

## Payload 1 Daily Flight Report



Date: 2021-07-12 Flight Campaign ID: P1C2 Airport, FBO ID, City: Fresno Yosemite International Airport (KFAT) - Fresno, CA Aircraft: N331AR

**Domain:** 17 (Pacific Southwest) Sites Flown: N17A (D17 Nominal Runway), SOAP\_P1 (Soaproot Saddle Priority 1) Days left in Domain: 3

Report Author: Mitch Haynes Lidar Operators: Mitch Haynes Spectrometer Operators: Abe Morrison Pilots: Justin Eddington, Nick Koukoutsakis GPS Instruments: 05 - FBO\_KFAT, U-MUSB

Flight Hours: 04:13 Hours until maintenance: 115.40

## Summary

Heavy smoke and haze across the region but otherwise very few clouds. The crew focused attention onto the lower priority Soaproot Saddle flight box, collecting 28 lines under red conditions. 2 additional lines were collected over KFAT airport as part of our nominal runway.

### Concerns

A new wildfire, the River Fire, broke out in the area of Mariposa and Madera counties north of Fresno late • yesterday afternoon. At the time of this report, the fire has burned 4000 acres and is only 5% contained. It is our expectation that air quality and thus data quality will be negatively impacted by the fire for the remainder of our time in D17.

#### **Comments**

- No eye safety shutoffs occurred during today's variable altitude lines. •
- Cameron Chapman departed Fresno for some well-earned time off. •

## **Daily Coverage**

Estimated Cloud Cover Key Green: Yellow: Red: 0-10% 11-50% >50%

#### D17|SOAP P1

Line #	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Lidar	$\checkmark$																			
Spectrometer	$\checkmark$																			
Camera	$\checkmark$																			
Cloud Cover																				

Line #	29	30	31	32	33	34	35	36
Lidar	$\checkmark$							
Spectrometer	$\checkmark$							
Camera	$\checkmark$							

Cloud Cover						
Total number of	linor	flow	n. 20	,		

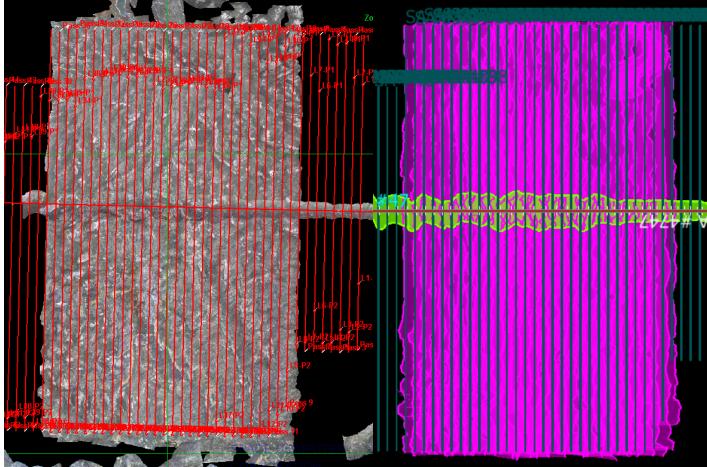
Total number of lines flown: 28

# D17|N17A

Line #	1	2
Lidar	$\checkmark$	$\checkmark$
Spectrometer	$\checkmark$	$\checkmark$
Camera	$\checkmark$	$\checkmark$
Cloud Cover		

Total number of lines flown: 2

# **Flight Screenshots**



Below: N17A NIS on the left, N17A Lidar on the right.



**Top Picture**: A heavy layer of smoke present over SOAP today. **Below**: The towershed of SOAP and the recent burn scar.



### **Cumulative Domain Coverage**

D17 | N17A (D17 Nominal Runway) 1

Flown: 100% (1/1) Green: 0% (0/1) Yellow: 0% (0/1) Red: 100% (1/1)

D17 | SOAP P1 (Soaproot Saddle Priority 1)

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													
	: 62%	• •	•				-												
	n: 0%	• • •																	
	v: 0%	• •																	
Red:	62% (2	29/47)																	
	<b>TC A U</b>																		

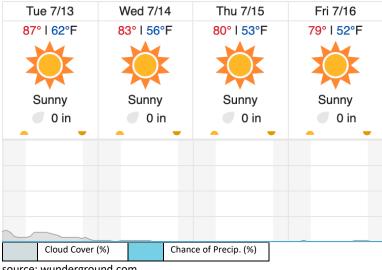
D17 | TEAK\_P1 (Teakettle Priority 1 )

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: 0% (0/40) Green: 0% (0/40) Yellow: 0% (0/40) Red: 0% (0/40)

### Weather Forecast

### Shaver Lake, CA



source: wunderground.com

## Flight Collection Plan for July 13 2021

Flyority 1 Collection Area: Soaproot Saddle (SOAP) – Variable Altitude Plan Flight Plan Name: D17\_SOAP\_R1\_P1\_P2\_P3\_v7\_PRM\_Var\_Alt.xml On-Station Time: 1620 – 2340 UTC / 0920 – 1640 L Flyority 2 Collection Teakettle (TEAK) - Priority 1 Flight Box - Variable Altitude Plan Flight Plan Name: D17\_TEAK\_R2\_P1\_P2\_P3\_v6\_PRM\_Var\_Alt.xml On-Station Time: 1620 - 2340 UTC / 0920 - 1640 L

Crew: Abe, Mitch