



Payload 1 Daily Flight Report



Date: 2024-09-05
Flight Campaign ID: P1C1
Airport, FBO ID, City: Nashua Airport at Boire Field (KASH) - Nashua, NH
Aircraft: N615AR

Domain: 01 (Northeast)
Sites Flown: BART (Bartlett Experimental Forest), TMSF (Thompson Farms RSS)
Days left in Domain: 2

Report Author: John
Lidar Operators: John **Flight Hours:** 02:40
Spectrometer Operators: Mike **Hours until maintenance:** 45.22
Pilots: Justin, Will **GPS Instruments:** 07 - KASH, AOP_BART

Summary: Haze and smoke were present at our remaining two sites, but there was no moisture and minimal cumulous clouds. We finished gathering data at these sites since the weather forecast for the next two days is poor.

Concerns: None.

Comments: The NIS required a few restarts again today to get normal DN values.

Daily Coverage

Estimated Cloud Cover Key

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

Solar Angle Less Than 40 degrees

Line #

D01|BART

Line #	17	18	19	20	21	22	23	24
Lidar	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓	✓
Cloud Cover								

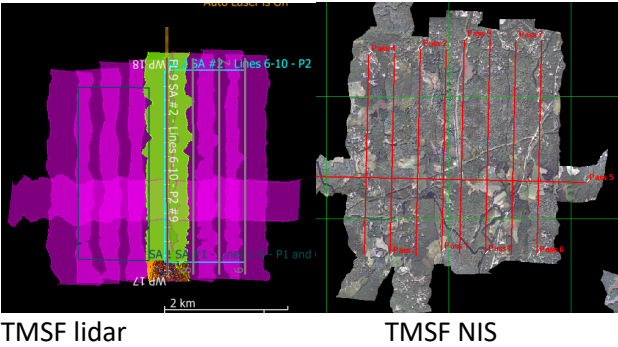
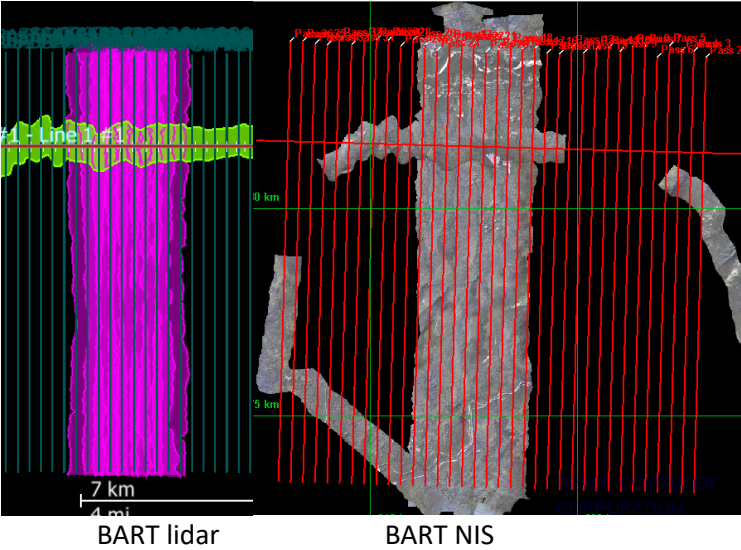
Total number of lines flown: 8

D01|TMSF

Line #	1	2	3	4	5	6	7	8	9
Lidar	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cloud Cover									

Total number of lines flown: 9

Flight Screenshots



Cumulative Domain Coverage

D01|BART (Bartlett Experimental Forest)

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	30	31	32	33	34	35	36					

Flown: 100% (35/35)
Green: 0% (0/35)
Yellow: 77% (27/35)
Red: 23% (8/35)

D01|HARV_P1 (Harvard Forest 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	27	28	29												

Flown: 100% (28/28)
Green: 100% (28/28)
Yellow: 0% (0/28)
Red: 0% (0/28)

D01|HARV_P2 (Harvard Forest Priority 2)

31	32	33	34	35	36	37
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Flown: 100% (7/7)
Green: 100% (7/7)
Yellow: 0% (0/7)
Red: 0% (0/7)

D01|HOPB (Hop Brook)

2	3	4	5	6	7	8	9	10
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Flown: 100% (9/9)
Green: 100% (9/9)
Yellow: 0% (0/9)
Red: 0% (0/9)

D01|N01A (D01 Nominal Runway)

1	2
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Flown: 100% (2/2)
Green: 0% (0/2)
Yellow: 100% (2/2)
Red: 0% (0/2)

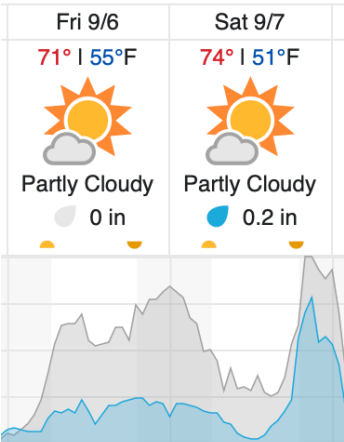
D01|TMSF (Thompson Farms RSS)

1	2	3	4	5	6	7	8	9
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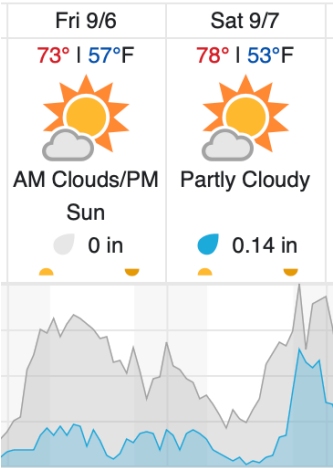
Flown: 100% (9/9)
Green: 0% (0/9)
Yellow: 0% (0/9)
Red: 100% (9/9)

Weather Forecast

Bartlett, NH (BART)



Durham, NH (TMSF)



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

Flight Collection Plan for 06 September 2024

Flyority 1 if Green conditions:
Collection Area: Bartlett Experimental Forest (BART)
Flight Plan Name: D01_BART_R1_P1_v2_PRM.xml
On-station Time: 1410 UTC / 1010 L

Flyority 2 if Green conditions:
Collection Area: Thompson Farms (TMSF)
Flight Plan Name: D01_TMSF_S1_P1_P2_v3.xml
On-station Time: 1410 UTC / 1010 L

Crew: Mike (Lidar), John (NIS)