Date: 2021-10-12
Flight Campaign ID: P1C2
Airport, FBO ID, City: Boulder Municipal Airport (KBDU) - Boulder, CO
Aircraft: N331AR

Domain: 00 (Calibration)
Sites Flown: None
Days left in Domain: 06

Report Author: Mitch Haynes
Lidar Operators: Mitch Haynes
Spectrometer Operator: Abe Morrison
Ground Crew: Elissa Barris
Pilots: Justin Eddington, Stephen Brawders

Flight Hours: 00:00
Hours until maintenance: 125.00

Summary
Twin Otter mechanics finished aircraft 125hr inspection and maintenance this morning and Andrew was able to successfully upgrade the Galaxy firmware this afternoon. No real opportunities for flights occurred in between as intermittent rain showers scattered the region.

Concerns
The database failed to properly generate the daily report again today. Investigation ongoing.

Comments
None

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

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D00|BLKF (Black Forest Waveform Range Test - Galaxy)

|   | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 |
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| Flown: | 0% (0/21) |
| Green: | 0% (0/21) |
| Yellow: | 0% (0/21) |
| Red: | 0% (0/21) |

D00|D10C ()

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

D00|H10D (NEON Headquarters Lidar Validation - Galaxy)

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

D00|N10F (Nominal Runway at KBDU - Galaxy)

Flown: 0% (0/35)
Green: 0% (0/35)
Yellow: 0% (0/35)
Red: 0% (0/35)

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

D00|R10F (Boulder Airport Radiometric Calibration - Galaxy)

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

D00|W10D (Wiggle Timing Test - Galaxy)

Flown: 0% (0/2)
Green: 0% (0/2)
Yellow: 0% (0/2)
Red: 0% (0/2)
Weather Forecast
Boulder, CO (KBDU)

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<th>Wed 10/13</th>
<th>Thu 10/14</th>
<th>Fri 10/15</th>
<th>Sat 10/16</th>
<th>Sun 10/17</th>
<th>Mon 10/18</th>
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<tbody>
<tr>
<td>Temp</td>
<td>58°F</td>
<td>54°F</td>
<td>64°F</td>
<td>70°F</td>
<td>69°F</td>
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<td>46°F</td>
<td>39°F</td>
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<td>PM Showers</td>
<td>Sunny</td>
<td>Sunny</td>
<td>Sunny</td>
<td>Partly Cloudy</td>
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Greeley, CO

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<tbody>
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<td>56°F</td>
<td>67°F</td>
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<tr>
<td>Cloud</td>
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<td>PM Showers</td>
<td>Sunny</td>
<td>Sunny</td>
<td>Sunny</td>
<td>Mostly Sunny</td>
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source: wunderground.com

Flight Collection Plan for 13 October 2021

Flyority 1
Collection Area: Boresight Calibration – Greeley, CO
Flight Plan Name: D10_B10F_Boresight_Geocal_v8_PRM
On-station Time: 16:10 UTC / 10:10 L

Flyority 2
Collection Area: Wiggle Timing Test
Name: D10_W10D_Wiggle_Test_v5_PRM
On-Station Time: 17:40 UTC / 11:40 L

Flyority 3
Collection Area: NEON HQ Lidar Validation
Flight Plan Name: D10_H10D_HQ_Lidar_validation_v1_PRM
On-Station Time: Daylight – No solar angle restrictions.

Flyority 4
Collection Area: Boulder Airport Radiometric Calibration
Flight Plan Name: D10_R10F_Radiometric_Cal_KBDU_v1_PRM
On-Station Time: 17:40 UTC / 11:40 L
Flyority 5
Collection Area: NIS Offset Flight
Flight Plan Name: D10_O10C_NIS_Offset_v2_PRM
On-Station Time: 16:50 UTC / 10:50 L

Flyority 6
Collection Area: Black Forest Waveform Range Test Flight
Flight Plan Name: D10_BLKF_Black_Forest_v4_PRM
On-Station Time: Daylight – No solar angle restrictions.

Flyority 7
Collection Area: Boulder City Eye Safety Test
Flight Plan Name: D10_D10C_Boulder_West_Eye_Safety_Test_PRM
On-Station Time: Daylight – No solar angle restrictions.

Crew: Elissa (Lidar), Mitch (NIS), Abe (Ground)