

# Payload 3 Daily Flight Report



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 **Flight Hours**: 03:03

**Spectrometer Operators**: Mitch **Hours until maintenance**: 110.27 **Pilots**: Justin, Will **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

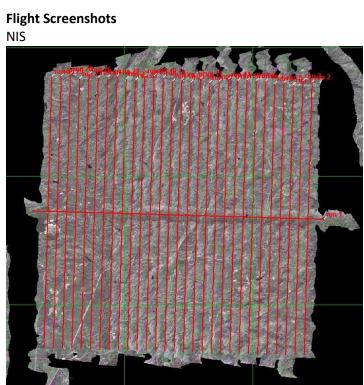
Line#

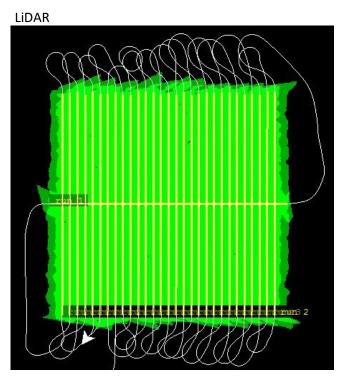
## D17|SJER

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

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

Total number of lines flown: 29





# **Pictures**



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

# **Cumulative Domain Coverage**

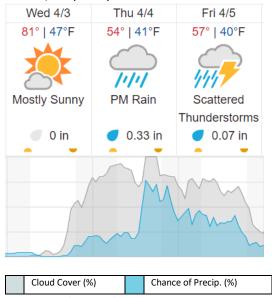
D17 | SJER (San Joaquin Ecological Range)

2									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**

# Fresno, CA (KFAT)



source: wunderground.com

# Flight Collection Plan for 3 April 2024

QA data and evaluate transit plans.

Crew: Mitch (LiDAR), Elissa (NIS)