



Payload 1 Daily Flight Report

Date: 2026-07-04

Flight Campaign ID: P1C1

Airport, FBO ID, City: Provo Airport (KPVU) - Provo, UT

Aircraft: N537AR

Domain: 15 (Great Basin)

Sites Flown: REDB (Red Butte)

Days left in Domain: 0

Report Author: Mitch

Lidar Operators: Mitch

Flight Hours: 01:43

Spectrometer Operators: Cameron

Hours until maintenance: 69.42

Pilots: Jeff, Troy

Summary

A slight haze and distance cumulus, but otherwise green conditions allowed the crew to collect Red Butte (REDB) under green conditions this morning. Plan is to continue on to Fresno tomorrow in preparation for D17 flights starting Monday.

Concerns

None

Comments

Data from today's flight won't be extracted till we arrive in Fresno.

Daily Coverage

Estimated Cloud Cover Key

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

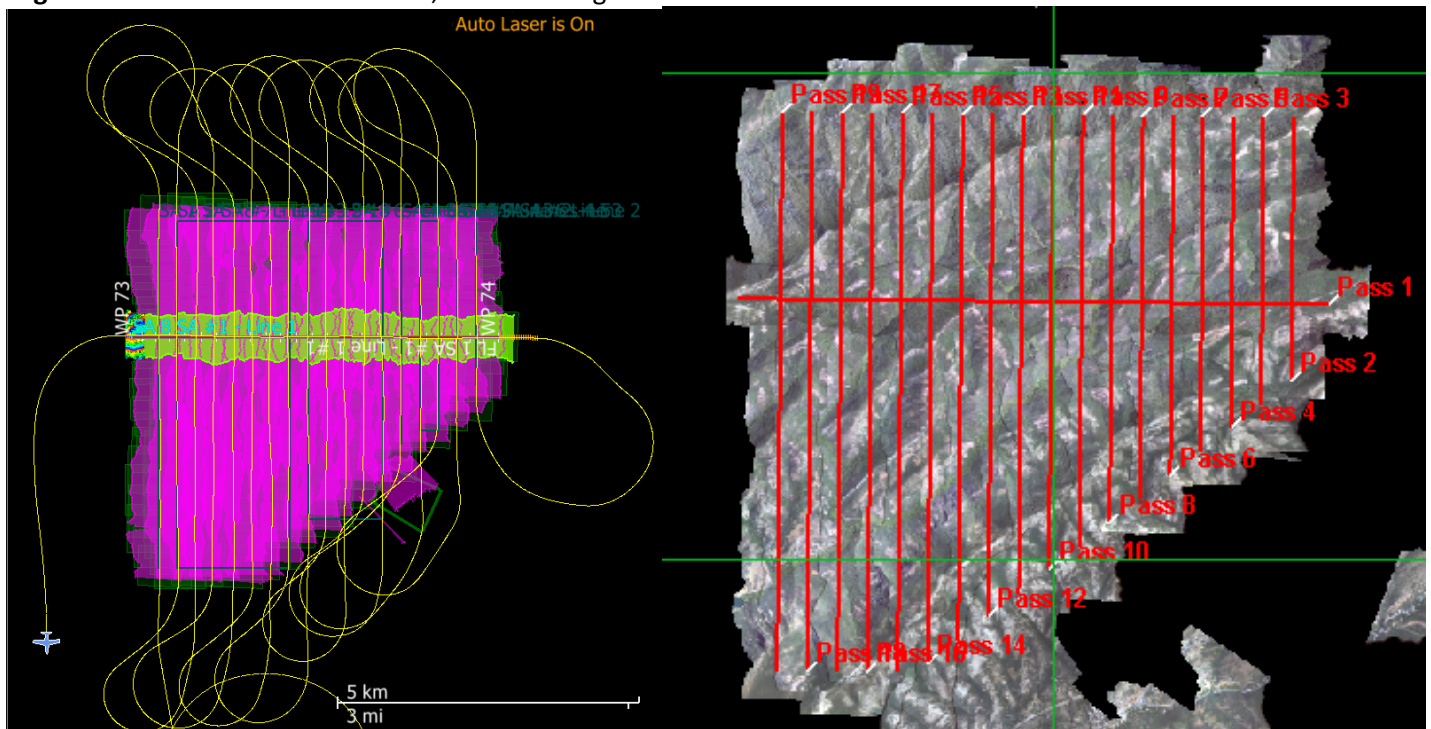
Solar Angle Less Than 40 degrees: (*)

D15 | REDB

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

Total number of lines flown: 18

Flight Screenshots: Lidar on the left, NIS on the right



Pictures: Burn scar and retardant residue from the recent Bonneville Fire clearly visible close to our flight box.



Cumulative Domain Coverage

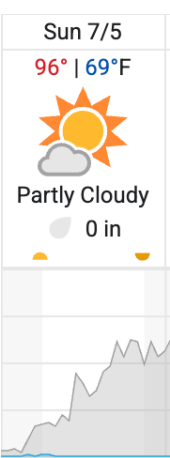
D15 | REDB (Red Butte)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19
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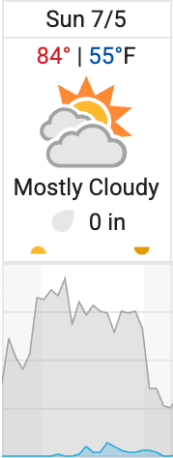
Flown: 100% (19/19)
Green: 100% (19/19)
Yellow: 0% (0/19)
Red: 0% (0/19)
* Flown within 35deg solar angle

Weather Forecast

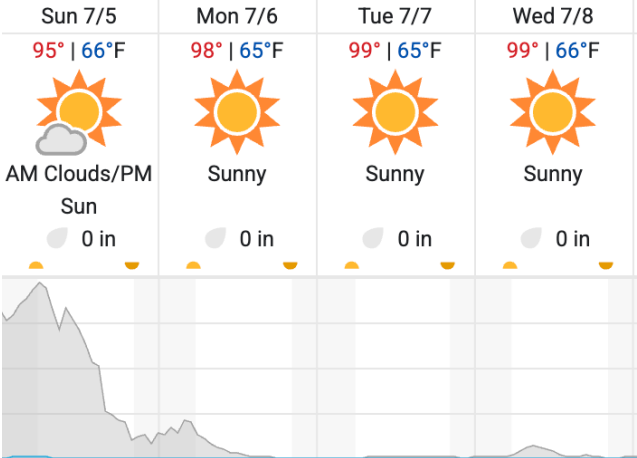
Provo, UT



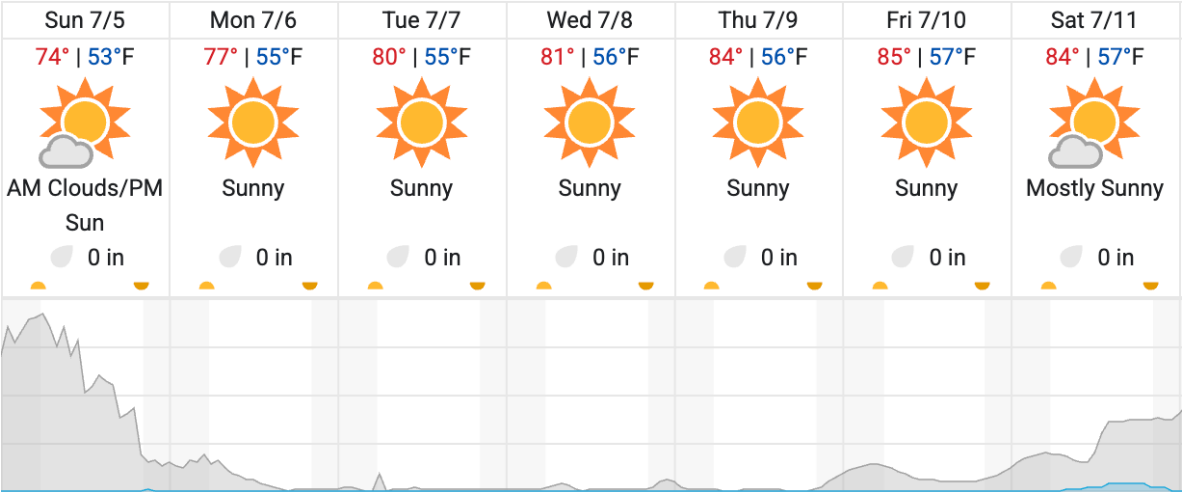
Tonopah, NV



Fresno, CA



Shaver Lake, CA (SOAP/TEAK)



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

Flight Collection Plan for July 5, 2026

Transit to Fresno, CA
Crew: Cam, Mitch

Flight Collection Plan for July 6, 2026

Flyority 1

Collection Area: Soaproot Saddle (SOAP) – Variable Altitude Plan
Flight Plan Name: D17_SOAP_R1_P1_P2_P3_v8_PRM_Var_Alt.xml
On-Station Time: 0920 L / 1620 UTC

Flyority 2

Collection Area: Teakettle (TEAK) – Priority 1 Flight Box – Variable Altitude Plan
Flight Plan Name: D17_TEAK_R2_P1_P2_P3_v7B_PRM_Var_Alt.xml
On-Station Time: 0920 L / 1620 UTC

Flyority 3

Collection Area: Nominal Runway – D17
Flight Plan Name: D17_N17A_Nominal_Runway_Test_v3_PRM.xml