Payload 3 Daily Flight Report

Date: 2022-06-18
Flight Campaign ID: P3C1
Airport, FBO ID, City: Rhinelander-Oneida County Airport (KRHI) - Rhinelander, WI
Aircraft: N70AR

Domain: 05 (Great Lakes)
Sites Flown: STEI_TREE_P1 (Steigerwaldt Land Services and Treehaven Priority 1
Days left in Domain: 13

Report Author: John
Lidar Operators: John   **Flight Hours**: 02:35
Spectrometer Operators: Elissa   **Hours until maintenance**: 48.60
Pilots: Nick , Brent   **GPS Instruments**: WISCORS-RHER

Summary: Clears skies enabled us to complete STEI_TREE_P1 under Green conditions. Cloud buildup kept us from continuing our coverage over other sites.

Concerns: QA did not work over yesterday's flights, something in the run_coverage routine.

Comments: We have been having issues logging into the STEI tower camera.
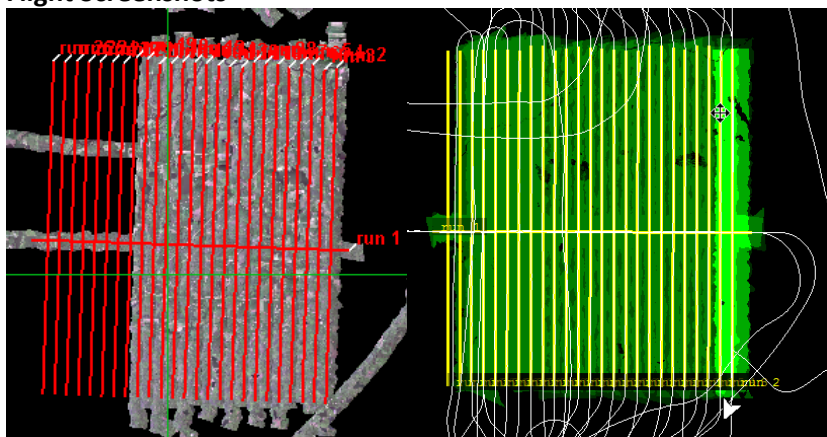
Daily Coverage

Estimated Cloud Cover Key

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

D05|STEI_TREE_P1

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

Total number of lines flown: 17

Flight Screenshots

NIS screenshot   lidar 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

Flown: 100% (16/16)
Green: 0% (0/16)
Yellow: 0% (0/16)
Red: 100% (16/16)

D05|LIRO (Little Rock Lake   )

2	3	4	5	6	7	8

Flown: 100% (7/7)
Green: 0% (0/7)
Yellow: 14% (1/7)
Red: 86% (6/7)

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

Flown: 100% (18/18)
Green: 0% (0/18)
Yellow: 17% (3/18)
Red: 83% (15/18)

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

Weather Forecast
Rhinelander, WI (KRHI, STEI-TREE)

Sun 6/19	Mon 6/20	Tue 6/21	Wed 6/22	Thu 6/23	Fri 6/24	Sat 6/25
78°	66°F	92°	72°F	91°	60°F	80°	57°F	83°	57°F	84°	60°F	81°	61°F
Partly Cloudy	Sunny	Mostly Sunny	Partly Cloudy	Partly Cloudy	Mostly Sunny	Partly Cloudy
0 in	0 in	0 in	0 in	0 in	0 in	0.05 in
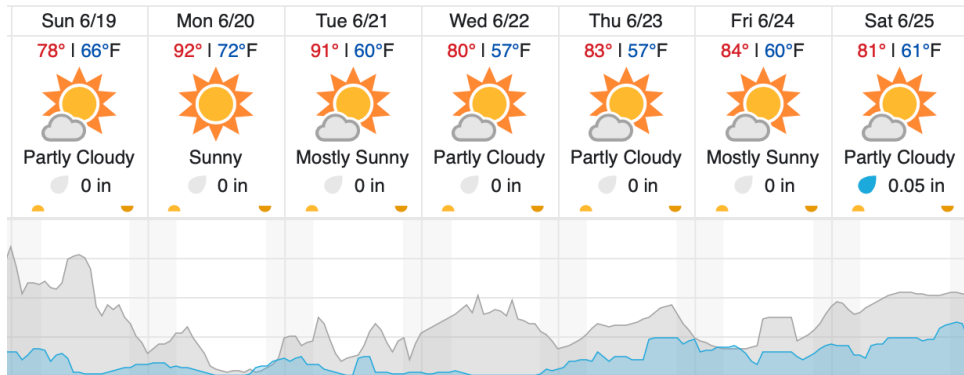
Boulder Junction, WI (UNDE)

Sun 6/19	Mon 6/20	Tue 6/21	Wed 6/22	Thu 6/23	Fri 6/24	Sat 6/25
79°	67°F	92°	72°F	91°	60°F	79°	57°F	82°	57°F	83°	61°F	81°	60°F
Partly Cloudy	Sunny	Mostly Sunny	Partly Cloudy	Mostly Sunny	Mostly Sunny	PM Thunderstorms
0 in	0 in	0 in	0 in	0 in	0 in	0.11 in

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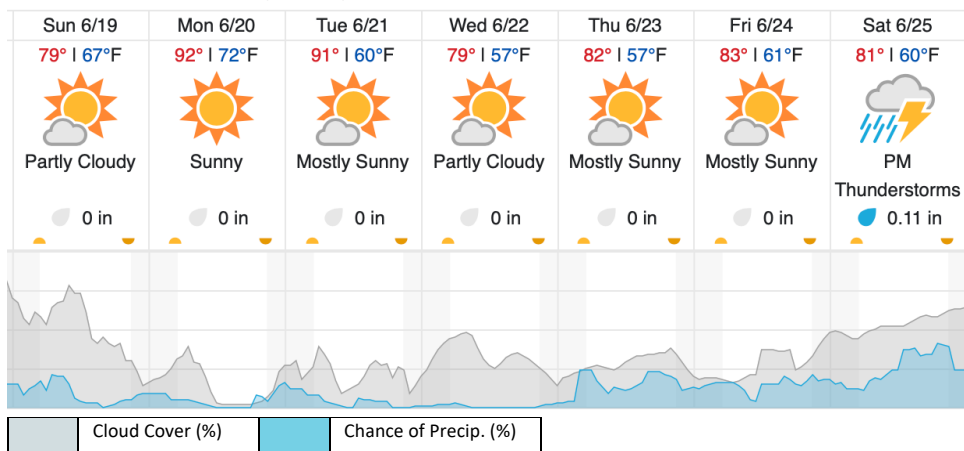
source: wunderground.com

Flight Collection Plan for 19 June 2022
Flyority 1: *(if green)*:
Collection Area: Chequamegon-Nicolet National Forest (CHEQ)
Flight plan name: D05_CHEQ_R2_P1_v3_Q780
On-Station Time: 1420 UTC / 0920 L

Flyority 2:
Collection Area: UNDERC (UNDE)
Flight plan name: D05_UNDE_C1_P1_v2_Q780
On-Station Time: 1420 UTC / 0920 L

Flyority 3: *(if green)*:
Collection Area: Little Rock Lake (LIRO)
Flight plan name: D05_LIRO_A1_P2_v2_Q780
On-Station Time: 1420 UTC / 0920 L

Flyority 4: *(if green)*:
Collection Area: Steigerwaldt Land Services - Treehaven (STEI-TREE) – Priority 2 Flight Box
Flight plan name: D5_STEI_TREE_R1_P2_v3_Q780
On-Station Time: 1420 UTC / 0920 L

Crew: Elissa (Lidar), John (NIS)