

# Payload 3 Daily Flight Report



Date: 2024-07-01

Flight Campaign ID: P3C1

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

Aircraft: N821AR

Domain: 05 (Great Lakes)

Sites Flown: LIRO (Little Rock Lake), UNDE (University of Notre Dame Environmental Research Center)

Days left in Domain: 14

Report Author: Mitch

**Lidar Operators**: Mitch Flight Hours: 02:52

Spectrometer Operators: Elissa Hours until maintenance: 28.45

Pilots: Shane, Jeff GPS Instruments: 06 - FBO\_KAUW, AOP\_UNDE, WISCORS-MAWA

### **Summary**

The flight crew mobilized on station early to better take advantage of the forecasted clear morning in northern Wisconsin. 2 lines were collected at UNDE under green conditions within the 35° solar angle, with an additional 5 more lines collected over the UNDE Tower Airshed within the 40° solar angle. LIRO, our lowest priority D05 flight box and thus least likely to be reflown under green conditions, was then collected under non-green conditions.

#### **Concerns**

None

### **Comments**

None

## **Daily Coverage**

**Estimated Cloud Cover Kev** 

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

Solar Angle Less Than 40 degrees

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## D05 | UNDE

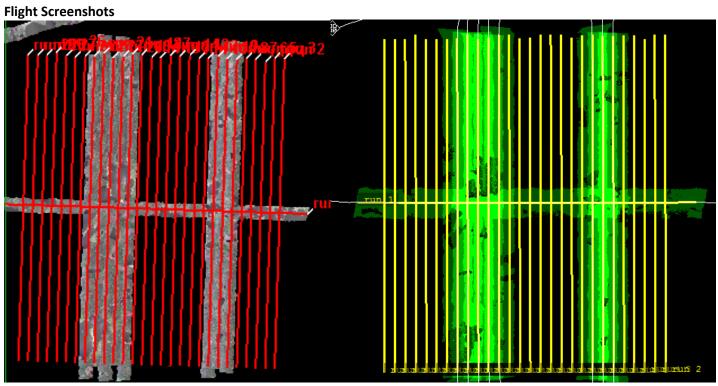
Line #	1	7	8	9	18	19	20	21	22
Lidar	<b>\</b>	<b>\</b>	<b>\</b>	<b>\</b>	<b>\</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>
Spectrometer	✓	✓	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	<b>√</b>	✓	✓	✓	✓
Cloud Cover									

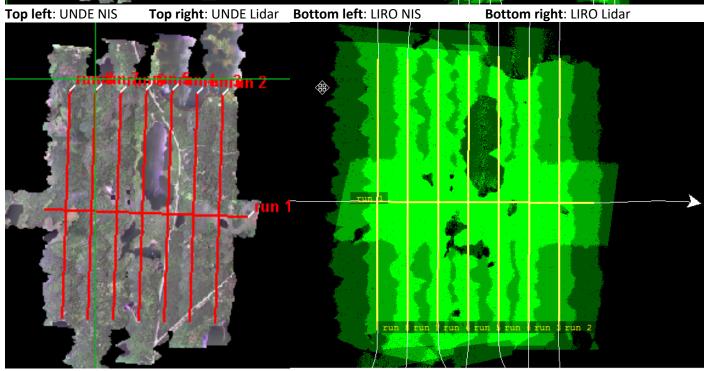
Total number of lines flown: 9

# D05|LIRO

Line #	1	2	3	4	5	6	7	8
Lidar	<b>/</b>	<b>\</b>	<b>/</b>	<b>\</b>	<b>√</b>	<b>\</b>	<b>/</b>	<b>/</b>
Spectrometer	✓	✓	<b>√</b>	✓	✓	<b>√</b>	✓	<b>√</b>
Camera	✓	✓	<b>√</b>	✓	✓	<b>√</b>	✓	<b>√</b>
Cloud Cover								

Total number of lines flown: 8





# **Pictures**





## **Cumulative Domain Coverage**

D05 | CHEQ (Chequamegon-Nicolet National Forest)

			٠												
2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17

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

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)

1	_	_	_	(	0 -				_				_	/	,				
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	20	30	21	22	22	2/	25	36	37	38	30	40	/11	//2	/13	11
<b>Z</b> /	20	L Z J	30	$\supset$ $\perp$	) J _	33	34	33	30	37	30	33	40	41	42	43	44

Flown: 100% (18/18) Green: 0% (0/18) Yellow: 61% (11/18) Red: 39% (7/18)

D05 LUNDE (University of Notre Dame Environmental Research Center)

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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)

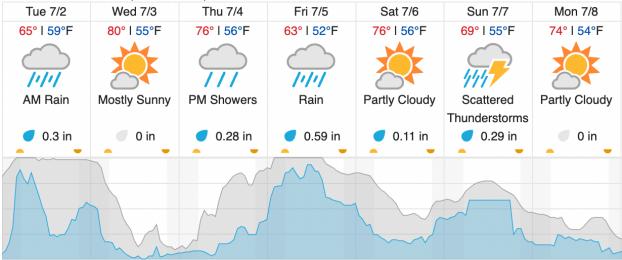
# D05 | WABI (NEON Research Support Services - Wabikon Forest Dynamics Plot)

2 3 4	1 5	6	7
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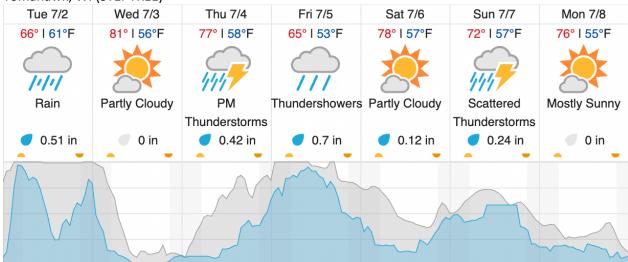
Flown: 0% (0/6) Green: 0% (0/6) Yellow: 0% (0/6) Red: 0% (0/6)

### **Weather Forecast**

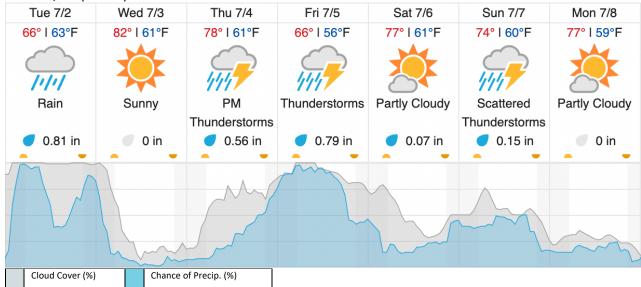
## Boulder Junction, WI (UNDE, LIRO)



# Tomahawk, WI (STEI-TREE)



# Wausau, WI (KAUW)



source: wunderground.com

## Flight Collection Plan for 2 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), 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)