Payload 3 Daily Flight Report

Date: 2022-04-13
Flight Campaign ID: P3C1
Airport, FBO ID, City: Boulder Municipal Airport (KBDU) - Boulder, CO
Aircraft: N70AR

Domain: 00 (Training & Calibration)
Sites Flown: None
Days left in Domain: 12

Report Author: Cameron
Lidar Operators: Cameron, Abe, Elissa
Spectrometer Operators: Mitch, Matt, Michael
Pilots: Magnus, Nick
Flight Hours: 00:00
Hours until maintenance: 0.00

Summary
High winds and clouds prevented flights from occurring today. The functional check flight is expected to occur tomorrow morning if the weather allows.

Concerns
None

Comments
None

Daily Coverage

Estimated Cloud Cover Key

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

Flight Screenshots:
None

Pictures
None

Cumulative Domain Coverage

D00|B10E (Riegl Boresight Calibration - 1600m, 1000m, 500m)

| Flown: 0% (0/20) | Green: 0% (0/20) | Yellow: 0% (0/20) | Red: 0% (0/20) |
D00|H10C (NEON Headquarters Lidar Test - Riegl)

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

D00|N10D (Nominal Runway at KBDU - Riegl)

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
Flown: 0% (0/28)
Green: 0% (0/28)
Yellow: 0% (0/28)
Red: 0% (0/28)

D00|O10B (NIS Offset - Riegl)

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Yellow: 0% (0/2)
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D00|R10C (Table Mountain Radiometric Calibration - Riegl)

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Yellow: 0% (0/5)
Red: 0% (0/5)

D00|W10C (Wiggle Timing Test - Riegl)

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Weather Forecast
Boulder, CO

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<tr>
<td>57°</td>
<td>37°F</td>
<td>63°</td>
<td>32°F</td>
<td>65°</td>
<td>44°F</td>
<td>66°</td>
</tr>
<tr>
<td>Partly Cloudy</td>
<td>Partly Cloudy</td>
<td>Mostly Cloudy</td>
<td>Mostly Sunny/Wind</td>
<td>Sunny</td>
<td>Partly Cloudy</td>
<td>Partly Cloudy</td>
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Flight Collection Plan for 14 April 2022

Flyority 1
Collection Area: Table Mountain Radiometric Calibration
Flight Plan Name: D10_R10C_Rad_Cal_TBMT_v1_Q780
45° On-station Time: 1640 UTC / 1040 L
40° On-station Time: 1610 UTC / 1010 L
Additional Considerations: Ground should be dry.

Flyority 2
Collection Area: Boresight Calibration – Greeley, CO
Flight Plan Name: D10_B10E_Boresight_1600m_Q780
30° On-station Time: 1510 UTC / 0910 L
Additional Considerations: No recent snowfall, clear roofs required.

Flyority 3
Collection Area: [Functional Checkout Flight] – Nominal Runway Survey Flight Plan
Name: D10_N10D_Nominal_Rnwy_v8_Q780
On-Station Time: Daylight – No solar angle restrictions.
Additional Considerations: Runway should not be wet or snow covered.

Flyority 4
Collection Area: Wiggle Timing Test
Flight Plan Name: D10_W10C_Wiggle_Test_v5_Q780
On-station Time: Daylight – No solar angle restrictions.

Flyority 5
Collection Area: NEON HQ Lidar Validation
Flight Plan Name: D10_H10C_HQ_LIDAR_val_v1_Q780
On-station Time: Daylight – No solar angle restrictions.

Flyority 6
Collection Area: NIS Offset Flight
Flight Plan Name: D10_O10B_NIS_Offset_v2_Q780
35° On-station Time: 1540 UTC / 0940 L

**Flight Crew:**
14 April 2022

1st Flight
Abe (Lidar), Elissa (NIS), Cameron (Trainer)

2nd Flight
Matt (Lidar) Mike (NIS), Mitch (Trainer)