

## Payload 1 Daily Flight Report



Date: 2022-04-28

Flight Campaign ID: P1C1

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

Aircraft: N331AR

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

Sites Flown: V10F (Boulder City Nominal Science Flight)

Days left in Domain: 3

Report Author: Nick

**Lidar Operators**: Matt Flight Hours: 01:00

**Spectrometer Operators**: Murph **Hours until maintenance**: 111.92 **Pilots**: Magnus, Justin **GPS Instruments**: AOP\_KBDU

Addt'l Flight Crew: Matt Ground Crew: Elissa

#### **Summary**

Crew conducted a training flight for Nick over Boulder City and a fam flight for Murph.

## **Daily Coverage**

## **Estimated Cloud Cover Key**

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

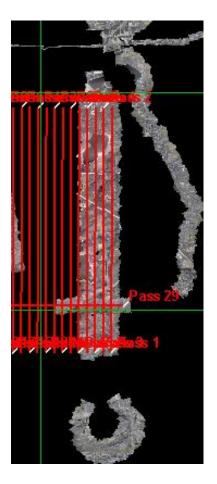
## D00 | V10F

Line #	1	2	3	4	29
Lidar	<b>\</b>	<b>\</b>	<b>\</b>	<b>\</b>	<b>✓</b>
Spectrometer	✓	✓	✓	✓	✓
Camera	<b>√</b>	✓	✓	✓	✓
Cloud Cover					

Total number of lines flown: 5

**Flight Screenshots** 





Lidar NIS

## **Cumulative Domain Coverage**

D00|B10F (Complete Greeley Boresight Geocalibration - 1500m, 1000m, 550m - Galaxy) 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

Flown: 100% (20/20) Green: 100% (20/20) Yellow: 0% (0/20) Red: 0% (0/20)

## D00 | H10D (NEON Headquarters Lidar Validation - Galaxy)

1 2 3 4

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

## D001N10F (Nominal Runway at KBDU - Galaxy)

000		(1.40		····	way .	at IND		Galaxy)											
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	29	30	31	32	33	34	35	36	37			

Flown: 100% (37/37) Green: 0% (0/37) Yellow: 0% (0/37) Red: 100% (37/37)

# D00 | O10C (NIS Offset - Galaxy)

1 2

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

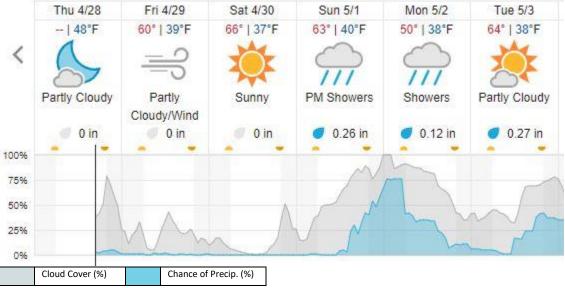
Flown: 100% (5/5) Green: 100% (5/5) Yellow: 0% (0/5) Red: 0% (0/5)

## D00 | W10D (Wiggle Timing Test - Galaxy)

1 2

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

#### **Weather Forecast**



source: wunderground.com

# Flight Collection Plan for April 29th 2022

Collection Area: NIS Offset Flight

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

35° On-station Time: 1520 UTC / 0920 L

Weather considerations: No clouds below aircraft and no clouds obscuring the sun.

Flight Crew: Matt (Lidar), John (NIS), Elissa (Ground)

Optech Galaxy Recerts Remaining: None