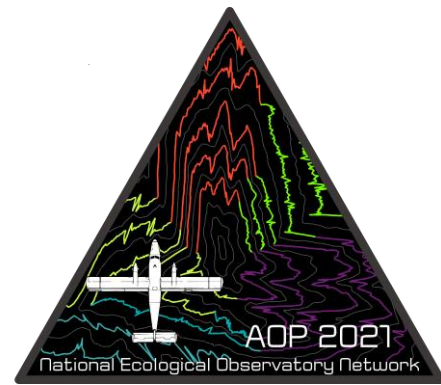




Payload 3 Daily Flight Report



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

Flight Hours: 02:20

Spectrometer Operators: Abe Morrison

Hours until maintenance: 119.18

Pilots: Mark Solper, Vibeke Gaard

GPS Instruments: AOP_CPER, AOP_KBDU

Ground Crew: Matt Devoe

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

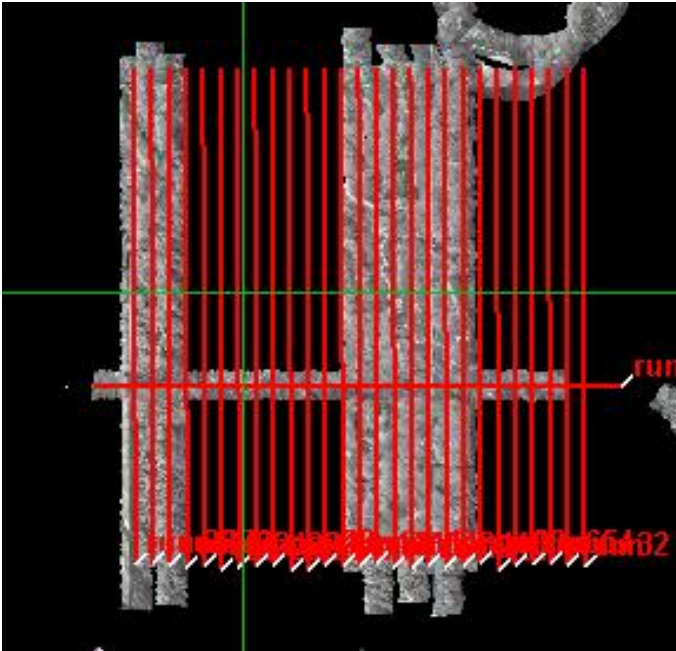
Green:	Yellow:	Red:
0-10%	11-50%	>50%

D10|CPER

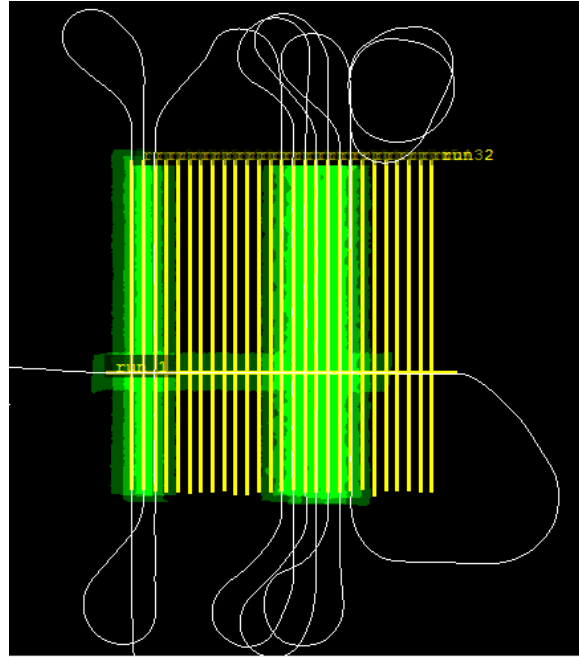
Line #	1	9	10	11	12	13	14	15	26	27	28
Lidar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cloud Cover	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green

Total number of lines flown: 11

Flight Screenshots



NIS Screenshot 2021060315



Lidar Screenshot 2021060315

Pictures

None.

Cumulative Domain Coverage

D10|ARIK (Arikaree River)

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						

Flown: 0% (0/35)

Green: 0% (0/35)

Yellow: 0% (0/35)

Red: 0% (0/35)

D10|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: 75% (21/28)

Green: 71% (20/28)

Yellow: 4% (1/28)

Red: 0% (0/28)

D10|STER (Sterling Agricultural Site)

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																

Flown: 52% (13/25)

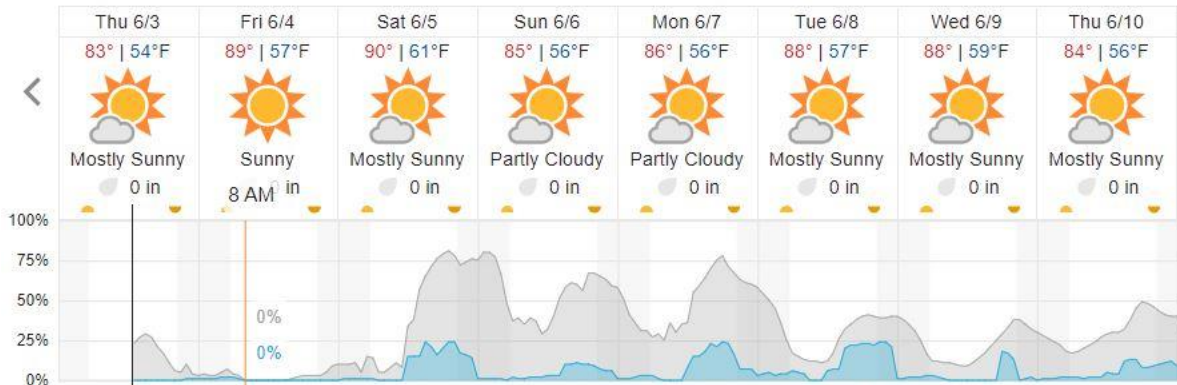
Green: 52% (13/25)

Yellow: 0% (0/25)

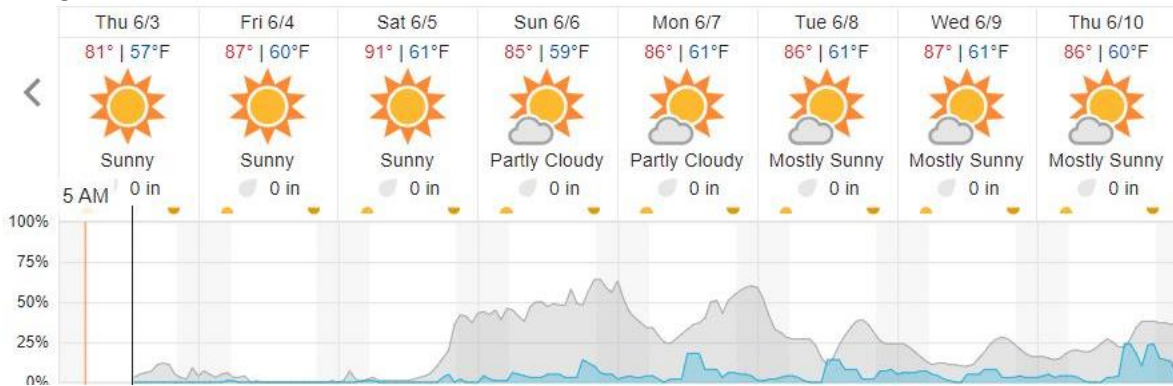
Red: 0% (0/25)

Weather Forecast

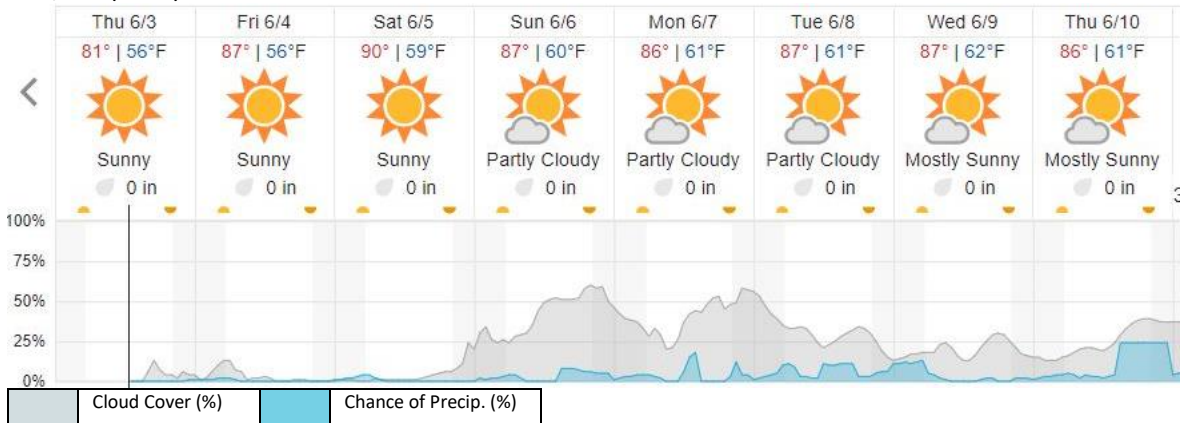
Nunn, CO (CPER)



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)