



Payload 3 Daily Flight Report



Date: 2020-07-28

Flight Campaign ID: P3C1

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

Domain: 05 (Great Lakes)

Sites Flown: STEI_TREE_P1 (Steigerwaldt Land Services and Treehaven Priority 1)

Days left in Domain: 21

Report Author: Cameron Chapman

Lidar Operators: Cameron Chapman **Flight Hours:** 01:18

Spectrometer Operators: Elissa Barris **Hours until maintenance:** 54.55

Pilots: Micah Hogeveen, Lane Taylor **GPS Instruments:** WISCORS-RHER

Ground Crew: Mitch Haynes

Summary

Clear morning skies allowed for the collection of 9 lines over STEI_TREE's priority area in mixed cloud conditions before the rapidly forming, and very aggressive, cumulus clouds dominated the sky.

Concerns

- STEI_TREE's tower camera appears to have limited remote connectivity.
- Recent flight database updates are being reviewed as some features are no longer functional.
- The telemetry reads "no data points" for a few thermocouples, as a result, the cabin monitor is not displaying temp & pressure.

Comments

- None

Daily Coverage

Estimated Cloud Cover Key

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

D05 | STEI_TREE_P1

Line #	1	26	25	24	23	22	21	20	19
Lidar	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cloud Cover									

Total number of lines flown: 09

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: 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: 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
----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

Flown: 0% (0/18)

Green: 0% (0/18)

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: 0% (0/28)

Green: 0% (0/28)

Yellow: 0% (0/28)

Red: 0% (0/28)

Pictures:



Above: Sky prior to takeoff as observed from KRHI

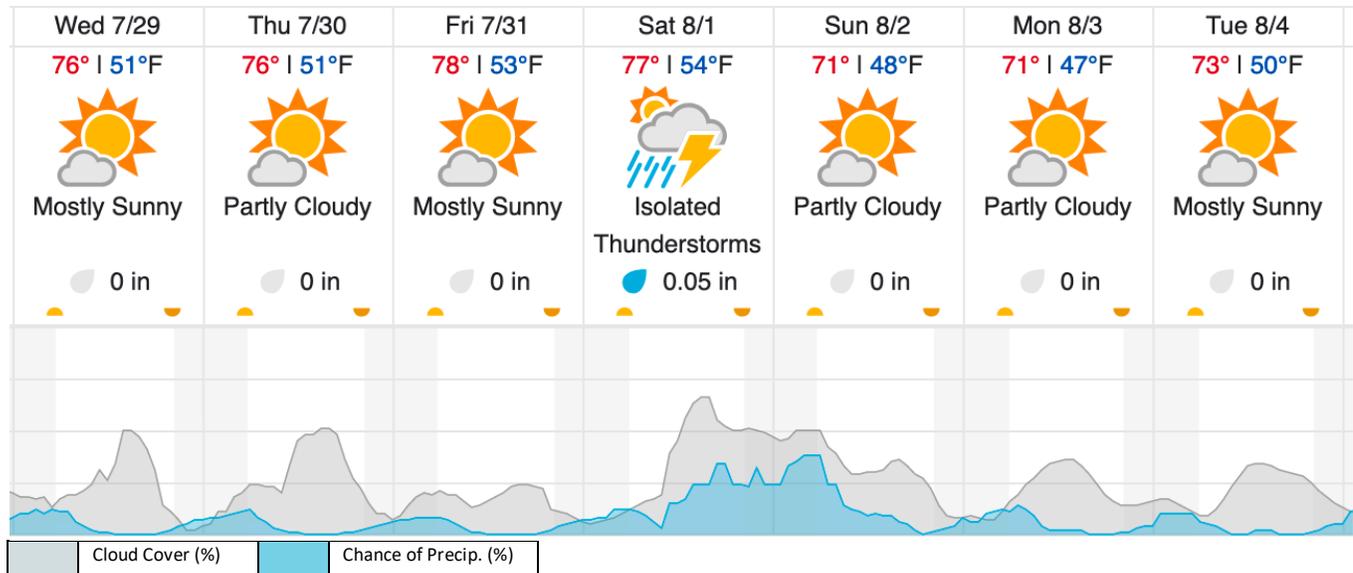


**Above: Image captured while flying Steigerwaldt Land Services and Treehaven 0728
Below: The Sky after the flights as observed from KRHI**



Weather Forecast

Rhineland, WI



Flight Collection Plan for 29 July 2020

Flyority 1

Collection Area: Steigerwaldt Land Services (STEI) – Treehaven (TREE)

Flight Plan Name: D05_STEI_TREE_R1_P1_v3_Q780

On-station Time: 0940 L / 1440 UTC

Flyority 2

Collection Area: UNDERC (UNDE)

Flight Plan Name: D05_UNDE_C1_P1_v2_Q780

On-station Time: 0940 L / 1440 UTC

Flyority 3

Collection Area: Chequamegon-Nicolet National Forest (CHEQ)

Flight Plan Name: D05_CHEQ_R2_P1_v3_Q780

On-station Time: 0940 L / 1440 UTC

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