



Payload 1 Daily Flight Report



Date: 2023-04-01

Flight Campaign ID: P1C1

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

Aircraft: N331AR

Domain: 17 (Pacific Southwest)

Sites Flown: SJER (San Joaquin Ecological Range)

Days left in Domain: 3

Report Author: Mitch

Lidar Operators: Mitch

Spectrometer Operators: Abe

Pilots: Justin, Will

Flight Hours: 03:15

Hours until maintenance: 106.15

GPS Instruments: 06 - FBO_KFAT, U-P725

Summary

To kick off the science collects of the 2023 AOP Flight Season, the San Joaquin flight box was flown in its entirety under mostly green conditions. The crew will look to “better up” the 6 remaining non-green lines over the final three days.

Concerns

None

Comments

GPS 06 was set up at the FBO this morning before the flight.

Daily Coverage

Estimated Cloud Cover Key

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

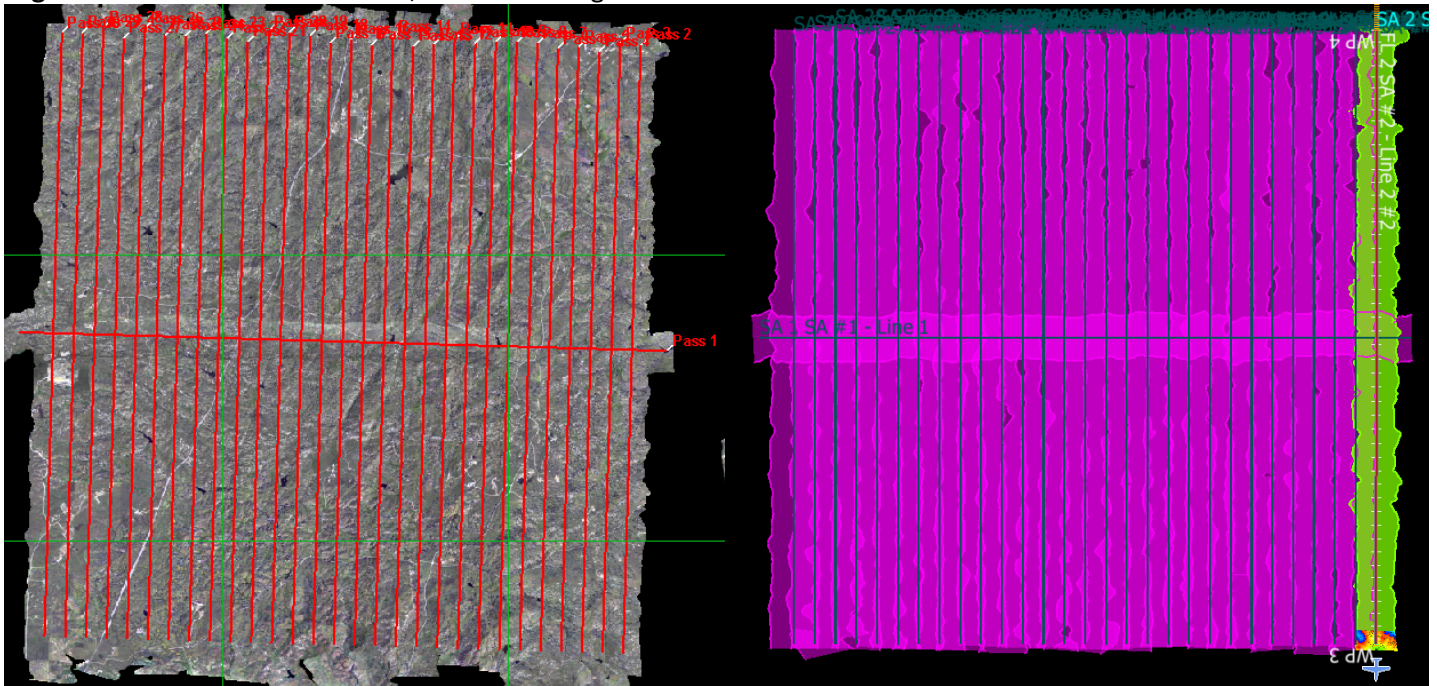
D17|SJER

Line #	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
Lidar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cloud Cover																				

Line #	22	23	24	25	26	27	28	29	30
Lidar	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cloud Cover									

Total number of lines flown: 29

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



Pictures: SJER looking very green after a wet spring in the Central Valley.



Cumulative Domain Coverage

D17 | SJER (San Joaquin Ecological Range)

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										

Flown: 100% (30/30)

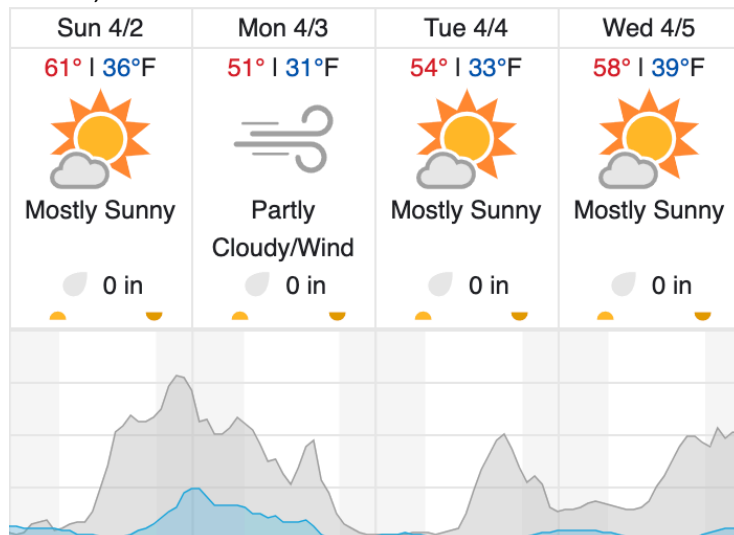
Green: 80% (24/30)

Yellow: 20% (6/30)

Red: 0% (0/30)

Weather Forecast

O'Neils, CA



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

Flight Collection Plan for 2 April 2023

Flyority 1

Collection Area: NI San Joaquin Experimental Range

Flight Plan Name: D17_SJER_C1_P1_v3_PRM

On-station Time: 1720 UTC / 1020 L

Re-fly lines 2-7 if Green

Flight Crew

Ade (Lidar), Mitch (NIS)