



Payload 1 Daily Flight Report

Date: 2026-07-08

Flight Campaign ID: P1C1

Airport, FBO ID, City: Fresno Yosemite International Airport (KFAT) - Fresno, CA

Aircraft: N537AR

Domain: 17 (Pacific Southwest)

Sites Flown: SOAP (Soaproot Saddle), TEAK (Teakettle)

Days left in Domain: 7

Report Author: Mitch

Lidar Operators: Mitch

Flight Hours: 04:09

Spectrometer Operators: Cameron

Hours until maintenance: 57.98

Pilots: Troy, Jeff

GPS Instruments: AOP_TEAK, S-CAFR

Summary

Another clear day with light haze, though conditions remained well within the green category. The crew successfully completed TEAK under 100% green conditions and then made a strong start on SOAP before returning to Fresno.

Concerns

None

Comments

None

Daily Coverage

D17|TEAK

Line #	1	2	3	4	5	6	7	8	31	35	36	37	38	39
Lidar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cloud Cover														

Total number of lines flown: 14

D17|SOAP

Line #	18	19	20	21	22	23	24	25	26	27	28	29	47
Lidar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Camera	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cloud Cover													

Total number of lines flown: 13

Estimated Cloud Cover Key

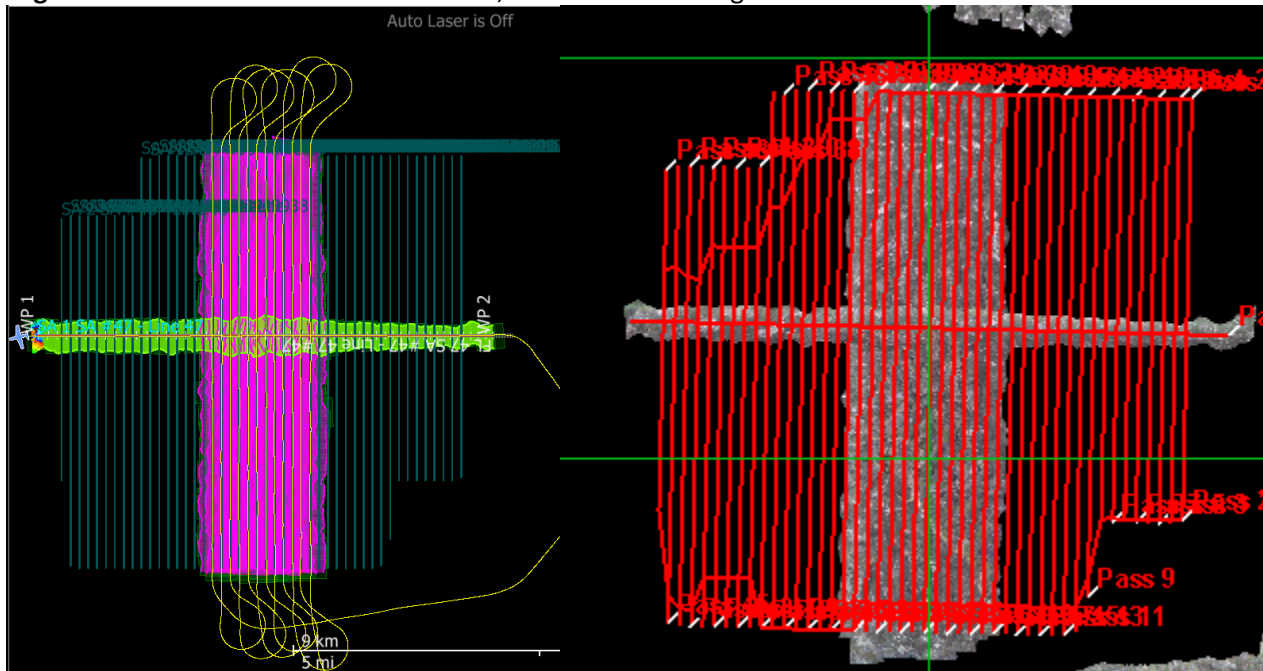
Green:	Yellow:	Red:
0-10%	11-50%	>50%

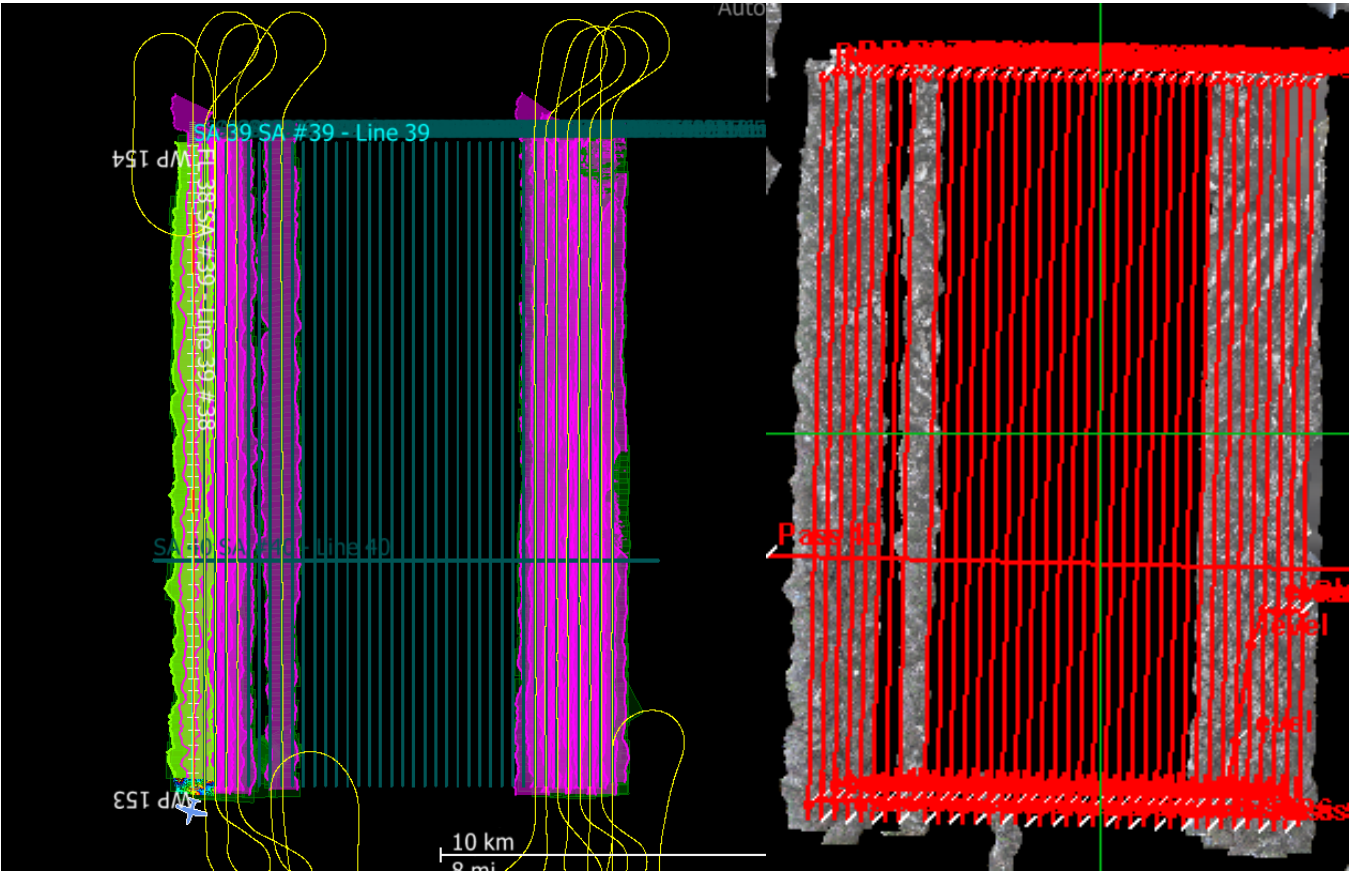
Solar Angle Less Than 40 degrees: (*)

Pictures



Flight Screenshots: SOAP lidar on the left, SOAP NIS on the right





Above: TEAK Lidar on the left, TEAK NIS on the right

Cumulative Domain Coverage

D17|SOAP (Soaproot Saddle)

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													

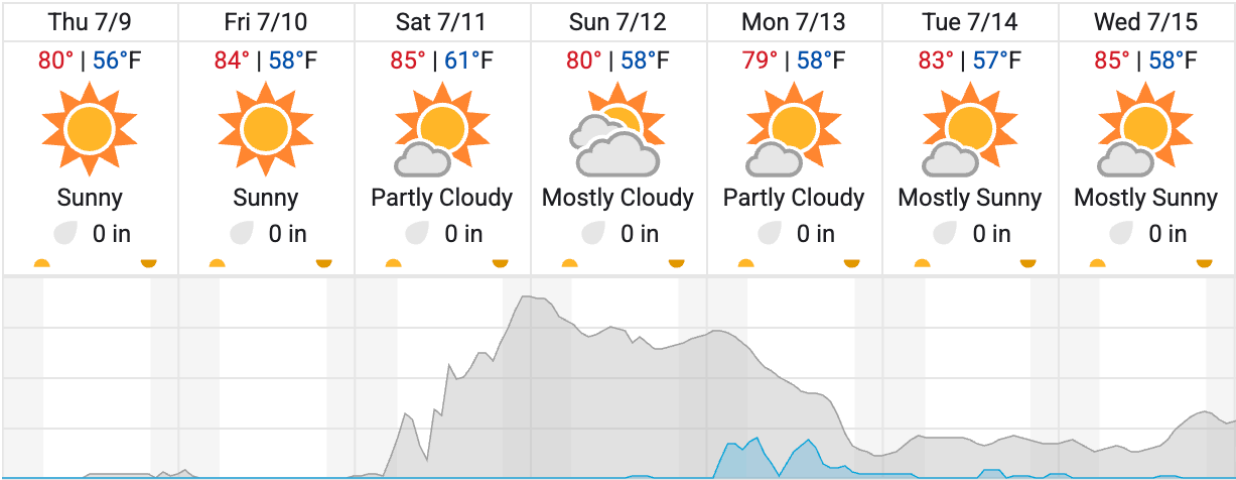
Flown: 28% (13/47)
Green: 28% (13/47)
Yellow: 0% (0/47)
Red: 0% (0/47)
* Flown within 35deg solar angle

D17|TEAK (Teakettle)

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

Flown: 100% (40/40)
Green: 100% (40/40)
Yellow: 0% (0/40)
Red: 0% (0/40)
* Flown within 35deg solar angle

Weather Forecast
Shaver Lake, CA (SOAP)



Cloud Cover (%)

Chance of Precip. (%)

source: wunderground.com

Flight Collection Plan for July 9, 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

Crew: Cam (Lidar), Mitch (NIS)