



Payload 3 Daily Flight Report

Date: 2024-06-25
Flight Campaign ID: P3C1
Airport, FBO ID, City: Wausau Wisconsin (KAUW) - Wausau, WI
Aircraft: N821AR

Domain: 05 (Great Lakes)
Sites Flown: UNDE (University of Notre Dame Environmental Research Center)
Days left in Domain: 20

Report Author: John
Lidar Operators: John **Flight Hours:** 03:46
Spectrometer Operators: Matt **Hours until maintenance:** 34.27
Pilots: Shane, Jeff **GPS Instruments:** 06 - FBO_KAUW, AOP_UNDE

Summary: Finally a break in the weather, with a modicum of sunlight. The forecast was for clearer skies, but we took what we could get after all the rain & clouds for the past week. Some cumulus clouds created shadowing over the UNDE landscape, but the lidar data appears to be good.

Concerns: None

Comments: Mitch arrives later today. GPS 5 was sent back to KBDU.

Daily Coverage

Estimated Cloud Cover Key

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

Solar Angle Less Than 40 degrees

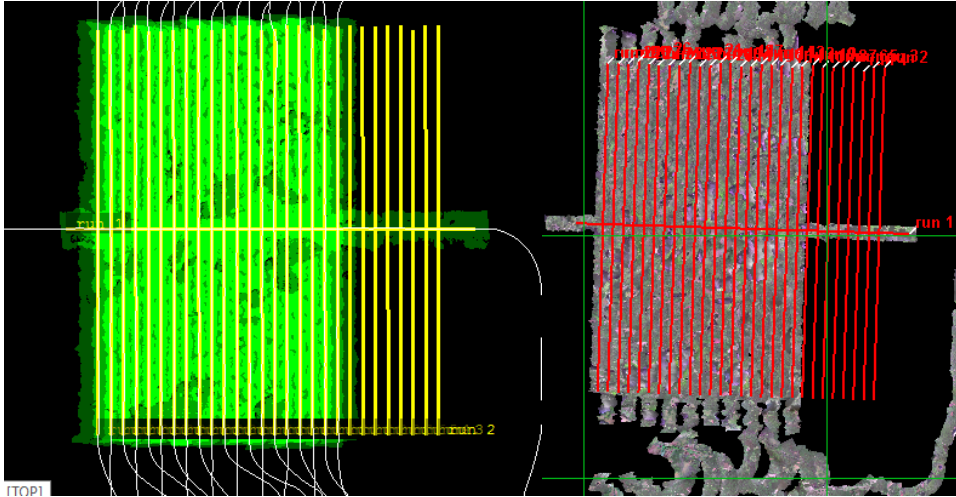
Line #

D05|UNDE

Line #	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
Lidar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cloud Cover																				

Total number of lines flown: 20

Flight Screenshots



lidar screenshot

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: 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: 0% (0/7)

Green: 0% (0/7)

Yellow: 0% (0/7)

Red: 0% (0/7)

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: 0% (0/25)

Green: 0% (0/25)

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: 0% (0/18)

Green: 0% (0/18)

Yellow: 0% (0/18)

Red: 0% (0/18)

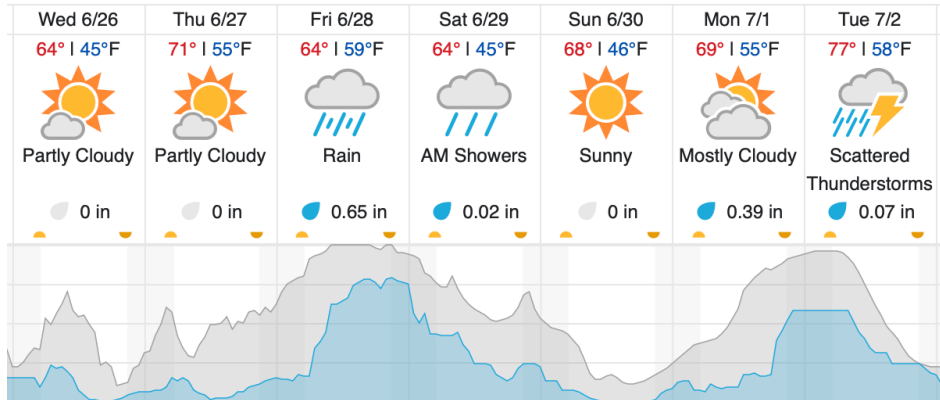
D05 | UNDE (University of Notre Dame Environmental Research Center)

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												

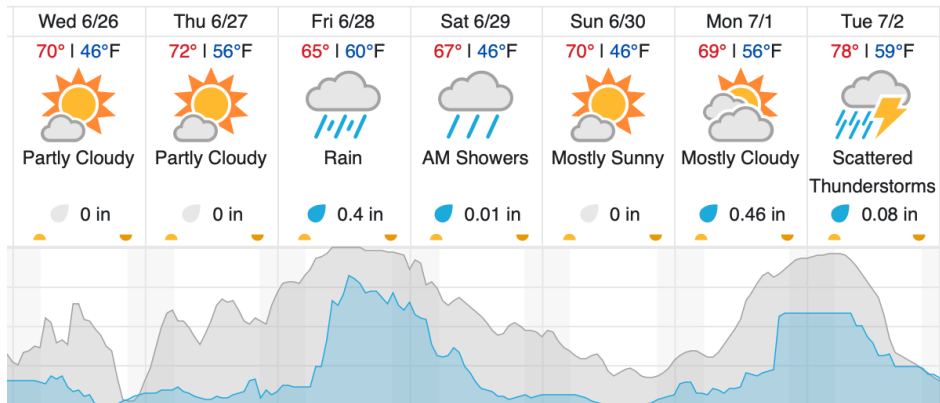
Flown: 71% (20/28)
 Green: 0% (0/28)
 Yellow: 0% (0/28)
 Red: 71% (20/28)

Weather Forecast

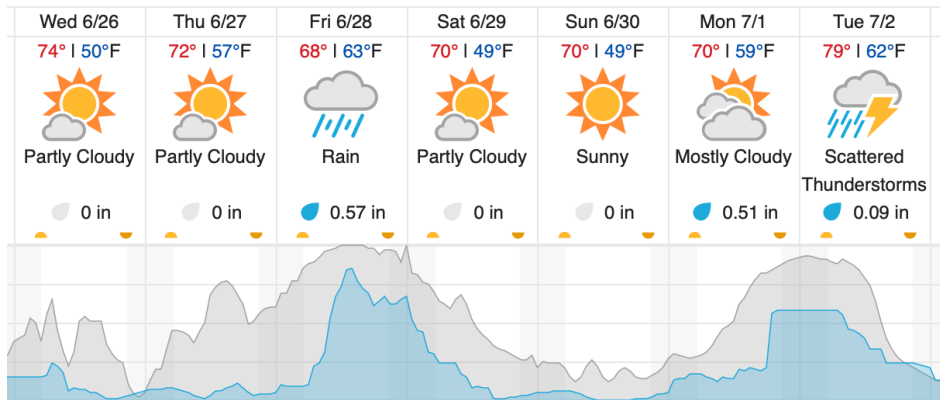
Boulder Junction, WI (UNDE, LIRO)



Tomahawk, WI (STEI)



Wausau, WI (KAUW)



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

Flight Collection Plan for 26 June 2024

Flyority 1

Collection Area: UNDERC (UNDE) If Red/Yellow conditions, lines 1-9; if Green conditions all lines.

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

Flight Plan Name: D5_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: D5_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

Flight Plan Name: D5_STEI_TREE_R1_P1_P2_v3_Q780

On-station Time: 1420 UTC / 0920 L

Flyority 5

Collection Area: Little Rock Lake (LIRO)

Flight Plan Name: D5_LIRO_A1_P2_v2_Q780

On-station Time: 1420 UTC / 0920 L

Flyority 6

Collection Area: Wabikon Forest Dynamics Plot (WABI)

Flight Plan Name: D5_WABI_S1_P1_v2_Q780

On-station Time: 1420 UTC / 0920 L

Flight Crew: Matt (Lidar), Mitch (NIS), John (ground)