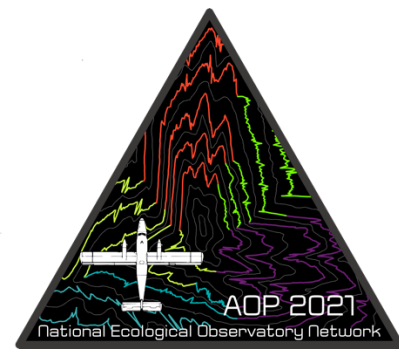




Payload 1 Daily Flight Report



Date: 2021-07-06

Flight Campaign ID: P1C2

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

Aircraft: N331AR

Domain: 17 (Pacific Southwest)

Sites Flown: Teakettle (TEAK) – Priority 1 Flight Box

Days left in Domain: 11

Report Author: Cameron Chapman

Lidar Operators: Cameron Chapman

Spectrometer Operators: Mitch Haynes

Pilots: Justin Eddington, Nick Koukoutsakis

Flight Hours: 01:12

Hours until maintenance: 119.62

GPS Instruments: None

Summary

The tower camera at TEAK looked promising this morning so the crew took to the sky. Upon arriving at TEAK, the crew analyzed the cloud coverage and it was determined that the mix between stratocumulus and haze created “yellow” sky conditions. After departing TEAK the crew flew by SOAP to determine if wildfires / smoke would still be an issue. Our assessment is that no wildfire was currently observed and the smoke near the site was visible but marginal.

Concerns

- None

Comments

- GPS 5 was deployed at the FBO this morning
- Pumping and cooling is complete and the vacuum pump has been removed.

Daily Coverage

Estimated Cloud Cover Key

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

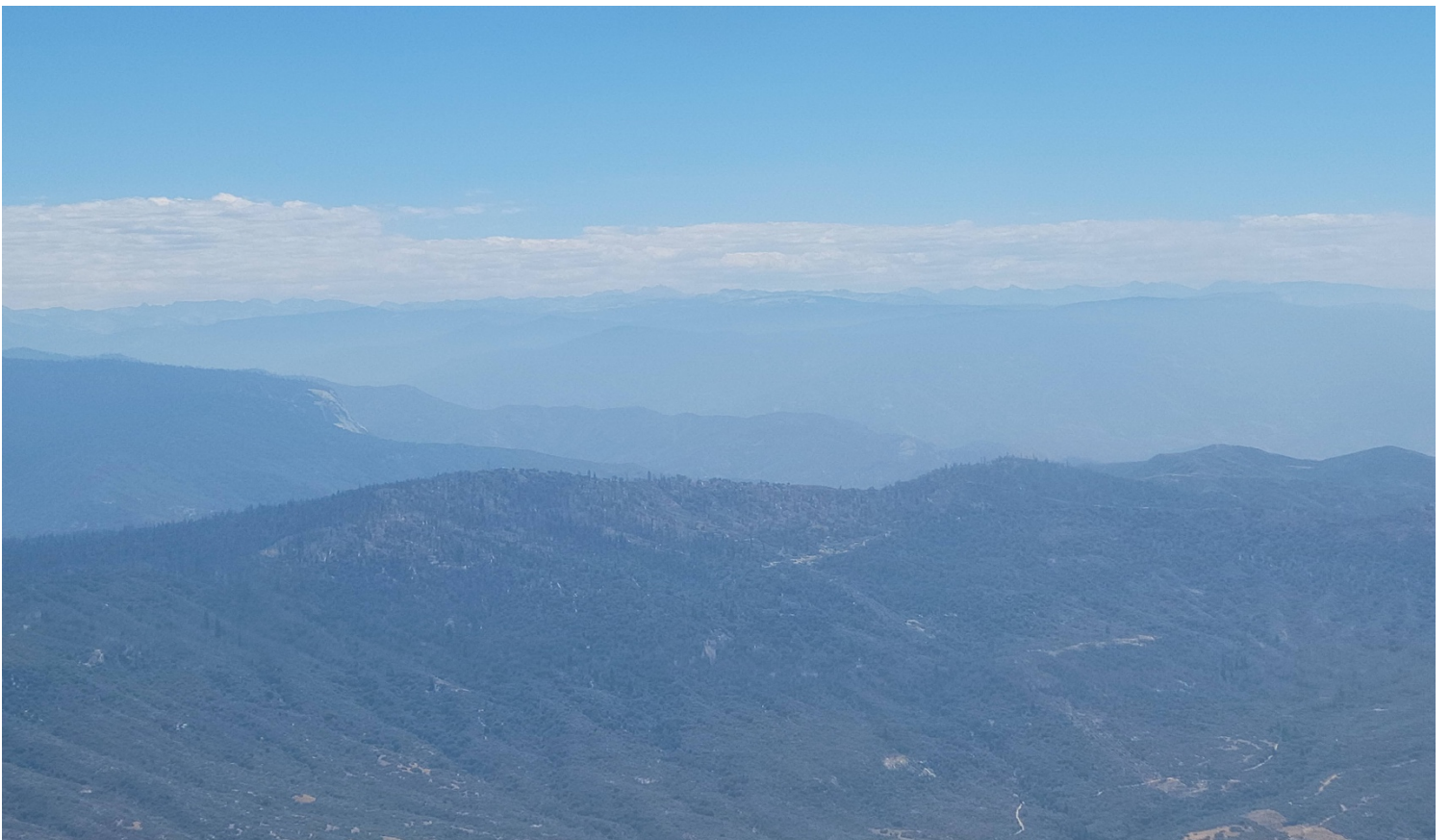
Flight Screenshots: None

Pictures:



TOP: Picture taken flying through the TEAK site this morning.

Bottom: Picture taken at SOAP. A more noticeable layer of haze / smoke can be observed



Cumulative Domain Coverage

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			

Flown: 0% (0/37)

Green: 0% (0/37)

Yellow: 0% (0/37)

Red: 0% (0/37)

D17|SOAP_P2 (Soaproot Saddle Priority 2)

38	39	40	41	42	43	44	45	46	47
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Flown: 0% (0/10)

Green: 0% (0/10)

Yellow: 0% (0/10)

Red: 0% (0/10)

D17|SOAP_P3 (Soaproot Saddle Priority 3)

48	49	50	51	52	53	54	55	56	57	58	59
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Flown: 0% (0/12)

Green: 0% (0/12)

Yellow: 0% (0/12)

Red: 0% (0/12)

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)

D17|TEAK_P2 (Teakettle Priority 2)

41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
61	62	63																	

Flown: 0% (0/23)

Green: 0% (0/23)

Yellow: 0% (0/23)

Red: 0% (0/23)

D17|TEAK_P3 (Teakettle Priority 3)

63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81
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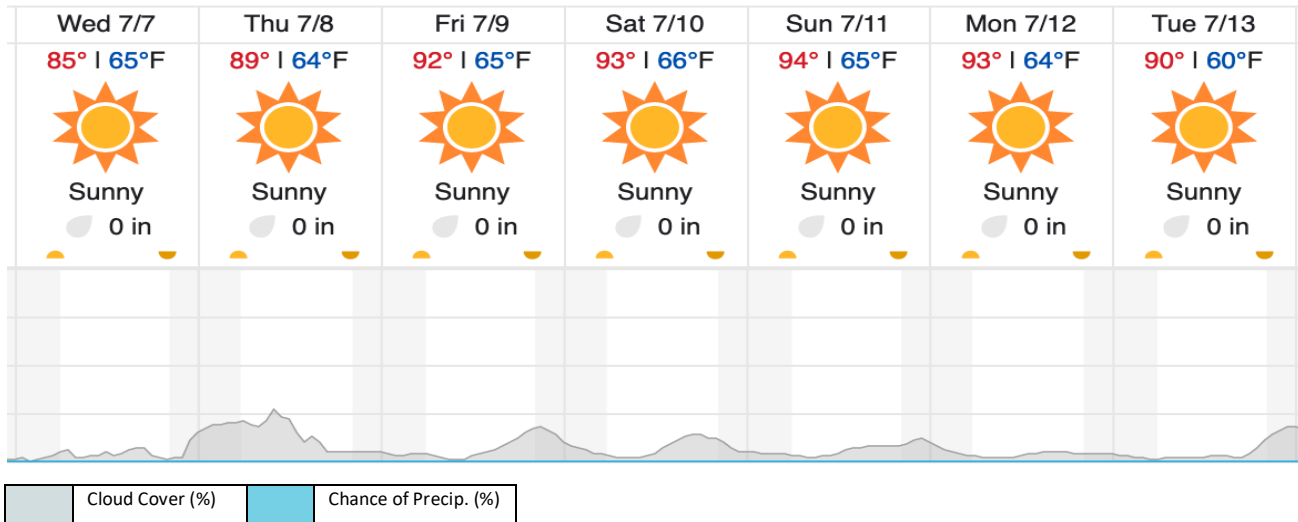
Flown: 0% (0/19)

Green: 0% (0/19)

Yellow: 0% (0/19)

Red: 0% (0/19)

Weather Forecast
Shaver Lake, CA



source: wunderground.com

Flight Collection Plan for July 07 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

Flyority 3

Collection Area: Soaproot Saddle (SOAP) – Priority 1 Flight Box – Fixed Altitude Plan

Flight Plan Name: D17_SOAP_R1_P1_P2_P3_v5_PRM

On-Station Time: 1620 – 2340 UTC / 0920 – 1640 L

Flyority 4

Collection Area: Soaproot Saddle (SOAP) – Priority 2 Flight Box – Fixed Altitude Plan

Flight Plan Name: D17_SOAP_R1_P1_P2_P3_V5_PRM

On-Station Time: 1620 – 2340 UTC / 0920 – 1640 L

Flyority 5

Collection Area: Soaproot Saddle (SOAP) – Priority 3 Flight Box – Fixed Altitude Plan

Flight Plan Name: D17_SOAP_R1_P1_P2_P3_v5.pln

On-Station Time: 1620 – 2340 UTC / 0920 – 1640 L

Flyority 6

Collection Area: Teakettle (TEAK) – Priority 1 Flight Box – Fixed Altitude Plan

Flight Plan Name: D17_TEAK_R2_P1_P2_P3_v4_PRM.xml

On-Station Time: 1620 – 2340 UTC / 0920 – 1640 L

Flyority 7

Collection Area: Teakettle (TEAK) – Priority 2 Flight Box – Fixed Altitude Plan

Flight Plan Name: D17_TEAK_R2_P1_P2_P3_v4_PRM.xml

On-Station Time: 1620 – 2340 UTC / 0920 – 1640 L

Flyority 8

Collection Area: Teakettle (TEAK) – Priority 3 Flight Box – Fixed Altitude Plan

Flight Plan Name: D17_TEAK_R2_P1_P2_P3_v4.pln

On-Station Time: 1620 – 2340 UTC / 0920 – 1640 L

Flyority 9

Collection Area: To test LiDAR range accuracies and noise levels at 400 kHz PRF.

Flight Plan Name: D17_N17A_Nominal_Runway_Test_v2_PRM.xml

On-Station Time: N/A

Crew: **Cam, Mitch**