

Date: 2024-04-02
Flight Campaign ID: P3C1
Airport, FBO ID, City: Fresno Yosemite International Airport (KFAT) - Fresno, CA
Aircraft: N821AR
Domain: 17 (Pacific Southwest)
Sites Flown: SJER (San Joaquin Ecological Range)
Days left in Domain: 2
Report Author: Elissa
Lidar Operators: Elissa
Spectrometer Operators: Mitch
Pilots: Justin, Will

Flight Hours: 03:03
Hours until maintenance: 110.27
GPS Instruments: 02 - KFAT, U-P725

## Summary

Skies remained clear all morning, allowing for complete collection of the SJER site. Light haze burned off relatively early into the flight.

## Concerns

None.

## Comments

Provided that data pass QA, we are evaluating departing a day early to avoid inclement weather. The system will most likely have to be shut down in order to allow for IFR flight.

## Daily Coverage

Estimated Cloud Cover Key

| Green: | Yellow: | Red: |
| :---: | :---: | :---: |
| $0-10 \%$ | $11-50 \%$ | $>50 \%$ |

Solar Angle Less Than 40 degrees
Line \#

D17|SJER

| Line \# | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Lidar | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ |
| Spectrometer | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ |
| Camera | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ |
| Cloud Cover |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |


| Line \# | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Lidar | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ |
| Spectrometer | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ |
| Camera | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ |
| Cloud Cover |  |  |  |  |  |  |  |  |  |

Total number of lines flown: 29

Flight Screenshots


LiDAR


Pictures


Blue skies as far as the eye can see from SJER.

## Cumulative Domain Coverage

D17|SJER (San Joaquin Ecological Range)

| 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\% (29/29)
Green: 100\% (29/29)
Yellow: $0 \%(0 / 29)$
Red: 0\% (0/29)

## Weather Forecast


source: wunderground.com

## Flight Collection Plan for 3 April 2024

QA data and evaluate transit plans.

Crew: Mitch (LiDAR), Elissa (NIS)

