Payload 3 Daily Flight Report

Date: 2023-08-18  
Flight Campaign ID: P3C1  
Airport, FBO ID, City: Boulder Municipal Airport (KBDU) - Boulder, CO  
Aircraft: N934MU

Domain: 13 (Southern Rockies & Colorado Plateau), 10 (Central Plains)  
Sites Flown: None.  
Days left in Domain: 8

Report Author: John  
Lidar Operators: John  
Flight Hours: 0.0  
Spectrometer Operators: Mitch  
Hours until maintenance: 76.92  
Pilots: Will, Justin  
GPS Instruments: AOP_KBDU, AOP_NIWO  
Ground Crew: Cam

Summary  
An active atmosphere produced clouds throughout the day across the region; we did not fly any missions.

Concerns  
- None

Comments  
- None

Cumulative Domain Coverage

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

D10 | ARIK (Arikaree River)  
- Flown: 100% (33/33)  
- Green: 100% (33/33)  
- Yellow: 0% (0/33)  
- Red: 0% (0/33)

D10 | RMNP (Rocky Mountain National Park)  
- Flown: 58% (22/38)  
- Green: 37% (14/38)  
- Yellow: 18% (7/38)  
- Red: 3% (1/38)
D13 | NIWO (Niwot Ridge Mountain Research Station)

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Flown: 82% (42/51)
Green: 82% (42/51)
Yellow: 0% (0/51)
Red: 0% (0/51)

D13 | WLOU (West St. Louis Creek)

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Flown: 0% (0/13)
Green: 0% (0/13)
Yellow: 0% (0/13)
Red: 0% (0/13)

Weather Forecast
Nederland, CO (NIWO)

<table>
<thead>
<tr>
<th>Sat 8/19</th>
<th>Sun 8/20</th>
<th>Mon 8/21</th>
<th>Tue 8/22</th>
<th>Wed 8/23</th>
<th>Thu 8/24</th>
<th>Fri 8/25</th>
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<tbody>
<tr>
<td>76°</td>
<td>55°F</td>
<td>77°</td>
<td>58°F</td>
<td>81°</td>
<td>59°F</td>
<td>75°</td>
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<td>PM Thunderstorms</td>
<td>0.09 in</td>
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Allenspark, CO (RMNP)

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<tr>
<td>73°</td>
<td>54°F</td>
<td>75°</td>
<td>55°F</td>
<td>79°</td>
<td>59°F</td>
<td>75°</td>
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<tr>
<td>PM Thunderstorms</td>
<td>0.15 in</td>
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| PM Thunderstorms | 0.08 in | 0.21 in | 0.35 in |
Flight Collection Plan for August 19th, 2023

Flyority 1
Collection Area: Niwot Ridge Mountain Research Station (NIWO)
Flight Plan Name: D13_NIWO_C1_P1_v5_Q780
On-Station Time: 16:00 UTC / 10:00 L

Flyority 2
Collection Area: Rocky Mountain National Park (RMNP)
Flight Plan Name: D10_RMNP_R2_P1_v2_Q780
On-Station Time: 16:00 UTC / 10:00 L

Flyority 3
Collection Area: West St. Louis Creek (WLOU)
Flight Plan Name: D13_WLOU_A1_P1_Q780
On-Station Time: 16:00 UTC / 10:00 L

Crew: Cam (Lidar), Mitch (NIS), John (Ground)