



Payload 3 Daily Flight Report



Date: 2022-06-23

Flight Campaign ID: P3C1

Airport, FBO ID, City: Rhinelander-Oneida County Airport (KRHI) - Rhinelander, WI

Aircraft: N70AR

Domain: 05 (Great Lakes)

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

Days left in Domain: 8

Report Author: Elissa

Lidar Operators: Elissa

Flight Hours: 02:45

Spectrometer Operators: John

Hours until maintenance: 39.28

Pilots: Nick, Brent

GPS Instruments: WISCORS-LYNE, WISCORS-MAWA, WISCORS-RHER

Summary

A couple of cloudless hours this morning gave us time to complete UNDE in green conditions. Following that we re-collected LIRO, finishing half of the box in green and half in much better yellow conditions that the prior flight's red. This concludes surveys for D05.

Concerns

QA failed on yesterday's flight; most likely again due to known issue with STEI-TREE flight plan.

Comments

The payload was shut down after the flight today to allow the NIS chamber and getter to warm up. We will hook up the vacuum pump tomorrow.

Daily Coverage

Estimated Cloud Cover Key

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

D05|UNDE

Line #	2	3	4	5	6	7	8	25	26	27	28	29
Lidar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cloud Cover												

Total number of lines flown: 12

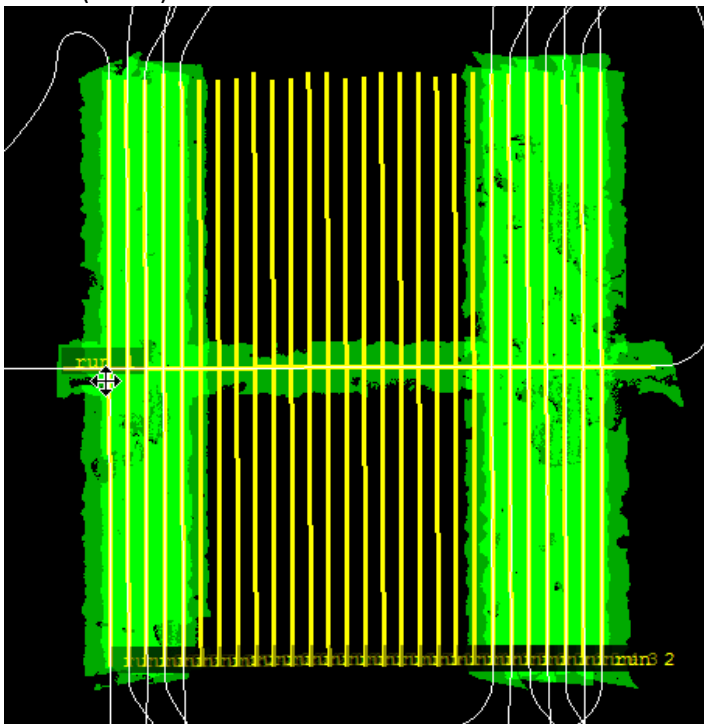
D05|LIRO

Line #	2	3	4	5	6	7	8
Lidar	✓	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓
Cloud Cover							

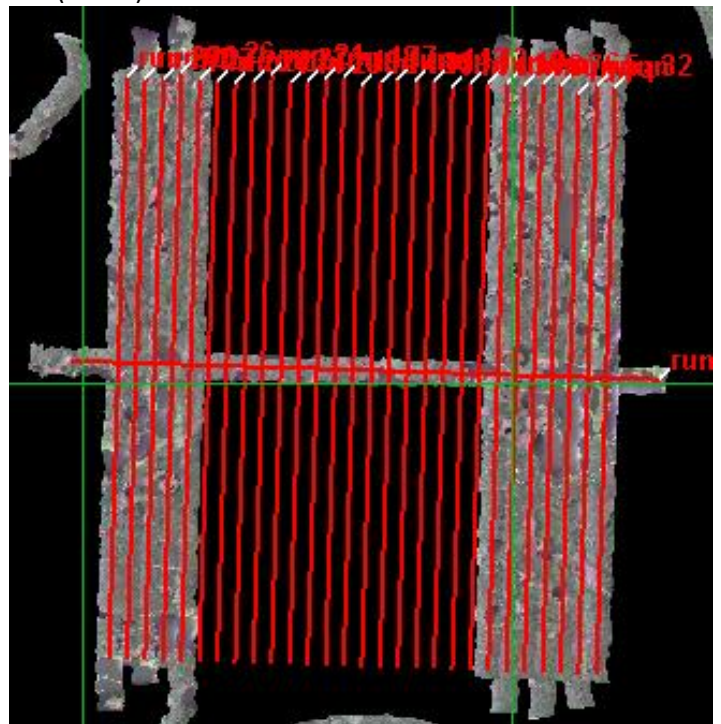
Total number of lines flown: 7

Flight Screenshots

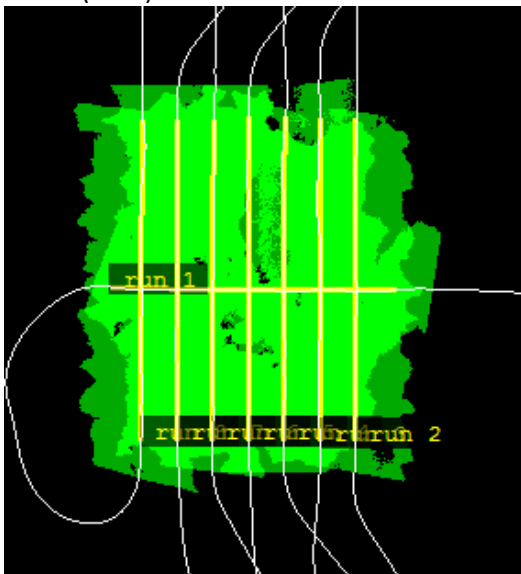
LiDAR (UNDE)



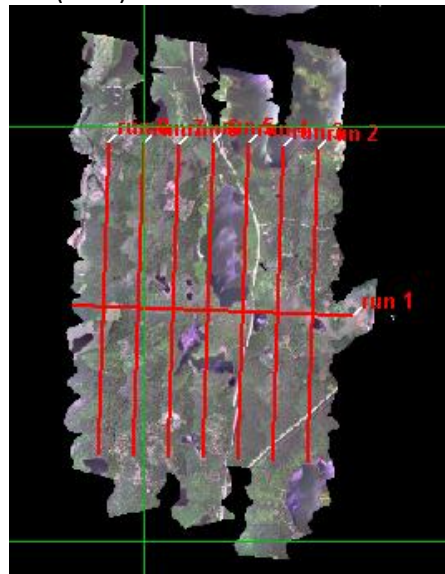
NIS (UNDE)



LiDAR (LIRO)



NIS (LIRO)



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: 100% (16/16)

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: 43% (3/7)

Yellow: 57% (4/7)

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: 100% (25/25)

Green: 100% (25/25)

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: 100% (18/18)

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: 100% (28/28)

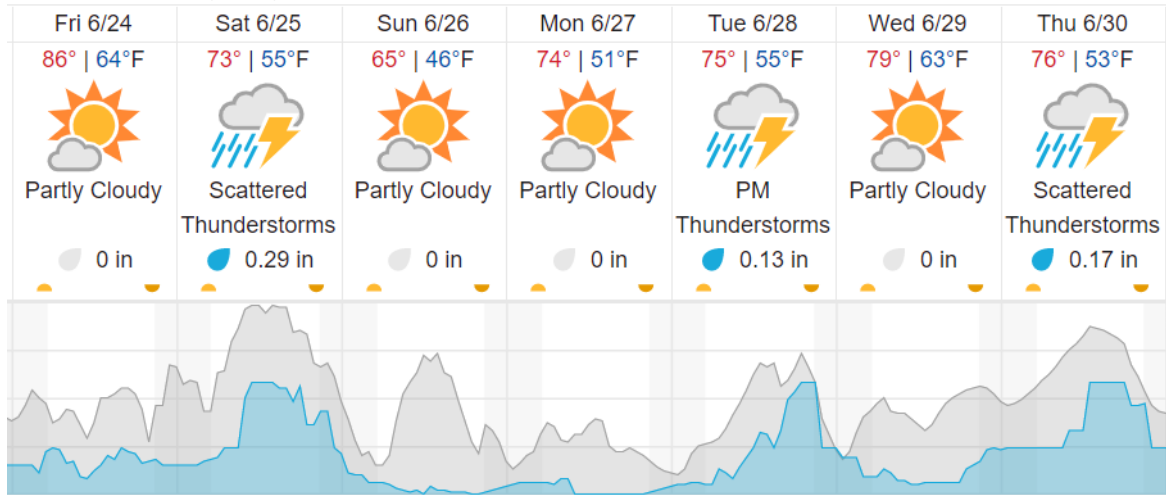
Green: 100% (28/28)

Yellow: 0% (0/28)

Red: 0% (0/28)

Weather Forecast

Rhineland, WI (KRHI)



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

Flight Collection Plan for 24 June 2022

Mission Complete; no flights planned. Continue warming up NIS.

Crew: John (Lidar), Elissa (NIS)