



Payload 2 Daily Flight Report



Date: 2025-07-27

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), DEJU (Delta Junction)

Days left in Domain: 11

Report Author: John

Lidar Operators: John

Spectrometer Operators: Mike

Pilots: Manning, Vince

Flight Hours: 03:45

Hours until maintenance: 68.72

GPS Instruments: U-AC71, U-AC72, UAF-PFRR, U-CLGO

Summary

We flew the P1 Box at Delta Junction, but at a few hundred feet above the nominal flight plan due to lidar shutoff issues. This turned out to be a short-term problem as John M. was able to help us figure out the issue; thanks John! We then continued on to BONA after cumulus clouds pushed us out of the DEJU area.

Concerns

None.

Comments

Thanks to Matt for sending us the Fairbanks hangar power adapter. P2 is now off the GPU, and back on regular shore power.

Daily Coverage

Estimated Cloud Cover Key

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

Solar Angle Less Than 40 degrees: (*)

D19|DEJU

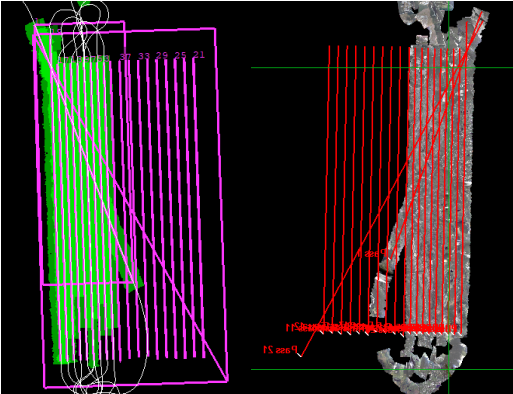
Line #	1	2	3	4	5	6	7	8	9	10
Lidar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer		✓	✓	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cloud Cover										

Total number of lines flown: 10

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

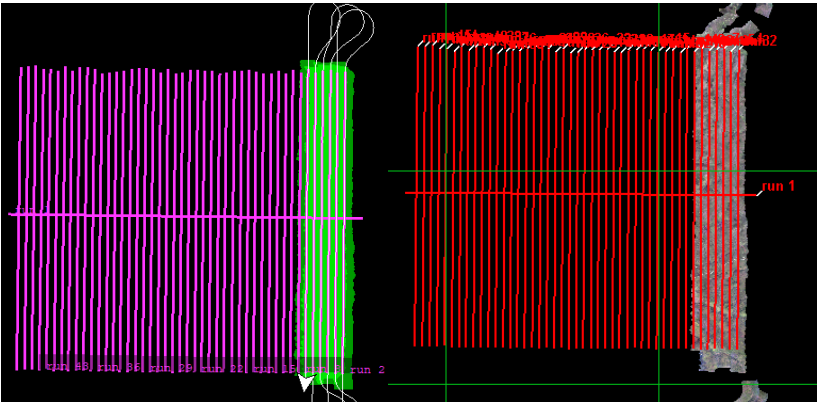
Total number of lines flown: 6

Flight Screenshots



DEJU lidar

DEJU NIS



BONA lidar

BONA NIS

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: 15% (7/46)

Green: 0% (0/46)

Yellow: 2% (1/46)

Red: 13% (6/46)

* 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

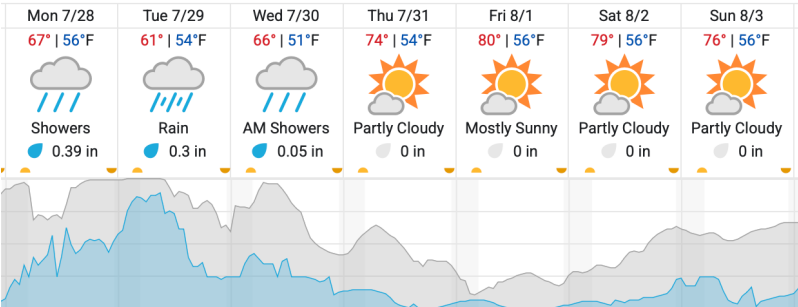
D19|HEAL (Healy)

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							

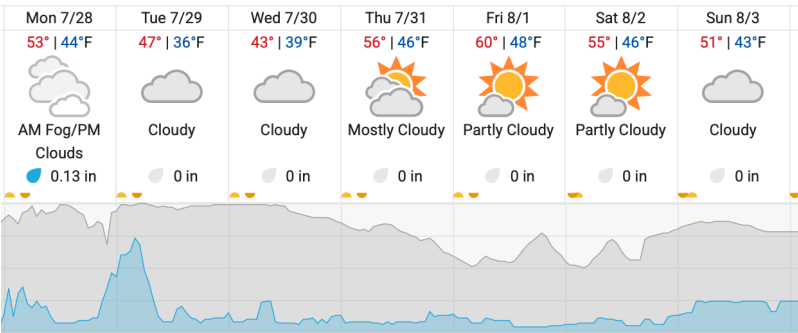
Flown: 48% (16/33)
Green: 0% (0/33)
Yellow: 48% (16/33)
Red: 0% (0/33)
* Flown within 35deg solar angle

Weather Forecast

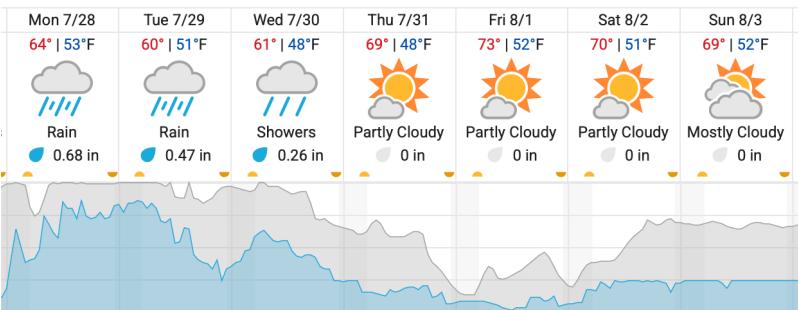
Fairbanks, AK (FBO-PAFA, BONA)



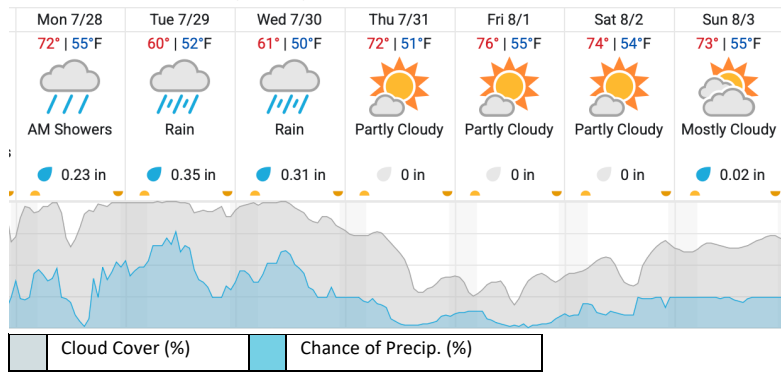
Utqiagvik, AK (BARR)



Healy, AK (HEAL)



Delta Junction, AK (DEJU)



source: wunderground.com

Flight Collection Plan for July 28th 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): 2010 UTC / 1210 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): 2010 UTC / 1210 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): 2010 UTC / 1210 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): 1840 UTC / 1040 L

Flyority 5

Collection Area: Healy - HEAL

Flight Plan Name: D19_HEAL_R3_P1_v3_Q780

On-Station Time: (35 degrees): 1840 UTC / 1040 L

Flyority 6

Collection Area: Delta Junction -DEJU

Flight Plan Name: D19_DEJU_R1_P2_v6_VQ780

On-Station Time: (35 degrees): 1840 UTC / 1040

Crew: Mike (lidar), John (NIS)