



Payload 3 Daily Flight Report



Date: 2023-08-14

Flight Campaign ID: P3C1

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

Aircraft: N934MU

Domain: 10,13 (Training & Calibration), 10 (Central Plains), 13 (Southern Rockies & Colorado Plateau)

Sites Flown: ARIK (Arikaree River)

Days left in Domain: 12

Report Author: Cameron

Lidar Operators: Cameron

Flight Hours: 03:22:00, 03:06:00

Spectrometer Operators: Mitch

Hours until maintenance: 81.90

Pilots: Will, Justin

GPS Instruments: 02 - ARIK, AOP_KBDU

Ground Crew: Matt

Summary

With cloudy conditions over the Rockies this morning, the crew shifted focus to the East. We took advantage of clear skies over ARIK and collected the entire site in nominal sky conditions. We refueled in Goodland, KS midway through the flight before completing the P2 Box.

Concerns

- None

Comments

- None

Daily Coverage

Estimated Cloud Cover Key

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

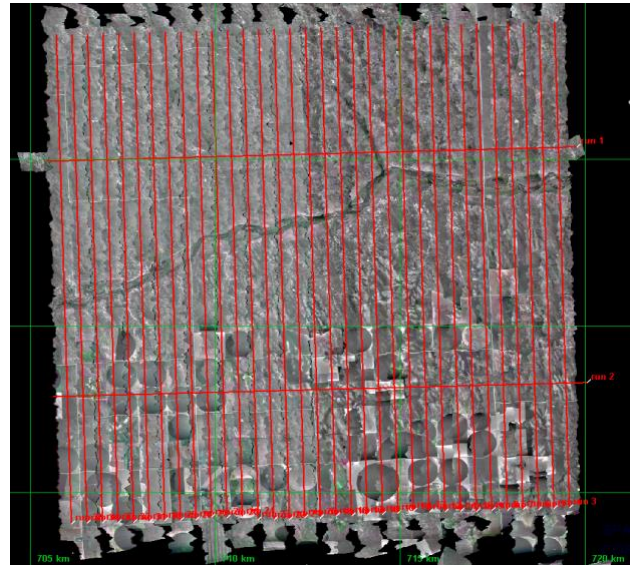
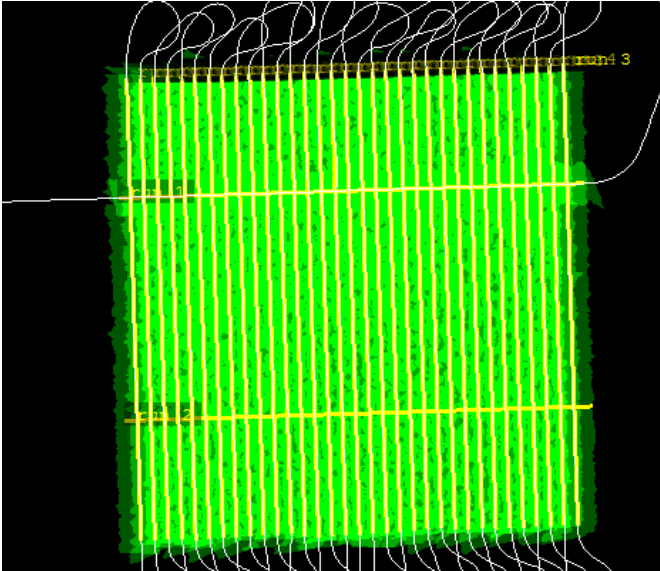
D10|ARIK

Line #	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
Lidar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cloud Cover																				

Line #	22	23	24	25	26	27	28	29	30	31	32	33	34	35
Lidar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cloud Cover														

Total number of lines flown: 34

Flight Screenshots



Pictures



A photo taken while flying over the ARIK site today.

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: 97% (34/35)

Green: 97% (34/35)

Yellow: 0% (0/35)

Red: 0% (0/35)

D10|RMNP (Rocky Mountain National Park)

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	38	39	

Flown: 59% (23/39)

Green: 36% (14/39)

Yellow: 21% (8/39)

Red: 3% (1/39)

D13|NIWO (Niwot Ridge Mountain Research Station)

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	38	39	40
41	42	43	44	45	46	47	48	49	50	51	52								

Flown: 4% (2/52)

Green: 0% (0/52)

Yellow: 4% (2/52)

Red: 0% (0/52)

D13|WLOU (West St. Louis Creek)

1	2	3	4	5	6	7	8	9	10	11	12	13	14
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Flown: 0% (0/14)

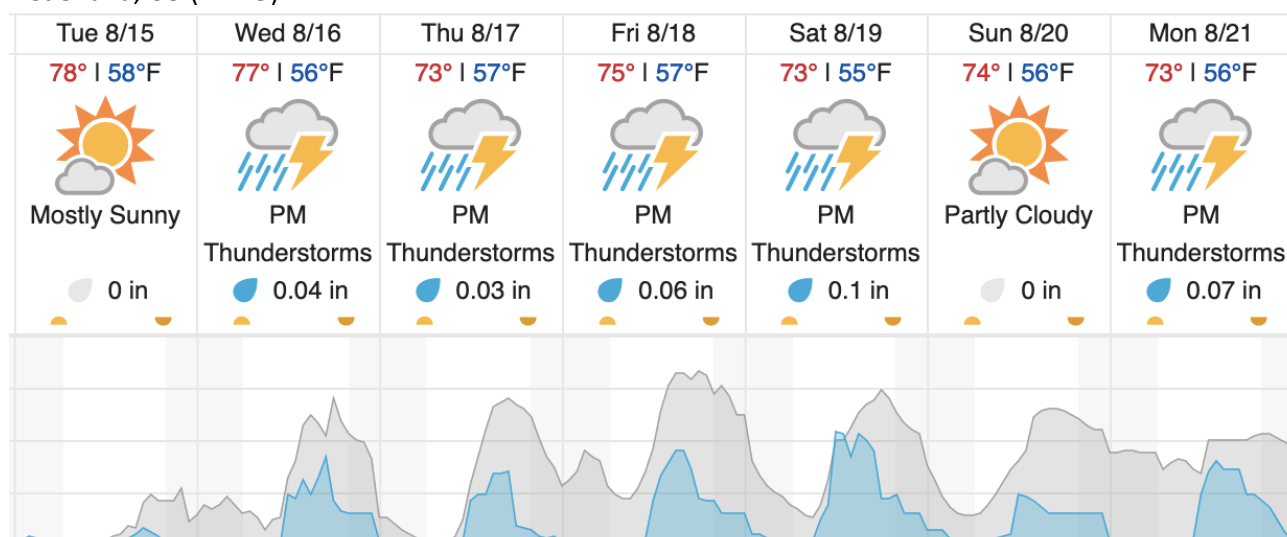
Green: 0% (0/14)

Yellow: 0% (0/14)

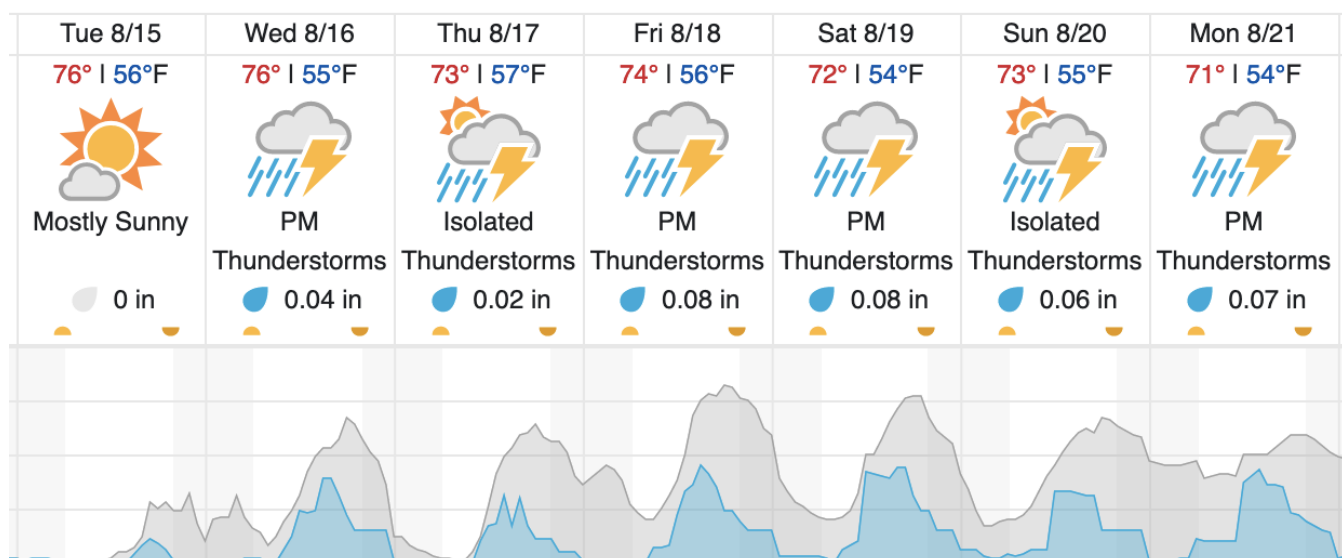
Red: 0% (0/14)

Weather Forecast

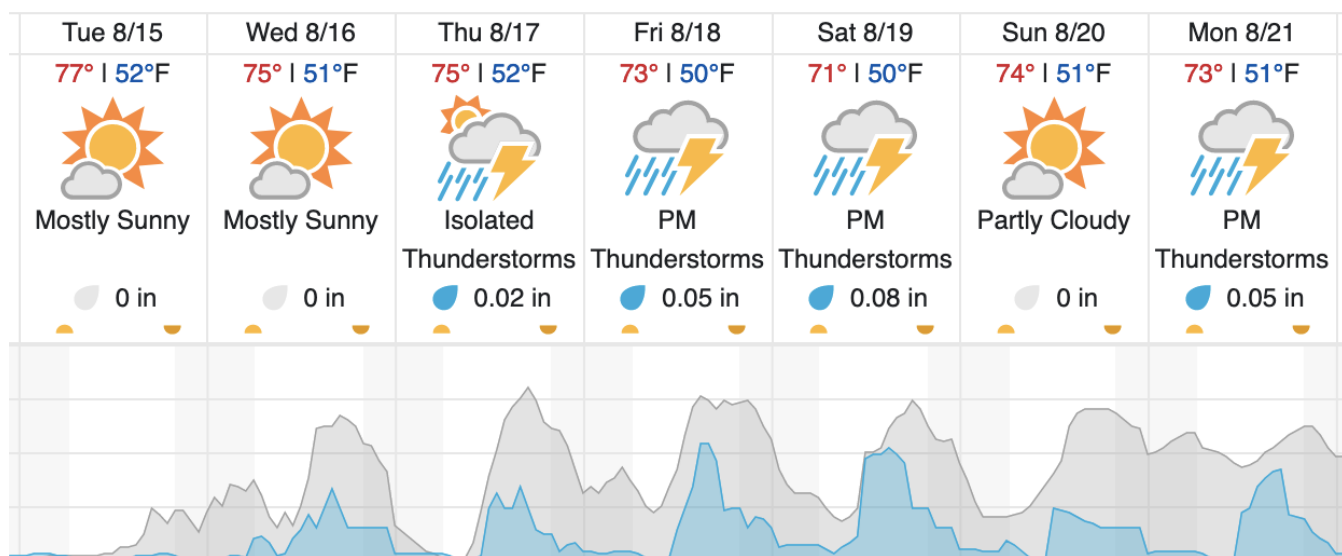
Nederland, CO (NIWO)



Allenspark, CO (RMNP)



Fraser, CO (WLOU)



source: wunderground.com

Flight Collection Plan for 14th August 2023

Flyority 1

Collection Area: Niwot Ridge Mountain Research Station (NIWO)

Flight Plan Name: D13_NIWO_C1_P1_v5_Q780

On-Station Time: 15:50 UTC / 09:50 L

Flyority 2

Collection Area: Rocky Mountain National Park (RMNP)

Flight Plan Name: D10_RMNP_R2_P1_v2_Q780

On-Station Time: 15:50 UTC / 09:50 L

Flyority 3

Collection Area: West St. Louis Creek (WLOU)

Flight Plan Name: D13_WLOU_A1_P1_Q780

On-Station Time: 15:50 UTC / 09:50 L

Flyority 4

Collection Area: Arikaree River (ARIK)

Flight Plan Name: D10_ARIK_A1_P2_v3_Q780

On-Station Time: 15:40 UTC / 09:40 L

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