



Payload 1 Daily Flight Report



**Date:** 2024-07-12

**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:** 18

**Report Author:** Mike

**Lidar Operators:** Mike

**Flight Hours:** 03:57

**Spectrometer Operators:** John

**Hours until maintenance:** 99.82

**Pilots:** Will, Vince

**GPS Instruments:** C-FAIR, U-AC71, U-AC72

**Summary**

Skies parted today and we were able to get up for a full flight. Initially, an attempt at BONA was made, but cumulus clouds were already quickly developing upon arrival at solar angle time. With HEAL also cloudy, we pivoted to DEJU where skies were still clear and remained that way for a few hours. Most of the priority DEJU box was completed in “green” conditions with additional lines collected in “yellow.”

**Concerns**

Continuing to experience intermittent pilot display issues. Suspected culprit is the connection at the back of the display.

**Comments**

None

**Daily Coverage**

Estimated Cloud Cover Key

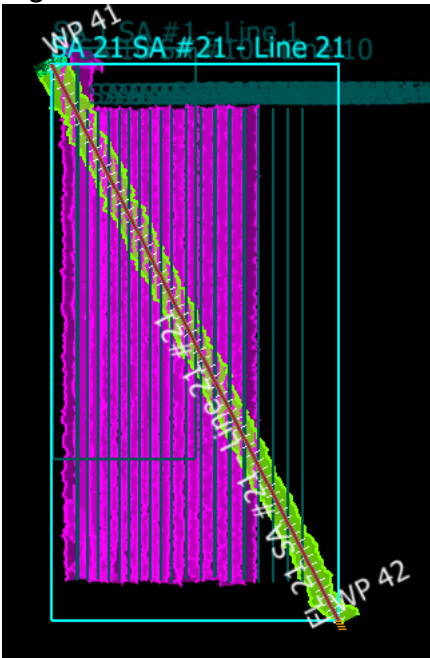
Green:	Yellow:	Red:
0-10%	11-50%	>50%

D19|DEJU

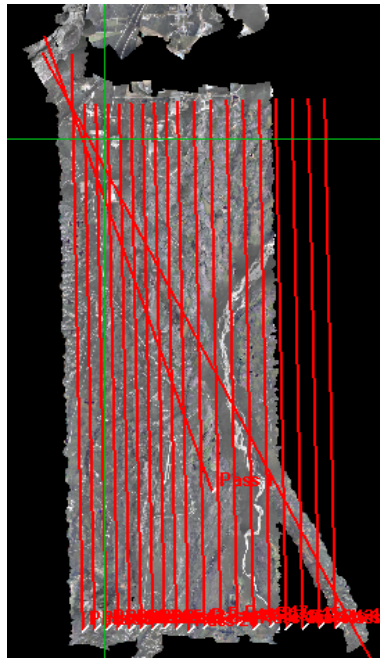
Line #	2	3	4	5	6	7	8	9	10	15	16	17	18	19	20
Lidar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cloud Cover	Green	Green	Green	Green	Green	Green	Green	Green	Green	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow

Total number of lines flown: 15

## Flight Screenshots



Lidar



NIS

## Pictures



Looking south towards the Alaska Range up the Delta River from the DEJU site.

## 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: 46% (21/46)  
 Green: 0% (0/46)  
 Yellow: 20% (9/46)  
 Red: 26% (12/46)

### 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: 81% (17/21)  
 Green: 33% (7/21)  
 Yellow: 48% (10/21)  
 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)

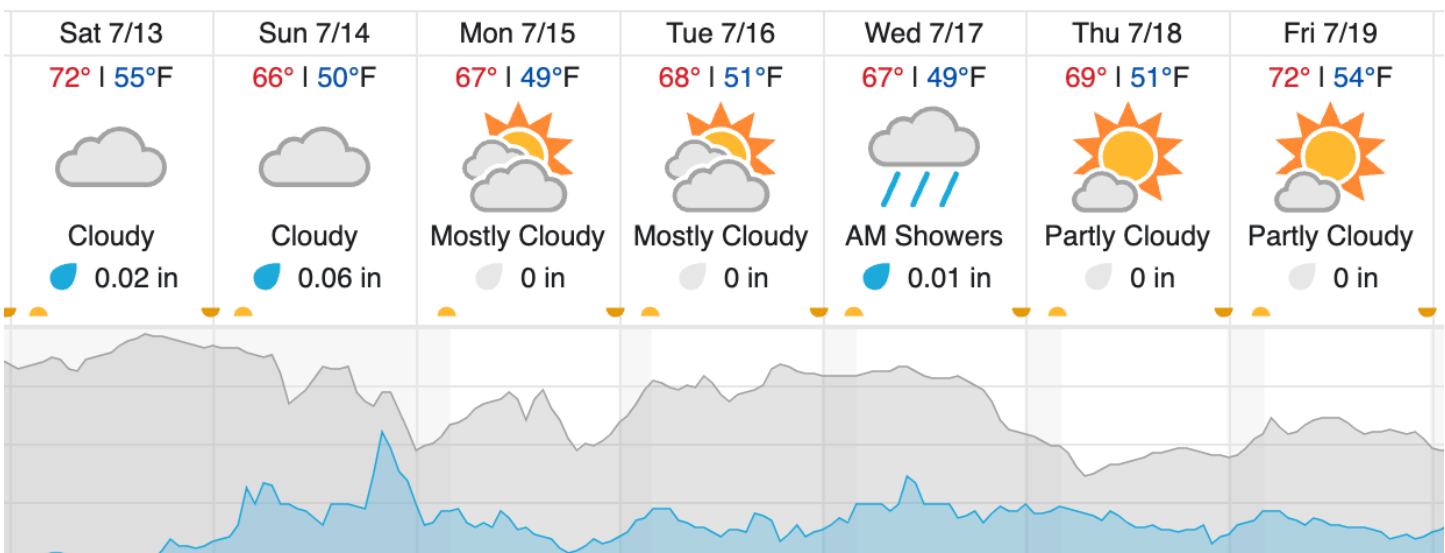
### D19|N19A (D19 Nominal Runway )

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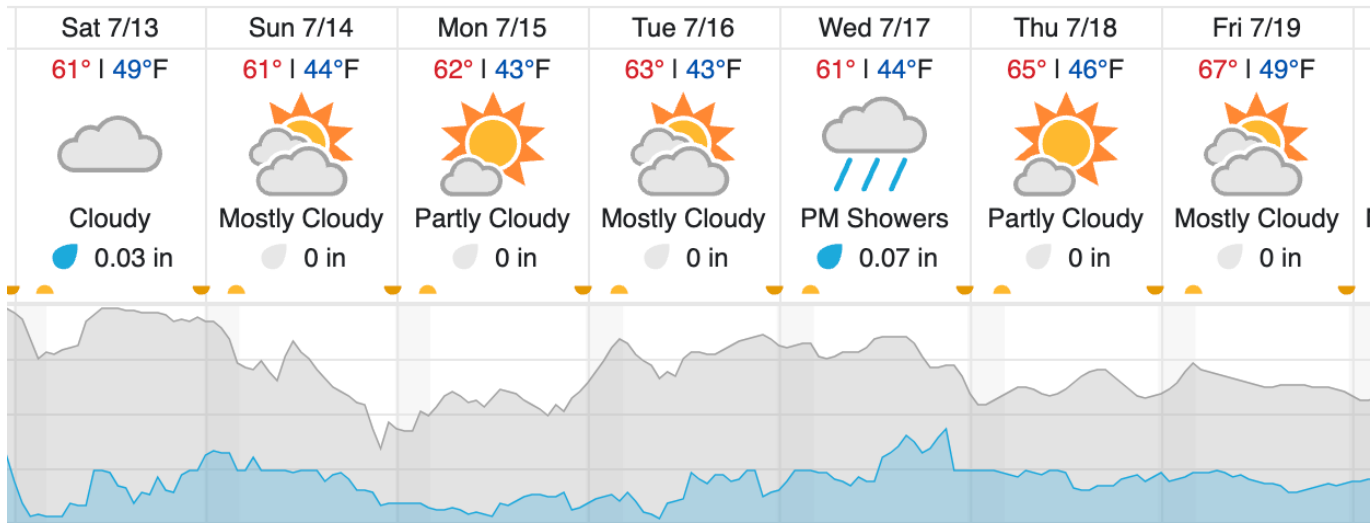
Flown: 0% (0/2)  
 Green: 0% (0/2)  
 Yellow: 0% (0/2)  
 Red: 0% (0/2)

## Weather Forecast

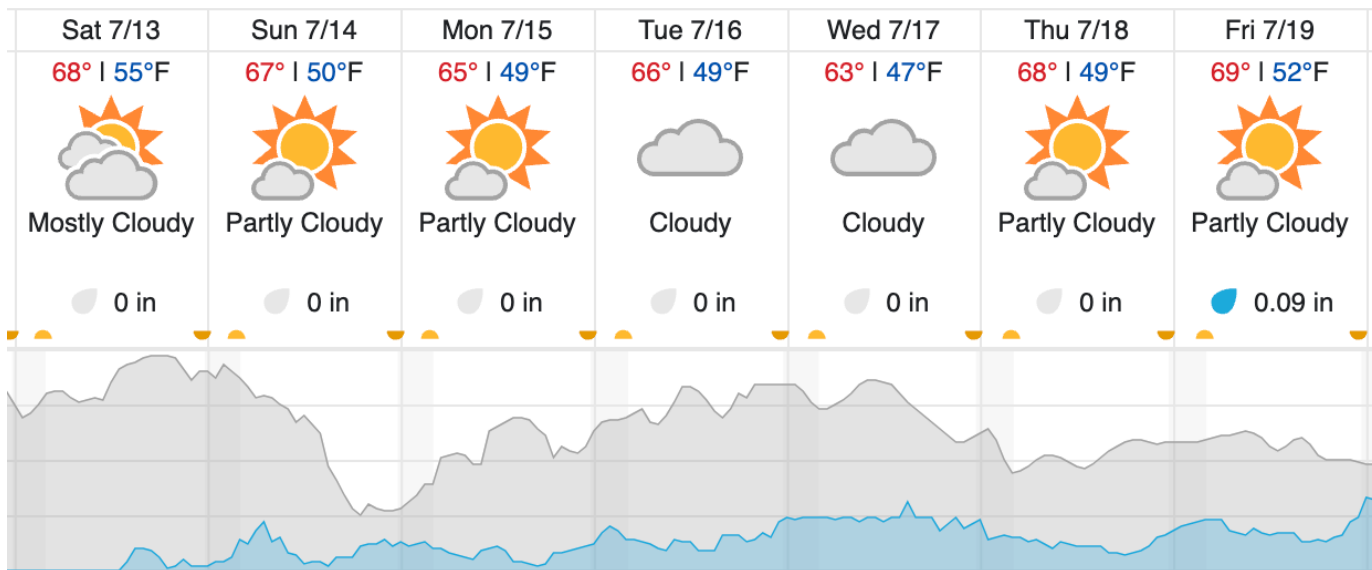
Fairbanks, AK (BONA)



Healy, AK (HEAL)



Delta Junction, AK (DEJU)



source: wunderground.com

**Flight Collection Plan for 13 July 2024**

**Flyority 1**

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

Flight Plan Name: D19\_BONA\_C1\_P1\_v2\_PRM.xml

On-Station Time: 10:30 L / 18:30 UTC

**Flyority 2**

Collection Area: Healy (HEAL)

Flight Plan Name: D19\_HEAL\_R3\_P1\_v2\_PRM.xml

On-Station Time: 10:30 L / 18:30 UTC

Flyority 3

Collection Area: Delta Junction (DEJU) – Priority Flight Box 1 \*(lines 9-10 if green)

Flight Plan Name: D19\_DEJU\_R1\_P1\_P2\_v6\_PRM.xml

On-Station Time: 10:20 L / 18:20 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: 10:20 L / 18:20 UTC

Flyority 5

Collection Area: Nominal Runway – D19

Flight Plan Name: D19\_N19A\_Nominal\_Runway\_Test\_v2\_PRM.xml

Crew: John (Lidar), Mike (NIS)