



## Payload 3 Daily Flight Report



**Date:** 2025-07-01

**Flight Campaign ID:** P3C1

**Airport, FBO ID, City:** Wausau Downtown Airport (KAUW) - Wausau, WI

**Aircraft:** N821AR

**Domain:** 05 (Great Lakes)

**Sites Flown:** STEI\_TREE\_P1 (Steigerwaldt Land Services and Treehaven Priority 1)

**Days left in Domain:** 10

**Report Author:** John

**Lidar Operators:** John

**Spectrometer Operators:** Matt

**Pilots:** Justin, Tim

**Flight Hours:** 02:01

**Hours until maintenance:** 61.85

**GPS Instruments:** WISCORS-RHER, WISCORS-WAU2

### Summary

The day started with Green conditions over STEI-TREE P1, but eventually the clouds began to form at flight altitude and we had to abandon further collections. CHEQ and UNDE sites also had many clouds at or below our flight level.

### Concerns

None.

### Comments

None.

### Daily Coverage

Estimated Cloud Cover Key

Green:	Yellow:	Red:
0-10%	11-50%	>50%

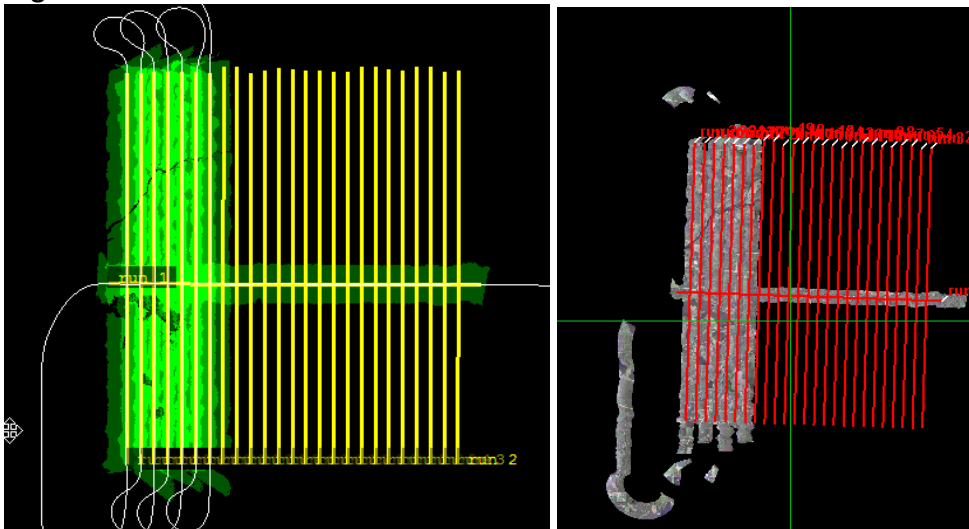
Solar Angle Less Than 40 degrees: (\*)

D05|STEI\_TREE\_P1

Line #	1	20	21	22	23	24	25	26
Lidar	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓	✓
Cloud Cover								

Total number of lines flown: 8

## Flight Screenshots



## Pictures



Clouds forming just below our flight altitude.



At another site in the Domain.

## Cumulative Domain Coverage

### D05 | CHEQ (Chequamegon-Nicolet National Forest)

2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
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Flown: 0% (0/16)

Green: 0% (0/16)

Yellow: 0% (0/16)

Red: 0% (0/16)

\* Flown within 35deg solar angle

### D05 | LIRO (Little Rock Lake)

2	3	4	5	6	7	8
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Flown: 100% (7/7)

Green: 0% (0/7)

Yellow: 0% (0/7)

Red: 100% (7/7)

\* Flown within 35deg solar angle

### D05 | STEI\_TREE\_P1 (Steigerwaldt Land Services and Treehaven Priority 1)

2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
22	23	24	25	26															

Flown: 28% (7/25)

Green: 28% (7/25)

Yellow: 0% (0/25)

Red: 0% (0/25)

\* Flown within 35deg solar angle

### D05 | STEI\_TREE\_P2 (Steigerwaldt Land Services and Treehaven Priority 2)

27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44
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Flown: 100% (18/18)

Green: 0% (0/18)

Yellow: 0% (0/18)

Red: 100% (18/18)

\* Flown within 35deg solar angle

### D05 | UNDE (University of Notre Dame Environmental Research Center)

2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
22	23	24	25	26	27	28	29												

Flown: 32% (9/28)

Green: 0% (0/28)

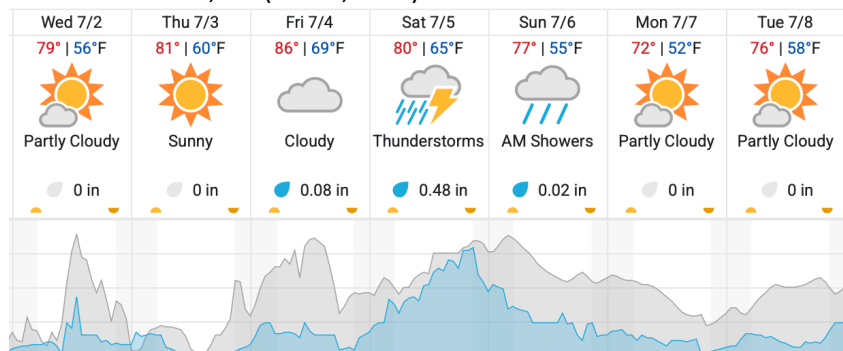
Yellow: 32% (9/28)

Red: 0% (0/28)

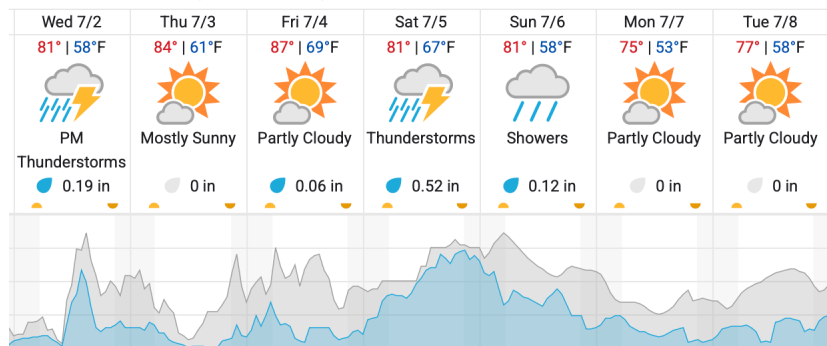
\* Flown within 35deg solar angle

## Weather Forecast

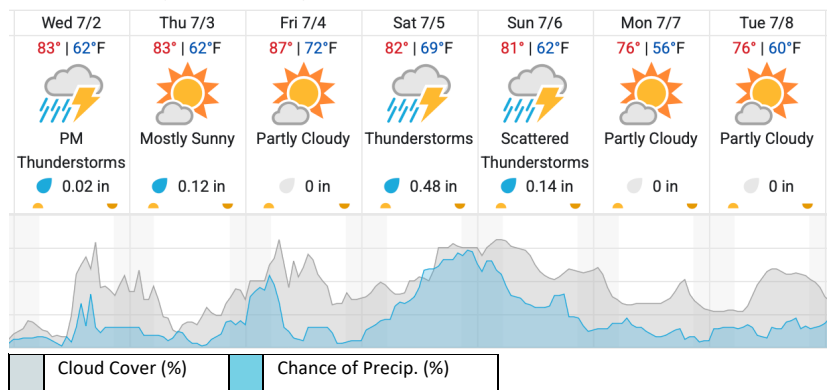
### Boulder Junction, WI (UNDE, LIRO)



## Tomahawk, WI (STEI-TREE)



## Wausau, WI (FBO KAUW)



source: wunderground.com

## Flight Collection Plan for July 1 2025

### Flyority 1

Collection Area: Steigerwaldt Land Services - Treehaven (STEI-TREE) Lines 2-19

Flight Plan Name: D05\_STEI\_TREE\_R1\_P1\_P2\_v3\_Q780

On-station Time: 1420 UTC / 0920 L

### Flyority 2

Collection Area: UNDERC (UNDE)

Flight Plan Name: D05\_UNDE\_C1\_P1\_v2\_Q780

On-station Time: 1420 UTC / 0920 L

### Flyority 3

Collection Area: Chequamegon-Nicolet National Forest (CHEQ)

Flight Plan Name: D05\_CHEQ\_R2\_P1\_v3\_Q780

On-station Time: 1420 UTC / 0920 L

### Flyority 4 (only if green conditions)

Collection Area: Little Rock Lake (LIRO)

Flight Plan Name: D05\_LIRO\_A1\_P2\_v2\_Q780

On-station Time: 1420 UTC / 0920 L

### Flyority 5 (only if green conditions)

Collection Area: Steigerwaldt Land Services - Treehaven (STEI-TREE)

Flight Plan Name: D05\_STEI\_TREE\_R1\_P1\_P2\_v3\_Q780

On-station Time: 1420 UTC / 0920 L

**Flight Crew:** Matt (lidar), John (NIS)