



June 26, 2019 Payload 2 Daily Flight Report



**Date:** 2019-06-26

**Flight Campaign ID:** 2019\_P2C1

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

**Domain:** 19

**Sites Flown:** HEAL (Healy)

**Days left in Domain:** 4

**Report Author:** Mitch Haynes

**Flight Crew:** Mitch Haynes, Cameron Chapman

**Ground/GPS:**

**Pilots:** Stephen Brawders, Mark Solper

**Additional Personnel:**

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

**Flight Hours:** 03:46

**Hours until maintenance:** 78.38

**Summary**

Initially promising skies over interior Alaska this morning gave way to cumulus and cirrus clouds, as well as heavy smoke from wildfires to the NE and NW of Fairbanks. Decision was made to collect initial coverage of the TOS and Airshed lines at Healy, far enough away from the source of the smoke that it wasn't as inundated as the northern portions of the Tanana Valley. 23 lines were collected under red conditions.

**Concerns**

- No failures on camera computer today despite recognized memory issues.
- Pilot display appears to have been disconnected from the ball joint that holds it to the mount. For now, the display holds loosely in place, but can become jostled quite easily, especially when trying to swivel the display back and forth between the left and right seat. Crew will investigate ways to re-secure it to the ball joint.

**Comments**

- None

**Daily Coverage**

D19 HEAL	Line	SpecG	SpecY	SpecR	NIS	Lidar	Camera	Cumulative
	1				✓	✓	✓	NLC
	12				✓	✓	✓	NLC
	13				✓	✓	✓	NLC
	14				✓	✓	✓	NLC
	15				✓	✓	✓	NLC
	16				✓	✓	✓	NLC
	17				✓	✓	✓	NLC
	18				✓	✓	✓	NLC
	19				✓	✓	✓	NLC
	20				✓	✓	✓	NLC
	21				✓	✓	✓	NLC
	22				✓	✓	✓	NLC

	23				✓	✓	✓	NLC
	24				✓	✓	✓	NLC
	25				✓	✓	✓	NLC
	26				✓	✓	✓	NLC
	27				✓	✓	✓	NLC
	28				✓	✓	✓	NLC
	29				✓	✓	✓	NLC
	30				✓	✓	✓	NLC
	31				✓	✓	✓	NLC
	32				✓	✓	✓	NLC
	33				✓	✓	✓	NLC
Flown:	23							

**Cumulative Domain Coverage**

**DEJU**

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									

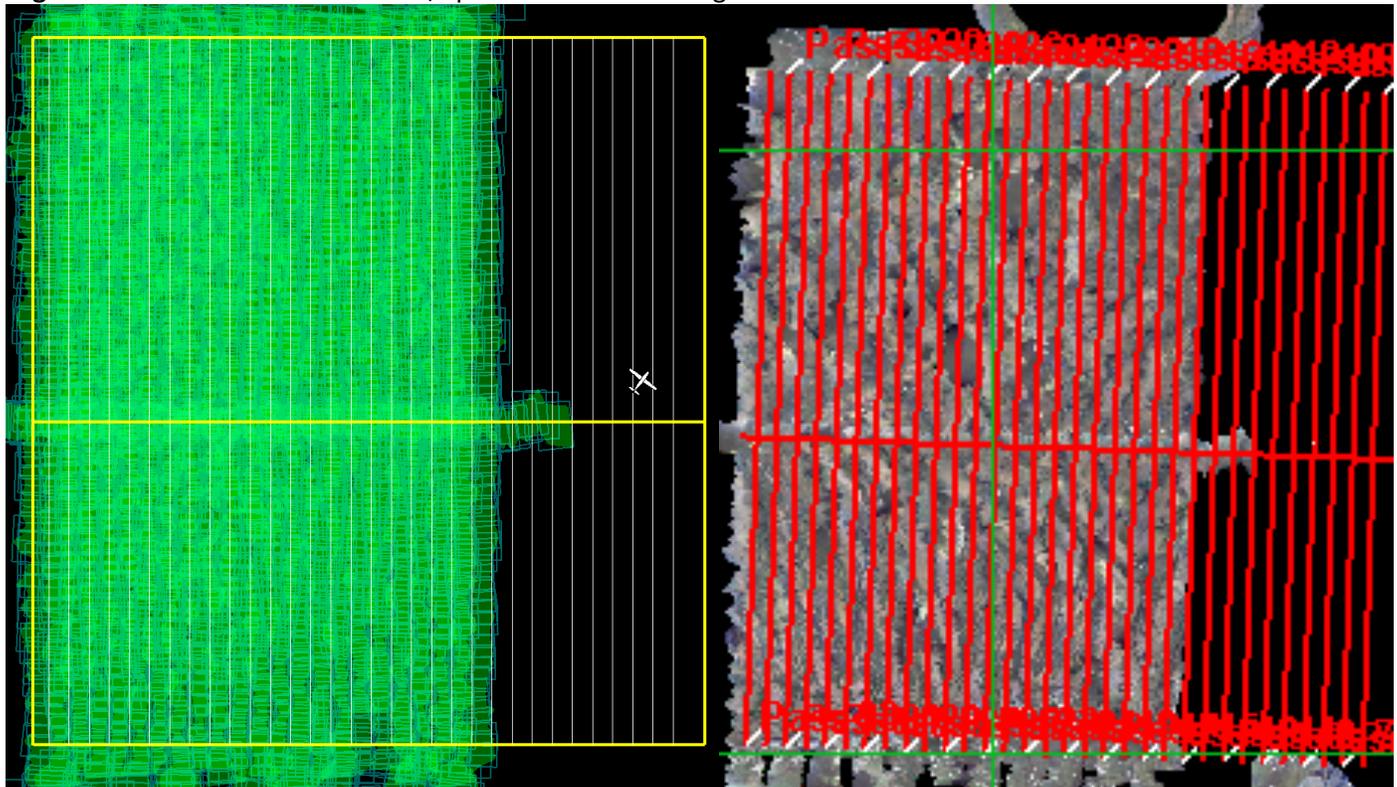
Flown: 0% (0/32)  
 Green: 0% (0/32)  
 Yellow: 0% (0/32)  
 Red: 0% (0/32)

**HEAL**

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: 70% (23/33)  
 Green: 0% (0/33)  
 Yellow: 0% (0/33)  
 Red: 70% (23/33)

**Flight Screenshots: Lidar on the left, Spectrometer on the right**



## Pictures

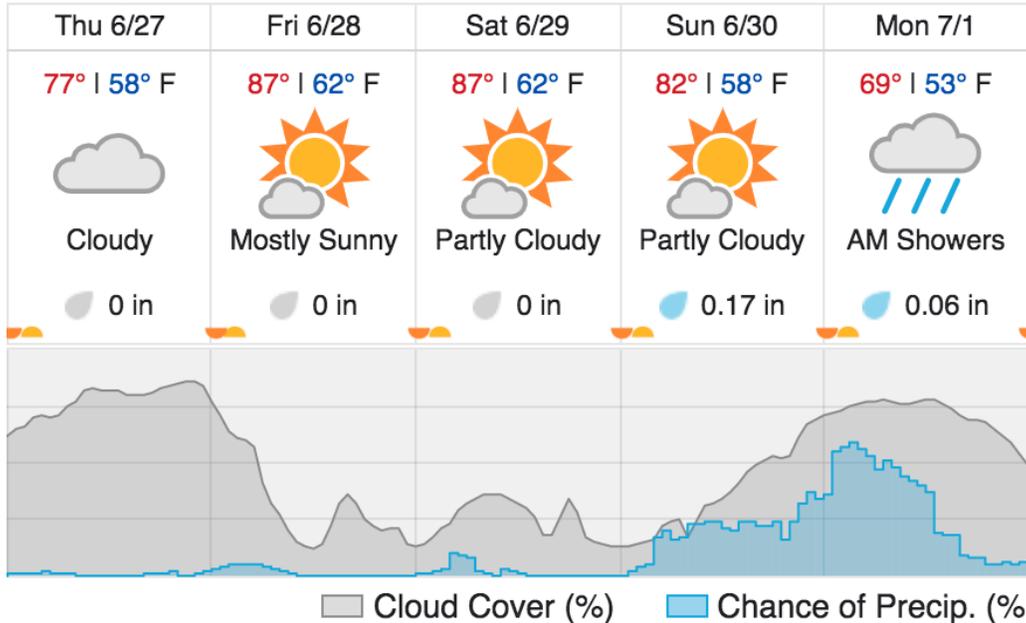


**Above:** Looking East across Healy flight box. **Below:** Heavy smoke layer above Fairbanks and Northern Tanana Valley.



## Weather Forecast

Fairbanks, AK



### Flight Collection Plan for 27 June 2019

#### **Flyority 1:**

Collection Area: Delta Junction (DEJU)

Flight Plan Name: D19\_DEJU\_R1\_P1\_730max\_v3.pln

On-station Time: 17:55 UTC / 09:55 L (35deg solar angle)

#### **Flyority 2:**

Collection Area: Healy (HEAL)

Flight Plan Name: D19\_HEAL\_R3\_P1\_730max\_v1.pln

On-station Time: 18:08 UTC / 10:08 L (35deg solar angle)

#### **Flyority 3:**

Collection Area: Nominal Runway – D19

Flight Plan Name: D19\_N19A\_Nominal\_Runway\_Test\_v1.pln

On-station time: n/a

**Crew:** Cameron Chapman (Lidar), (NIS) Mitch Haynes

### Flight Collection Plan for 28 June 2019

**Flyorities:** Same as previous day.

**Crew:** Mitch Haynes (Lidar), Cameron Chapman (NIS)