



2017 P2C1 Daily Report



Flight Campaign ID: 2017_P2C1

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

Domain: 19

Sites Flown: BONA

Days left in Domain: 9

Flight Hours: 03:47

Hours until maintenance: 64.28

Date: 2017-08-05

Report Author: Mitch Haynes

Pilots: Kyler Dalton, Ross Rice

Flight Crew: Mitch Haynes, John Adler

Ground/GPS: Ivana Vu

Additional Personnel: None

GPS Instruments:

00 - UNAVCO, 04 - BONA, CORS - FAI1

Summary:

Collected priority lines at Caribou Creek Poker Flats Watershed (BONA) before a sudden drop in spectrometer pressure from an unknown cause forced the crew to abort the mission.

Issues/Concerns:

- The spectrometer experienced a sudden increase in chamber pressure during today's collect from 8.59×10^{-6} to 2.01×10^{-3} Torr. Internal pressure remained stabilized at this pressure for the remainder of the flight and during on the ground refueling and troubleshooting. No leaks or loose vacuum connections were found. Crew attempting to vacuum pump the spectrometer back down to normal ranges, however pressure remained around 2×10^{-3} Torr. After consultation with calibration scientist, a faulty vacuum gauge is suspected. Operations will continue as normal with the assumption that the gauge is at fault, while keeping a close eye on spectrometer diagnostics.
- The spare hotel kit continues to extract the back loaded flight data. QAQC has not been successful, and waveform has required manual extraction.

Comments:

- Completed BONA lines 18-36 (Green), 15-17 (Yellow) and 14, 37-39 (Red).
 - Lines 14-17 and 37-39 were collected after the pressure spike occurred.

Pictures:

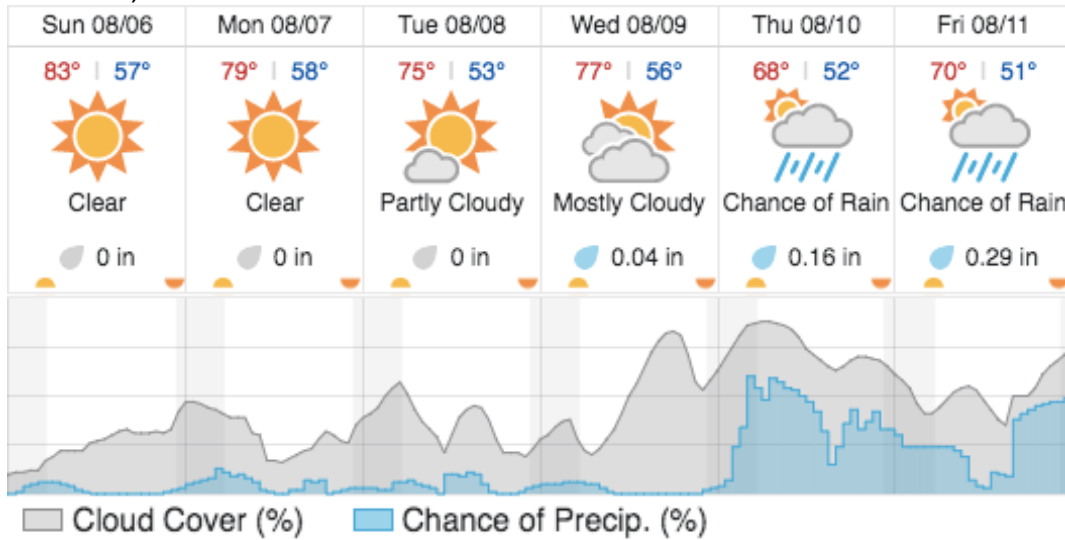


Above: NEON tower at BONA **Below:** Denali barely visible through the haze.



Weather Forecast

Fairbanks, AK



Flight Collection Plan for 06 August 2017:

Flyority 1:

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

Flight Plan Name: D19_BONA_C1_P1_730max_v2.pln

On Station: 1120L / 1920 UTC

Flyority 2:

Delta Junction (DEJU)

Flight Plan Name: D19_DEJU_R1_P1_730max_v2.pln

On Station: 1110L / 1910 UTC

Crew

Lidar: John Adler

NIS: Mitch Haynes

Ground: Ivana Vu

Flight Collection Plan for 07 August 2017:

Flyority 1:

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

Flight Plan Name: D19_BONA_C1_P1_730max_v2.pln

On Station: 1120L / 1920 UTC

Flyority 2:

Delta Junction (DEJU)

Flight Plan Name: D19_DEJU_R1_P1_730max_v2.pln

On Station: 1110L / 1910 UTC

Crew

Lidar: Ivana Vu

NIS: Mitch Haynes

Ground: John Adler