**Payload 3 Daily Flight Report**

**Date:** 2021-06-03  
**Flight Campaign ID:** P3C1  
**Airport, FBO ID, City:** Boulder Municipal Airport (KBDU) - Boulder, CO  
**Aircraft:** N615AR

**Domain:** 10 (Central Plains)  
**Sites Flown:** CPER (Central Plains Ecological Range)  
**Days left in Domain:** 6

**Report Author:** Nick Marusich  
**Lidar Operators:** Nick Marusich  
**Spectrometer Operators:** Abe Morrison  
**Pilots:** Mark Solper, Vibeke Gaard  
**Ground Crew:** Matt Devoe  
**Flight Hours:** 02:20  
**Hours until maintenance:** 119.18  
**GPS Instruments:** AOP_CPER, AOP_KBDU

**Summary**  
The front moved South sufficiently for green conditions to attempt collections. CPER collection was conducted until cloud buildup North of the flight box. Flight was cancelled after 11 flight lines were collected.

**Concerns**  
Cabin environmental sensors were inoperative during flight. Reconnections after flight resulted in full function.

**Comments**  
Weather reports indicate favorable conditions tomorrow to complete CPER and STER sites.

**Daily Coverage**

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

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Total number of lines flown: 11
Flight Screenshots

NIS Screenshot 2021060315

Lidar Screenshot 2021060315

Pictures
None.

Cumulative Domain Coverage

D10|ARIK (Arikaree River)

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

D10|CPER (Central Plains Ecological Range)

Flown: 75% (21/28)
Green: 71% (20/28)
Yellow: 4% (1/28)
Red: 0% (0/28)

D10|STER (Sterling Agricultural Site)

Flown: 52% (13/25)
Green: 52% (13/25)
Yellow: 0% (0/25)
Red: 0% (0/25)
Weather Forecast

Nunn, CO (CPER)

Sterling, CO (STER)

Kirk, CO (ARIK)

source: wunderground.com

Flight Collection Plan for June 4, 2021

Flyority 1
Collection Area: Central Plains Ecological Range (CPER)
Flight Plan Name: D10_CPER_C1_P1_v6_Q780
On-station Time: 1450 UTC / 0850 L

Flyority 2
Collection Area: Sterling Agricultural Site (STER)
Flight Plan Name: D10_STER_R1_P1_v3_Q780
On-station Time: 1450 UTC / 0850 L

Flyority 3
Collection Area: Arikaree River (ARIK)
Flight Plan Name: D10_ARIK_A1_P2_v3_Q780
On-station Time: 1510 UTC / 0910 L

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