



## Payload 1 Daily Flight Report



**Date:** 2022-04-20

**Flight Campaign ID:** P1C1

**Airport, FBO ID, City:** Boulder Municipal Airport (KBDU) - Boulder, CO

**Aircraft:** N331AR

**Domain:** 00 (Training & Calibration)

**Sites Flown:** R10E (Table Mountain Radiometric Calibration - Galaxy)

**Days left in Domain:** 12

**Report Author:** Abe

**Lidar Operators:** Abe

**Flight Hours:** 00:59

**Spectrometer Operators:** John

**Hours until maintenance:** 121.23

**Pilots:** Justin, Stephen

**GPS Instruments:** AOP\_KBDU

**Adt'l Flight Crew:** Cameron

**Ground Crew:** John

### Summary

The crew began the day watching the clouds for a potential Radiometric Calibration Flight opportunity. The clouds cooperated and cleared off enough for the flight to be conducted and finished. Very strong winds aloft during and after the radiometric flight dashed any hopes of more flights today.

### Concerns

None

### Comments

-Abe recertified on the Optec Lidar system.

-John recertified on the NIS.

### Daily Coverage

Estimated Cloud Cover Key

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

D00|R10E

Line #	1	2	3	4	5
Lidar	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓
Cloud Cover					

Total number of lines flown: 5

NIS Lidar: Not collected due to laser restrictions at Table Mtn. Site.

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

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

1	2
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Flown: 0% (0/2)  
Green: 0% (0/2)  
Yellow: 0% (0/2)  
Red: 0% (0/2)

1	2	3	4
Flown: 100% (4/4)			
Green: 0% (0/4)			
Yellow: 100% (4/4)			
Red: 0% (0/4)			

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
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21	22	23
Flown: 8% (3/37)		
Green: 0% (0/37)		
Yellow: 0% (0/37)		
Red: 8% (3/37)		

D00|O10C (NIS Offset - Galaxy)

1	2
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Flown: 0% (0/2)  
Green: 0% (0/2)  
Yellow: 0% (0/2)  
Red: 0% (0/2)

D00|R10E (Table Mountain Radiometric Calibration - Galaxy)

1	2	3	4	5
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Flown: 100% (5/5)  
Green: 0% (0/5)  
Yellow: 100% (5/5)  
Red: 0% (0/5)

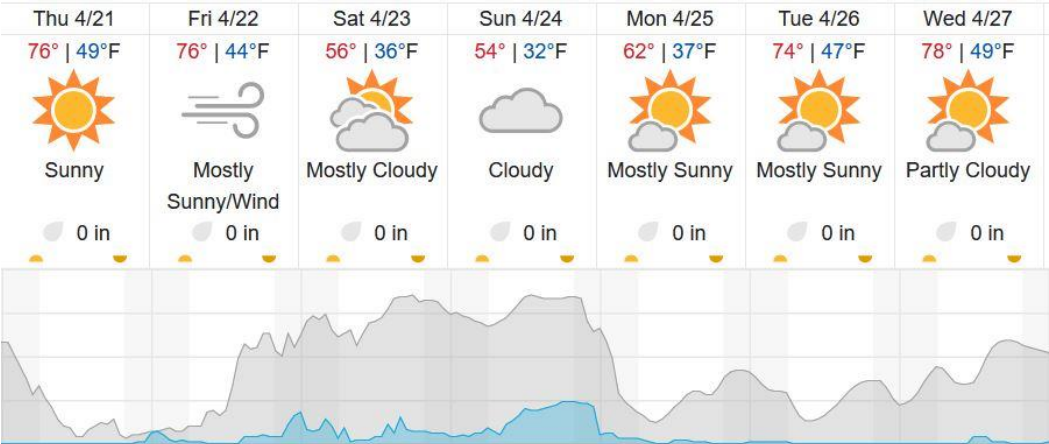
D00|W10D (Wiggle Timing Test - Galaxy)

1	2
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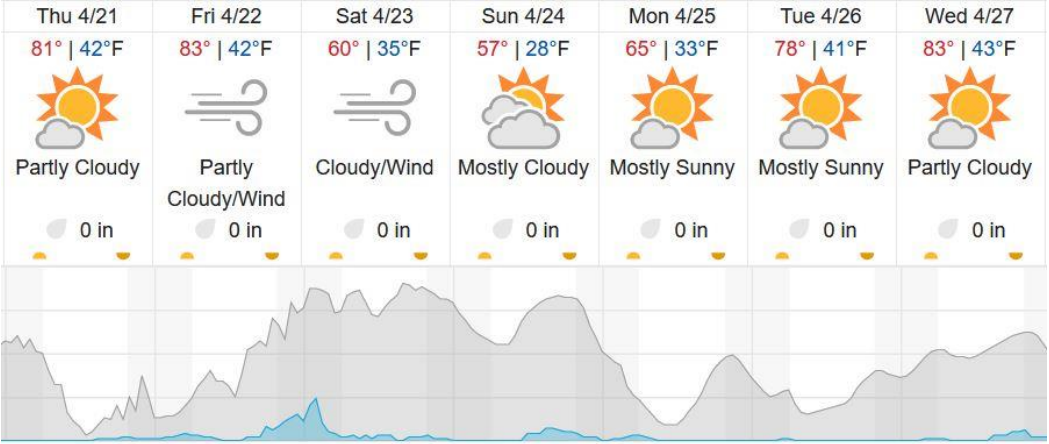
Flown: 100% (2/2)  
Green: 0% (0/2)  
Yellow: 100% (2/2)  
Red: 0% (0/2)

Weather Forecast

Boulder, CO



Greeley, CO



Cloud Cover (%)	Chance of Precip. (%)
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source: wunderground.com

## **Flight Collection Plan for 21 April 2022**

### **Flyority 1**

Collection Area: Boresight Calibration – Greeley, CO

Flight Plan Name: D10\_B10F\_Boresight\_Geocal\_v9\_PRM.xml

30° On-station Time: 1500 UTC / 0900 L

Additional Considerations: No recent snowfall, clear roofs required.

### **Flyority 2**

Collection Area: Nominal Runway Survey Flight Plan

Name: D10\_N10F\_Nominal\_Rnwy\_v10\_PRM.xml

On-Station Time: Daylight – No solar angle restrictions.

Additional Considerations: Runway should not be wet or snow covered.

### **Flyority 3**

Collection Area: NIS Offset Flight

Flight Plan Name: D10\_O10C\_NIS\_Offset\_v2\_PRM.xml

35° On-station Time: 1530 UTC / 0930 L

### **Flight Crew:**

1<sup>st</sup> Flight: Matt (Lidar), Mike (NIS), John (Trainer), Mitch (Ground)

2<sup>nd</sup> Flight: Mike (Lidar), Abe (NIS), John (Trainer), Elissa (Ground)