



Payload 3 Daily Flight Report



**Date:** 2020-08-06

**Flight Campaign ID:** P3C1

**Airport, FBO ID, City:** Boulder Municipal Airport (KBDU) - Boulder, CO

**Domain:** 05 (Great Lakes)

**Sites Flown:** STEI\_TREE\_P2 (Steigerwaldt Land Services and Treehaven Priority 2), UNDE (University of Notre Dame Environmental Research Center)

**Days left in Domain:** 12

**Report Author:** Mitch Haynes

**Lidar Operators:** Mitch Haynes

**Spectrometer Operators:** Cameron Chapman

**Pilots:** Micah Hoogeveen, Lane Taylor

**Ground Crew:** Elissa Barris

**Flight Hours:** 03:23

**Hours until maintenance:** 49.40

**GPS Instruments:** AOP\_UNDE, WISCORS-RHER

**Summary**

Clear skies this morning allowed the crew to start chipping away at the UNDE airshed & TOS, where 6 lines were flown under green conditions. Once cumulus clouds began popping up, the crew shifting attention to the lowest priority P2 box at STEI-TREE, where they were just able to squeak under cloud tops to collect 18 lines under red conditions.

**Concerns**

- Pilot display froze during startups and required power cycling while still on the ground. No issues in flight.

**Comments**

- None

**Daily Coverage**

Estimated Cloud Cover Key

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

D05|UNDE

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

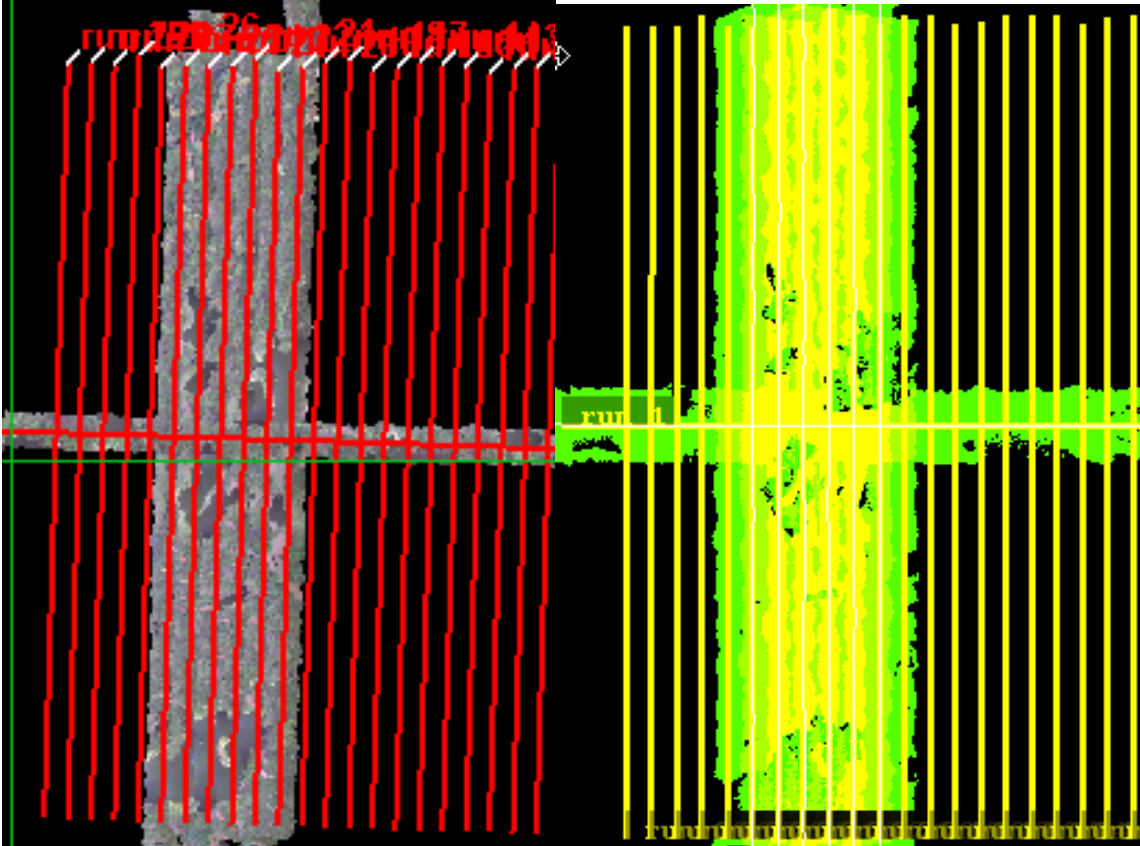
Total number of lines flown: 6

D05|STEI\_TREE\_P2

Line #	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44
Lidar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cloud Cover																		

Total number of lines flown: 18

Flight Screenshots

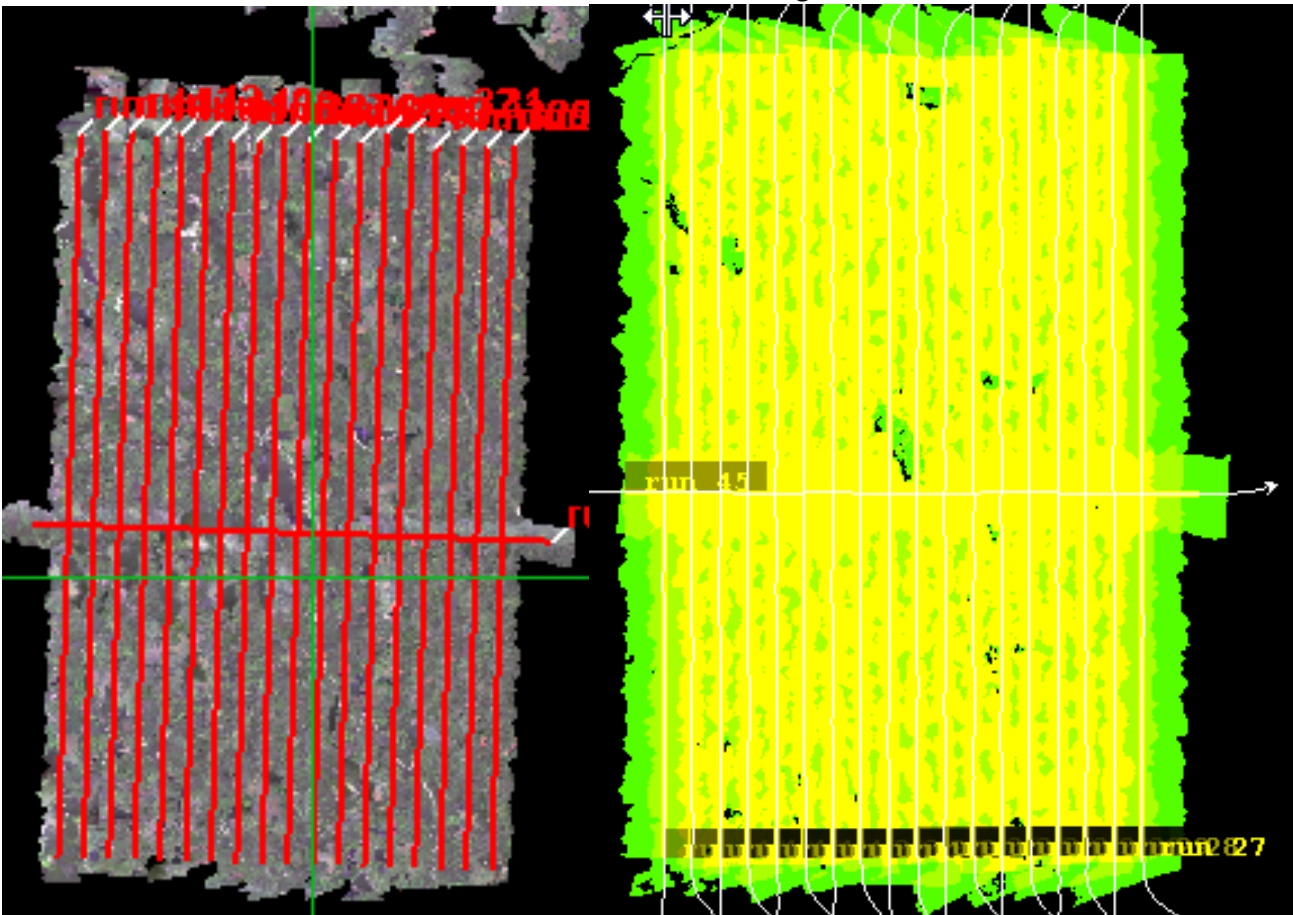


Top Left: NIS screenshot from UNDE

Top Right: Lidar screenshot from UNDE

Bottom Left: NIS screenshot STEI-TREE P2

Bottom Right: Lidar screenshot from STEI-TREE P2



**Pictures:** View at UNDERC at the start of collect this morning.



**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: 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
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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: 56% (14/25)

Green: 56% (14/25)

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

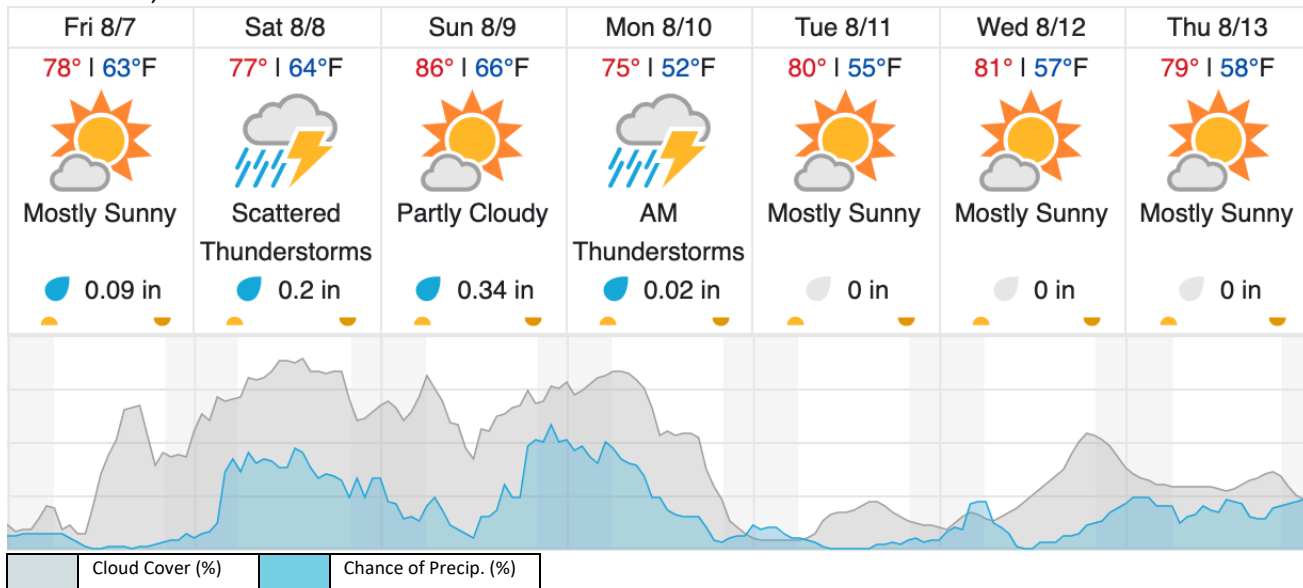
D05 | UNDE (University of Notre Dame Environmental Research Center)

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: 21% (6/28)  
 Green: 21% (6/28)  
 Yellow: 0% (0/28)  
 Red: 0% (0/28)

**Weather Forecast**

Rhinlander, WI



**Flight Collection Plan for 07 August 2020**

**Flyority 1**

Collection Area: Steigerwaldt Land Services (STEI) – Treehaven (TREE)  
 Flight Plan Name: D05\_STEI\_TREE\_R1\_P1\_v3\_Q780  
 On-station Time: 0950 L / 1450 UTC

**Flyority 2**

Collection Area: UNDERC (UNDE)  
 Flight Plan Name: D05\_UNDE\_C1\_P1\_v2\_Q780  
 On-station Time: 0950 L / 1450 UTC

**Flyority 3**

Collection Area: Chequamegon-Nicolet National Forest (CHEQ)  
 Flight Plan Name: D05\_CHEQ\_R2\_P1\_v3\_Q780  
 On-station Time: 0950 L / 1450 UTC

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