Date: 2024-05-31
Flight Campaign ID: P1C1
Airport, FBO ID, City: Boulder Municipal Airport (KBDU) - Boulder, CO
Aircraft: N615AR

Domain: 00 (Training & Calibration)
Sites Flown: R10F (Boulder Airport Radiometric Calibration - Galaxy)
Days left in Domain: 5

Report Author: Matt
Lidar Operators: Matt
Spectrometer Operators: Nick
Pilots: Jeff, Manning
Field Crew: N/A

Flight Hours: 00:00
Hours until maintenance: 74.68
GPS Instruments: None

Summary
No flights attempted due to overcast conditions.

Concerns
Frame grabber alerts and timestamp error are still an issue.
Flight ID Folder duplicating when copying issue remains.
Telemetry alerts are not being sent.

Comments
None

Daily Coverage
Estimated Cloud Cover Key
Green: 0-10%  Yellow: 11-50%  Red: >50%

Solar Angle Less Than 40 degrees
Line #

D00|R10F

<table>
<thead>
<tr>
<th>Line #</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lidar</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Spectrometer</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Camera</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Cloud Cover</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Total number of lines flown: 5

Cumulative Domain Coverage

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|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

Flown: 0% (0/21)
Green: 0% (0/21)
Yellow: 0% (0/21)
Red: 0% (0/21)

D00|CPER (Central Plains Ecological Range)

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 21| 22| 23| 24| 25| 26| 27| 28|   |   |   |   |   |   |   |   |   |   |   |   |   |

Flown: 0% (0/28)
Green: 0% (0/28)
Yellow: 0% (0/28)
Red: 0% (0/28)

D00|R10E (Table Mountain Radiometric Calibration - Galaxy)

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
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<th>5</th>
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</thead>
<tbody>
<tr>
<td></td>
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</tbody>
</table>

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

D00|R10F (Boulder Airport Radiometric Calibration - Galaxy)

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
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<th>4</th>
<th>5</th>
</tr>
</thead>
<tbody>
<tr>
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</tr>
</tbody>
</table>

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

Weather Forecast

**Boulder CO**

<table>
<thead>
<tr>
<th>Day</th>
<th>Temperature</th>
<th>Weather</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sat 6/1</td>
<td>81°F</td>
<td>Mostly Sunny</td>
</tr>
<tr>
<td>Sun 6/2</td>
<td>84°F</td>
<td>Mostly Sunny</td>
</tr>
<tr>
<td>Mon 6/3</td>
<td>86°F</td>
<td>Mostly Sunny</td>
</tr>
<tr>
<td>Tue 6/4</td>
<td>85°F</td>
<td>Partly Cloudy</td>
</tr>
<tr>
<td>Wed 6/5</td>
<td>91°F</td>
<td>Sunny</td>
</tr>
<tr>
<td>Thu 6/6</td>
<td>86°F</td>
<td>Mostly Sunny</td>
</tr>
<tr>
<td>Fri 6/7</td>
<td>84°F</td>
<td>PM</td>
</tr>
</tbody>
</table>

Thunderstorms: 0.12 in
Flight Collection Plan for 01 June 2024

Flyority 1
Collection Area: Table Mountain Radiometric Calibration
Flight Plan Name: D10_R10E_Radiometric_Cal_Table_Mtn_v2_PRM.xml
45° On-station Time: 15:50 UTC / 09:50 L
Additional Considerations: Ground should be dry.

Flyority 2
Collection Area: Central Plains Ecological Range
Flight Plan Name: D10_CPER_C1_P1_v7_PRM.xml
35° On-station Time: 14:50 UTC / 09:50 L

Flyority 3
Collection Area: Black Forest Waveform Range Test Flight
Flight Plan Name: D10_BLKF_Black_Forest_v5_PRM.xml
On-Station Time: Daylight – No solar angle restrictions.

Flight Crew: Nick (Lidar), Matt (NIS)