Date: 2024-03-21  
Flight Campaign ID: P3C1  
Airport, FBO ID, City: Boulder Municipal Airport (KBDU) - Boulder, CO  
Aircraft: N821AR  

Domain: 00 (Training & Calibration)  
Sites Flown: None  
Days left in Domain: 08  

Report Author: Cameron  
Lidar Operators: None  
Flight Hours: 00:00  
Spectrometer Operators: None  
Hours until maintenance: 123.90  
Pilots: Justin, Will  
Ground Crew: Cameron, Mitch, Elissa, Matt, Nick, Ted  

Summary  
The Aircraft arrived this morning and the install crew made quick work installing Payload 3 inside the aircraft. The payload is currently pumping and cooling. We anticipate the payload reaching nominal operating temperature Saturday morning.

Concerns  
The Lakeshore experienced technical issues and was replaced with a spare.

Comments  
None  

Daily Coverage  

Estimated Cloud Cover Key  

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

Flight Screenshots: None  

Cumulative Domain Coverage  

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

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |

| 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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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 |
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D00|O10B (NIS Offset - Riegl)

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D00|R10C (Table Mountain Radiometric Calibration - Riegl)

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D00|R10D (Boulder Airport Radiometric Calibration)

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D00|W10C (Wiggle Timing Test - Riegl)

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Weather Forecast
Boulder, CO

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<tr>
<td>61°</td>
<td>35°F</td>
<td>64°</td>
<td>39°F</td>
<td>53°</td>
<td>24°F</td>
<td>39°</td>
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<tr>
<td>Mostly Sunny</td>
<td>Mostly Sunny</td>
<td>Thundershowers</td>
<td>Cloudy</td>
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Flight Collection Plan for March 22, 2024
- Continue pumping and cooling.

Flight Collection Plan for March 23, 2024

**Flyority 1**
Collection Area: Table Mountain Radiometric Calibration
Flight Plan Name: D10_R10C_Rad_Cal_TBMT_v1_Q780
45° On-station Time: 1730 UTC / 1130 L
Additional Considerations: Ground should be dry.

**Flyority 2**
Collection Area: Boresight Calibration – Greeley, CO
Flight Plan Name: D10_B10E_Boresight_1600m_Q780 (RiAcquire name: D10_B10E_Boresight_Apx_Q780)
30° On-station Time: 1550 UTC / 0950 L
Additional Considerations: No recent snowfall, clear roofs required.

**Flyority 3**
Collection Area: 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: NEON HQ Lidar Validation
Flight Plan Name: D10_H10C_HQ_val_v1_Q780
On-Station Time: Daylight – No solar angle restrictions.

**Flyority 5**
Collection Area: Wiggle Timing Test
Flight Plan Name: D10_W10C_Wiggle_Test_v6_Q780
40° On-station Time: 1650 UTC / 1050 L
Additional Considerations: Runway should not be wet, or snow covered.

**Flyority 6**
Collection Area: NIS Offset Flight
Flight Plan Name: D10_Q10B_NIS_Offset_v2_Q780
35° On-station Time: 1620 UTC / 1030 L

**Flight Crew**
Elissa (Lidar), Mitch (NIS), Cam (Ground)