



Payload 3 Daily Flight Report



Date: 2023-08-15
Flight Campaign ID: P3C1
Airport, FBO ID, City: Boulder Municipal Airport (KBDU) - Boulder, CO
Aircraft: N934MU

Domain: 13 (Southern Rockies & Colorado Plateau)
Sites Flown: NIWO (Niwot Ridge Mountain Research Station)
Days left in Domain: 11

Report Author: Matt
Lidar Operators: Matt
Spectrometer Operators: Cameron
Pilots: Justin, Will
Ground Crew: Mitch
Flight Hours: 04:17
Hours until maintenance: 77.62
GPS Instruments: AOP_KBDU, AOP_NIWO

Summary

With clear skies throughout the front range, the crew was able to get airborne and collect 42 lines and a cross strip of the NIWO flight box in severe clear sky conditions.

Concerns

None

Comments

None

Daily Coverage

Estimated Cloud Cover Key

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

D13|NIWO

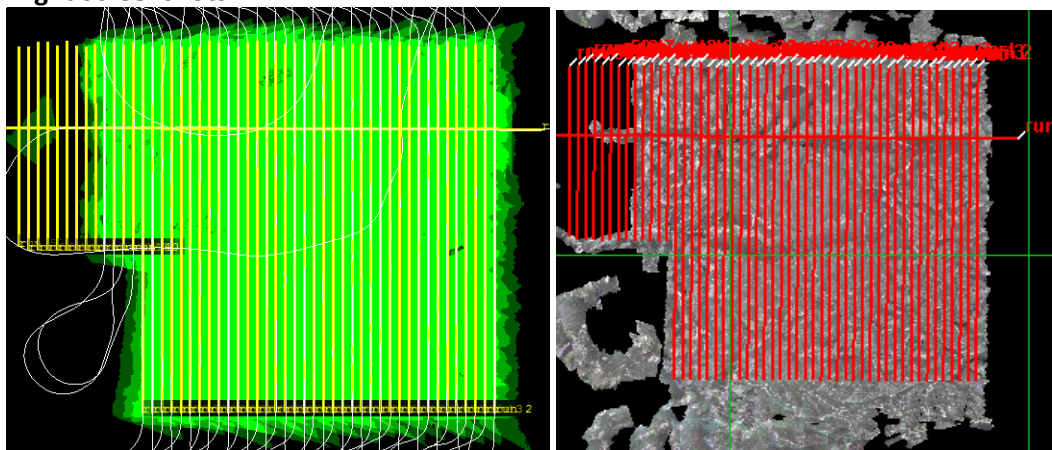
Line #	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	
Lidar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cloud Cover																					

Line #	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	
Lidar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cloud Cover																					

Line #	42	43
Lidar	✓	✓
Spectrometer	✓	✓
Camera	✓	✓
Cloud Cover		

Total number of lines flown: 42

Flight Screenshots



Pictures



NIWOT tower site

Cumulative Domain Coverage

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
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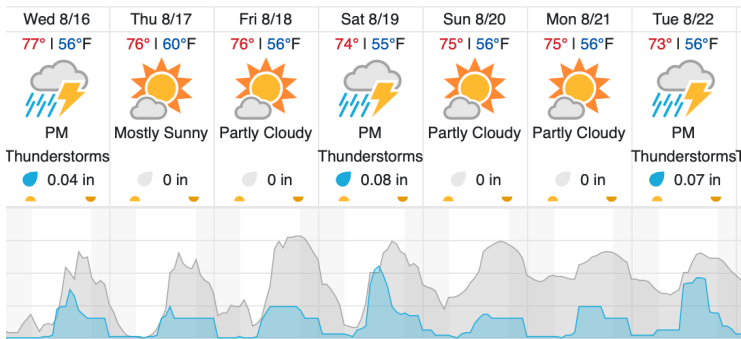
Flown: 83% (43/52)
 Green: 83% (43/52)
 Yellow: 0% (0/52)
 Red: 0% (0/52)

D13 | WLOU (West St. Louis Creek)

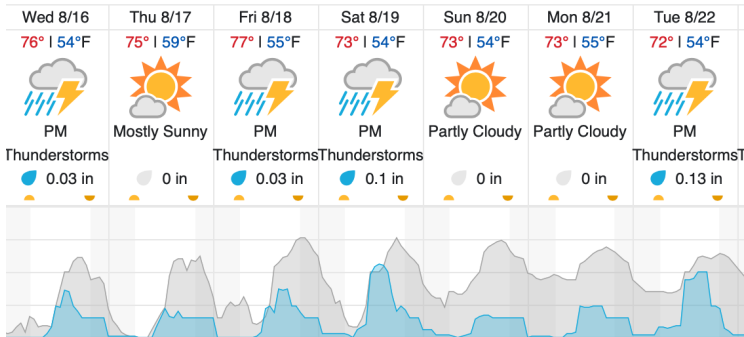
1	2	3	4	5	6	7	8	9	10	11	12	13	14
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Flown: 0% (0/14)
 Green: 0% (0/14)
 Yellow: 0% (0/14)
 Red: 0% (0/14)

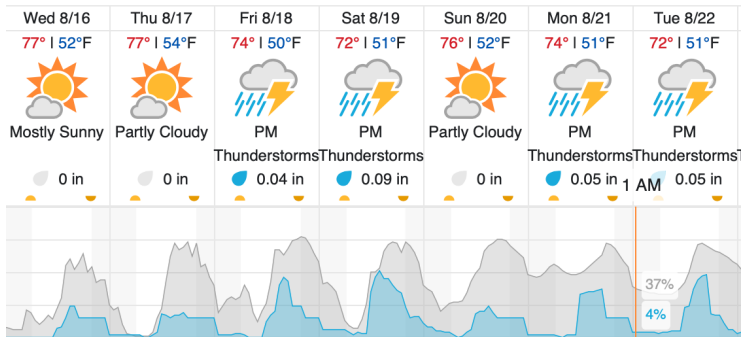
Weather Forecast
 Nederland, CO (NIWO)



Allenspark, CO (RMNP)



Fraser, CO (WLOU)



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

Flight Collection Plan for August 16th 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

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