



Payload 2 Daily Flight Report



Date: 2025-07-25

Flight Campaign ID: P2C1

Airport, FBO ID, City: Fairbanks International Airport - Fairbanks, AK

Aircraft: N615AR

Domain: 19 (Taiga)

Sites Flown: DEJU (Delta Junction), HEAL (Healy)

Days left in Domain: 13

Report Author: John

Lidar Operators: John

Flight Hours: 02:38

Spectrometer Operators: Mike

Hours until maintenance: 72.47

Pilots: Manning, Vince

GPS Instruments: U-CLGO, U-GRNX

Summary

Today Utqiagvik was clear at 0700, and looking at the satellite imagery, could have potentially remained clear for the hours we would need to transit to the site. However forecast weather at different locations for landing after potential data collection were all low IFR. These factors combined to keep us local to the Fairbanks area, where we were able to collect a few lines at Healy after getting skunked by clouds lower than flight altitude at Delta Junction (no data collected).

Concerns

None.

Comments

None.

Daily Coverage

Estimated Cloud Cover Key

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

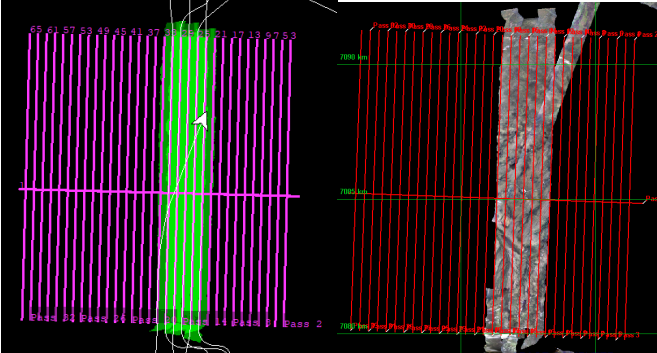
Solar Angle Less Than 40 degrees: (*)

D19|HEAL

Line #	12	13	14	15	16
Lidar	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓
Cloud Cover					

Total number of lines flown: 5

Flight Screenshots



lidar screenshot

NIS screenshot

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: 2% (1/46)
Green: 0% (0/46)
Yellow: 2% (1/46)
Red: 0% (0/46)
* 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: 0% (0/32)
Green: 0% (0/32)
Yellow: 0% (0/32)
Red: 0% (0/32)
* Flown within 35deg solar angle

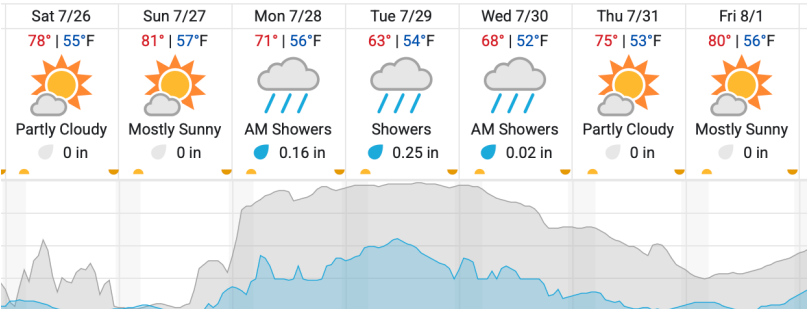
D19|HEAL (Healy)

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							

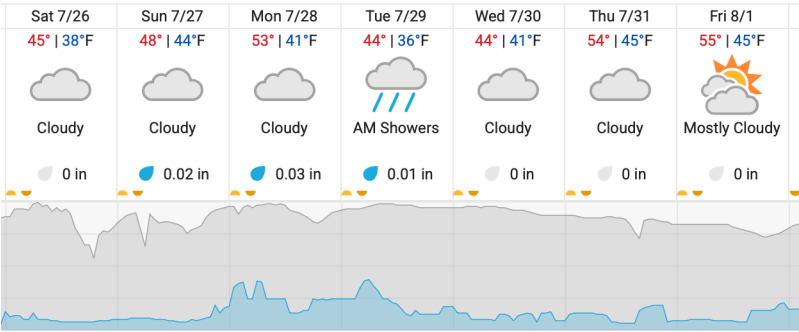
Flown: 48% (16/33)
Green: 0% (0/33)
Yellow: 48% (16/33)
Red: 0% (0/33)
* Flown within 35deg solar angle

Weather Forecast

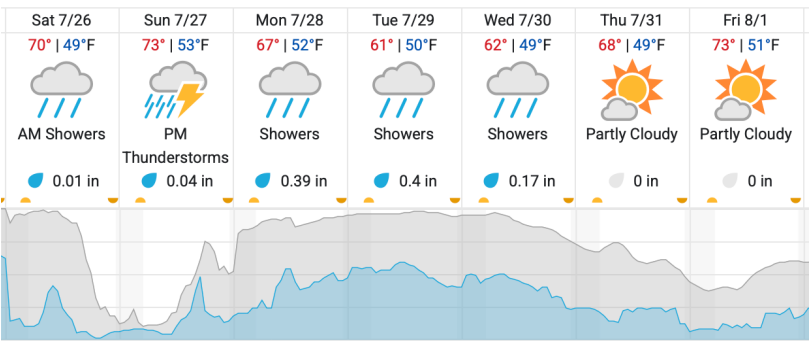
Fairbanks, AK (FBO-PAFA, BONA)



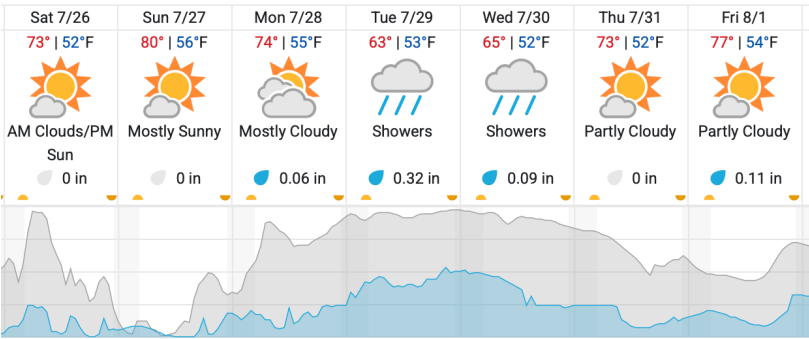
Utqiagvik, AK (BARR)



Healy, AK (HEAL)



Delta Junction, AK (DEJU)



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

Flight Collection Plan for July 26th 2025

Flyority 1
Collection Area: Barrow Environmental Observatory (BARR) - Priority 1 Flight Box (*once in peak greenness*)
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: TBD

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

Crew: Mike (lidar), John (NIS)