



## Payload 2 Daily Flight Report



**Date:** 2025-08-02

**Flight Campaign ID:** P2C1

**Airport, FBO ID, City:** Fairbanks International Airport (PAFA) - Fairbanks, AK

**Aircraft:** N615AR

**Domain:** 19 (Taiga)

**Sites Flown:** BONA (Caribou Creek and Poker Flats Watershed ), HEAL (Healy )

**Days left in Domain:** 4

**Report Author:** John

**Lidar Operators:** John

**Spectrometer Operators:** Mike

**Pilots:** Manning, Vince

**Flight Hours:** 01:32, 02:42

**Hours until maintenance:** 60.47

**GPS Instruments:** UAF-PFRR, U-CLGO, U-GRNX

### Summary

Today's BONA flight captured lidar data on all lines, but there were plenty of clouds obscuring the NIS. We were able to finish the HEAL site, but it was quite dark due to overhead clouds.

### Concerns

None.

### Comments

None.

### Daily Coverage

Estimated Cloud Cover Key

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

Solar Angle Less Than 40 degrees: (\*)

D19|BONA

Line #	8	39	40	41	42	43	44	45	46
Lidar	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cloud Cover									

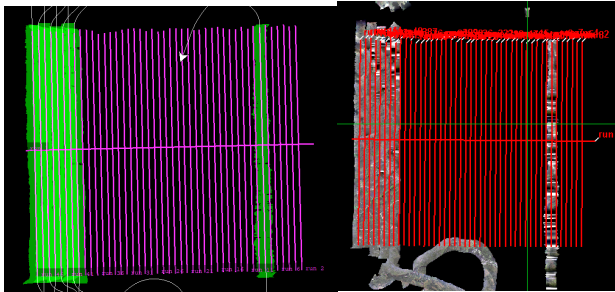
Total number of lines flown: 9

## D19|HEAL

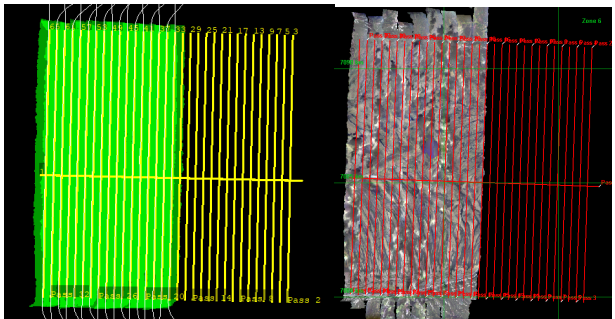
Line #	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
Lidar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cloud Cover																	

Total number of lines flown: 17

## Flight Screenshots



lidar screenshot BONO    NIS screenshot BONO



lidar screenshot HEAL    NIS screenshot HEAL

## Cumulative Domain Coverage

### D19|BONA (Caribou Creek and Poker Flats Watershed )

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	30	31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46														

Flown: 100% (46/46)

Green: 59% (27/46)

Yellow: 9% (4/46)

Red: 33% (15/46)

\* Flown within 35deg solar angle

### D19|DEJU (Delta Junction)

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	30	31	32								

Flown: 31% (10/32)

Green: 16% (5/32)

Yellow: 9% (3/32)

Red: 6% (2/32)

\* Flown within 35deg solar angle

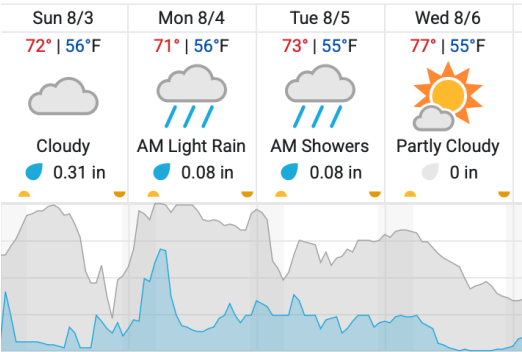
D19 | HEAL (Healy )

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	30	31	32	33							

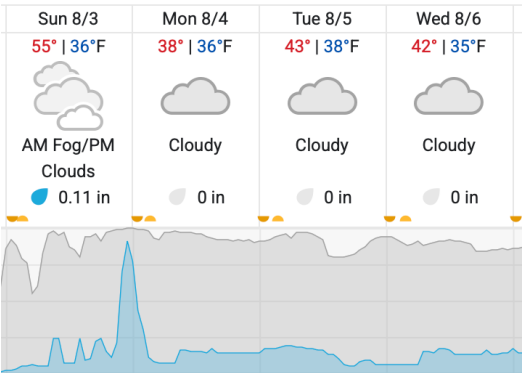
Flown: 100% (33/33)  
Green: 0% (0/33)  
Yellow: 48% (16/33)  
Red: 52% (17/33)  
\* Flown within 35deg solar angle

Weather Forecast

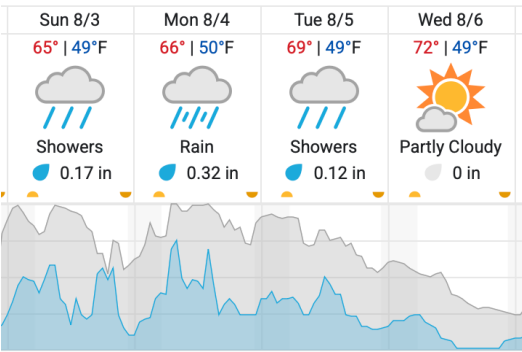
Fairbanks, AK (FBO-PAFA, BONA)



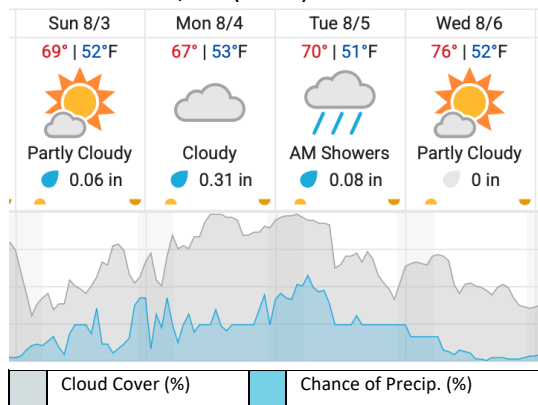
Utqiagvik, AK (BARR)



Healy, AK (HEAL)



## Delta Junction, AK (DEJU)



source: wunderground.com

## Flight Collection Plan for August 3rd 2025

### Flyority 1

Collection Area: Barrow Environmental Observatory (BARR) - Priority 1 Flight Box

Flight Plan Name: D18\_BARR\_R1\_P1\_P2\_P3\_v6\_VQ780

On-Station Time: (35 degrees): 2130 UTC / 1330 L

### Flyority 2

Collection Area: Barrow Environmental Observatory (BARR) - Priority 2 Flight Box

Flight Plan Name: D18\_BARR\_R1\_P2\_v5\_Q780.pln

On-Station Time: (35 degrees): 2130 UTC / 1330 L

### Flyority 3

Collection Area: Barrow Environmental Observatory (BARR) - Priority 3 Flight Box

Flight Plan Name: D18\_BARR\_R1\_P3\_v5\_Q780.pln

On-Station Time: (35 degrees): 2130 UTC / 1330 L

### Flyority 4

Collection Area: Caribou Creek – Poker Flats Watershed – BONA

Flight Plan Name: D19\_BONA\_C1\_P1\_v3\_VQ780

On-Station Time: (35 degrees): 1920 UTC / 1120 L

### Flyority 5

Collection Area: Healy - HEAL

Flight Plan Name: D19\_HEAL\_R3\_P1\_v3\_Q780

On-Station Time: (35 degrees): 1900 UTC / 1100 L

### Flyority 6

Collection Area: Delta Junction -DEJU

Flight Plan Name: D19\_DEJU\_R1\_P2\_v6\_VQ780

On-Station Time: (35 degrees): 1900 UTC / 1100 L

Crew: Mike (lidar), John (NIS)