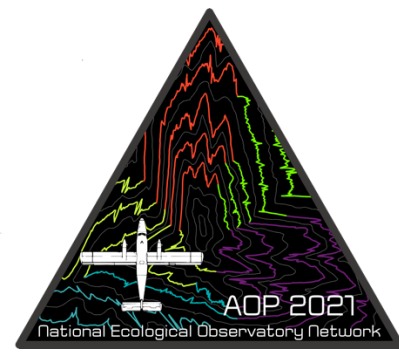




Payload 1 Daily Flight Report



Date: 2021-07-03

Flight Campaign ID: P1C2

Airport, FBO ID, City: Grand Junction Regional Airport (KGJT) - Grand Junction, CO, Cedar City Regional Airport (KCDC) - Cedar City, UT, Fresno CA (KFAT)

Aircraft: N331AR

Domain: 17 (Pacific Southwest)

Sites Flown: Transit ()

Days left in Domain: 14

Report Author: Cameron Chapman

Lidar Operators: Cameron Chapman

Spectrometer Operators: None

Pilots: Nick Koukoutsakis, Paul Nunemann

Flight Hours: 01:50:00, 02:21:00

Hours until maintenance: 35.02

Summary

Aircraft maintenance finished last night and the crew completed the transit to D17 Fresno this afternoon.

Modifications need to be made to the GPU extension adapter before the system can be restarted. Matt D shipped an existing cable from the PIF but won't arrive until Tuesday. In the meantime, I will work with Abe M remotely to modify an existing cable tomorrow morning and start the payload pumping and cooling process.

Concerns

- Smoke in the region, from nearby wildfires, was observed on the transit into D17. We will continue to monitor.

Comments

- Paul Nunemann departed tonight and was replaced by Pilot Justin Eddington. Thanks for the hard work Paul!! Welcome back Justin.
- Mitch will arrive in D17 tomorrow.

Daily Coverage

Estimated Cloud Cover Key

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

Flight Screenshots: None

Pictures



Smoke observed as the crew descended into Fresno

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)

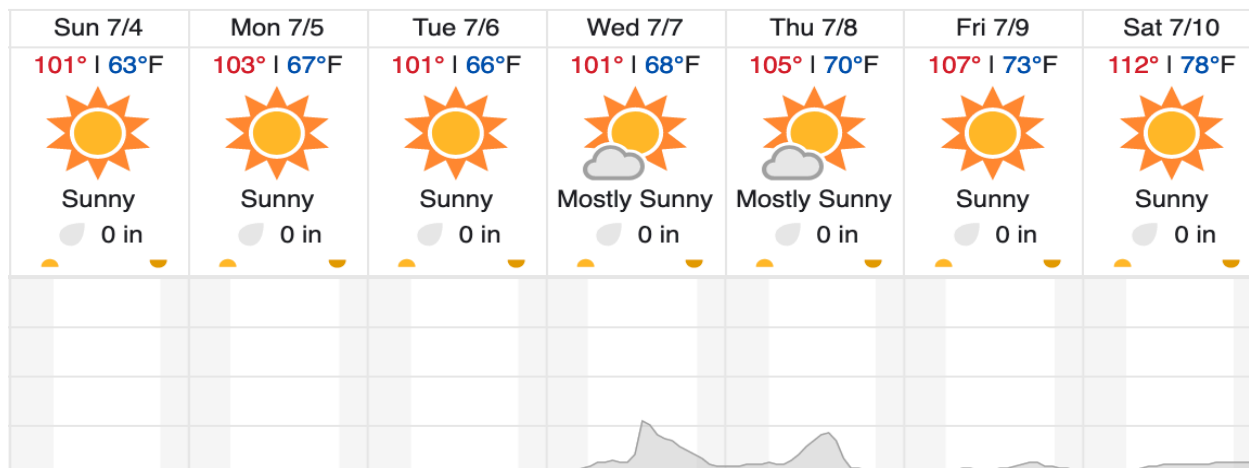
Green: 0% (0/19)

Yellow: 0% (0/19)

Red: 0% (0/19)

Weather Forecast

Fresno, CA



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

Flight Collection Plan for July 04 - 05 2021

Pumping and cooling

Flight Collection Plan for July 06 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