



Payload 3 Daily Flight Report



**Date:** 2024-07-06  
**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:** 9

**Report Author:** Elissa  
**Lidar Operators:** Elissa                      **Flight Hours:** 01:55  
**Spectrometer Operators:** Mitch           **Hours until maintenance:** 26.53  
**Pilots:** Jeff, Shane                              **GPS Instruments:** 06 - FBO\_KAUW, WISCORS-RHER

**Summary**

We took off today in hopes of collecting more lines in green at UNDE, but once airborne the tower camera revealed that clouds had already started forming over the site. We instead pivoted to STEI-TREE where we were able to collect 11 lines in green before low cumulus pushed us out. Though no clouds were present during the period of green collect, there was a substantial amount of haze.

**Concerns**

None.

**Comments**

Today was Shane and Jeff’s last day in the domain; Justin and Jacob arrive tonight to replace them. Cam also arrives in Wausau tonight. Thanks Shane and Jeff for all the successful flights!

**Daily Coverage**

Estimated Cloud Cover Key

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

Solar Angle Less Than 40 degrees

Line #
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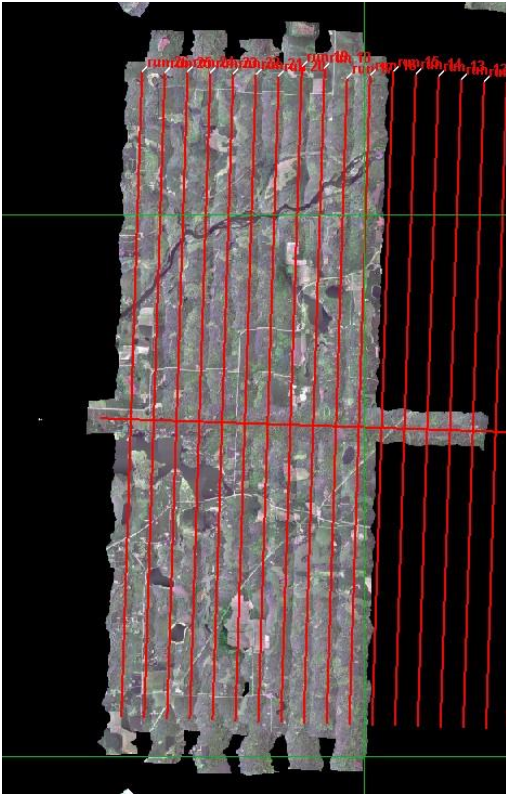
D05|STEI\_TREE\_P1

Line #	16	17	18	19	20	21	22	23	24	25	26
Lidar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cloud Cover											

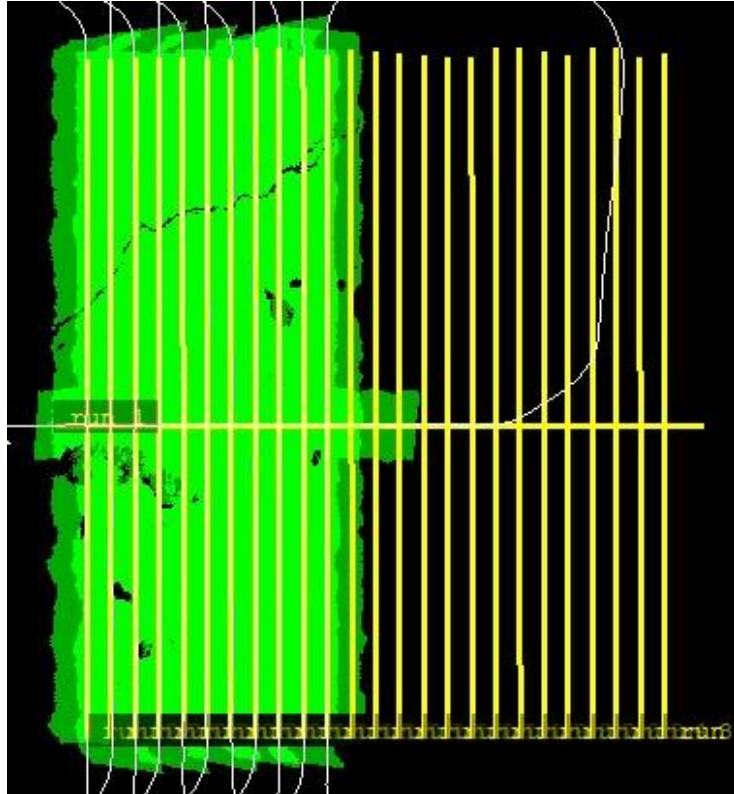
Total number of lines flown: 11

## Flight Screenshots

NIS



Lidar



## Pictures



Cloud-free but hazy skies over STEI-TREE.

## 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)

### 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: 71% (5/7)

Red: 29% (2/7)

### 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: 44% (11/25)

Green: 44% (11/25)

Yellow: 0% (0/25)

Red: 0% (0/25)

### 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: 61% (11/18)

Red: 39% (7/18)

### 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: 82% (23/28)

Green: 25% (7/28)

Yellow: 4% (1/28)

Red: 54% (15/28)

### D05 | WABI (NEON Research Support Services - Wabikon Forest Dynamics Plot)

2	3	4	5	6	7
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Flown: 0% (0/6)

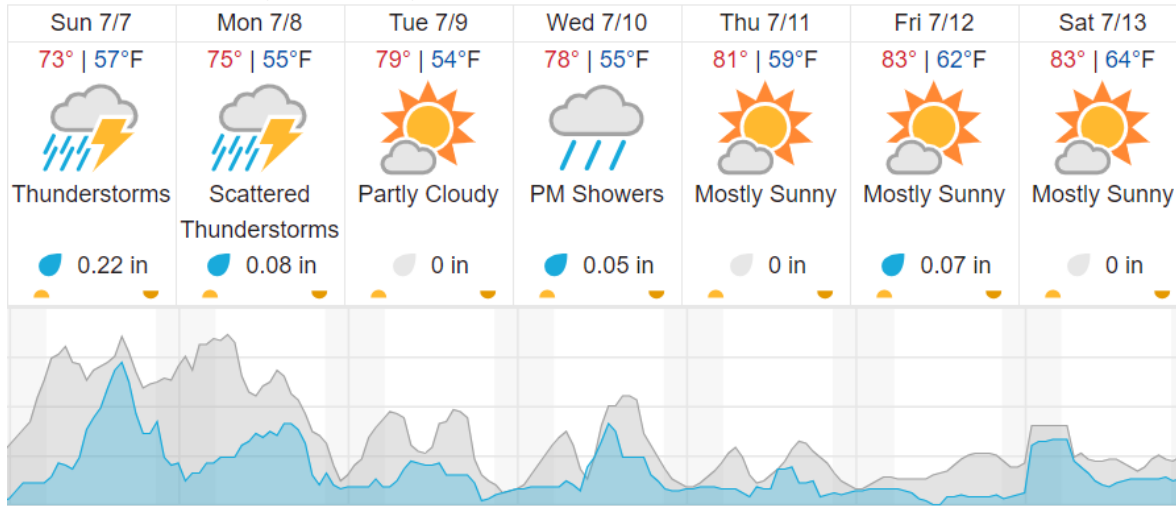
Green: 0% (0/6)

Yellow: 0% (0/6)

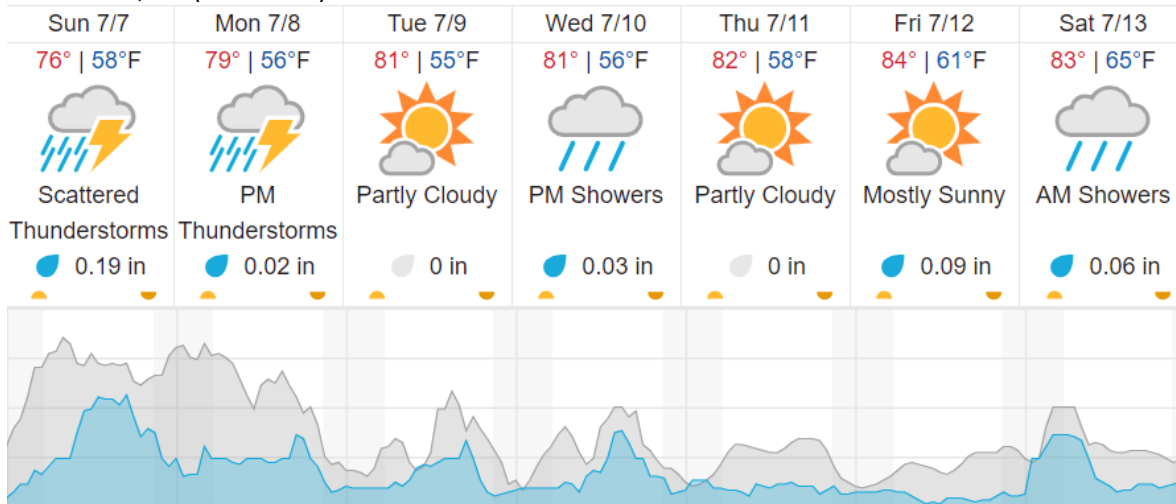
Red: 0% (0/6)

## Weather Forecast

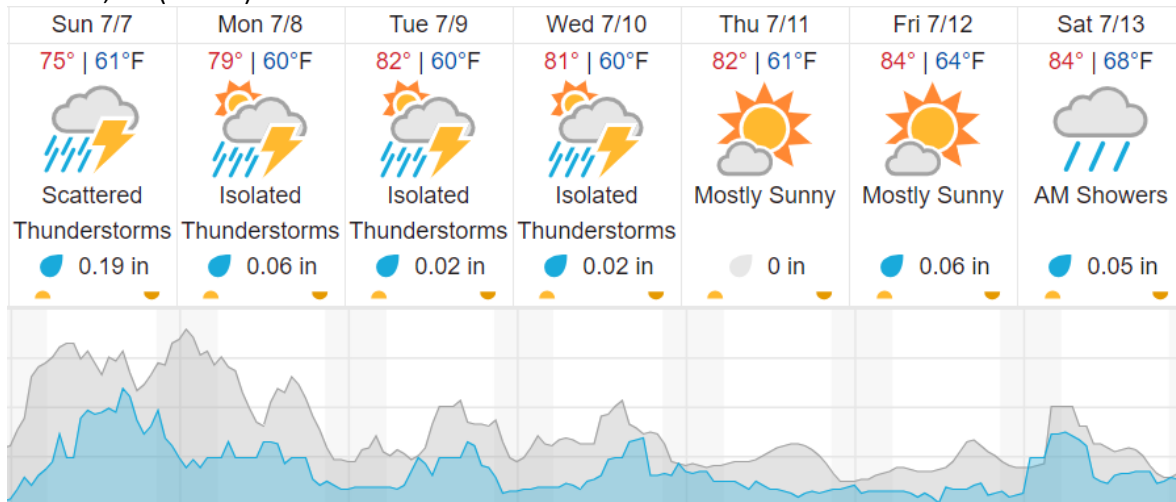
### Boulder Junction, WI (UNDE, LIRO)



### Tomahawk, WI (STEI-TREE)



### Wausau, WI (KAUW)



source: wunderground.com

## **Flight Collection Plan for 7 July 2024**

### **Flyority 1**

Collection Area: UNDERC (UNDE), if Red/Yellow lines 1-9; if Green lines 2-17, 23-29

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

On-station Time: 1420 UTC / 0920 L

### **Flyority 2**

Collection Area: Steigerwaldt Land Services - Treehaven (STEI-TREE), Priority 1 Flight Box, lines 1-15

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

Collection Area: Steigerwaldt Land Services - Treehaven (STEI-TREE), Priority 2 Flight Box, if Green

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

On-station Time: 1420 UTC / 0920 L

### **Flyority 5**

Collection Area: Little Rock Lake (LIRO), if Green

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

On-station Time: 1420 UTC / 0920 L

### **Flyority 6**

Collection Area: NRSS Wabikon Forest Dynamics Plot (WABI)

Flight Plan Name: D05\_WABI\_S1\_P1\_v2\_Q780

On-station Time: 1420 UTC / 0920 L

**Flight Crew:** Mitch (Lidar), Elissa (NIS), Cam (Ground)