



Payload 3 Daily Flight Report



Date: 2023-04-28

Flight Campaign ID: P3C1

Airport, FBO ID, City: Salt Lake City International Airport (KSLC) - Salt Lake City, UT, Canyonlands Regional Airport (KCNV) - Moab, UT

Aircraft: N934MU

Domain: 15 (Great Basin)

Sites Flown: MOAB (Moab)

Days left in Domain: 6

Report Author: Abe

Lidar Operators: Abe

Spectrometer Operators: Mike

Pilots: Will, Jon

Flight Hours: 01:10:00, 03:58:00, 01:18:00

Hours until maintenance: 96.25

GPS Instruments: C-ZLC1, U-P012

Summary

A very nice day was forecast for the MOAB site today, and the crew departed Salt Lake City as the sun was coming up for the collections. On arrival at the site, some high cirrus clouds were dissipating and allowed the crew to collect 20 lines in "green" Sky conditions. The high cloud layer unfortunately started to develop again toward the end of the collection, pushing the sky back to "yellow" and then "red" conditions. 8 lines and a cross strip were collected in the degraded conditions.

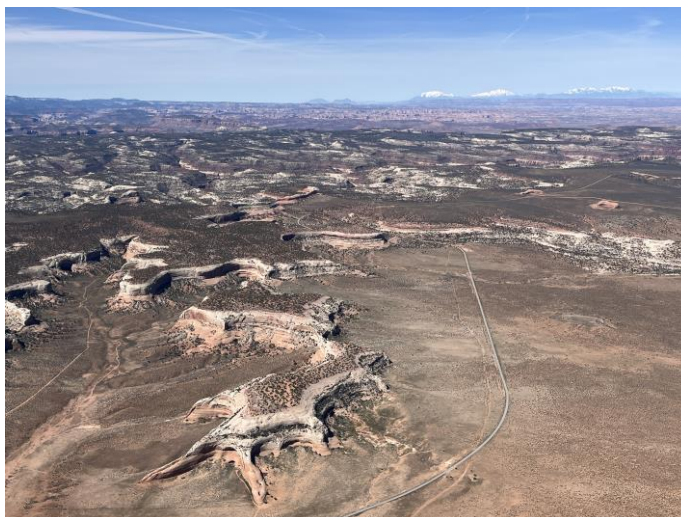
Concerns

None

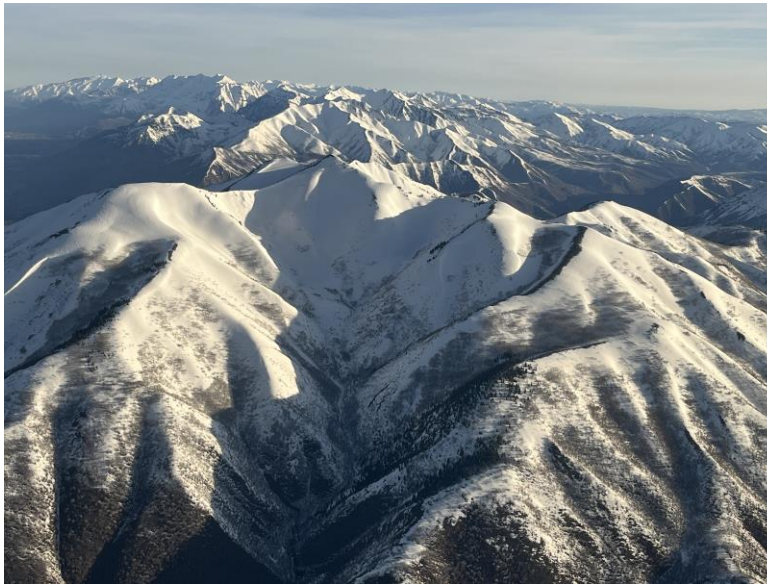
Comments

None

Pictures



Moab flight box looking toward Canyonlands. Pic by Abe



The Wasatch Range to the southeast of Salt Lake City. Pic by Abe

Daily Coverage

Estimated Cloud Cover Key

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

D15 | MOAB

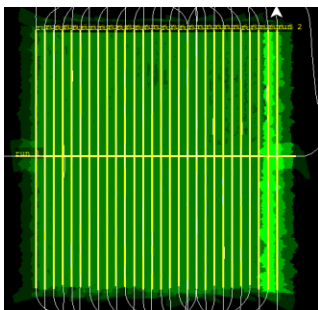
Line #	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
Lidar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cloud Cover	Red	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Green	Green	Green	Green	Green	Green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

Line #	22	23	24	25	26	27	28	29
Lidar	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓	✓
Cloud Cover	Green	Green	Green	Green	Green	Green	Green	Green

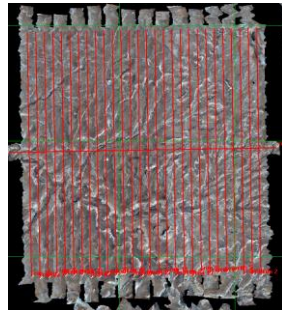
Total number of lines flown: 28

Flight Screenshots

Lidar



NIS



Cumulative Domain Coverage

D15 | MOAB (Moab)

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											

Flown: 100% (29/29)
Green: 69% (20/29)
Yellow: 28% (8/29)
Red: 3% (1/29)

D15 | ONAQ (Onaqui)

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																		

Flown: 45% (19/42)
Green: 38% (16/42)
Yellow: 7% (3/42)
Red: 0% (0/42)

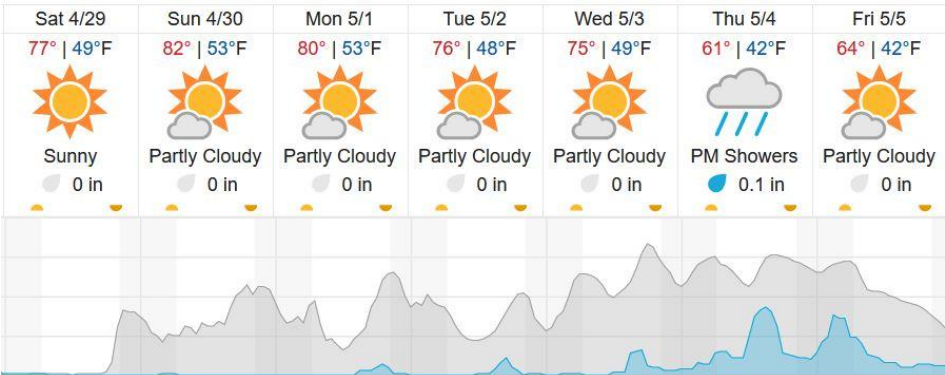
D15 | REDB (Red Butte)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
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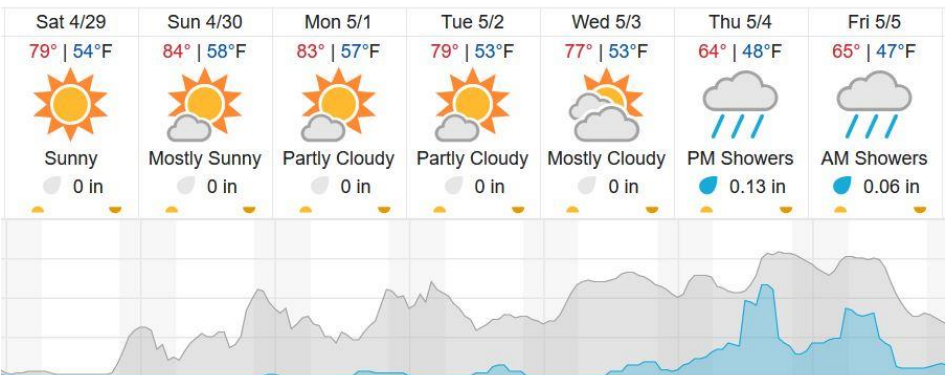
Flown: 0% (0/19)
Green: 0% (0/19)
Yellow: 0% (0/19)
Red: 0% (0/19)

Weather Forecast

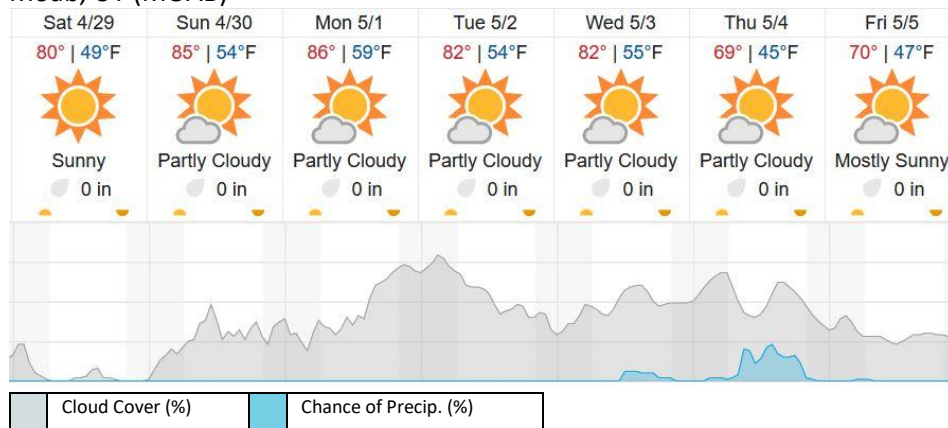
Rush Valley, UT (ONAQ)



Salt Lake City, UT (REDB)



Moab, UT (MOAB)



source: wunderground.com

Flight Collection Plan for April 29, 2023

Flyority 1

Collection Area: Onaqui-Ault (ONAQ) **Lines 2-3 if green, and lines 20-42 any condition.**

Flight Plan Name: 15_ONAQ_C1_P1_v3_Q780

On-Station Time: 1620 UTC/ 1020 L

Flyority 2

Collection Area: Moab (MOAB) **Lines 2-9 if "green" conditions**

Flight Plan Name: 13_MOAB_R1_P1_v3_Q780

On-Station Time: 1600 UTC/ 1000 L

Flyority 3

Collection Area: Red Butte (REDB)

Flight Plan Name: D15_REDB_A1_P1_v2_Q780

On-Station Time: 1620 UTC/ 1020 L

Crew: Mike (Lidar), Abe (NIS)