

July 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 – June 2026**

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

**AAAQO/G Exceedance Summary:**

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

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

**X** *Patrick Andersen*

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Patrick Andersen, B.Sc.  
WSP AQM Data Specialist

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Lenin Flores  
Project Manager

# June 2026 Monthly Ambient Air Quality Summary

| Jun-26<br>Palliser Airshed Society |            |       |        |                  |                    |                   |            |       |        | Maximum Recorded Values |              |              |        |                         |                     |          |
|------------------------------------|------------|-------|--------|------------------|--------------------|-------------------|------------|-------|--------|-------------------------|--------------|--------------|--------|-------------------------|---------------------|----------|
| Pollutant<br>(units)               | Objectives |       |        | Station          | Monthly<br>Average | 1-Hour<br>Minimum | Exceedence |       |        | 1-hr                    |              | 24-hr / 8-hr |        | Operational<br>Time (%) | Calibration<br>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 | 0.0                | 0.0               | 0          | 0     | 0      | 0.8                     | Jun-22 07:00 | 0.1          | Jun-22 | 99.6                    | Jun-05              |          |
| NO (ppb)                           |            |       |        |                  | 0.7                | 0.0               |            |       |        |                         | 11.5         | Jun-04 08:00 | 1.5    | Jun-01                  | 99.9                | Jun-04   |
| NO <sub>2</sub> (ppb)              | 159        |       |        |                  | 1.8                | 0.0               | 0          |       |        |                         | 14.5         | Jun-30 23:00 | 3.2    | Jun-30                  | 99.9                | Jun-04   |
| NO <sub>x</sub> (ppb)              |            |       |        |                  | 2.5                | 0.0               |            |       |        |                         | 20.6         | Jun-14 00:00 | 4.2    | Jun-09                  | 99.9                | Jun-04   |
| O <sub>3</sub> (ppb)               | 76         |       |        |                  | 29.1               | 3.9               | 0          |       |        |                         | 57.5         | Jun-05 15:00 | 37.7   | Jun-15                  | 99.9                | Jun-05   |
| CO (ppm)                           |            |       |        |                  | 0.1                | 0.1               |            |       |        |                         | 0.4          | Jun-04 08:00 | 0.2    | Jun-30                  | 99.7                | Jun-04   |
| CO 8-Hour (ppm)                    | 5          |       |        |                  | -                  | 0.1               | 0          |       |        |                         | 0.2          | Jun-30 10:00 | -      | -                       | 100.0               | -        |
| THC (ppm)                          |            |       |        |                  | 2.1                | 1.8               |            |       |        |                         | 2.4          | Jun-14 00:00 | 2.2    | Jun-14                  | 99.7                | Jun-04   |
| PM <sub>2.5</sub> (µg/m³)          | 80         | 29    |        |                  | 3.8                | 0.5               | 0          | 0     |        |                         | 25.0         | Jun-30 08:00 | 12.3   | Jun-30                  | 99.9                | Jun-04   |
| ET (°C)                            |            |       |        |                  | 15.7               | 6.7               |            |       |        |                         | 27.4         | Jun-20 16:00 | 20.9   | Jun-15                  | 99.9                | -        |
| RH (%)                             |            |       |        |                  | 69.3               | 12.6              |            |       |        |                         | 100.0        | Jun-01 01:00 | 96.8   | Jun-01                  | 99.9                | -        |
| GSR (W/m²)                         |            |       |        |                  | 236.4              | 0.0               |            |       |        |                         | 1025.7       | Jun-14 13:00 | 376.4  | Jun-08                  | 99.9                | -        |
| WSPD (km/h)                        |            |       |        |                  | 4.3                | 1.0               |            |       |        |                         | 34.9         | Jun-28 16:00 | 14.4   | Jun-28                  | 99.9                | 12/05/26 |
| WDIR                               |            |       |        |                  | WNW                |                   |            |       |        |                         |              |              |        |                         | 99.9                |          |

| Pollutant<br>(units)                | Analyzer    |  |         | Notes                                          |
|-------------------------------------|-------------|--|---------|------------------------------------------------|
|                                     | Make        |  | Model   |                                                |
| SO <sub>2</sub>                     | TEI         |  | 43i-TLE | Logger offline for 1 hour for updates June 15. |
| NO/NO <sub>2</sub> /NO <sub>x</sub> | TEI         |  | 42i     | Manual span check June 4.                      |
| O <sub>3</sub>                      | TECO        |  | 49i     |                                                |
| CO                                  | TEI         |  | 48i-TLE | Manual span check June 5.                      |
| THC                                 | TECO        |  | 51C-LT  | Manual span check June 8.                      |
| PM <sub>2.5</sub>                   | API         |  | T640    |                                                |
| ET/RH                               | RMYoung     |  | 41382VC |                                                |
| GSR                                 | Pyranometer |  | PY45774 |                                                |
| WS/WD                               | RMYoung     |  | 5305    |                                                |

| Jun-26                                 |     |            |       |                       | Palliser Airshed Society |                   |            |      |       |        |              |              |        |                         | Maximum Recorded Values |     |  |  |  |  |
|----------------------------------------|-----|------------|-------|-----------------------|--------------------------|-------------------|------------|------|-------|--------|--------------|--------------|--------|-------------------------|-------------------------|-----|--|--|--|--|
| Pollutant<br>(units)                   |     | Objectives |       | Station               | Monthly<br>Average       | 1-Hour<br>Minimum | Exceedence |      |       | 1-hr   |              | 24-hr / 8-hr |        | Operational<br>Time (%) | Calibration<br>Date     |     |  |  |  |  |
|                                        |     | 1-hr       | 24-hr |                       |                          |                   | 30-day     | 1-hr | 24-hr | 30-day | Conc         | Day          | Conc   |                         |                         | Day |  |  |  |  |
| NO (ppb)                               |     |            |       | Brooks<br>Meadowplace | 0.3                      | 0.0               |            |      |       | 7.9    | Jun-16 08:00 | 1.3          | Jun-25 | 99.9                    | Jun-23                  |     |  |  |  |  |
| NO <sub>2</sub> (ppb)                  | 159 |            |       |                       | 2.5                      | 0.4               | 0          |      |       | 16.9   | Jun-19 02:00 | 4.3          | Jun-15 | 99.9                    | Jun-23                  |     |  |  |  |  |
| NO <sub>x</sub> (ppb)                  |     |            |       |                       | 2.6                      | 0.2               |            |      |       | 19.7   | Jun-16 08:00 | 4.9          | Jun-16 | 99.9                    | Jun-23                  |     |  |  |  |  |
| O <sub>3</sub> (ppb)                   | 76  |            |       |                       | 31.4                     | 4.0               | 0          |      |       | 58.4   | Jun-29 03:00 | 45.1         | Jun-29 | 99.9                    | Jun-23                  |     |  |  |  |  |
| PM <sub>2.5</sub> (µg/m <sup>3</sup> ) | 80  | 29         |       |                       | 4.7                      | 0.3               | 0          | 0    |       | 41.3   | Jun-30 08:00 | 16.6         | Jun-30 | 99.9                    | Jun-23                  |     |  |  |  |  |
| ET (°C)                                |     |            |       |                       | 14.9                     | 5.0               |            |      |       | 25.7   | Jun-25 16:00 | 19.9         | Jun-15 | 99.9                    | -                       |     |  |  |  |  |
| RH (%)                                 |     |            |       |                       | 73.6                     | 23.5              |            |      |       | 100.0  | Jun-01 06:00 | 98.8         | Jun-01 | 99.9                    | -                       |     |  |  |  |  |
| WSPD (km/h)                            |     |            |       |                       | 5.9                      | 0.5               |            |      |       | 37.9   | Jun-28 12:00 | 30.9         | Jun-01 | 99.9                    | 19/08/25                |     |  |  |  |  |
| WDIR                                   |     |            |       |                       | NW                       |                   |            |      |       |        |              |              |        |                         | 99.9                    |     |  |  |  |  |

| Pollutant<br>(units)                | Analyzer |  |        | Notes                                          |
|-------------------------------------|----------|--|--------|------------------------------------------------|
|                                     | Make     |  | Model  |                                                |
| NO/NO <sub>2</sub> /NO <sub>x</sub> | TEI      |  | 42iQ   | Logger offline for 1 hour for updates June 15. |
| O <sub>3</sub>                      | TEI      |  | 49iQ   |                                                |
| PM <sub>2.5</sub>                   | API      |  | T640   |                                                |
| ET/RH                               | CS       |  | HC2-S3 |                                                |
| WS/WD                               | RMYoung  |  | 5305   |                                                |

| Jun-26                    |  |            |       |        | Palliser Airshed Society |                    |                   |            |       |        |      |              | Maximum Recorded Values |        |                         |                     |  |  |
|---------------------------|--|------------|-------|--------|--------------------------|--------------------|-------------------|------------|-------|--------|------|--------------|-------------------------|--------|-------------------------|---------------------|--|--|
| Pollutant<br>(units)      |  | Objectives |       |        | Station                  | Monthly<br>Average | 1-Hour<br>Minimum | Exceedence |       |        | 1-hr |              | 24-hr / 8-hr            |        | Operational<br>Time (%) | Calibration<br>Date |  |  |
|                           |  | 1-hr       | 24-hr | 30-day |                          |                    |                   | 1-hr       | 24-hr | 30-day | Conc | Day          | Conc                    | Day    |                         |                     |  |  |
| NO (ppb)                  |  |            |       |        | Hanna Airpointer         | 0.6                | 0.0               |            |       |        | 10.7 | Jun-12 08:00 | 1.2                     | Jun-12 | 99.2                    | Jun-28              |  |  |
| NO <sub>2</sub> (ppb)     |  | 159        |       |        |                          | 1.8                | 0.1               | 0          |       |        | 10.7 | Jun-19 05:00 | 3.4                     | Jun-15 | 99.2                    | Jun-28              |  |  |
| NO <sub>x</sub> (ppb)     |  |            |       |        |                          | 2.4                | 0.6               |            |       |        | 14.7 | Jun-05 08:00 | 4.2                     | Jun-15 | 99.2                    | Jun-28              |  |  |
| O <sub>3</sub> (ppb)      |  | 76         |       |        |                          | 31.3               | 9.9               | 0          |       |        | 54.1 | Jun-05 15:00 | 41.6                    | Jun-29 | 98.9                    | Jun-29              |  |  |
| PM <sub>2.5</sub> (µg/m³) |  | 80         | 29    |        |                          | 4.2                | 1.1               | 0          | 0     |        | 36.3 | Jun-29 20:00 | 14.7                    | Jun-30 | 99.9                    | Jun-29              |  |  |
| ET (°C)                   |  |            |       |        |                          | 14.5               | 6.5               |            |       |        | 24.8 | Jun-15 14:00 | 19.1                    | Jun-15 | 100.0                   | -                   |  |  |
| RH (%)                    |  |            |       |        |                          | 69.9               | 24.7              |            |       |        | 98.2 | Jun-05 08:00 | 94.9                    | Jun-01 | 100.0                   | -                   |  |  |
| WSPD (km/h)               |  |            |       |        |                          | 1.7                | 0.0               |            |       |        | 19.1 | Jun-20 12:00 | 11.8                    | Jun-21 | 99.9                    | 26/09/25            |  |  |
| WDIR                      |  |            |       |        |                          | NW                 |                   |            |       |        |      |              |                         |        | 99.9                    |                     |  |  |

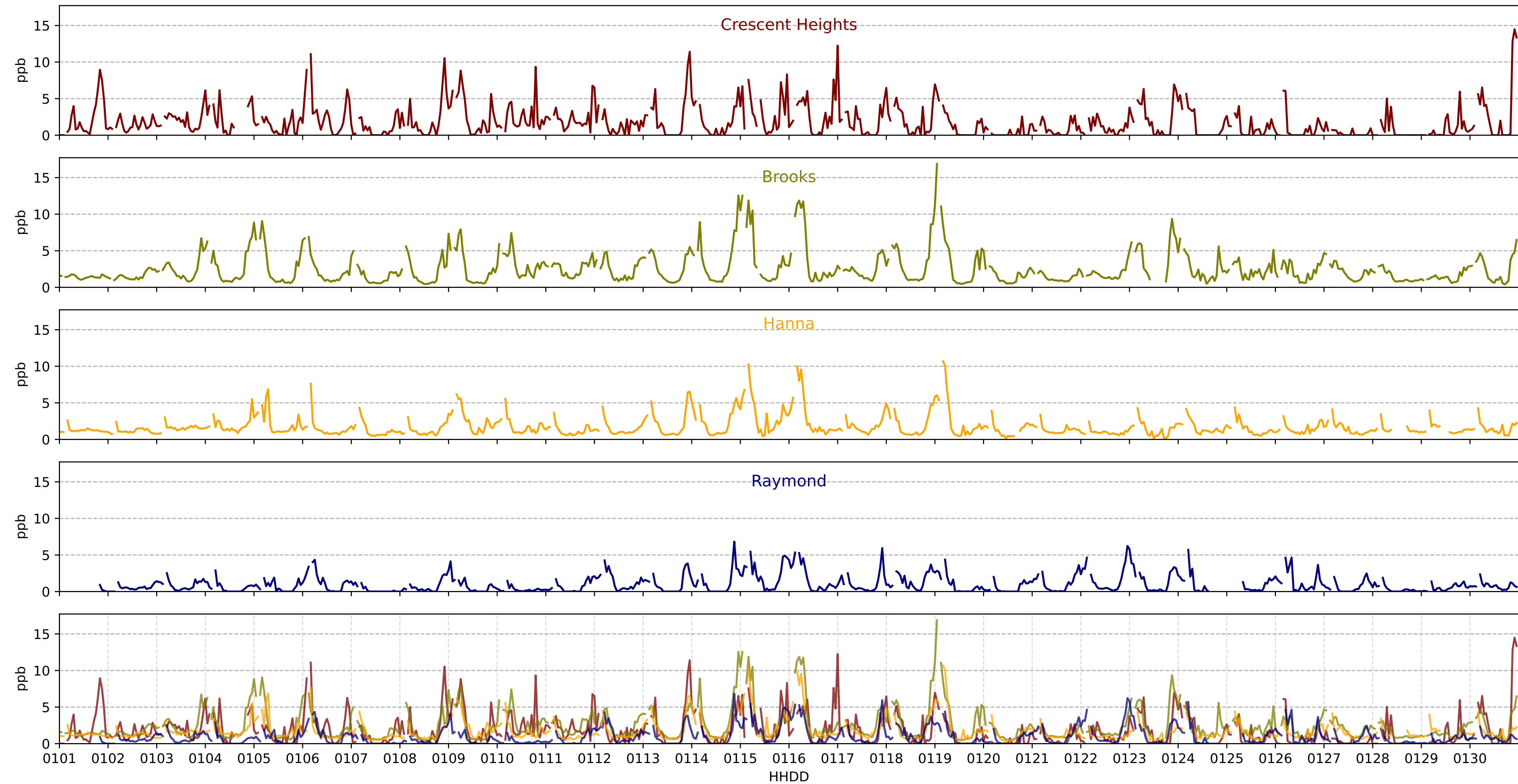
| Pollutant (units)                   | Analyzer       |  |        | Notes                                                            |
|-------------------------------------|----------------|--|--------|------------------------------------------------------------------|
|                                     | Make           |  | Model  |                                                                  |
| NO/NO <sub>2</sub> /NO <sub>x</sub> | Airpointer API |  | 200e   | Power bump June 20 affected data capture for analyzers and wind. |
| O <sub>3</sub>                      | Airpointer API |  | 400e   | Analyzer offline during June 29 O <sub>3</sub> calibration.      |
| PM <sub>2.5</sub>                   | Sharp          |  | 5030   | Analyzer offline during June 28 NO <sub>x</sub> calibration.     |
| ET/RH                               | CS             |  | HC2-S3 |                                                                  |
| WS/WD                               | RMYoung        |  | 5305   |                                                                  |

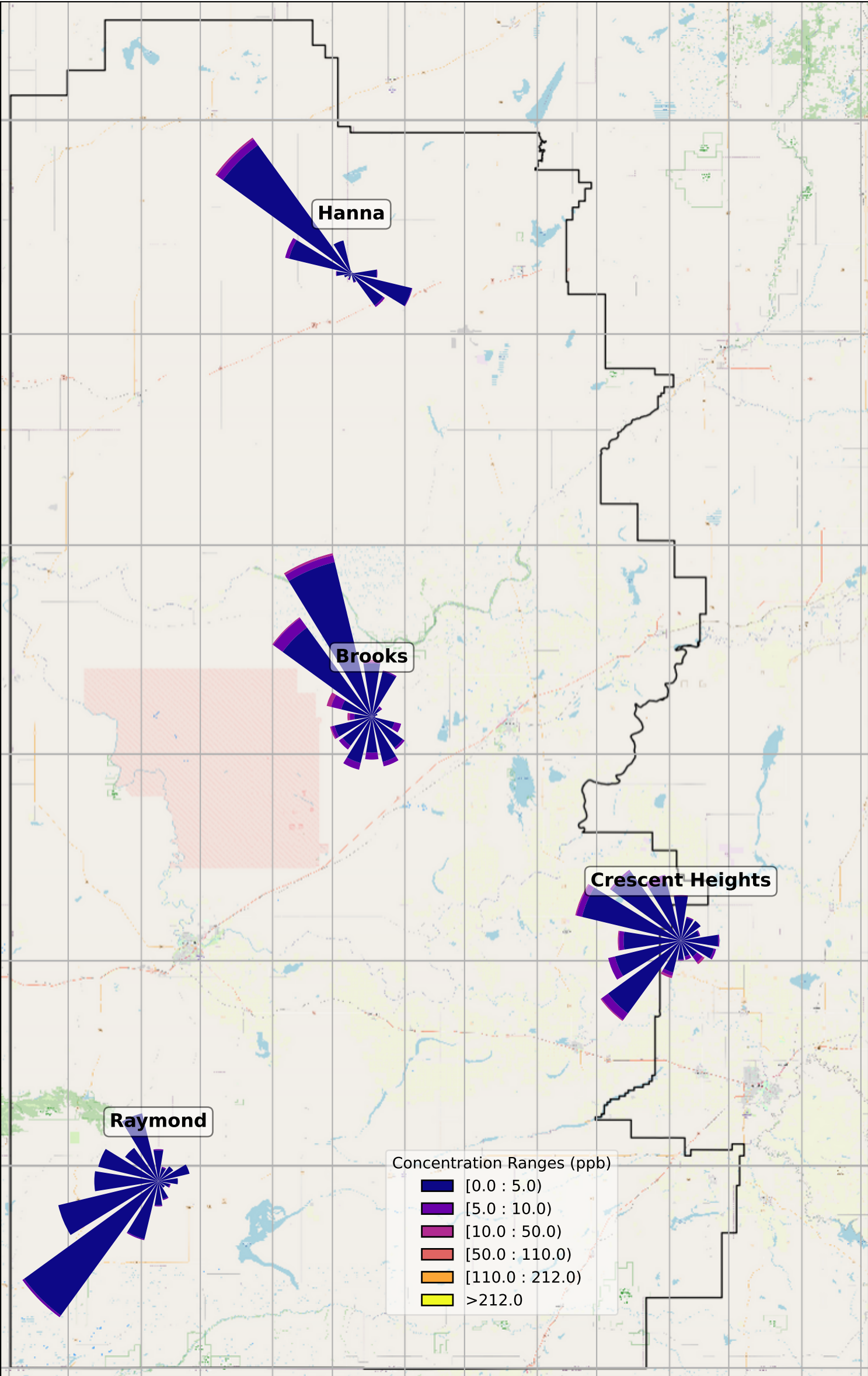
| Jun-26                    |     |            |       |                    | Palliser Airshed Society |                   |            |      |       |        |              |      | Maximum Recorded Values |                     |        |     |  |  |
|---------------------------|-----|------------|-------|--------------------|--------------------------|-------------------|------------|------|-------|--------|--------------|------|-------------------------|---------------------|--------|-----|--|--|
| Pollutant<br>(units)      |     | Objectives |       | Station            | Monthly<br>Average       | 1-Hour<br>Minimum | Exceedence |      | 1-hr  |        | 24-hr / 8-hr |      | Operational<br>Time (%) | Calibration<br>Date |        |     |  |  |
|                           |     | 1-hr       | 24-hr |                    |                          |                   | 30-day     | 1-hr | 24-hr | 30-day | Conc         | Day  |                         |                     | Conc   | Day |  |  |
| NO (ppb)                  |     |            |       | Raymond Airpointer | 0.2                      | 0.0               |            |      |       | 5.2    | Jun-19 10:00 | 0.4  | Jun-19                  | 96.4                | Jun-01 |     |  |  |
| NO <sub>2</sub> (ppb)     | 159 |            |       |                    | 1.0                      | 0.0               | 0          |      |       | 6.8    | Jun-14 22:00 | 2.2  | Jun-15                  | 96.4                | Jun-01 |     |  |  |
| NO <sub>x</sub> (ppb)     |     |            |       |                    | 1.1                      | 0.0               |            |      |       | 8.2    | Jun-26 09:00 | 2.5  | Jun-15                  | 96.4                | Jun-01 |     |  |  |
| O <sub>3</sub> (ppb)      | 76  |            |       |                    | 32.0                     | 7.9               | 0          |      |       | 53.3   | Jun-05 12:00 | 43.9 | Jun-05                  | 96.4                | Jun-01 |     |  |  |
| PM <sub>2.5</sub> (µg/m³) | 80  | 29         |       |                    | 3.6                      | 0.0               | 0          | 0    |       | 56.6   | Jun-30 13:00 | 24.4 | Jun-30                  | 97.8                | Jun-04 |     |  |  |
| ET (°C)                   |     |            |       |                    | 14.0                     | 4.2               |            |      |       | 26.4   | Jun-16 14:00 | 19.0 | Jun-15                  | 97.8                | -      |     |  |  |
| RH (%)                    |     |            |       |                    | 66.5                     | 21.8              |            |      |       | 100.0  | Jun-29 07:00 | 96.7 | Jun-01                  | 97.8                | -      |     |  |  |
| WSPD (km/h)               |     |            |       |                    | 5.6                      | 0.2               |            |      |       | 28.5   | Jun-05 18:00 | 17.0 | Jun-07                  | 97.8                | -      |     |  |  |
| WDIR                      |     |            |       |                    | WSW                      |                   |            |      |       |        |              |      |                         | 97.8                | -      |     |  |  |

| Pollutant (units)                   | Analyzer       |  |        | Notes                                                                                       |
|-------------------------------------|----------------|--|--------|---------------------------------------------------------------------------------------------|
|                                     | Make           |  | Model  |                                                                                             |
| NO/NO <sub>2</sub> /NO <sub>x</sub> | Airpointer API |  | 200e   | Airpointer returned to site late May, resuming reporting for June. Power outage June 24-25. |
| O <sub>3</sub>                      | Airpointer API |  | 400e   |                                                                                             |
| PM <sub>2.5</sub>                   | Sharp          |  | 5030   |                                                                                             |
| ET/RH                               | Vaisala        |  | WXT520 |                                                                                             |
| WS/WD                               | Vaisala        |  | WXT520 |                                                                                             |

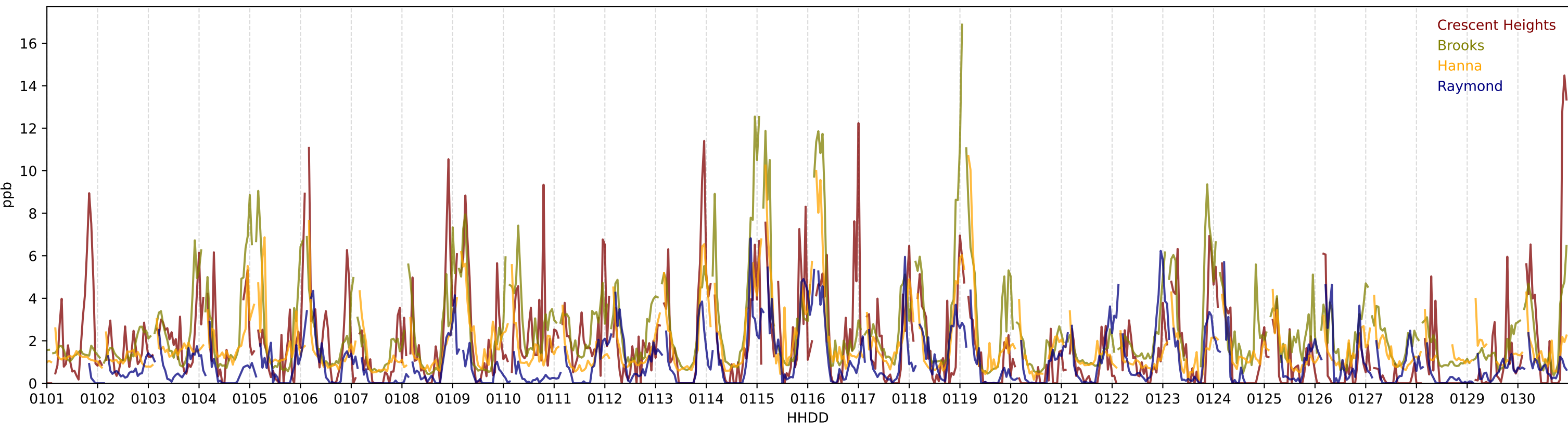
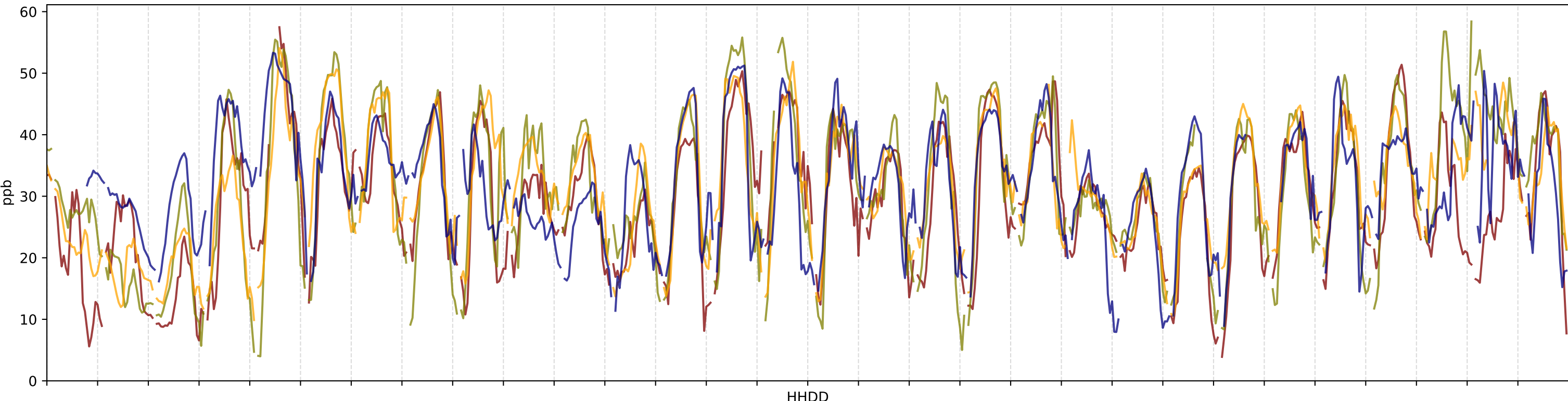
# June 2026 NO<sub>2</sub>

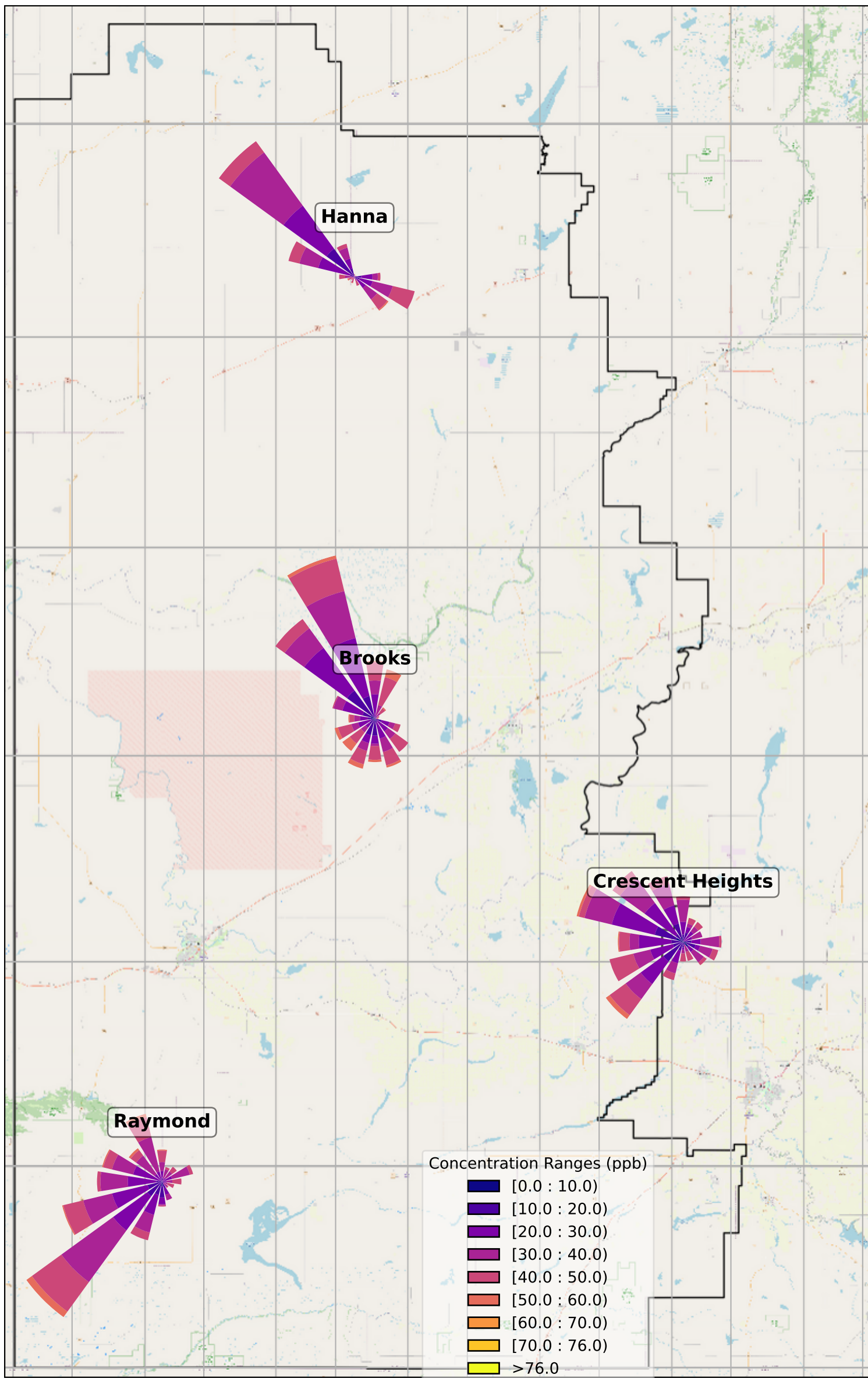
NO<sub>2</sub> AAAQO = 172 ppb





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





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

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

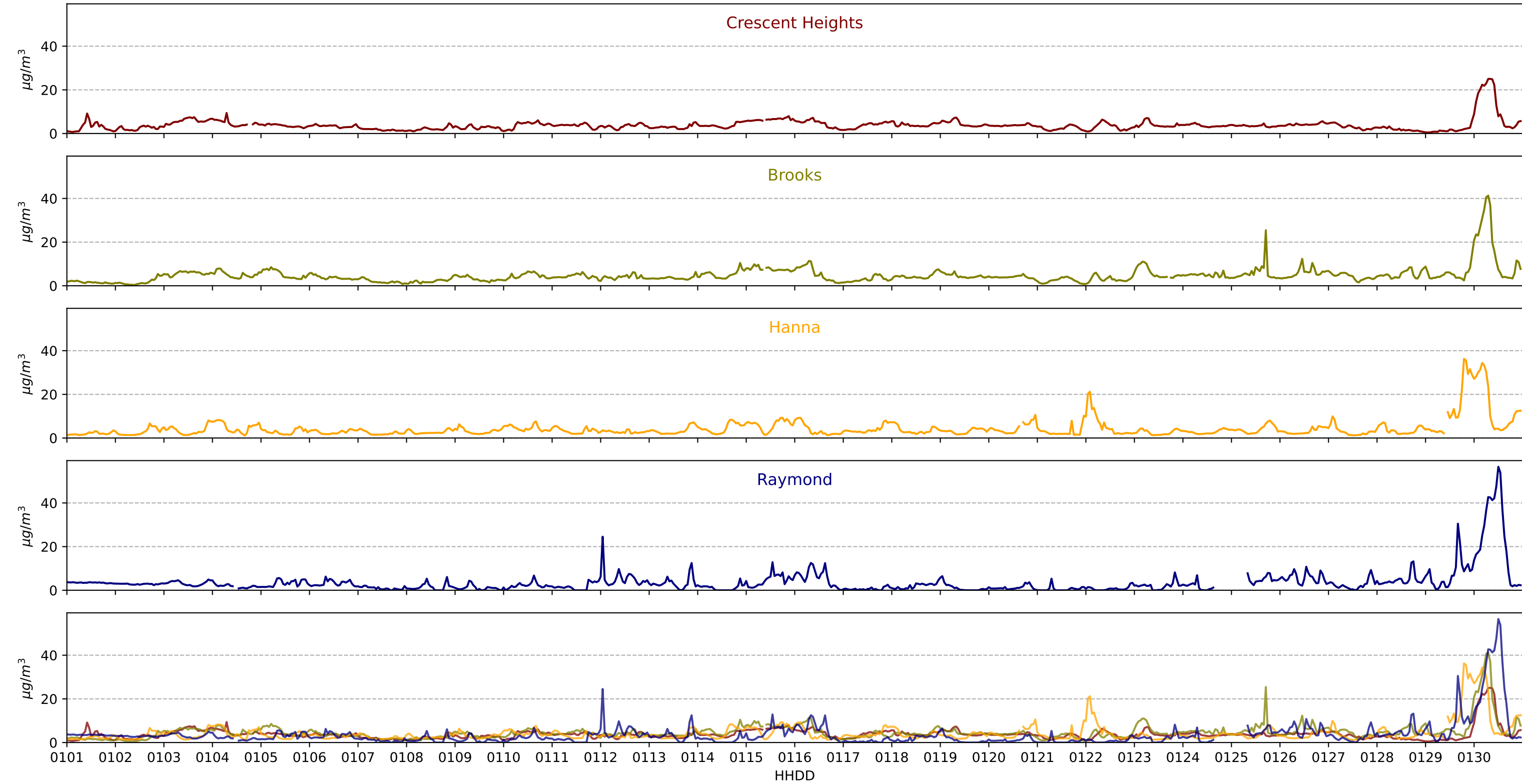
Crescent Heights

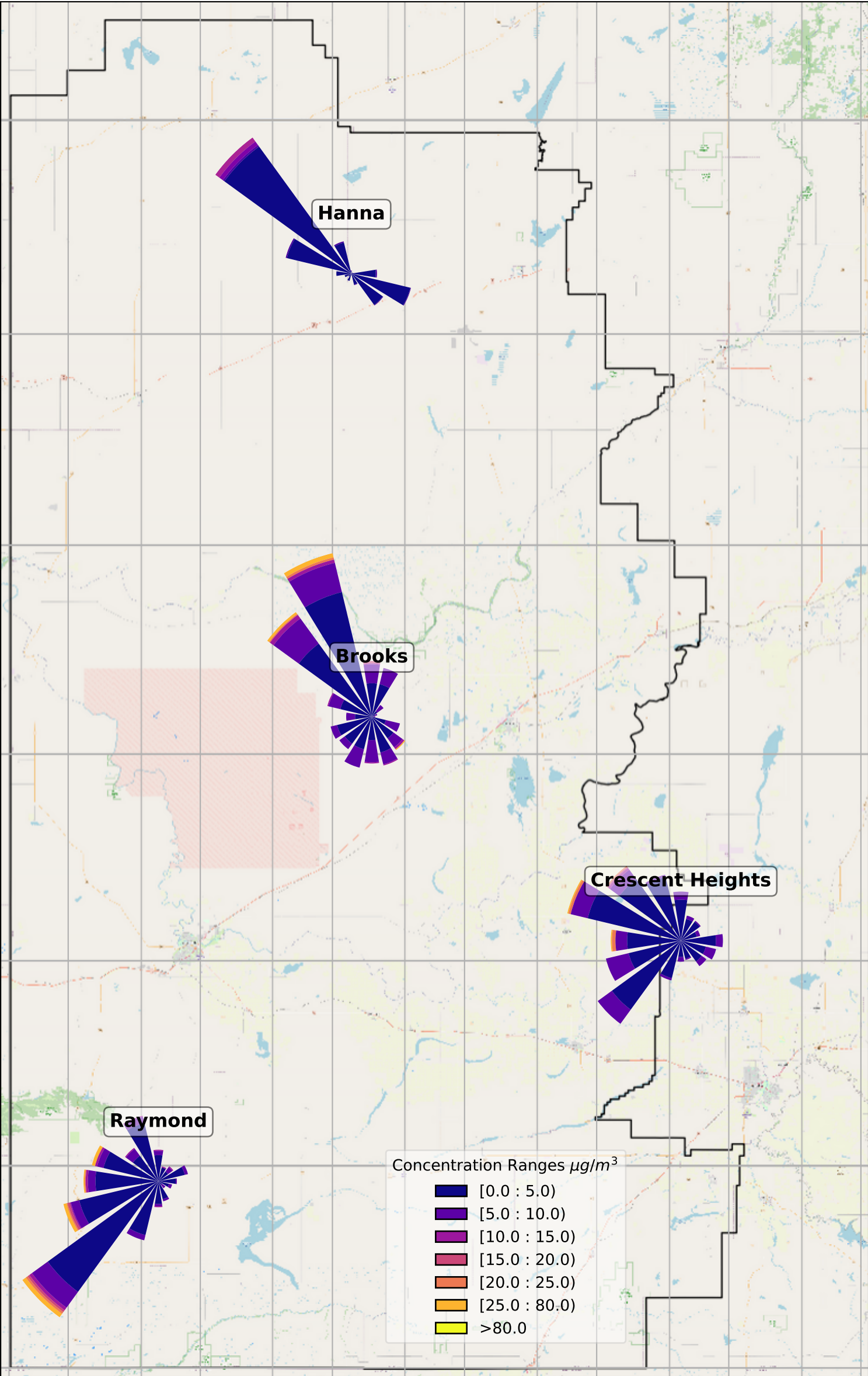
Brooks

Hanna

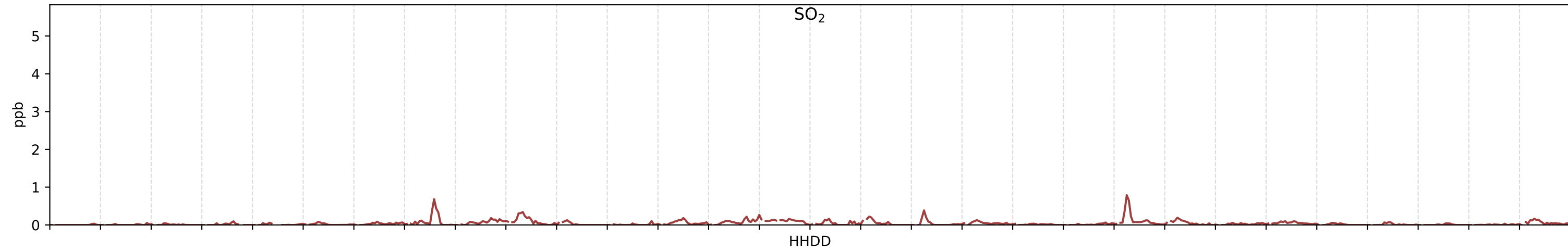
Raymond

HHDD

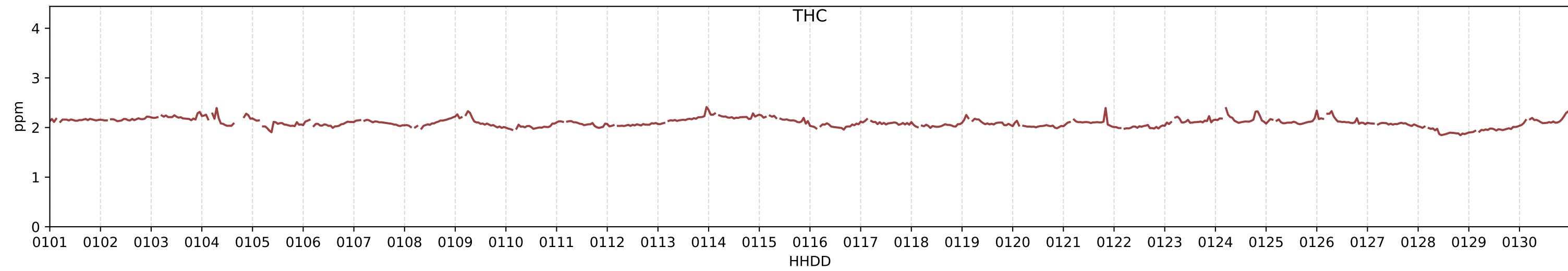
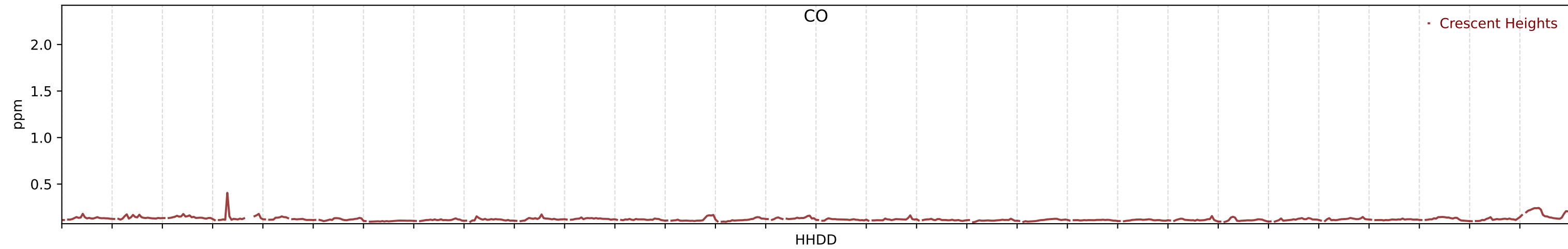




SO<sub>2</sub> AAAQO = 172 ppb

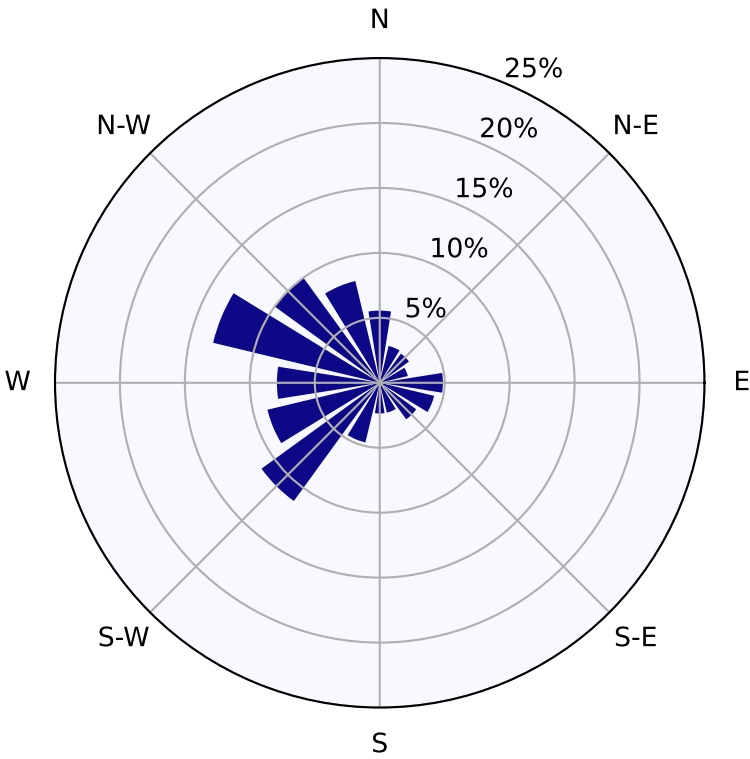


CO AAAQO = 13 ppm

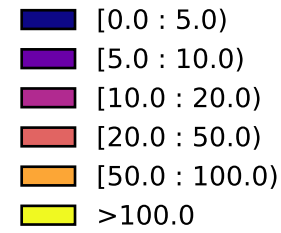


June 2026

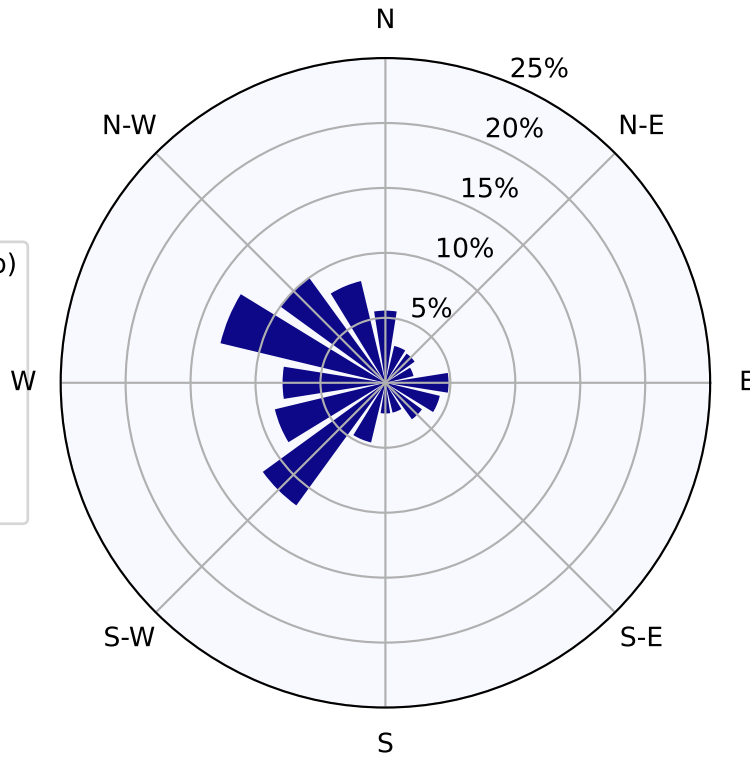
Crescent Heights SO<sub>2</sub>



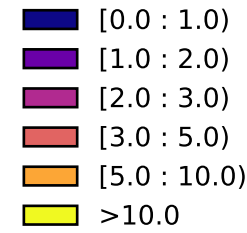
Concentration Ranges (ppb)



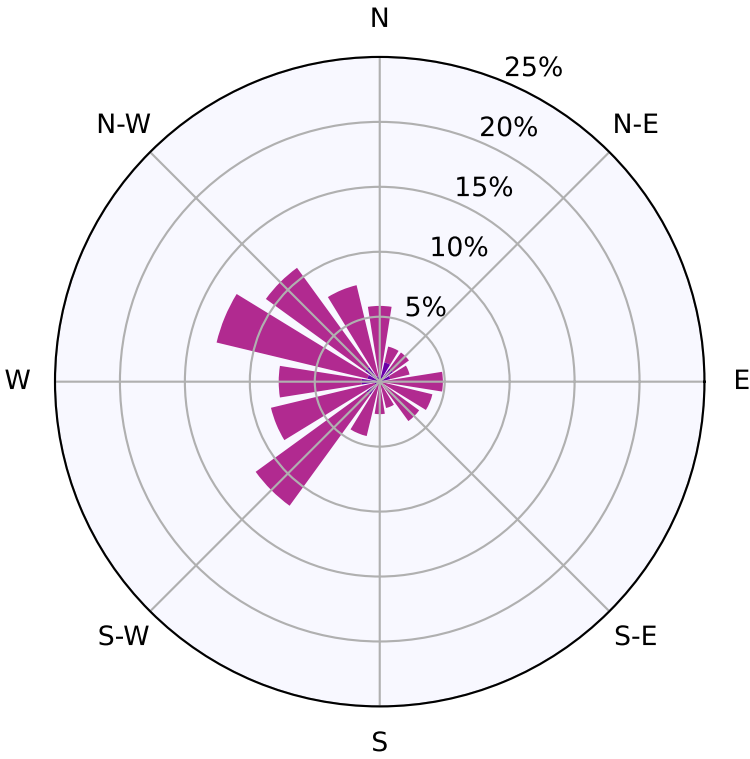
Crescent Heights CO



Concentration Ranges (ppm)



Crescent Heights THC



Concentration Ranges (ppm)

