

Payload 2 Daily Flight Report



Date: 2025-08-01

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)

Days left in Domain: 5

Report Author: Mike

Lidar Operators: Mike Flight Hours: 04:01

Spectrometer Operators: John **Hours until maintenance**: 64.70 **Pilots**: Vince, Manning **GPS Instruments**: UAF-PFRR, U-CLGO

Summary

A high-pressure system sat over Fairbanks today and kept clouds from forming until late in the afternoon. We were able to get airborne and collect a large portion of BONA in cloud free conditions; 27 lines in green and 4 in yellow.

Concerns

The camera computer experienced a buffer overflow issue midway into the flight. This caused the camera to completely lock up, and in-air reboot of camera was not possible. Unfortunately, camera imagery was not collected on 11 lines.

Comments

None

Daily Coverage

Estimated Cloud Cover Key

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

Solar Angle Less Than 40 degrees: (*)

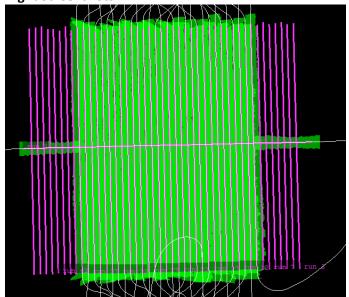
D19|BONA

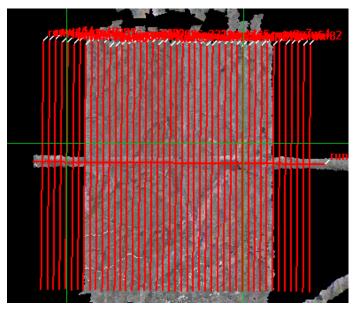
Line #	1	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
Lidar	√	\	✓	✓	✓	✓	✓	✓	✓	✓	✓	\	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer	✓	√	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Camera												✓	✓	✓	✓	✓	✓	✓	✓	✓
Cloud Cover																				

Line #	28	29	30	31	32	33	34	35	36	37	38
Lidar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	√
Cloud Cover											

Total number of lines flown: 31

Flight Screenshots





Pictures



Clear skies over the Alaskan Interior.

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: 80% (37/46) Green: 59% (27/46) Yellow: 9% (4/46) Red: 13% (6/46)

D19 | DEJU (Delta Junction)

1												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)

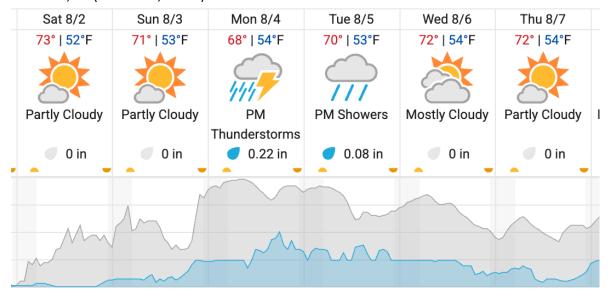
D19 | HEAL (Healy)

_			_ \																
														15	16	17	18	19	20
Γ	21	22	23	24	25	26	27	28	29	30	31	32	33		•	•	•	•	

Flown: 48% (16/33) Green: 0% (0/33) Yellow: 48% (16/33) Red: 0% (0/33)

Weather Forecast

Fairbanks, AK (FBO-PAFA, BONA)

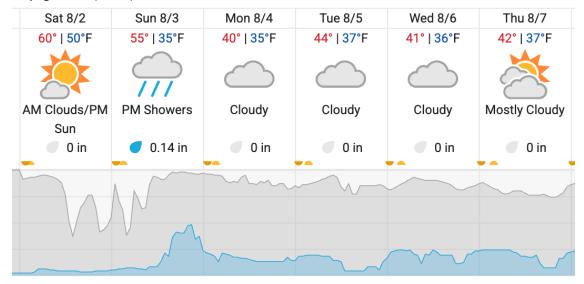


^{*} Flown within 35deg solar angle

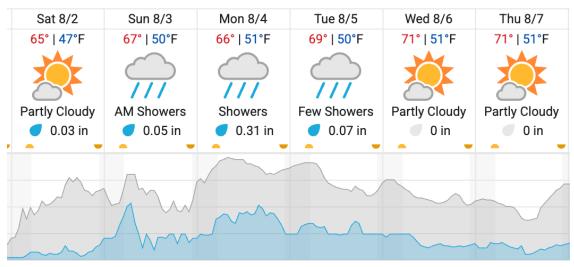
^{*} Flown within 35deg solar angle

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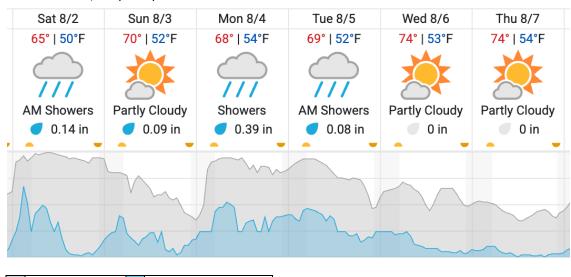
Utqiagvik, AK (BARR)



Healy, AK (HEAL)



Delta Junction, AK (DEJU)



Cloud Cover (%) Chance of Precip. (%)

source: wunderground.com

Flight Collection Plan for August 2nd 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): 2120 UTC / 1320 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): 2120 UTC / 1320 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): 2120 UTC / 1320 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): 1910 UTC / 1110 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: John (lidar), Mike (NIS)