Payload 1 Daily Flight Report

Date: 2022-04-22
Flight Campaign ID: P1C1
Airport, FBO ID, City: Boulder Municipal Airport (KBDU) - Boulder, CO
Aircraft: N331AR

Domain: 00 (Training & Calibration)
Sites Flown: None
Days left in Domain: 10

Report Author: Elissa
Lidar Operators: Cameron
Spectrometer Operators: Elissa
Pilots: Stephen, Justin
Adt'l Flight Crew: Mitch
Ground Crew: Abe, Michael

Flight Hours: 00:00
Hours until maintenance: 118.50

Summary
No flights were conducted today due to windy conditions. The crew swapped the two planes in order to collect mercury lamp tests on each and get Payload 3 into the hangar for packing.

Concerns
None.

Comments
The first outreach event of the year was held for University of Colorado Remote Sensing students! All members of the crew pitched in to give students an overview of different aspects of AOP operations and a tour of the Twin Otter.

Daily Coverage

Estimated Cloud Cover Key

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

Cumulative Domain Coverage

D00|B10F (Complete Greeley Boresight Geocalibration - 1500m, 1000m, 550m - Galaxy)

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D00|D10C ()

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

D00|H10D (NEON Headquarters Lidar Validation - Galaxy)

Flown: 100% (4/4)
Green: 0% (0/4)
Yellow: 100% (4/4)
Red: 0% (0/4)

D00|N10F (Nominal Runway at KBDU - Galaxy)

Flown: 8% (3/37)
Green: 0% (0/37)
Yellow: 0% (0/37)
Red: 8% (3/37)

D00|O10C (NIS Offset - Galaxy)

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

D00|R10E (Table Mountain Radiometric Calibration - Galaxy)

Flown: 100% (5/5)
Green: 100% (5/5)
Yellow: 0% (0/5)
Red: 0% (0/5)

D00|W10D (Wiggle Timing Test - Galaxy)

Flown: 100% (2/2)
Green: 0% (0/2)
Yellow: 100% (2/2)
Red: 0% (0/2)
The planes being shuffled around on the tarmac for mercury lamp collections. Photo by Elissa.

Weather Forecast

Boulder, CO (KBDU)

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<td>57°</td>
<td>36°F</td>
<td>54°</td>
<td>31°F</td>
<td>60°</td>
<td>35°F</td>
<td>75°</td>
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- Mostly Cloudy
- PM Showers
- Mostly Sunny
- Partly Cloudy
- Mostly Sunny
- Mostly Sunny

0 in | 0.14 in | 0 in | 0 in | 0 in | 0 in | 0 in | 0 in | 0 in | 0 in | 0 in | 0 in | 0 in |

source: wunderground.com
Flight Collection Plan for 23 April 2022

**Flyority 1**
Collection Area: Nominal Runway Survey Flight Plan
Name: D10_N10F_Nominal_Rnwy_v10_PRM.xml
On-Station Time: Daylight – No solar angle restrictions.
Additional Considerations: Runway should not be wet or snow covered.

**Flyority 2**
Collection Area: NIS Offset Flight
Flight Plan Name: D10_O10C_NIS_Offset_v2_PRM.xml
35° On-station Time: 1530 UTC / 0930 L

**Flight Crew:** John (Lidar), Elissa (NIS), Cam (Ground), Mike (Instructor)