Payload 3 Daily Flight Report

Date: 2020-06-11
Flight Campaign ID: P3C1
Airport, FBO ID, City: Boulder Municipal Airport (KBDU) - Boulder, CO

Domain: 00 (Training & Calibration)
Sites Flown: B10E (Riegl Boresight Calibration - 1600m, 1000m, 500m)
Days left in Domain: 0

Report Author: Elissa Barris
Lidar Operators: Elissa Barris
Spectrometer Operators: Mitch Haynes
Pilots: Mike Francis, Justin Eddington
Ground Crew: Cameron Chapman
Flight Hours: 02:27
Hours until maintenance: 00
GPS Instruments: 06 - FBO_KBDU, NGN-KBDU, U-CHLL

Summary

Cloud-free conditions this morning allowed for green collection of the Lidar boresight calibration flight, concluding beginning-of-season calibration flights for Payload 3.

Concerns

None.

Comments

- Extraction of yesterday’s data completed successfully, and extraction of today’s data is running smoothly.
- POS testing from yesterday’s flight (during which the hangar repeater was turned off) has shown promising early results.
- Calibration flights completed; science flights to begin starting tomorrow.

Daily Coverage

Estimated Cloud Cover Key

<table>
<thead>
<tr>
<th>Green: 0-10%</th>
<th>Yellow: 11-50%</th>
<th>Red: &gt;50%</th>
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D00|B10E

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Total number of lines flown: 20
Flight Screenshots

Spectrometer

LiDAR

Pictures
None.

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

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Flown: 100% (20/20)
Green: 100% (20/20)
Yellow: 0% (0/20)
Red: 0% (0/20)

D00|H10C (NEON Headquarters Lidar Test - Riegl)

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Flown: 100% (2/2)
Green: 100% (2/2)
Yellow: 0% (0/2)
Red: 0% (0/2)
D00|N10D (Nominal Runway at KBDU - Riegl)

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Flown: 92% (24/26)
Green: 0% (0/26)
Yellow: 62% (16/26)
Red: 31% (8/26)

D00|O10B (NIS Offset - Riegl)

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Green: 0% (0/2)
Yellow: 100% (2/2)
Red: 0% (0/2)

D00|R10C (Table Mountain Radiometric Calibration - Riegl)

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

D00|W10C (Wiggle Timing Test - Riegl)

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Flown: 100% (2/2)
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Yellow: 100% (2/2)
Red: 0% (0/2)

Weather Forecast

Boulder, CO (KBDU)

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<tr>
<th>Fri 6/12</th>
<th>Sat 6/13</th>
<th>Sun 6/14</th>
<th>Mon 6/15</th>
<th>Tue 6/16</th>
<th>Wed 6/17</th>
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<tbody>
<tr>
<td>88°</td>
<td>58°F</td>
<td>83°</td>
<td>59°F</td>
<td>88°</td>
<td>57°F</td>
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<tr>
<td>Mostly Sunny</td>
<td>PM Thunderstorms</td>
<td>Mostly Sunny</td>
<td>Partly Cloudy</td>
<td>Partly Cloudy</td>
<td>Mostly Sunny</td>
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Legend:
- Cloud Cover [%]
- Chance of Precip. (%)
Flight Collection Plan for 12 June 2020

Flyority 1
Collection Area: Moab (MOAB) – Moab, UT
Flight Plan Name: D13_MOAB_R1_P1_v3_Q780
On-Station Time: 15:30 UTC / 09:30L

Flyority 2
Collection Area: Arikaree River (ARIK) – Arickaree, CO
Flight Plan Name: D10_ARIK_A1_P2_v3_Q780
On-Station Time: 15:10 UTC / 09:10L

Flight Crew: Mitch Haynes (Lidar), Cameron Chapman (NIS), Elissa Barris (Ground)