Payload 1 Daily Flight Report

Date: 2024-07-19
Flight Campaign ID: P1C1
Airport, FBO ID, City: Fairbanks International Airport (PAFA) - Fairbanks, AK
Aircraft: N615AR

Domain: 19 (Taiga)
Sites Flown: HEAL (Healy)
Days left in Domain: 11

Report Author: Abe
Lidar Operators: Abe
Spectrometer Operators: Mike
Pilots: Jeff, Will
Flight Hours: 04:13
Hours until maintenance: 95.60
GPS Instruments: C-FAI1, U-GRNX

Summary
The crew had high hopes for today and took off for a BONA flight just before solar angle. Unfortunately, low cumulus popped up just as the otter was departing Fairbanks airport causing the crew to shift focus to HEAL. There was also a lowish cloud layer at HEAL on arrival but just high enough for the crew to sneak under and collect 29 lines in “red” sky conditions.

Concerns
-The waveform recorder froze today at several points in the HEAL flight. The only remedy seemed to be a power cycle of the recorder, which worked the first time but seemed to be in-effective the second. The second occurrence happened with just a few lines left to go in the day and the otter was running low on fuel, so more troubleshooting was not possible. It is unclear if the waveform data that was collected in the effected lines is usable or not.

Comments
None

Daily Coverage

Estimated Cloud Cover Key

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D19|HEAL

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Total number of lines flown: 29

**Flight Screenshots**

**Lidar**

![Lidar Image](image1)

**NIS**

![NIS Image](image2)

**Cumulative Domain Coverage**

**D19|BONA (Caribou Creek and Poker Flats Watershed)**

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

**D19|DEJU (Delta Junction)**

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Flown: 81% (17/21)
Green: 33% (7/21)
Yellow: 48% (10/21)
Red: 0% (0/21)

**D19|HEAL (Healy)**

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Flown: 88% (29/33)
Green: 0% (0/33)
Yellow: 0% (0/33)
Red: 88% (29/33)
D19|N19A (D19 Nominal Runway)

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

Weather Forecast
Fairbanks, AK (BONA)

Source: wunderground.com
Flight Collection Plan for 20 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: Mike (Lidar), Abe (NIS)