



Payload 1 Daily Flight Report



Date: 2024-06-26

Flight Campaign ID: P1C1

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

Aircraft: N615AR

Domain: 19 (Taiga)

Sites Flown: DEJU (Delta Junction)

Days left in Domain: 34

Report Author: Cameron

Lidar Operators: Cameron

Flight Hours: 02:48

Spectrometer Operators: Abe

Hours until maintenance: 106.83

Pilots: Vince, Cody

GPS Instruments: C-FAI1, U-AC71, U-AC72

Summary

Another smoky start to the day in Fairbanks due to nearby wildfires. The crew arrived at the FBO and waited for the visibility over the airfield the increase above 1 mile. The tower camera at DEJU showed less smoky / favorable data collection conditions. Upon arriving at the site cumulus clouds began to form pushing the sky conditions into the “yellow” range. We collected 6 lines over the airshed before the weather degraded.

Concerns

- The Low DN issues reoccurred today on NIS 1. It took several full non-Ecs restarts and a reseating of cables / fiber to resolve the issue. We will continue to monitor.
- Pilot display USB cord has been deemed faulty however it is operational for now. We will replace this cable when we procure a new one.

Comments

- No Frame Grabber errors on today’s flight.

Daily Coverage

Estimated Cloud Cover Key

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

Solar Angle Less Than 40 degrees

Line #

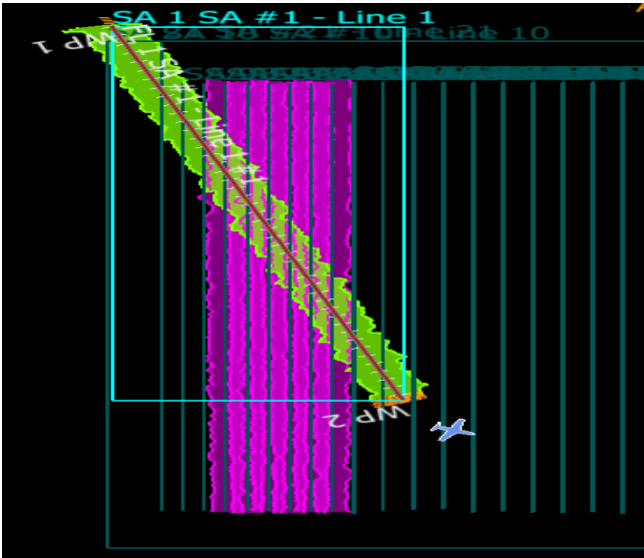
D19|DEJU

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

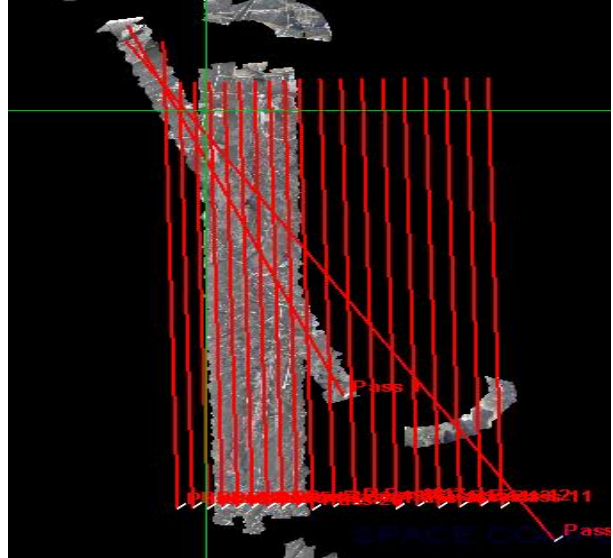
Total number of lines flown: 6

Flight Screenshots

Lidar Swath



NIS GeoPaint



Picture

Smoke and clouds looming near the DEJU site this afternoon.



Wildfires burning South of Fairbanks.



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: 0% (0/46)
 Green: 0% (0/46)
 Yellow: 0% (0/46)
 Red: 0% (0/46)

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																			

Flown: 33% (7/21)
 Green: 0% (0/21)
 Yellow: 33% (7/21)
 Red: 0% (0/21)

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: 0% (0/33)
 Green: 0% (0/33)
 Yellow: 0% (0/33)
 Red: 0% (0/33)

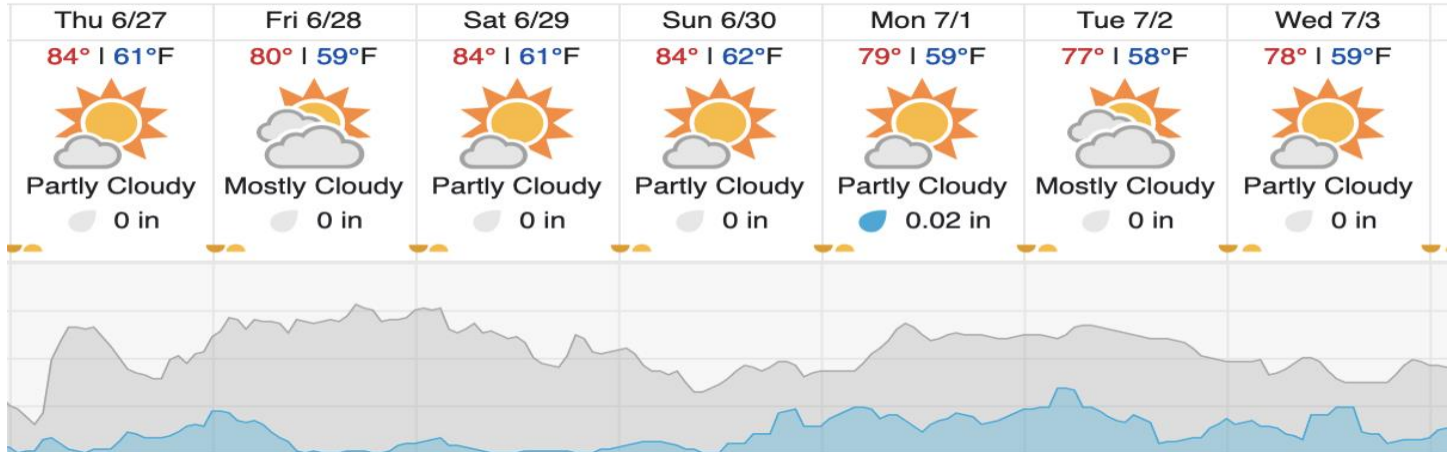
D19|N19A (D19 Nominal Runway)

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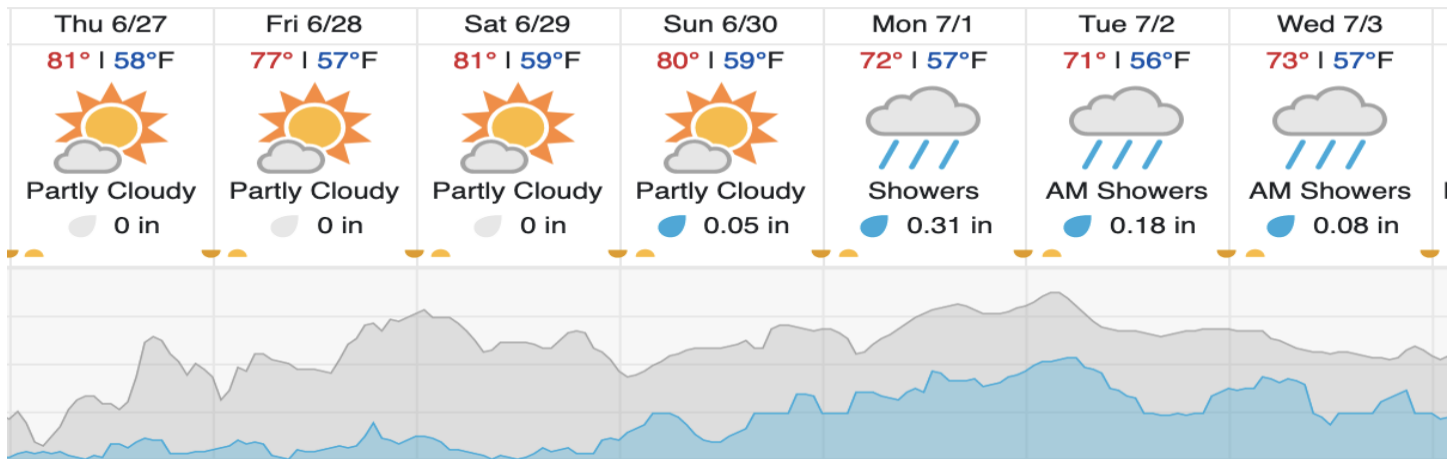
Flown: 0% (0/2)
 Green: 0% (0/2)
 Yellow: 0% (0/2)
 Red: 0% (0/2)

Weather Forecast

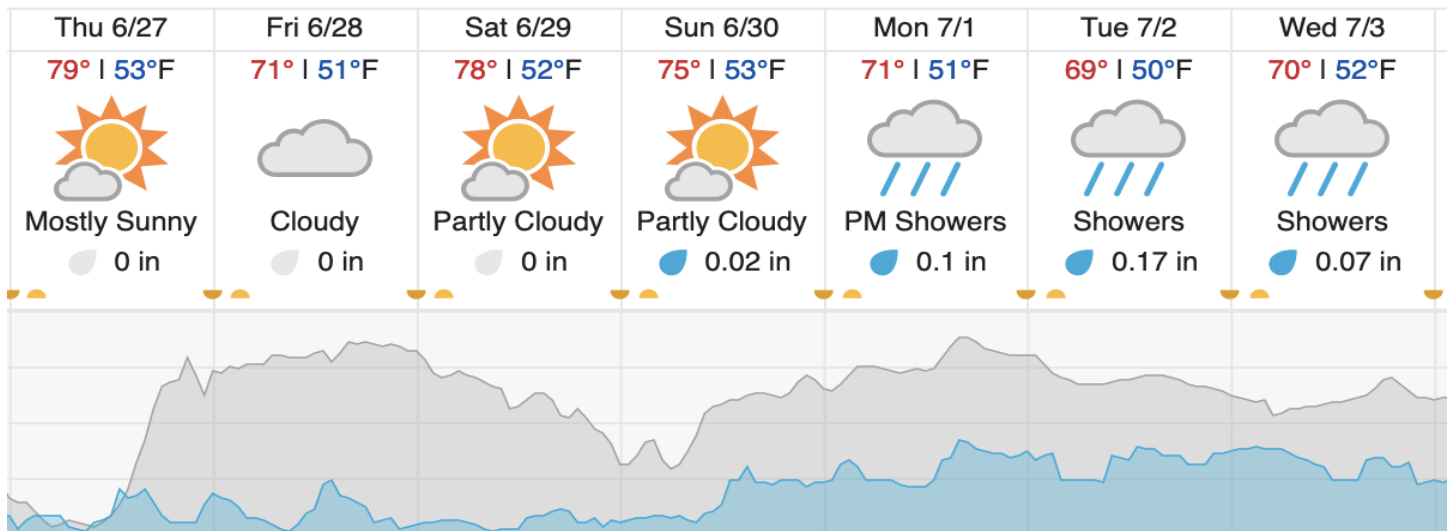
Fairbanks, AK (BONA)



Delta Junction, AK (DEJU)



Healy, AK (HEAL)



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

source: wunderground.com

Flight Collection Plan for 27 June 2024

Flyority 1

Collection Area: Caribou Creek – Poker Flats Watershed (BONA)

Flight Plan Name: D19_BONA_C1_P1_v2_PRM.xml

On-Station Time: 10:10 L / 18:10 UTC

Flyority 2

Collection Area: Healy (HEAL)

Flight Plan Name: D19_HEAL_R3_P1_v2_PRM.xml

On-Station Time: 10:10 L / 18:10 UTC

Flyority 3

Collection Area: Delta Junction (DEJU) – Priority Flight Box 1

Flight Plan Name: D19_DEJU_R1_P1_P2_v6_PRM.xml

On-Station Time: 10:00 L / 18:00 UTC

Flyority 4

Collection Area: Delta Junction (DEJU) – Priority Flight Box 2

Flight Plan Name: D19_DEJU_R1_P1_P2_v6_PRM.xml

On-Station Time: 10:00 L / 18:00 UTC

Flyority 3

Collection Area: Nominal Runway – D19

Flight Plan Name: D19_N19A_Nominal_Runway_Test_v2_PRM.xml

Crew: Abe (Lidar), Cam (NIS)