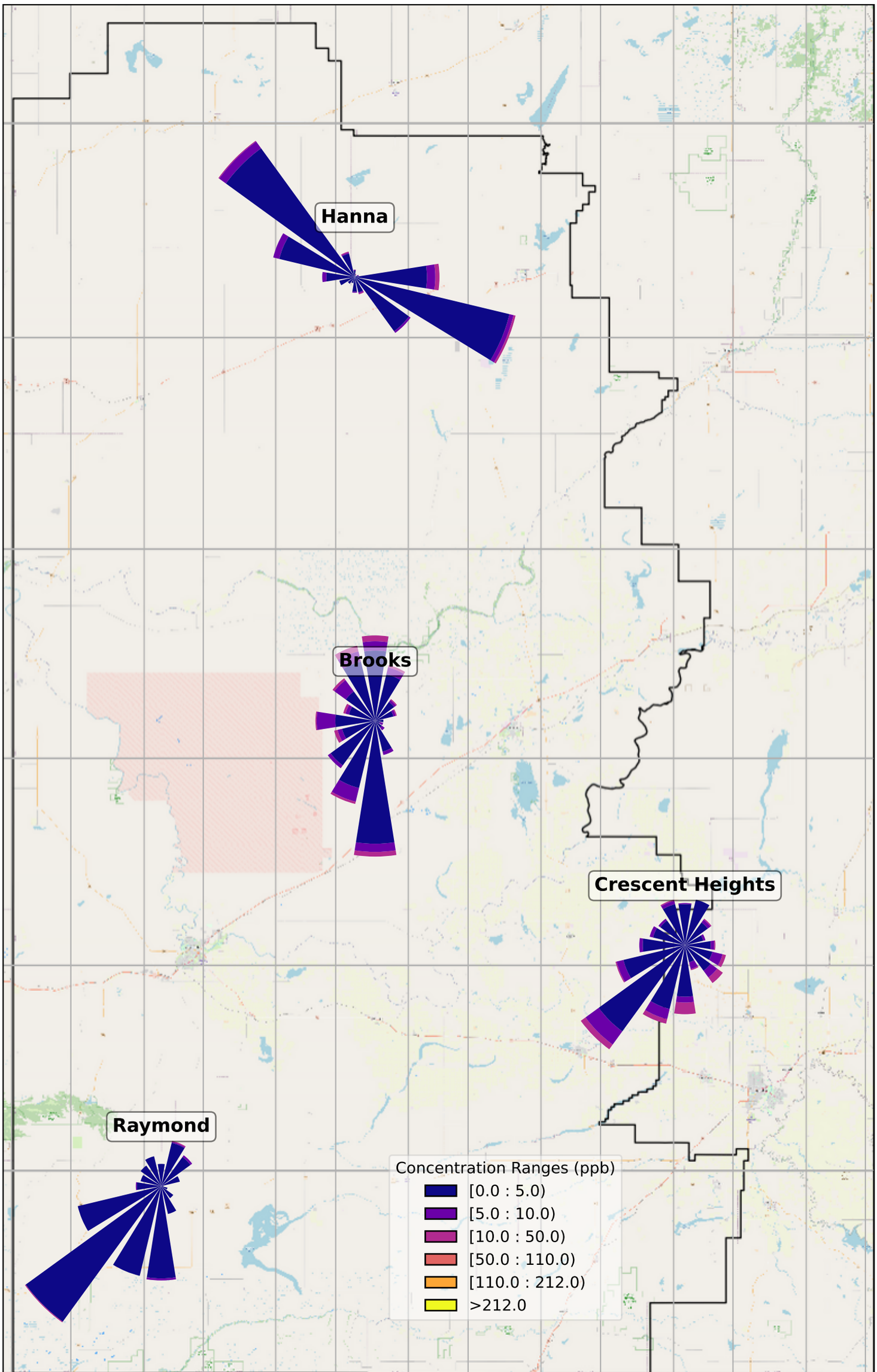
Pollutant	Analyzer			Notes
(units)	Make		Model	
$NO/NO_2/NOx$	Airpointer API		200e	Analyzer offline during September 29 O_3 calibration.
O_3	Airpointer API		400e	Analyzer offline during September 28 NOx calibration. Manual span check September 26.
$PM_{2.5}$	Sharp		5030	
ET/RH	CS		HC2-S3	
WS/WD	RMYoung		5305	

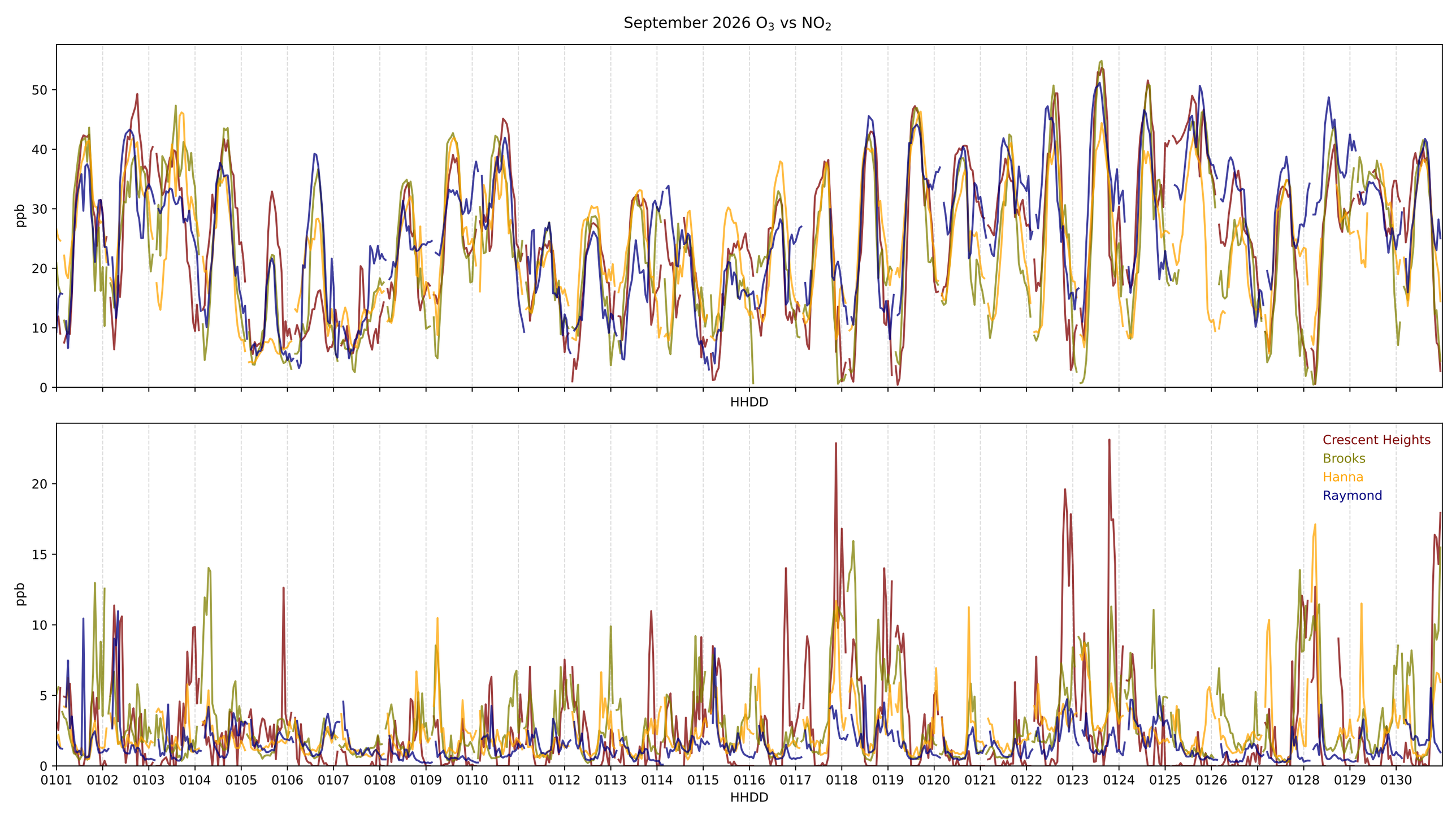
Sep-26	Palliser Airshed Society				Maximum Recorded Values										
										1-hr		24-hr / 8-hr			
Pollutant	**Objectives**			**Station**	**Monthly**	**1-Hour**	**Exceedence**			Conc	Day	Conc	Day	**Operational**	Calibration
(units)	1-hr	24-hr	30-day		**Average**	**Minimum**	1-hr	24-hr	30-day					**Time (%)**	Date
NO **(ppb)**				Raymond Airpointer	0.3	0.0				12.3	Sep-15 07:00	0.9	Sep-18	100.0	Sep-17
NO_2 **(ppb)**	159				1.5	0.1	0			11.0	Sep-02 09:00	2.6	Sep-24	100.0	Sep-17
NO_X **(ppb)**					1.7	0.0				20.6	Sep-15 07:00	3.2	Sep-18	100.0	Sep-17
O_3 **(ppb)**	76				25.9	3.0	0			51.2	Sep-23 15:00	37.1	Sep-25	100.0	Sep-17
$PM_{2.5}$ **(µg/m^3)**	80	29			4.9	0.0	0	0		34.4	Sep-01 15:00	9.9	Sep-24	100.0	Sep-17
ET **(°C)**					13.3	-0.5				29.3	Sep-01 16:00	18.7	Sep-01	100.0	-
RH **(%)**					65.7	16.1				100.0	Sep-06 05:00	99.0	Sep-07	100.0	-
WSPD **(km/h)**					4.5	0.0				32.3	Sep-26 11:00	14.5	Sep-26	100.0	-
WDIR					SW									100.0	-

Pollutant	Analyzer			Notes
(units)	Make		Model	
$NO/NO_2/NOx$	Airpointer API		200e	
O_3	Airpointer API		400e	
$PM_{2.5}$	Sharp		5030	
ET/RH	Vaisala		WXT520	
WS/WD	Vaisala		WXT520	

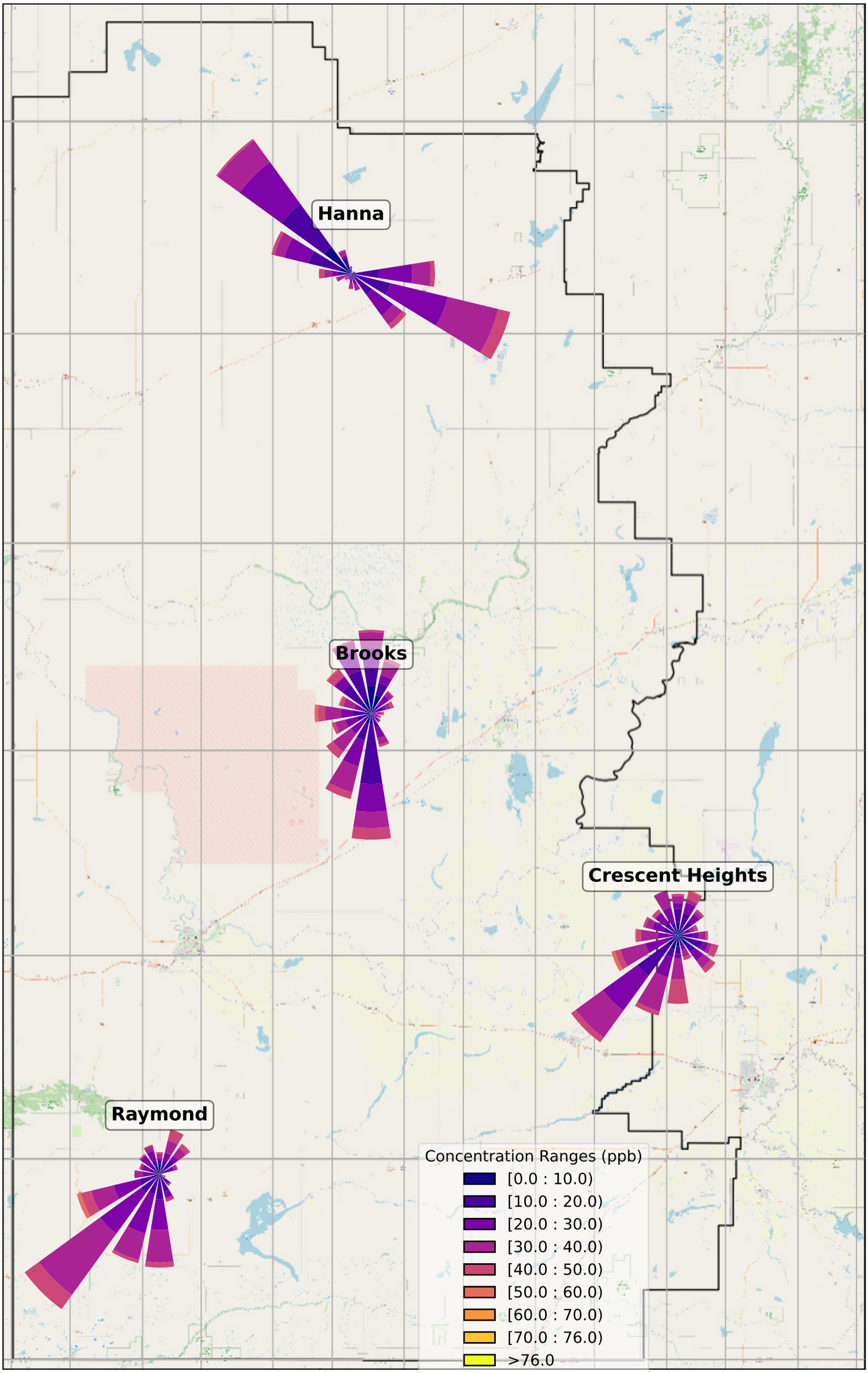

September 2026 NO2
NO2 AAAQO = 172 pbb
Crescent Heights
Brooks
Hanna
Raymond
ppb
0
10
20
0101
0102
0103
0104
0105
0106
0107
0108
0109
0110
0111
0112
0113
0114
0115
0116
0117
0118
0119
0120
0121
0122
0123
0124
0125
0126
0127
0128
0129
0130
HHDD

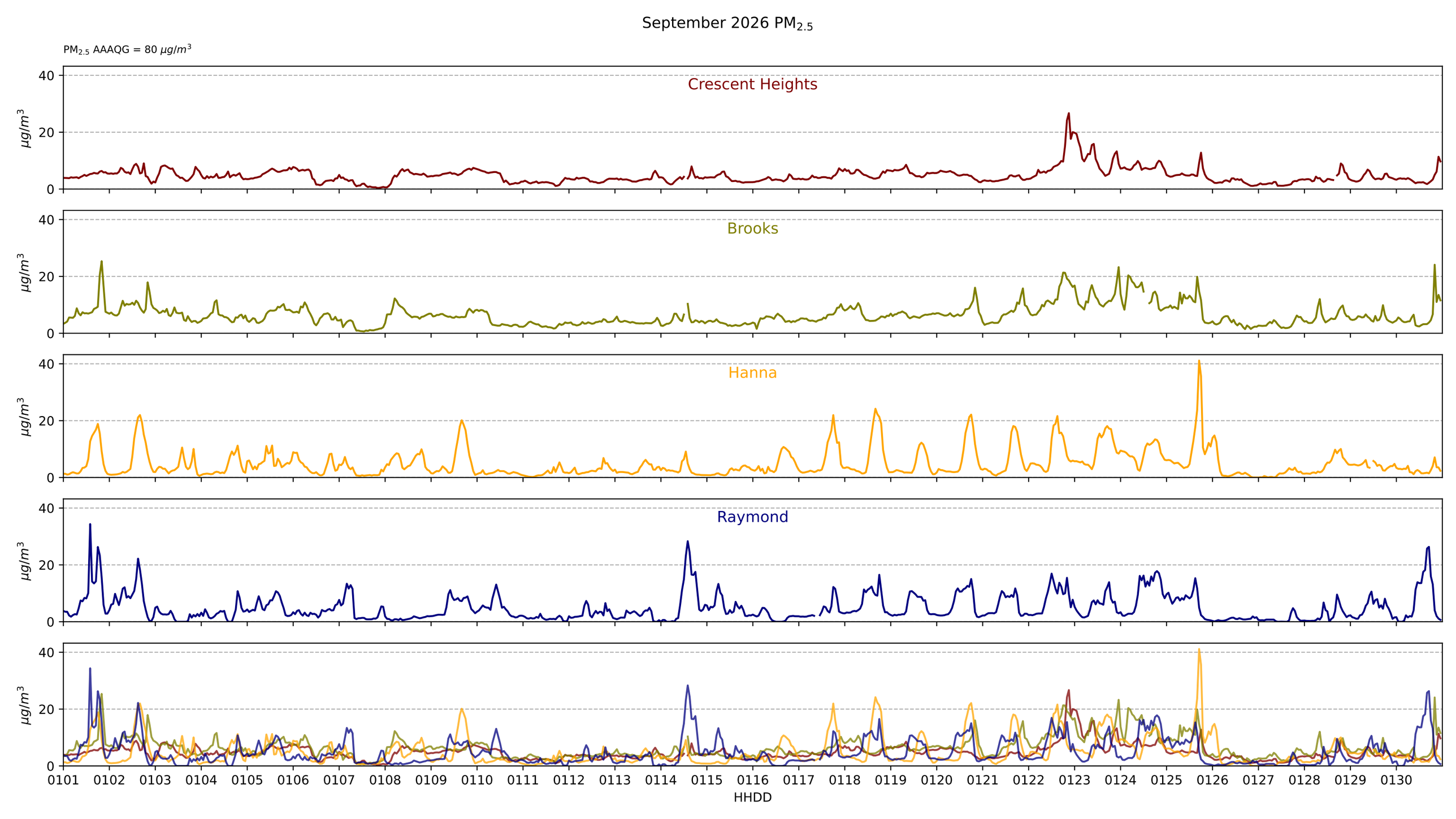
September 2026 NO_2 Roses



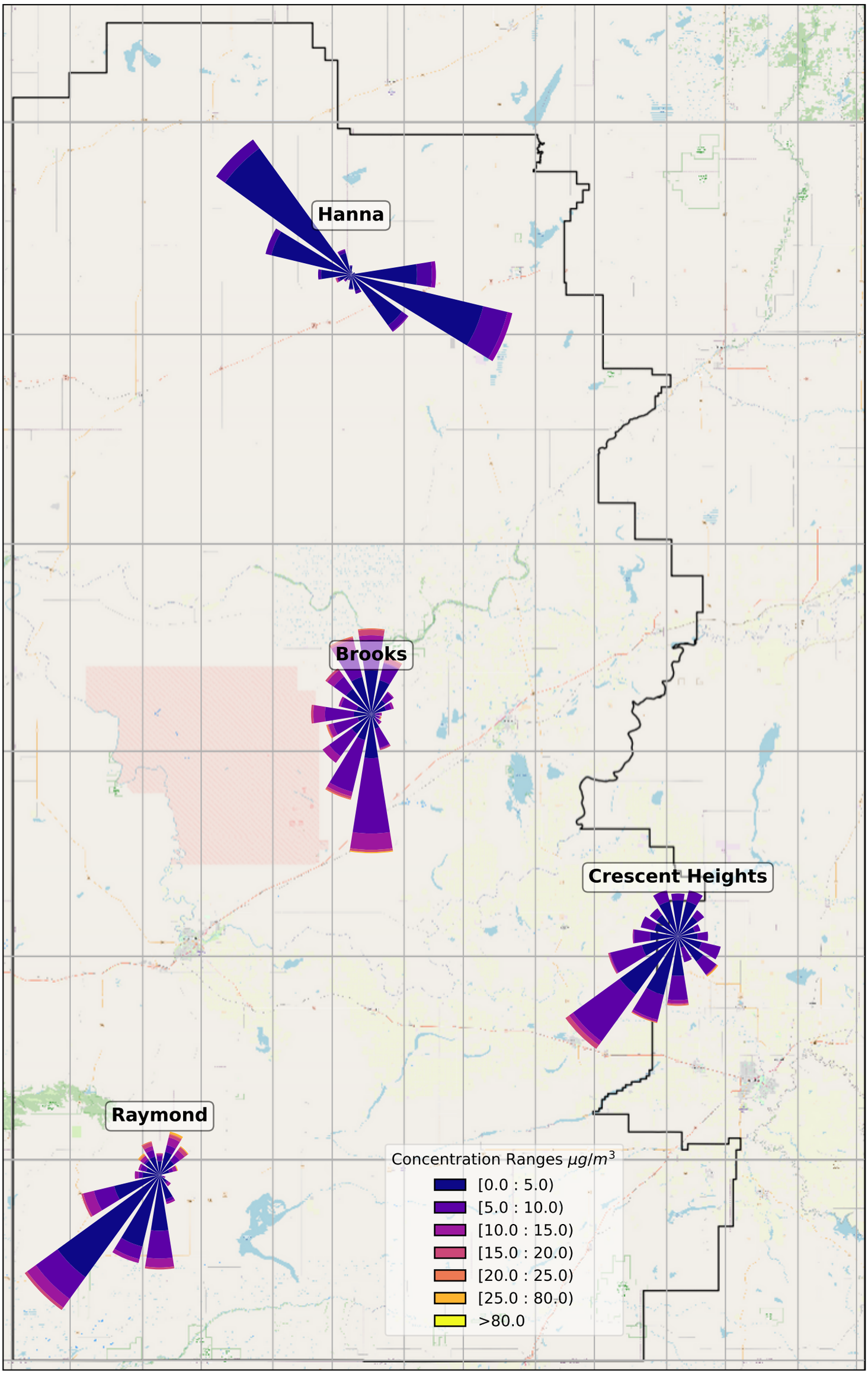

September 2026 O_3 vs NO_2
ppb
HHDD
Crescent Heights
Brooks
Hanna
Raymond
0101 0102 0103 0104 0105 0106 0107 0108 0109 0110 0111 0112 0113 0114 0115 0116 0117 0118 0119 0120 0121 0122 0123 0124 0125 0126 0127 0128 0129 0130

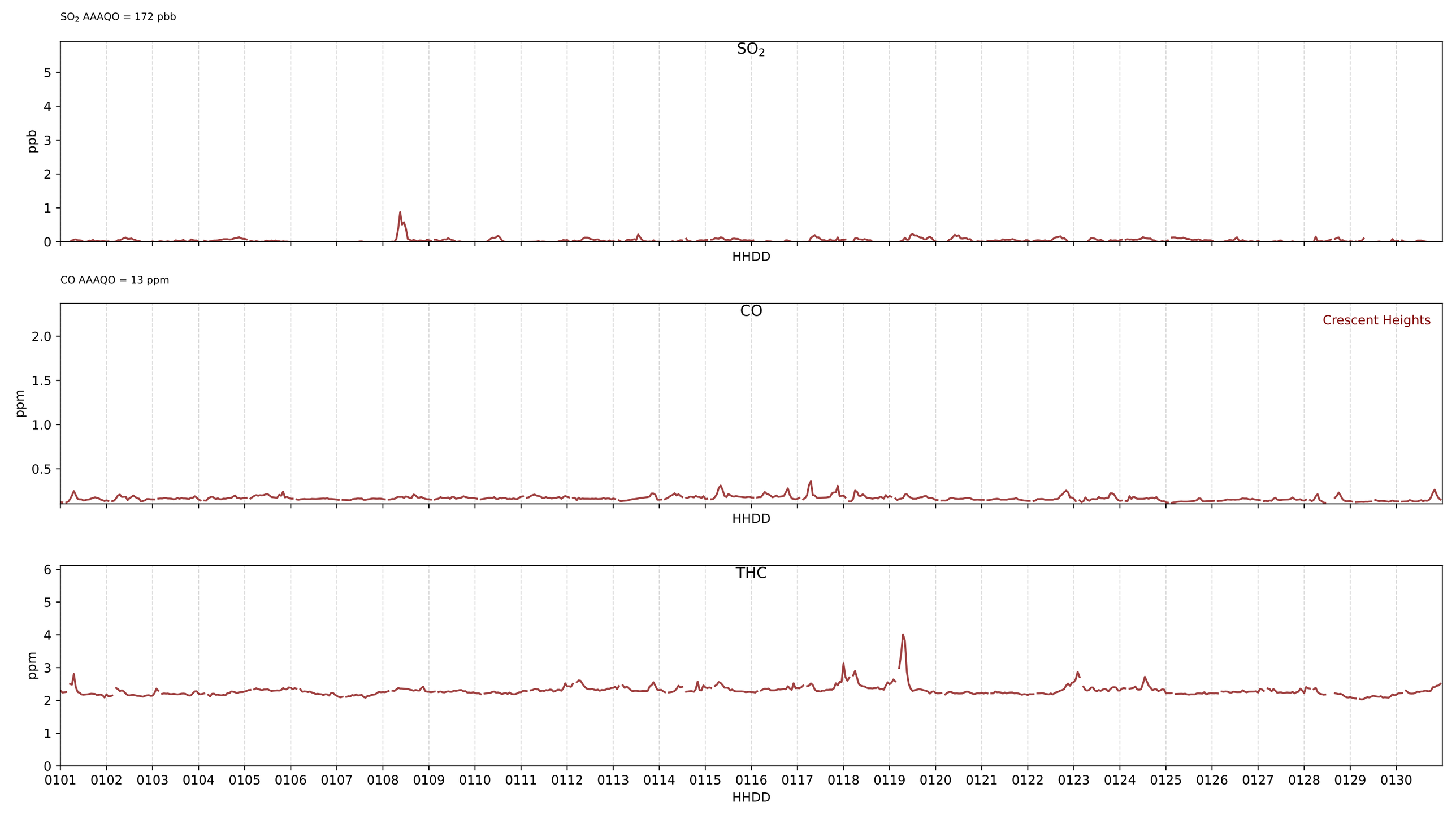
September 2026 O_3 Roses




September 2026 PM2.5
PM2.5 AAAQG = 80 µg/m3
Crescent Heights
Brooks
Hanna
Raymond
µg/m3
0
20
40
0101
0102
0103
0104
0105
0106
0107
0108
0109
0110
0111
0112
0113
0114
0115
0116
0117
0118
0119
0120
0121
0122
0123
0124
0125
0126
0127
0128
0129
0130
HHDD

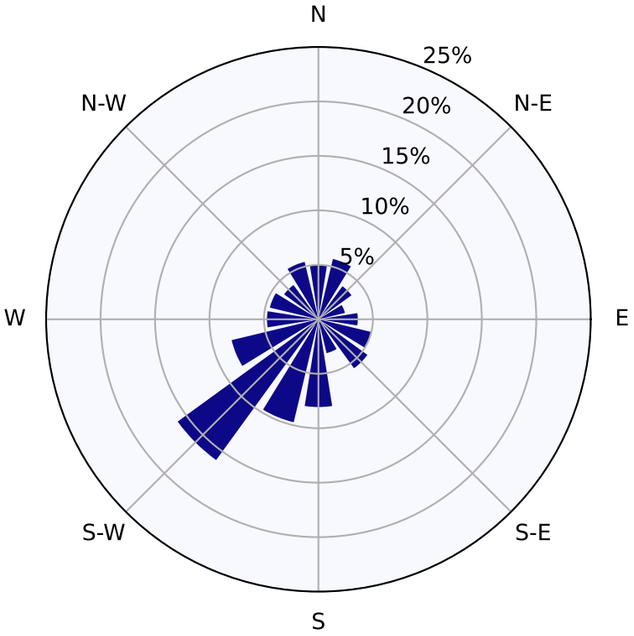
September 2026 $PM_{2.5}$ Roses

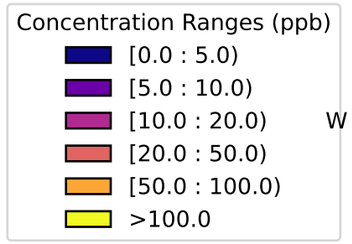



SO2 AAAQO = 172 pbb
SO2
ppb
HHDD
CO AAAQO = 13 ppm
CO
Crescent Heights
ppm
HHDD
THC
ppm
HHDD
0101 0102 0103 0104 0105 0106 0107 0108 0109 0110 0111 0112 0113 0114 0115 0116 0117 0118 0119 0120 0121 0122 0123 0124 0125 0126 0127 0128 0129 0130

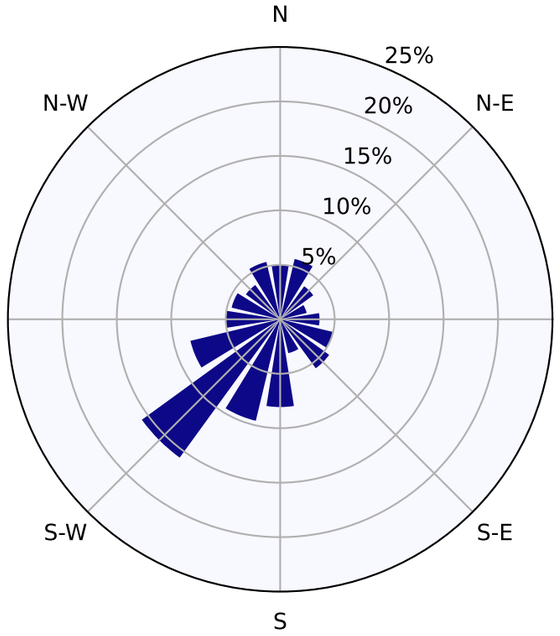
September 2026

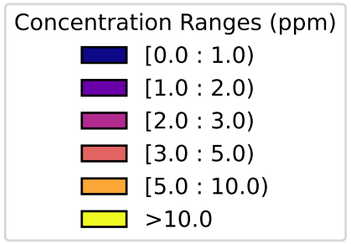
Crescent Heights SO_2



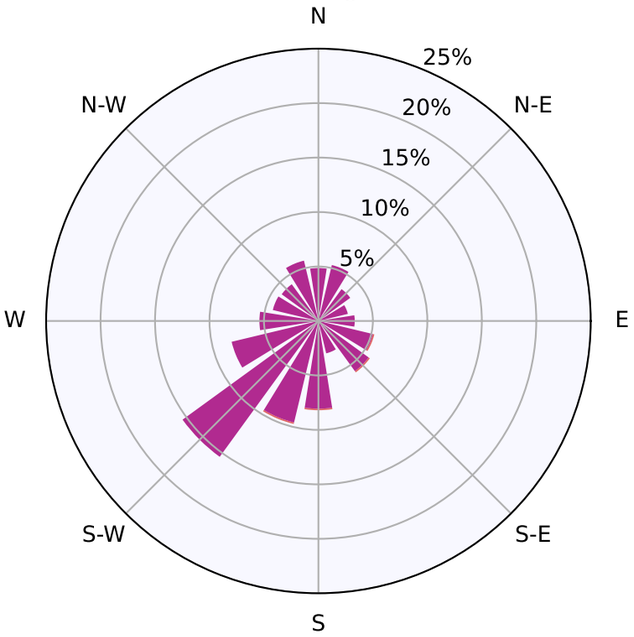


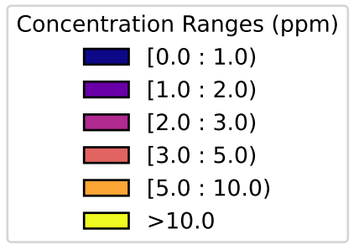
Crescent Heights CO

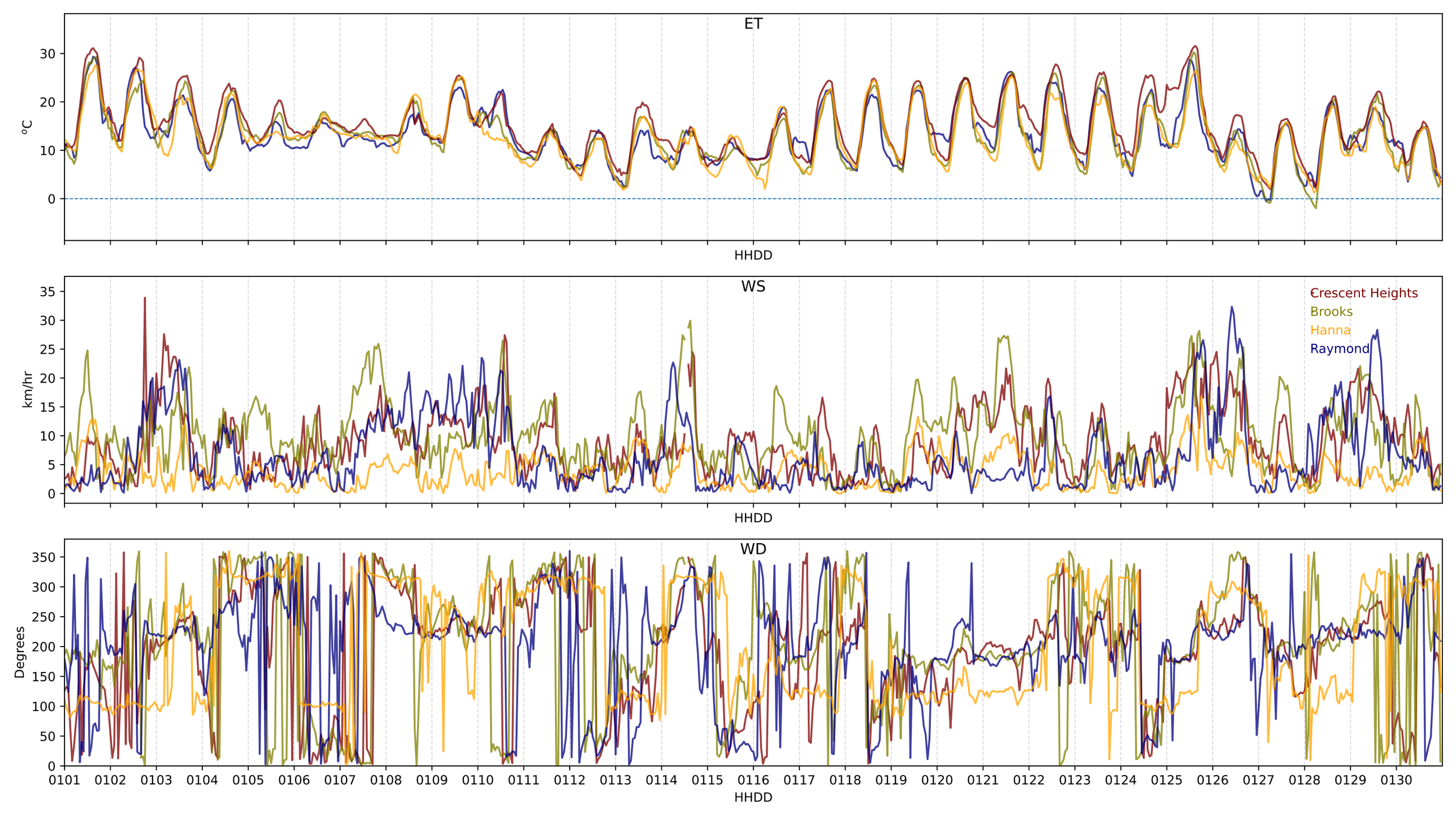




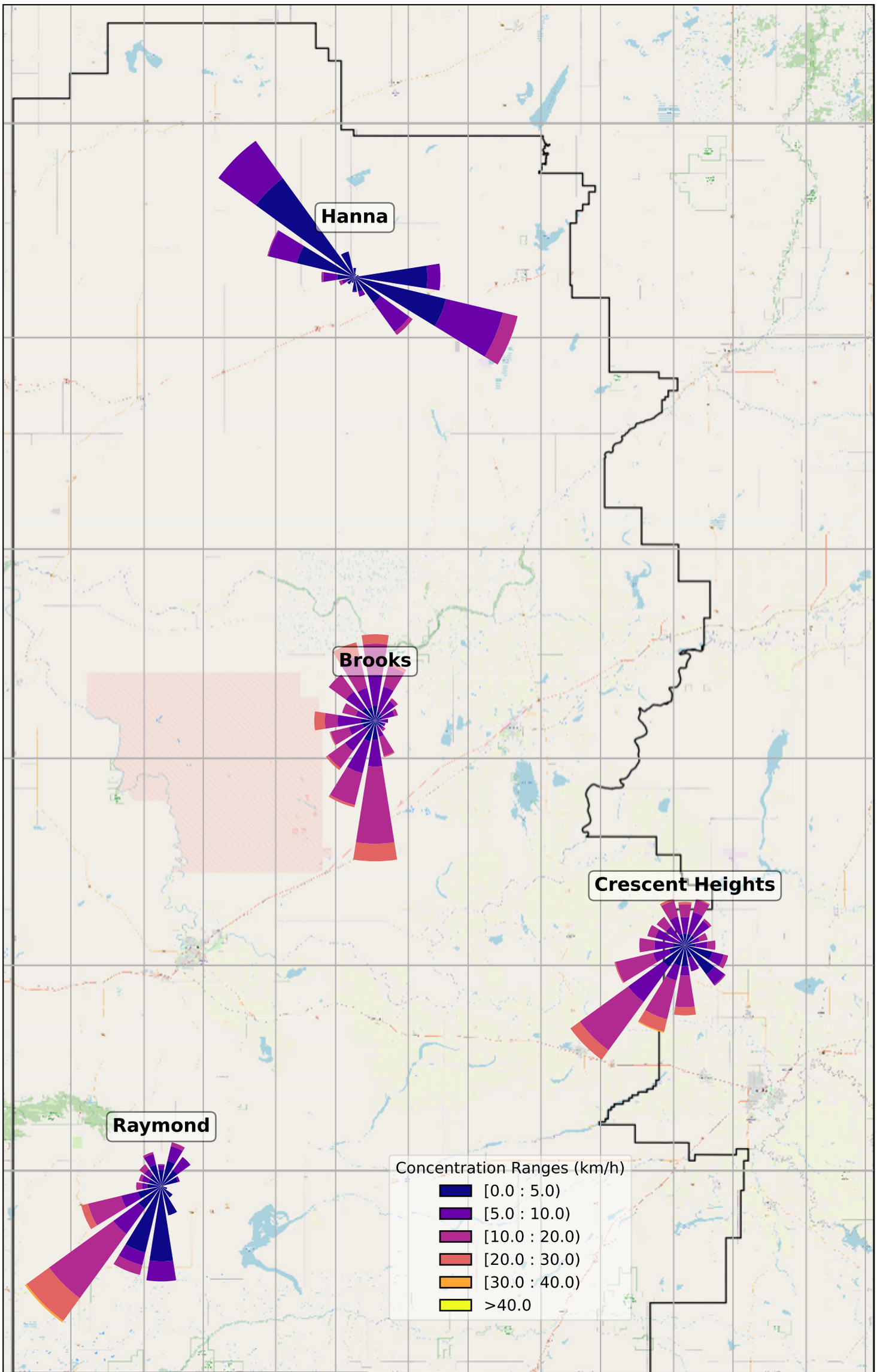
Crescent Heights THC

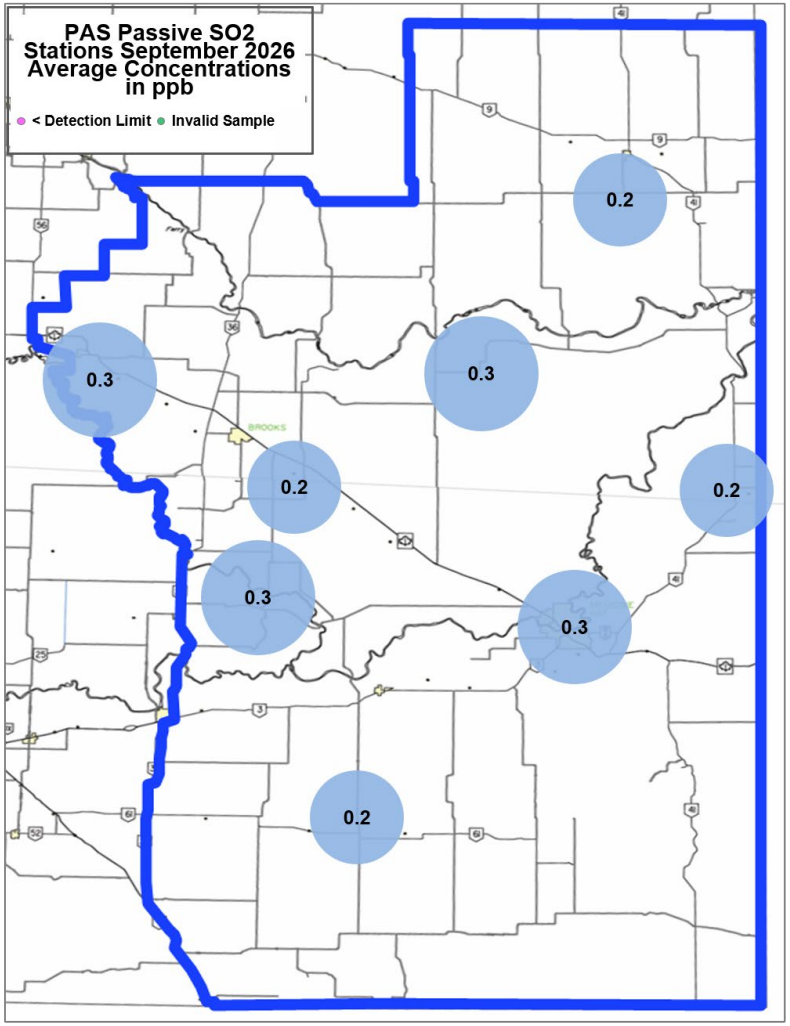


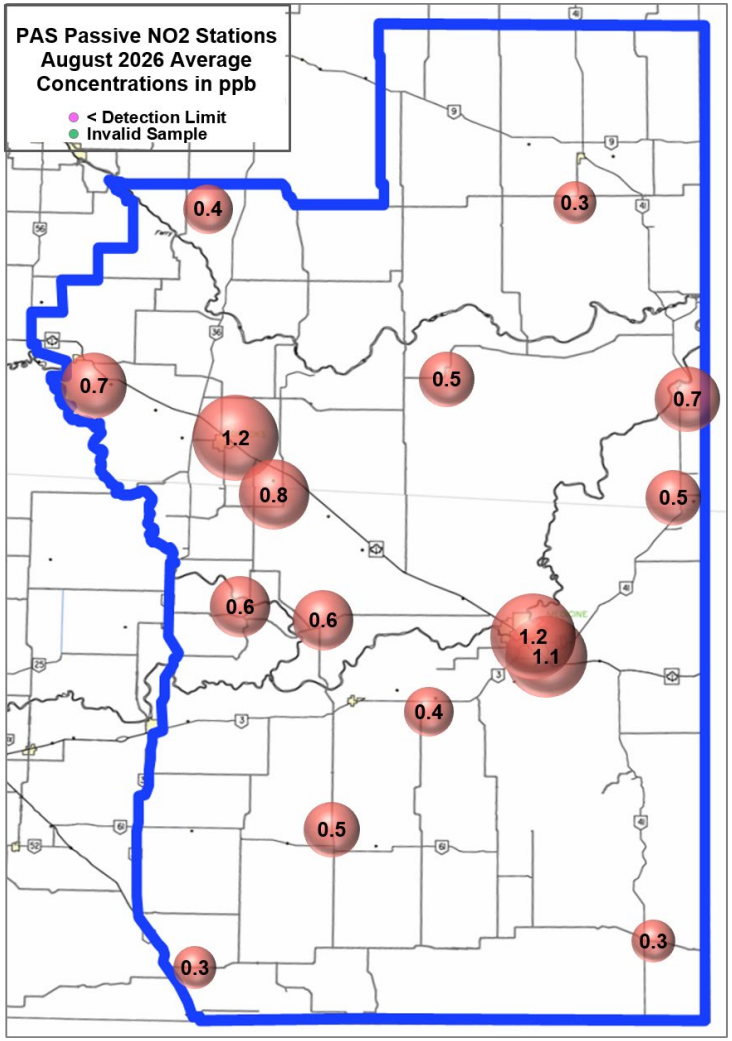



ET
°C
HHDD
WS
km/hr
HHDD
Crescent Heights
Brooks
Hanna
Raymond
WD
Degrees
HHDD
0101 0102 0103 0104 0105 0106 0107 0108 0109 0110 0111 0112 0113 0114 0115 0116 0117 0118 0119 0120 0121 0122 0123 0124 0125 0126 0127 0128 0129 0130

September 2026 WS Roses




PAS Passive SO2 Stations September 2026 Average Concentrations in ppb
< Detection Limit
Invalid Sample
0.2
0.3
0.3
0.2
0.2
0.3
0.3
0.2


PAS Passive NO2 Stations August 2026 Average Concentrations in ppb
< Detection Limit
Invalid Sample
0.4
0.3
0.7
0.5
0.7
1.2
0.8
0.5
0.6
0.6
1.2
1.1
0.4
0.5
0.3
0.3