



Payload 1 Daily Flight Report



Date: 2026-05-19
Flight Campaign ID: P1C1
Airport, FBO ID, City: Provo Airport (KPVU) - Provo, UT
Aircraft: N537AR

Domain: 15 (Great Basin), 13 (Southern Rockies & Colorado Plateau)
Sites Flown: ONAQ (Onaqui)
Days left in Domain: 10

Report Author: Elissa
Lidar Operators: Elissa
Spectrometer Operators: Alyssa
Pilots: Troy, Tim

Flight Hours: 01:14
Hours until maintenance: 107.18
GPS Instruments: S-UTMN, U-P016

Summary

We took advantage of a brief green window this morning to try to collect remaining lines at ONAQ, but were thwarted by a lidar failure. Four lines had been collected when the system experienced repeated “incorrect PRF” errors. Soon after the lidar PDU shut down (also causing the camera computer to shut down). Connection to POS was lost. Conditions were quickly shifting from green to yellow so we returned to the airport rather than attempting an in-flight reboot.

Concerns

Spontaneous UPDU/camera computer shutdown resulting in loss of trajectory data.

Comments

Tristan was able to generate an SBET for this flight, so lines 32-35 may not need to be reflown despite the POS lapse.

Daily Coverage

Estimated Cloud Cover Key

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

Solar Angle Less Than 40 degrees: (*)

D15|ONAQ

Line #	32	33	34	35
Lidar	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓
Camera	✓	✓	✓	✓
Cloud Cover				

Total number of lines flown: 4

Flight Screenshots

Lidar

File Settings Comments Help

State: **NO_COMM**

Configuration | **Monitoring**

Flight Lines Control

Use SPS file Auto

Current Line: << 37 >>

Segment: << 0 >>

Auto Segment Selection

Line	Altitude [m]	AGL [m]
37	3376	1178
38	11076	3865

Heading: 180 Length: 11,086 Total Lines: 2

APPLY CHANGES

Auto Start Stop Laser

#	Type	Vert.	Lines
1	SURV...	5	1
2	SURV...	5	4
3	SURV...	5	5
4	SURV...	5	4
5	SURV...	5	4
6	SURV...	5	3
7	SURV...	5	1
8	SURV...	5	1
9	SURV...	5	2
10	SURV...	5	1
11	SURV...	5	1
12	SURV...	5	4
13	SURV...	5	1
14	SURV...	5	1
15	SURV...	5	3
16	SURV...	5	2
17	SURV...	5	1
18	SURV...	5	1
19	SURV...	5	1
20	SURV...	5	1

Progress View

Auto Laser is On

Communication with the system is not established!
Connect attempt: 3
Network is available. Sensor1 ping result: 1000ms (1000ms) (1000ms), last ping time: 16:23:47
Sensor1 ping result: 1000ms (1000ms) (1000ms), last ping time: 16:23:47
FMSNav is trying to connect to this Sensor. IP address: 192.202.96.port:4557
FMSNav computer IP address is: 192.168.1.25

AV POSView Error
Lost connection with POS!

Operator Reference

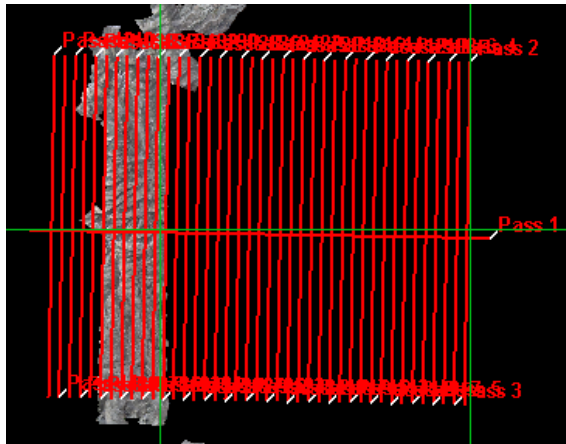
DCRS: 180.0 DSTS km: 1.07
ACRS: 0.0 DSTI km: 12.2
v (M): 0 RWG (R):
Target v: 97 ALT (R): 0

348ft

Logs

Notification 16:20:44.000 SM134 Sensor changed to Ready
Critical 16:21:12.000 SM040 SEC: Cam NOT communicate with TX shutter
Notification 16:22:27.000 SM228 Sensor Heaters are set OFF

NIS



Cumulative Domain Coverage

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: 83% (35/42)

Green: 83% (35/42)

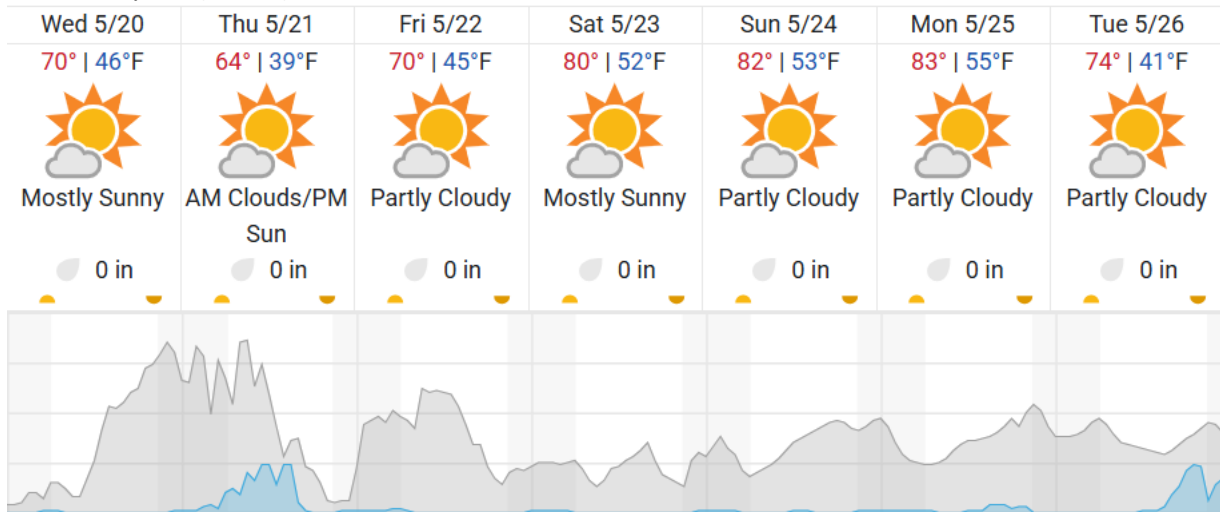
Yellow: 0% (0/42)

Red: 0% (0/42)

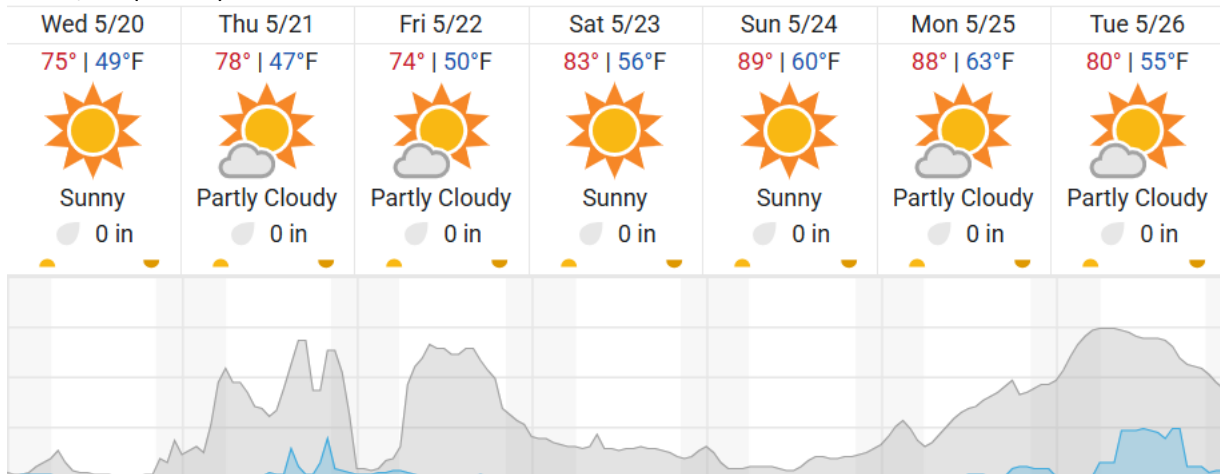
* Flown within 35deg solar angle

Weather Forecast

Rush Valley, UT (ONAQ)



Moab, UT (MOAB)



source: wunderground.com

Flight Collection Plan for 20 May 2026

Flyority 1

Site: Onaqui-Ault (ONAQ) – lines 32-42

Flight Plan Name: D15_ONAQ_C1_P1_v4

Solar Angle Time: 16:00UTC / 10:00L

Flyority 2

Site: Moab (MOAB)

Flight plan name: D13_MOAB_R1_P1_v5

Solar Angle Time: 15:50UTC / 09:50L

Crew: Alyssa (Lidar), Elissa (NIS)