Payload 3 Daily Flight Report

Date: 2020-08-17
Flight Campaign ID: P3C1
Airport, FBO ID, City: Rhinelander-Oneida County Airport (KRHI) - Rhinelander, WI

Domain: 05 (Great Lakes)
Sites Flown: CHEQ (Chequamegon-Nicolet National Forest)
Days left in Domain: 1

Report Author: Elissa Barris
Lidar Operators: Elissa Barris   **Flight Hours**: 00:52
Spectrometer Operators: Mitch Haynes   **Hours until maintenance**: 42.48
Pilots: Mike Francis, Lane Taylor   **GPS Instruments**: WISCORS-LYNE, WISCORS-RHER
Ground Crew: Cameron Chapman

Summary
Conditions in the early morning were promising for potential yellow or green collection, but quickly deteriorated nearing the solar angle time. Collection was cut short by the development of large cumulus clouds below flight altitude.

Concerns
None.

Comments
Pilots switched invertors today and no AXE power issues were observed.
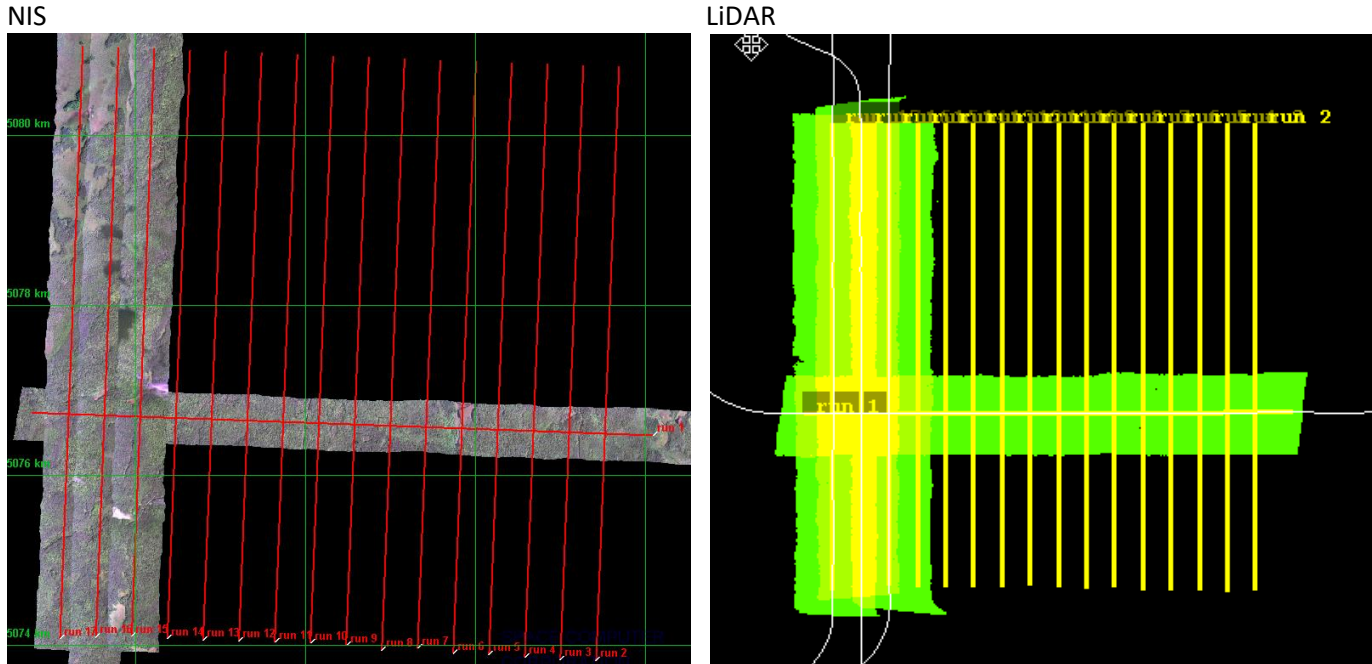
Daily Coverage

Estimated Cloud Cover Key

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

D05|CHEQ

Line #	1	16	17
Lidar	✓	✓	✓
Spectrometer		✓	✓
Camera	✓	✓	✓
Cloud Cover		🟥	🟥

Total number of lines flown: 3

Flight Screenshots

NIS

LiDAR

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: 12% (2/16)
Green: 0% (0/16)
Yellow: 0% (0/16)
Red: 12% (2/16)

D05|LIRO (Little Rock Lake)

2	3	4	5	6	7	8

Flown: 100% (7/7)
Green: 0% (0/7)
Yellow: 0% (0/7)
Red: 100% (7/7)

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)
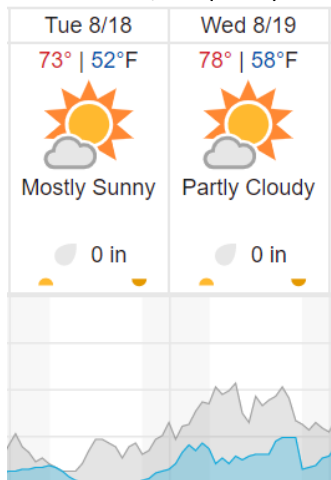Yellow: 0% (0/18)
Red: 100% (18/18)

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

Rhinelander, WI (KRHI)

Tue 8/18	Wed 8/19
73° | 52°F	78° | 58°F
Mostly Sunny	Partly Cloudy
0 in	0 in

	Cloud Cover (%)		Chance of Precip. (%)

Flight Collection Plan for 18 August 2020

Flyority 1
Collection Area: Chequamegon-Nicolet National Forest (CHEQ)
Flight Plan Name: D05_CHEQ_R2_P1_v3_Q780
On-station Time: 1000 L / 1500 UTC

Flyority 2 (If Green)
Collection Area: Little Rock Lake (LIRO)
Flight Plan Name: D05_LIRO_A1_P2_v2_Q780
On-station Time: 1000 L / 1500 UTC

Flyority 3 (If Green)
Collection Area: Steigerwaldt Land Services – Treehaven (STEI-TREE) Priority 2 Flight Box
Flight Plan Name: D05_STEI_TREE_R1_P2_v3_Q780
On-station Time: 1000 L / 1500 UTC

Crew: Mitch Haynes (Lidar), Cameron Chapman (NIS), Elissa Barris (Ground/GPS)