



Payload 3 Daily Flight Report



Date: 2025-07-03

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),
UNDE (University of Notre Dame Environmental Research Center)

Days left in Domain: 8

Report Author: John

Lidar Operators: John

Spectrometer Operators: Matt

Pilots: Justin, Tim

Flight Hours: 03:41

Hours until maintenance: 55.42

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

Summary

Today we were able to complete STEI-TREE P1 under Green conditions, then head up to UNDE to continue collecting under Yellow conditions. The Riegl lidar had a software fault on Line 17.

Concerns

None.

Comments

The Riegl had a 'ALS.exe Application Error' occur while flying Line 17 of UNDE. It appears all previous data was successfully saved, but after extraction this data should be carefully looked at.

Daily Coverage

Estimated Cloud Cover Key

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

Solar Angle Less Than 40 degrees: (*)

D05|STEI_TREE_P1

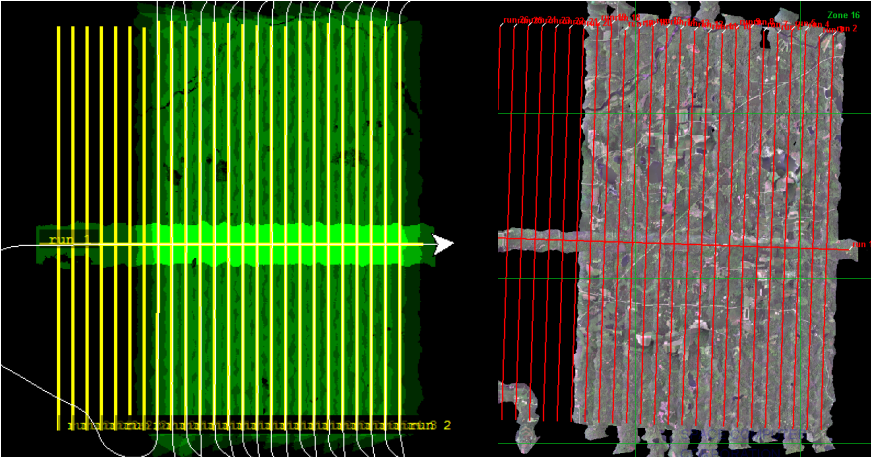
Line #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
Lidar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cloud Cover																			

Total number of lines flown: 19

Line #	11	12	13	14	15	16	17
Lidar	✓	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓
Cloud Cover							

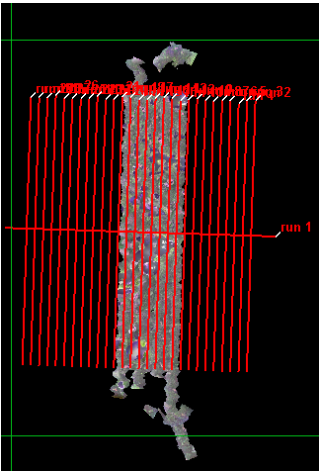
Total number of lines flown: 7

Flight Screenshots



STEI-TREE lidar screenshot

STEI-TREE NIS screenshot



UNDE NIS screenshot

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: 100% (16/16)

Green: 0% (0/16)

Yellow: 88% (14/16)

Red: 12% (2/16)

* 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: 100% (25/25)

Green: 100% (25/25)

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: 57% (16/28)

Green: 0% (0/28)

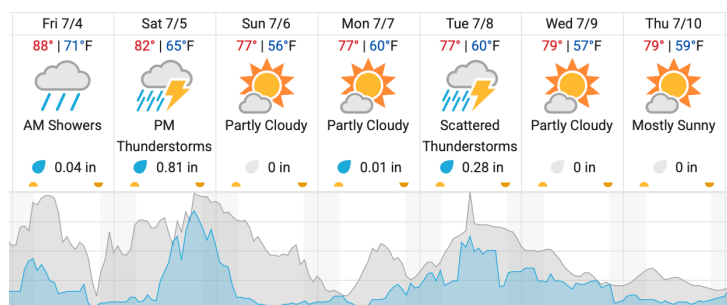
Yellow: 57% (16/28)

Red: 0% (0/28)

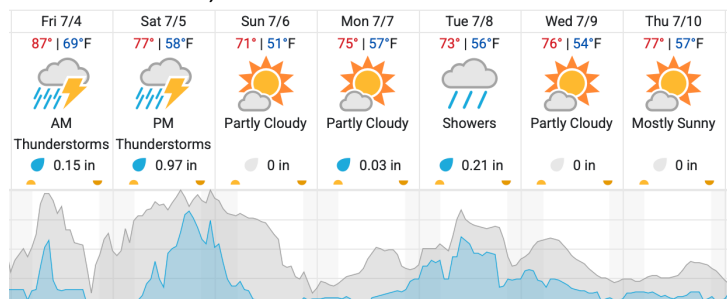
* Flown within 35deg solar angle

Weather Forecast

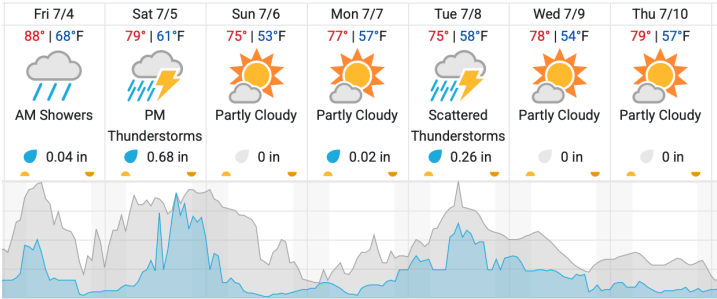
Wausau, WI



Boulder Junction, WI



Tomahawk, WI



Cloud Cover (%)	Chance of Precip. (%)
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source: wunderground.com

Flight Collection Plan for 4 July 2025

Flyority 1

Collection Area: UNDERC (UNDE)
Flight Plan Name: D05_UNDE_C1_P1_v2_Q780
On-station Time: 1420 UTC / 0920 L

Flyority 2 (only if green conditions)
Collection Area: Chequamegon-Nicolet National Forest (CHEQ)
Flight Plan Name: D05_CHEQ_R2_P1_v3_Q780
On-station Time: 1420 UTC / 0920 L

Flyority 3 (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 4 (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)