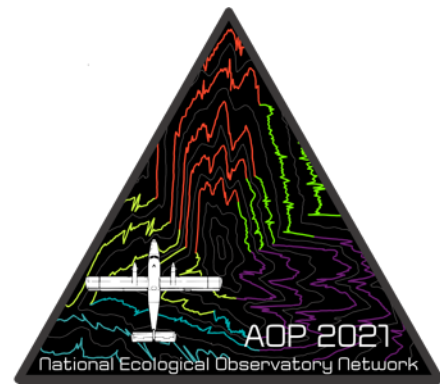




Payload 3 Daily Flight Report



**Date:** 2021-07-19

**Flight Campaign ID:** P3C1

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

**Aircraft:** N615AR

**Domain:** 19 (Taiga)

**Sites Flown:** HEAL (Healy)

**Days left in Domain:** 29

**Report Author:** Michael Wussow

**Lidar Operators:** Michael Wussow

**Flight Hours:** 02:45

**Spectrometer Operators:** Elissa Barris

**Hours until maintenance:** 46.97

**Pilots:** Vince Maarschalkerweerd, Stephen Brawders

**GPS Instruments:** C-FAI1, U-GRNX

**Ground Crew:** John Adler

**Summary**

Lines were flown at HEAL today with clear skies at the start of solar angle giving way to cumulus and creeping cirrus clouds. The priority lines were finished in “green” conditions. Bridget and Murph, members of AOP Science, were on the ground today at HEAL with calibration tarps set up. Four lines were collected over the tarps, although conditions were not completely clear for those lines.

**Concerns**

An instantaneous NIS pressure spike reading was experienced in flight today. It is thought to be a glitch with the chamber pressure gauge. This happens from time to time, and the gauge will be reset tomorrow if it does not right itself overnight.

**Comments**

Lines flown for tarp collections, in order: 22, 23, 1, 22.

**Daily Coverage**

Estimated Cloud Cover Key

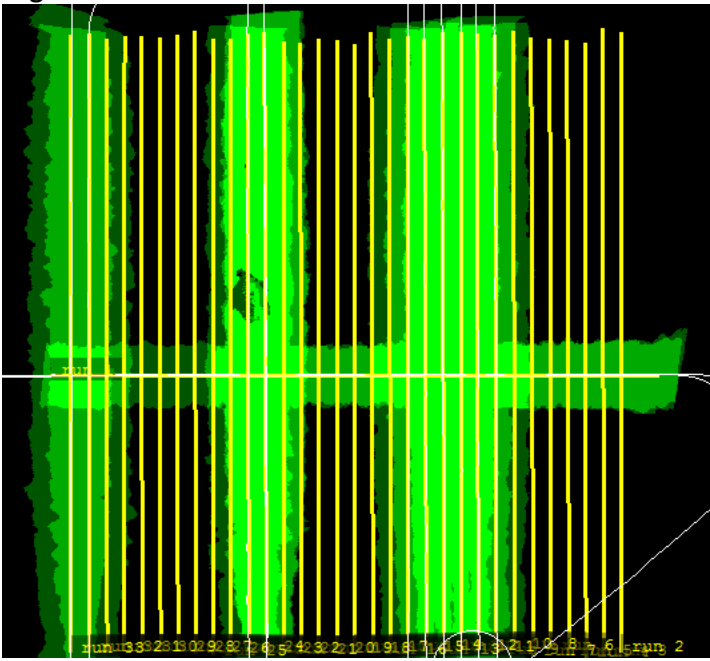
Green:	Yellow:	Red:
0-10%	11-50%	>50%

D19|HEAL

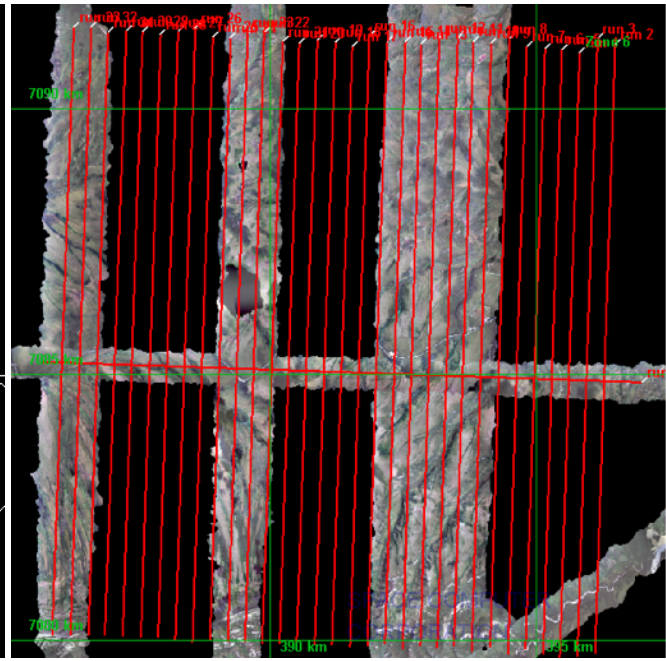
Line #	9	10	11	12	13	14	22	23	32	33
Lidar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cloud Cover										

Total number of lines flown: 10

## Flight Screenshots



Lidar



NIS

## Pictures



Camera phone image of the tarps set up near the Healy NEON Tower. Nice shot Elissa!



Conditions towards the beginning of today's flight

### 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: 7% (3/46)  
 Green: 7% (3/46)  
 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	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)

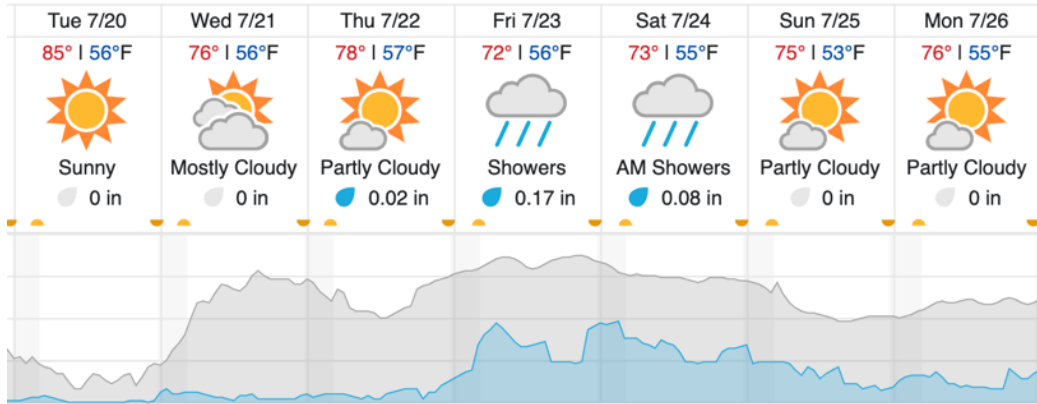
#### D19|HEAL (Healy )

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							

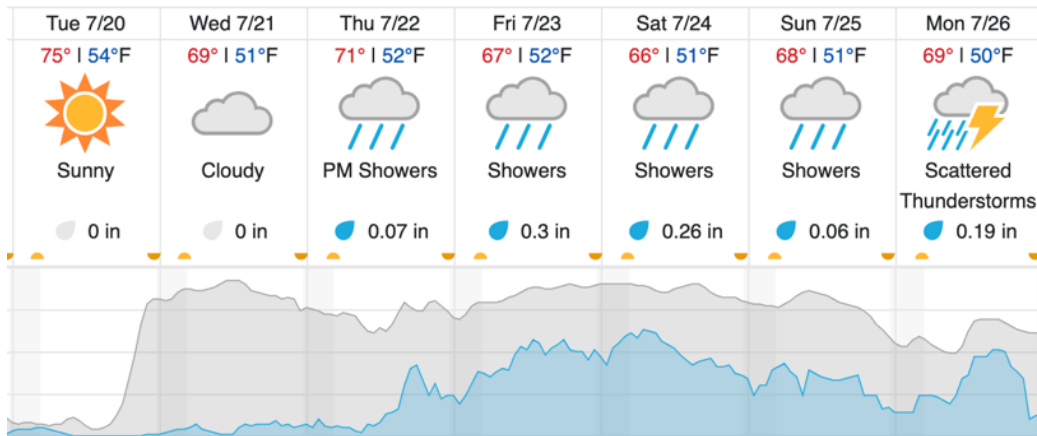
Flown: 79% (26/33)  
 Green: 70% (23/33)  
 Yellow: 9% (3/33)  
 Red: 0% (0/33)

## Weather Forecast

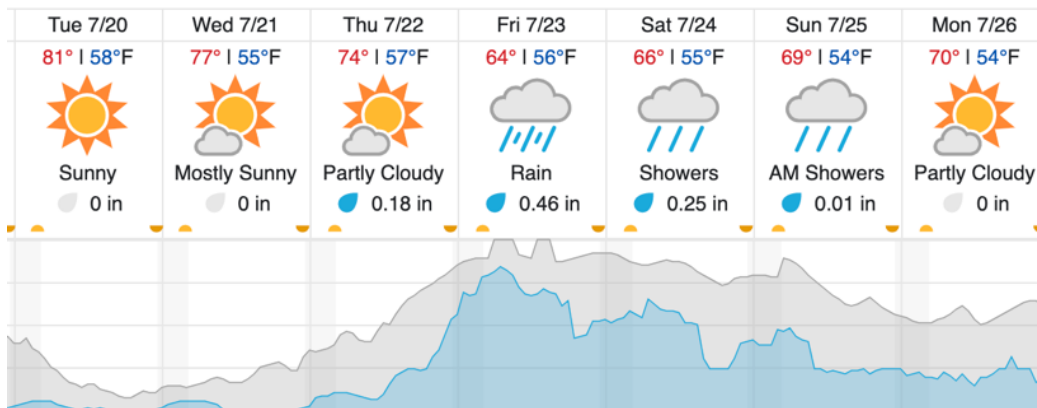
Fairbanks, AK (PAFA, BONA)



Healy, AK (HEAL)



Delta Junction, AK (DEJU)



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

## **Flight Collection Plan for 20 July 2021**

### **Flyority 1**

Collection Area: Healy (HEAL)

Flight Plan Name: D19\_HEAL\_R3\_P1\_v1\_Q780

On-station Time: 1830 UTC / 1030 L

### **Flyority 2**

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

Flight Plan Name: D19\_BONA\_C1\_P1\_v1\_Q780

On-station Time: 1830 UTC / 1030 L

### **Flyority 3**

Collection Area: Delta Junction (DEJU) – Priority Flight Box 1 & 2

Flight Plan Name: D19\_DEJU\_R1\_P1\_v5\_Q780, D19\_DEJU\_R1\_P2\_v5\_Q780

On-station Time: 1820 UTC / 1020 L

Crew: John (Lidar), Mike (NIS), Elissa (Ground)