



Payload 1 Daily Flight Report



Date: 2024-09-03

Flight Campaign ID: P1C1

Airport, FBO ID, City: Nashua Airport at Boire Field (KASH) - Nashua, NH

Aircraft: N615AR

Domain: 01 (Northeast)

Sites Flown: HARV_P1 (Harvard Forest Priority 1)

Days left in Domain: 4

Report Author: John

Lidar Operators: John

Spectrometer Operators: Mike

Pilots: Justin, Will

Flight Hours: 03:45

Hours until maintenance: 50.80

GPS Instruments: 07 - KASH, AOP_HARV

Summary: Clear skies allowed us to complete today's collection under 100% Green conditions at HARV.

Concerns: We experienced numerous low DN's during our pre-flight of the NIS; eventually we got the system going after ~5 reboots. Also, the POS system again stopped copying over the POS files about 1/2 way through its post-flight routine.

Comments: Shipping back RAID's 24 and 25 tomorrow, along with a pallet of AOP mission equipment.

Daily Coverage

Estimated Cloud Cover Key

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

Solar Angle Less Than 40 degrees

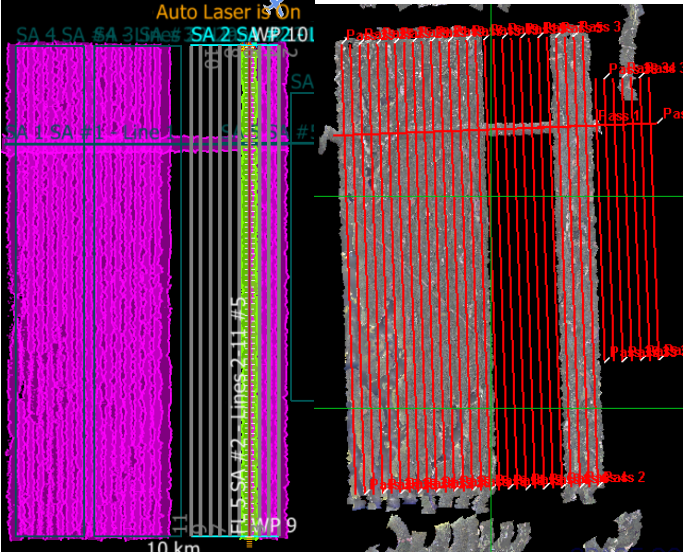
Line #

D01|HARV_P1

Line #	2	3	4	5	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29
Lidar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cloud Cover																				

Total number of lines flown: 20

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: 77% (27/35)
Green: 0% (0/35)
Yellow: 77% (27/35)
Red: 0% (0/35)

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

D01|HOPB (Hop Brook)

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

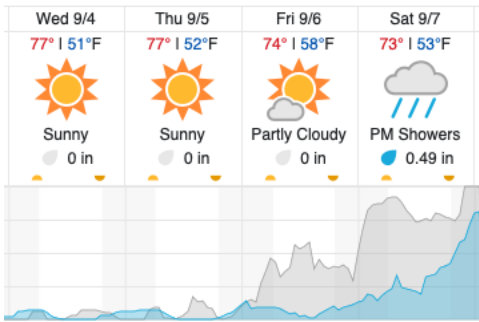
D01|N01A (D01 Nominal Runway)

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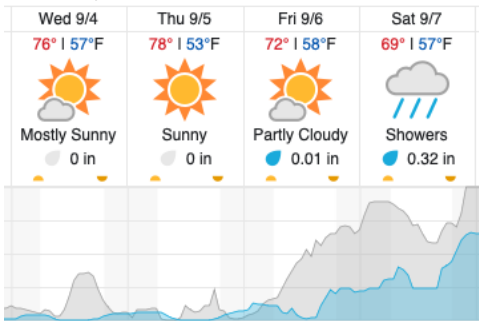
Flown: 100% (2/2)
Green: 0% (0/2)
Yellow: 100% (2/2)
Red: 0% (0/2)

Weather Forecast

Petersham, MA



Bartlett, NH



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

Flight Collection Plan for 04 September 2024

Flyority 1:

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:

Collection Area: Hop Brook (HOPB)

Flight Plan Name: D01_HOPB_A1_P1_v2_PRM.xml

On-station Time: 1410 UTC / 1010 L

Flyority 3: *(if green)*

Collection Area: Harvard Forest – Priority 2 (HARV_P2)

Flight Plan Name: D01_HARV_C1_P1_P2_v4_PRM.xml

On-station Time: 1410 UTC / 1010 L

Flyority 4:

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)