



Payload 3 Daily Flight Report



Date: 2023-08-17

Flight Campaign ID: P3C1

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

Aircraft: N934MU

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

Sites Flown: NIWO (Niwot Ridge Mountain Research Station), WLOU (West St. Louis Creek)

Days left in Domain: 9

Report Author: Cameron

Lidar Operators: Cameron

Flight Hours: 00:42

Spectrometer Operators: Mitch

Hours until maintenance: 76.92

Pilots: Will, Justin

GPS Instruments: AOP_KBDU, AOP_NIWO

Ground Crew: John

Summary

Early morning cloudless skies caused the crew to mobilize to the hangar and prep for flights. We observed a smoke band to the north however it didn't appear to significantly affect our mountain sites. The crew took to the sky with hopes of completing the NIWO box however upon the short takeoff and climb out, cumulus clouds began to build. We flew over the continental divide to look at the WLOU flight box, unfortunately clouds were also developing over that site. No data was collected.

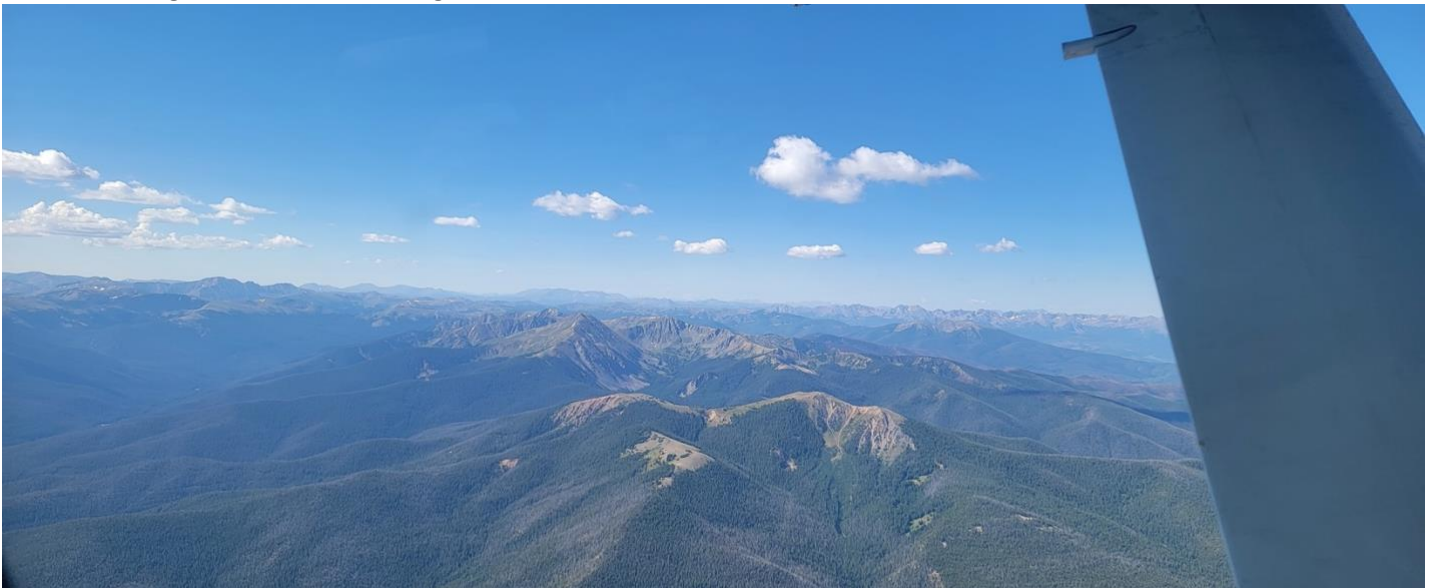
Concerns

- None

Comments

- None

Pictures: Looking toward the WLOU flight box



Daily Coverage

Estimated Cloud Cover Key

Green: 0-10%	Yellow: 11-50%	Red: >50%
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Cumulative Domain Coverage

D10|ARIK (Arikaree River)

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: 100% (33/33)

Green: 100% (33/33)

Yellow: 0% (0/33)

Red: 0% (0/33)

D10|RMNP (Rocky Mountain National Park)

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: 58% (22/38)

Green: 37% (14/38)

Yellow: 18% (7/38)

Red: 3% (1/38)

D13|NIWO (Niwot Ridge Mountain Research Station)

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: 82% (42/51)

Green: 82% (42/51)

Yellow: 0% (0/51)

Red: 0% (0/51)

D13|WLOU (West St. Louis Creek)

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

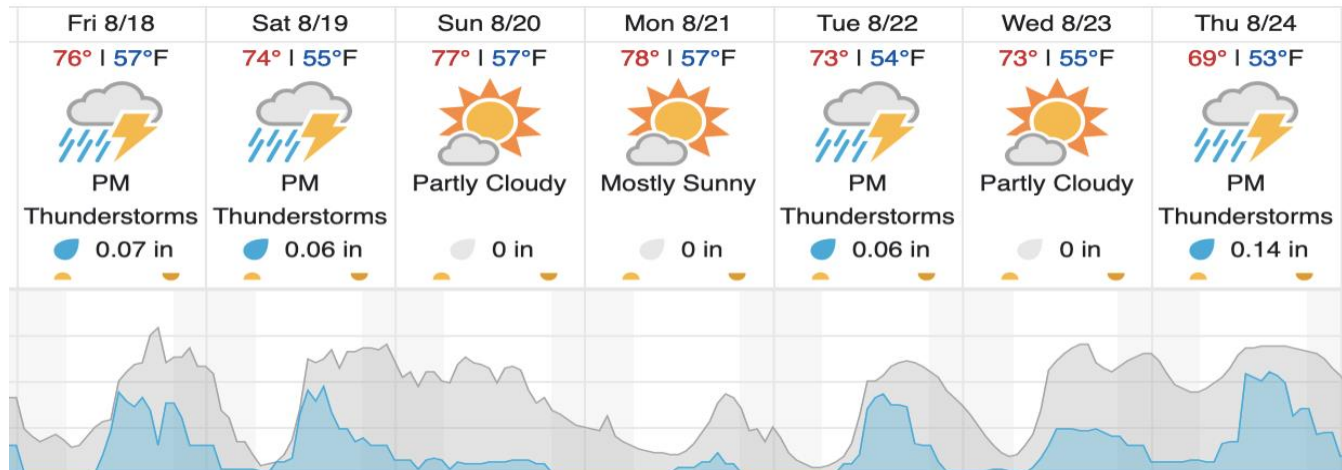
Green: 0% (0/13)

Yellow: 0% (0/13)

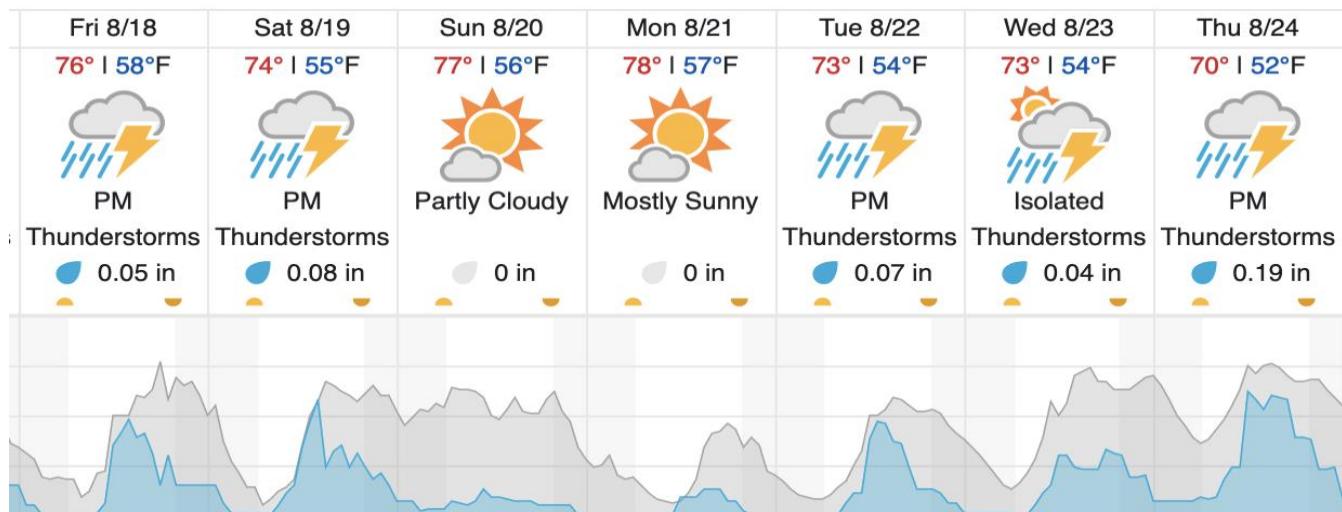
Red: 0% (0/13)

Weather Forecast

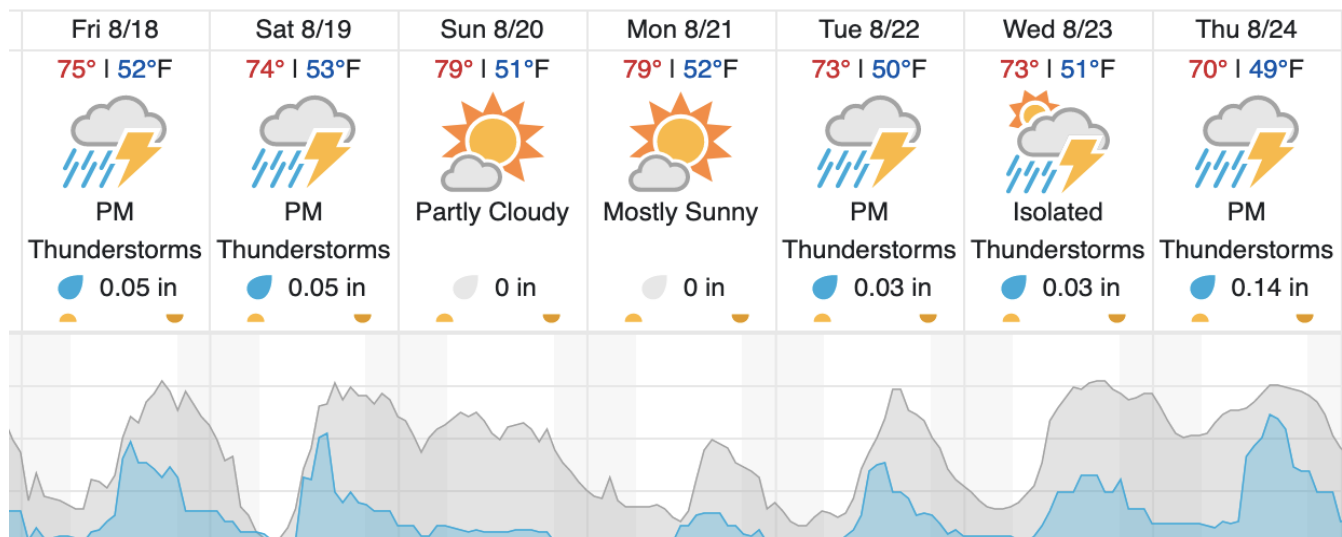
Nederland, CO (NIWO)



Allenspark, CO (RMNP)



Fraser, CO (WLOU)



Cloud Cover (%) Chance of Precip. (%)

source: wunderground.com

Flight Collection Plan for August 18th, 2023

Flyority 1

Collection Area: Niwot Ridge Mountain Research Station (NIWO)

Flight Plan Name: D13_NIWO_C1_P1_v5_Q780

On-Station Time: 16:00 UTC / 10:00 L

Flyority 2

Collection Area: Rocky Mountain National Park (RMNP)

Flight Plan Name: D10_RMNP_R2_P1_v2_Q780

On-Station Time: 16:00 UTC / 10:00 L

Flyority 3

Collection Area: West St. Louis Creek (WLOU)

Flight Plan Name: D13_WLOU_A1_P1_Q780

On-Station Time: 16:00 UTC / 10:00 L

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