



Payload 3 Daily Flight Report

Date: 2024-06-30
Flight Campaign ID: P3C1
Airport, FBO ID, City: Wausau Downtown Airport (KAUW) - Wausau, WI
Aircraft: N821AR

Domain: 05 (Great Lakes)
Sites Flown: STEI_TREE_P2 (Steigerwaldt Land Services and Treehaven Priority 2)
Days left in Domain: 15

Report Author: Elissa
Lidar Operators: Elissa **Flight Hours:** 02:57
Spectrometer Operators: Mitch **Hours until maintenance:** 31.32
Pilots: Jeff, Shane **GPS Instruments:** 06 - FBO_KAUW, WISCORS-RHER

Summary

We took off under clear skies in the hopes of collecting green data at UNDE, however cumulus began forming just prior to solar angle start. We pivoted to the low priority lines at STEI-TREE and completed the box in red and yellow conditions. Though we hoped for a second flight as conditions improved in the afternoon, the clouds never completely cleared.

Concerns

None.

Comments

None.

Daily Coverage

Estimated Cloud Cover Key

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

Solar Angle Less Than 40 degrees

Line #

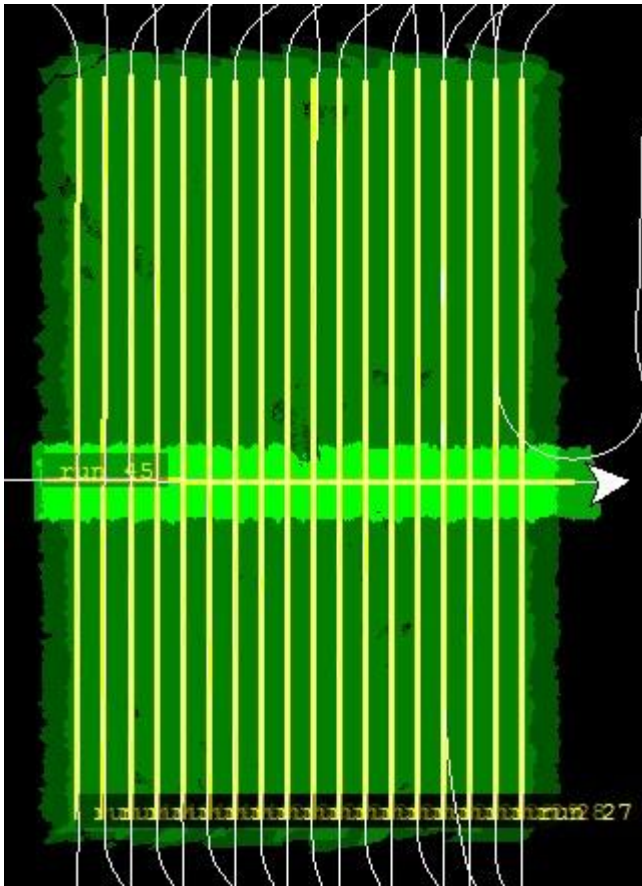
D05|STEI_TREE_P2

Line #	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44
Lidar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cloud Cover																		

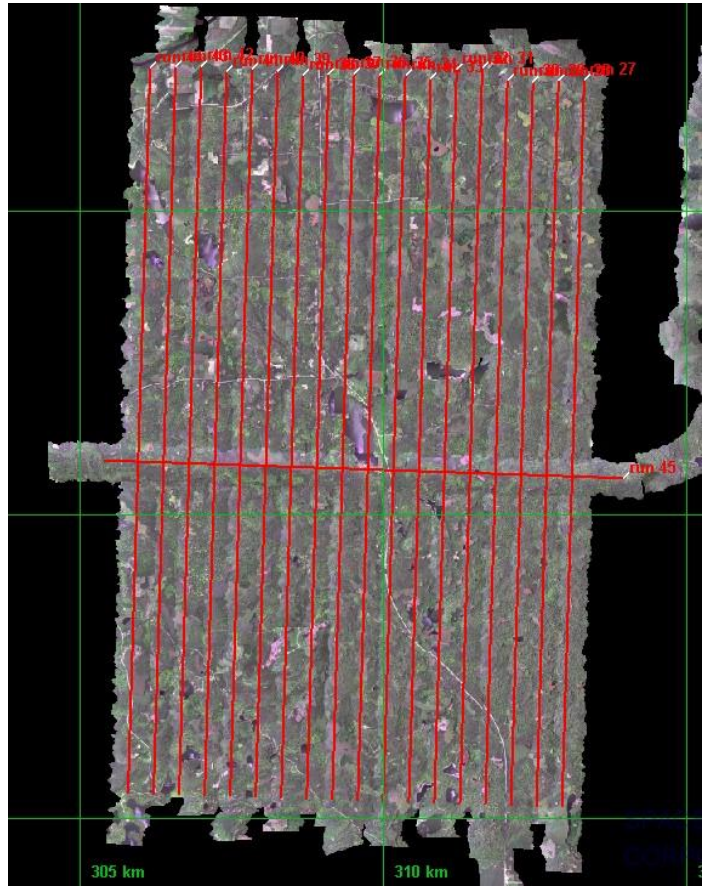
Total number of lines flown: 18

Flight Screenshots

Lidar



NIS



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

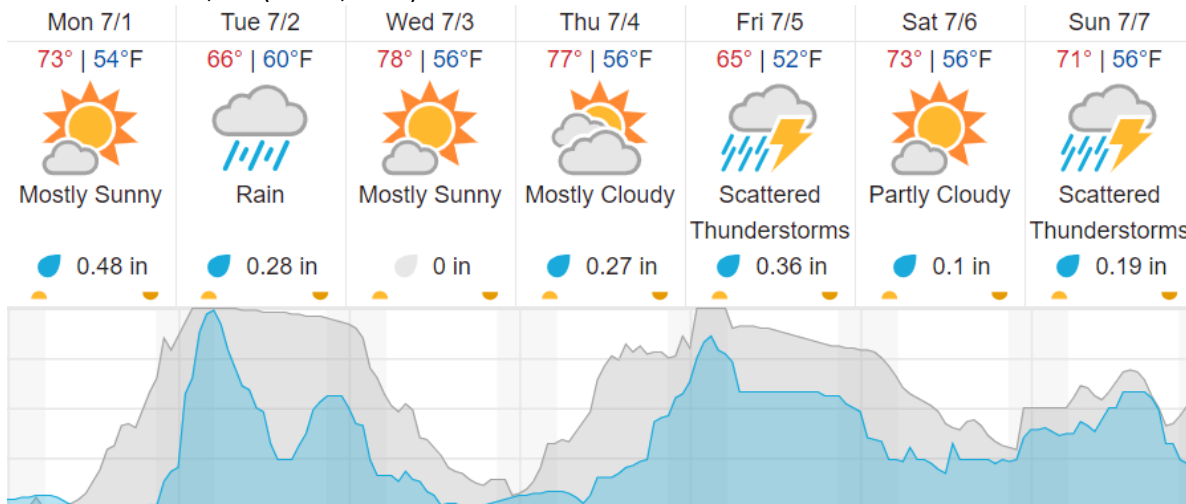
D05 | WABI (NEON Research Support Services - Wabikon Forest Dynamics Plot)

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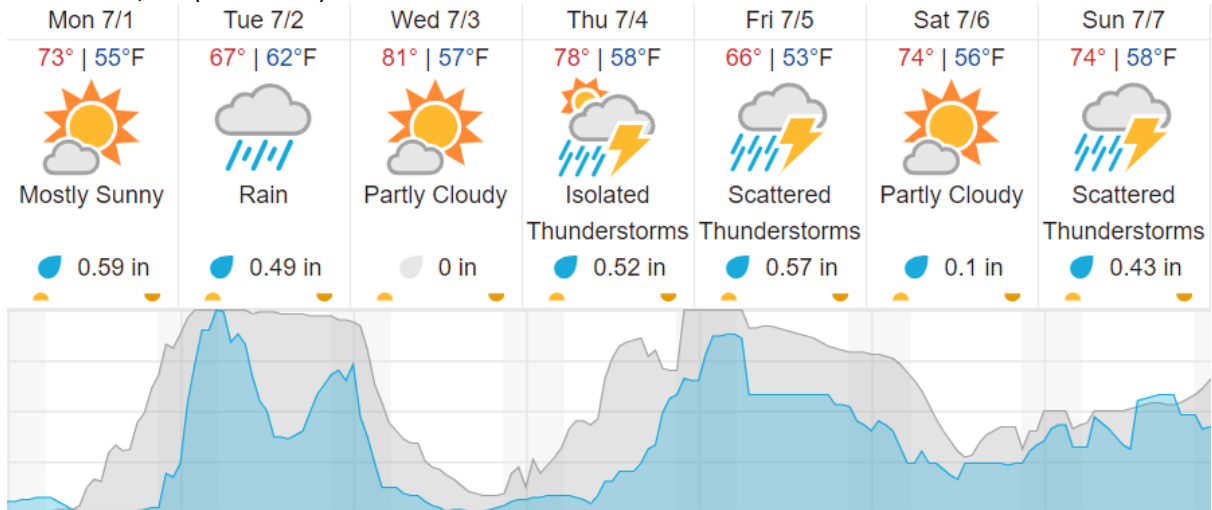
Flown: 0% (0/6)
 Green: 0% (0/6)
 Yellow: 0% (0/6)
 Red: 0% (0/6)

Weather Forecast

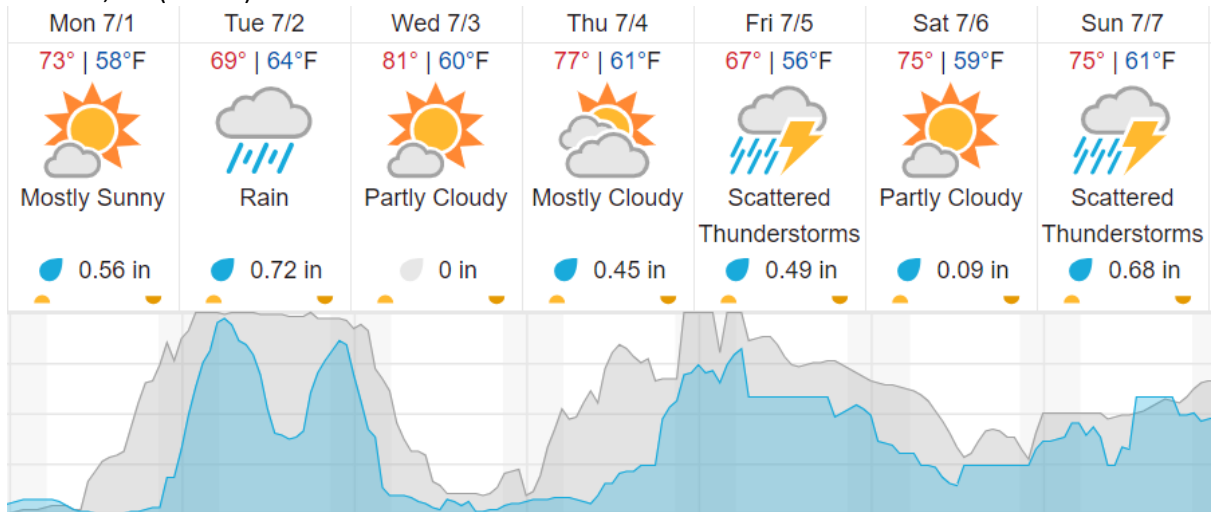
Boulder Junction, WI (UNDE, LIRO)



Tomahawk, WI (STEI-TREE)



Wausau, WI (KAUW)



source: wunderground.com

Flight Collection Plan for 1 July 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: 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)

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)