



Payload 3 Daily Flight Report



**Date:** 2023-05-17

**Flight Campaign ID:** P3C1

**Airport, FBO ID, City:** Wichita Falls Municipal Airport (KSPS) - Wichita Falls, TX

**Aircraft:** N934MU

**Domain:** 11 (Southern Plains)

**Sites Flown:** CLBJ (LBJ National Grassland)

**Days left in Domain:** 3

**Report Author:** John

**Lidar Operators:** John

**Flight Hours:** 03:35, 02:11

**Spectrometer Operators:** Nick

**Hours until maintenance:** 71.83

**Pilots:** Paul, Shane

**GPS Instruments:** 02 - KSPS, TXDOT-TXDC

**Summary:** We conducted two flights today to completely cover CLBJ under Yellow and Green conditions.

**Concerns:** None.

**Comments:** Tomorrow we will conduct a Domain tour after our flight(s).

**Daily Coverage**

Estimated Cloud Cover Key

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

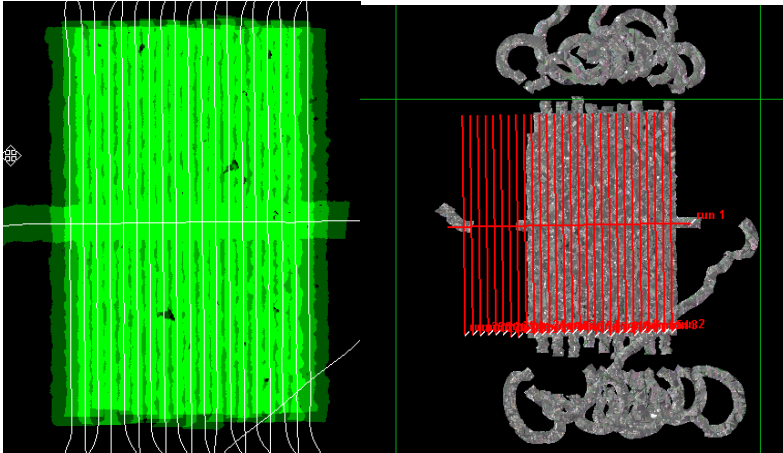
D11|CLBJ

| Line #       | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
|--------------|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|
| Lidar        | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  |
| Spectrometer | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  |
| Camera       | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  |
| Cloud Cover  |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |

| Line #       | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 |
|--------------|----|----|----|----|----|----|----|----|----|
| Lidar        | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  |
| Spectrometer | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  |
| Camera       | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  |
| Cloud Cover  |    |    |    |    |    |    |    |    |    |

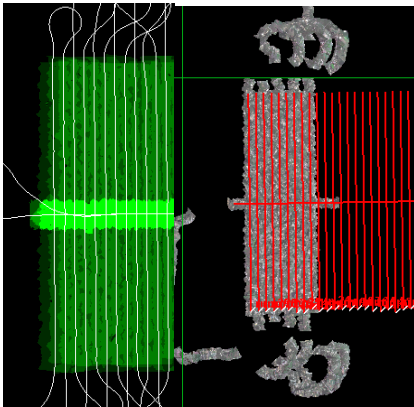
Total number of lines flown: 29

**Flight Screenshots:**



2023051714 lidar

2023051714 NIS



2023051719 lidar 2023051719 NIS

**Cumulative Domain Coverage**

**D11 | BLUE (Blue River aquatic site)**

|   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|

Flown: 0% (0/15)  
 Green: 0% (0/15)  
 Yellow: 0% (0/15)  
 Red: 0% (0/15)

**D11 | CLBJ (LBJ National Grassland)**

|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 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 |    |    |    |    |    |    |    |    |    |    |    |

Flown: 100% (29/29)  
 Green: 41% (12/29)  
 Yellow: 59% (17/29)  
 Red: 0% (0/29)

D11 | OAES (Klemme Range Research Station )

|    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |  |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--|
| 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 |    |    |    |    |  |

Flown: 100% (36/36)  
 Green: 100% (36/36)  
 Yellow: 0% (0/36)  
 Red: 0% (0/36)

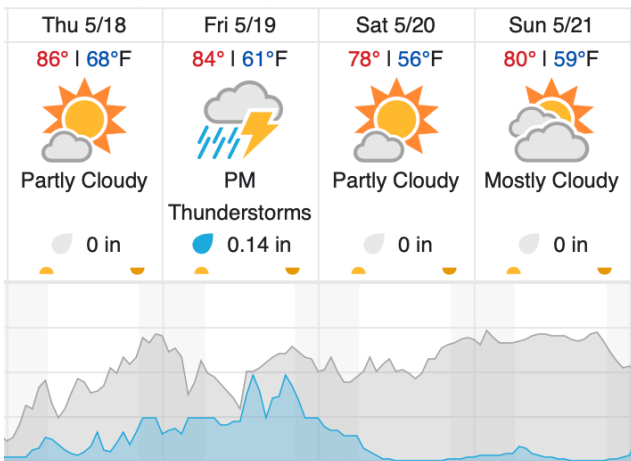
D11 | PRIN (Pringle Creek )

|    |    |    |    |    |    |   |   |   |    |    |    |    |    |    |    |    |    |    |    |  |
|----|----|----|----|----|----|---|---|---|----|----|----|----|----|----|----|----|----|----|----|--|
| 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 |   |   |   |    |    |    |    |    |    |    |    |    |    |    |  |

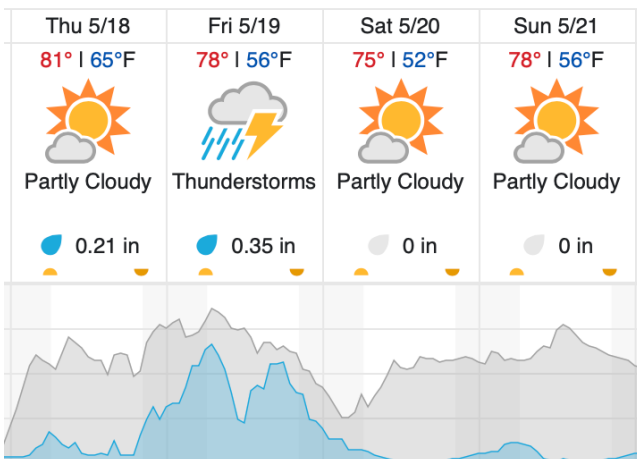
Flown: 0% (0/26)  
 Green: 0% (0/26)  
 Yellow: 0% (0/26)  
 Red: 0% (0/26)

**Weather Forecast:**

Alvord, TX (CLBJ, PRIN)



Stonewall, OK (BLUE)



|                 |                       |
|-----------------|-----------------------|
| Cloud Cover (%) | Chance of Precip. (%) |
|-----------------|-----------------------|

source: wunderground.com

## **Flight Collection Plan for 18 May 2023**

### **Flyority 1**

Collection Area: LBJ Grasslands (CLBJ), if Green Conditions

Flight Plan Name: D11\_CLBJ\_C1\_P1\_v3\_Q780

On-Station Time: 15:00 UTC/ 10:00 L

### **Flyority 2**

Collection Area: Pringle Creek (PRIN)

Flight Plan Name: D11\_PRIN\_A1\_P1\_v4\_Q780

On-Station Time: 15:00 UTC/ 10:00 L

### **Flyority 3**

Collection Area: Blue River (BLUE)

Flight Plan Name: D11\_BLUE\_A2\_P1\_v3\_Q780

On-Station Time: 15:00 UTC/ 10:00 L

Crew: Nick (lidar), John (NIS)