



## Payload 2 Daily Flight Report



**Date:** 2025-05-31

**Flight Campaign ID:** P2C1

**Airport, FBO ID, City:** Wichita Falls Municipal Airport (KSPS) - Wichita Falls, TX; Denton Enterprise Airport (KDTO) - Denton, TX

**Aircraft:** N615AR

**Domain:** 11 (Southern Plains)

**Sites Flown:** CLBJ (LBJ National Grassland), PRIN (Pringle Creek )

**Days left in Domain:** 4

**Report Author:** Cameron

**Lidar Operators:** Cameron

**Flight Hours:** 04:00:00, 02:50:00

**Spectrometer Operators:** John

**Hours until maintenance:** 87.33

**Pilots:** Vince, Tim

**GPS Instruments:** TDOT-TXWF, TXDOT-TXDC

### Summary

The crew completed another big day of data collection finishing both LBJ National Grassland and Pringle Creek in mixed sky conditions.

### Concerns

- The Axe ground power switch doesn't appear to do anything. The power is accepted by the Axe as soon as the GPU is energized.

### Comments

- Pilot Jacob arrives tonight and replaces Tim. Thanks for the hard work, Tim!

### Daily Coverage

Estimated Cloud Cover Key

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

Solar Angle Less Than 40 degrees: (\*)

D11|CLBJ

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
Lidar	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓	✓
Cloud Cover								

Total number of lines flown: 28

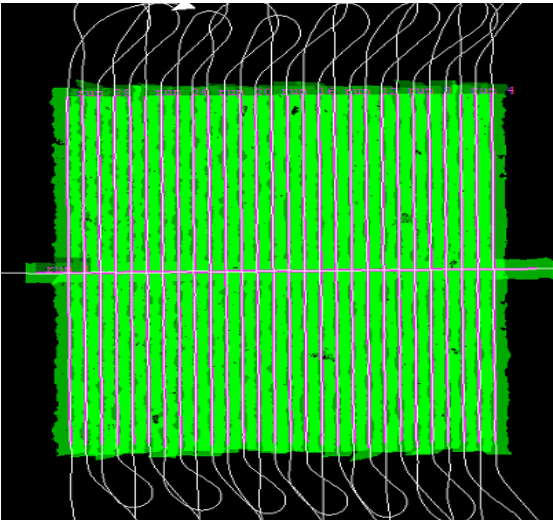
Line #	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
Lidar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cloud Cover																				

Line #	22	23	24	25	26
Lidar	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓
Cloud Cover					

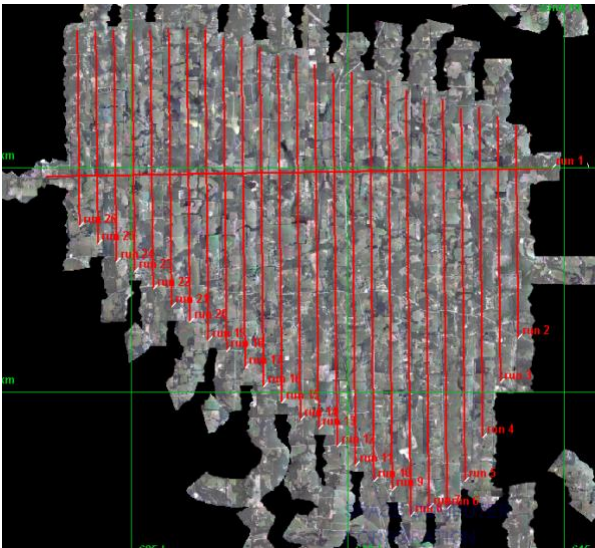
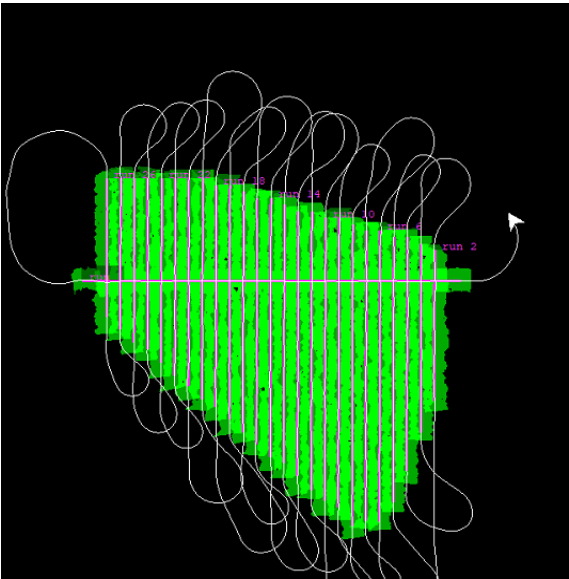
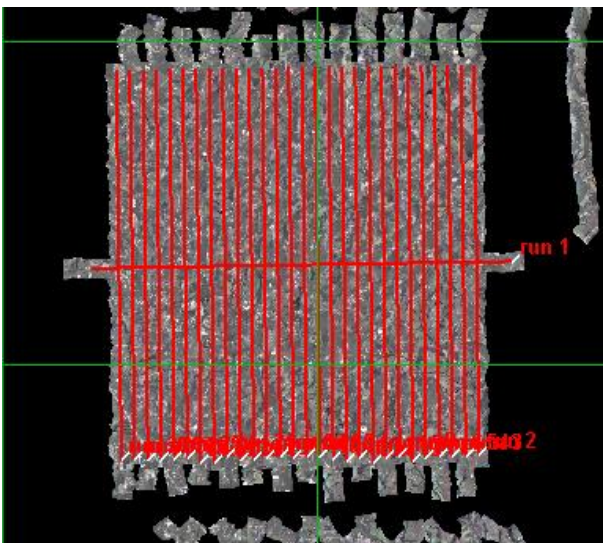
Total number of lines flown: 25

Flight Screenshots

Lidar Swath



NIS GeoPaint





## Pictures



Top: Flying over CLBJ this morning.

Bottom: The crew spotted the CLBJ NEON tower peering above the canopy.





## Cumulative Domain Coverage

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

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
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Flown: 0% (0/15)

Green: 0% (0/15)

Yellow: 0% (0/15)

Red: 0% (0/15)

\* Flown within 35deg solar angle

### 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: 52% (15/29)

Yellow: 38% (11/29)

Red: 10% (3/29)

\* Flown within 35deg solar angle

### 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)

\* Flown within 35deg solar angle

### 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: 100% (26/26)

Green: 0% (0/26)

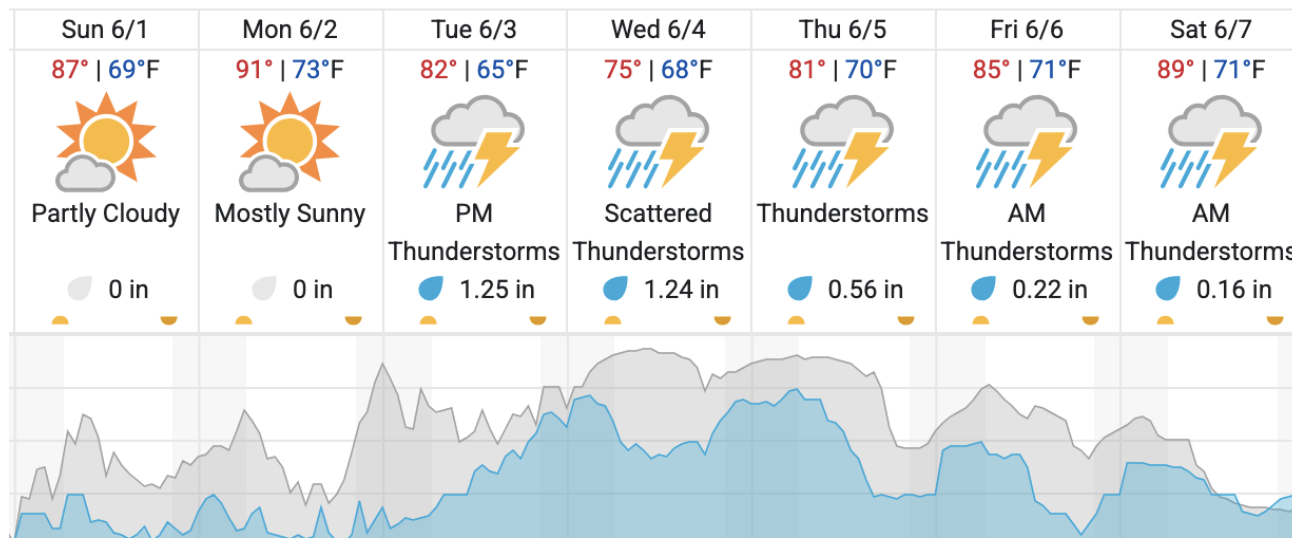
Yellow: 100% (26/26)

Red: 0% (0/26)

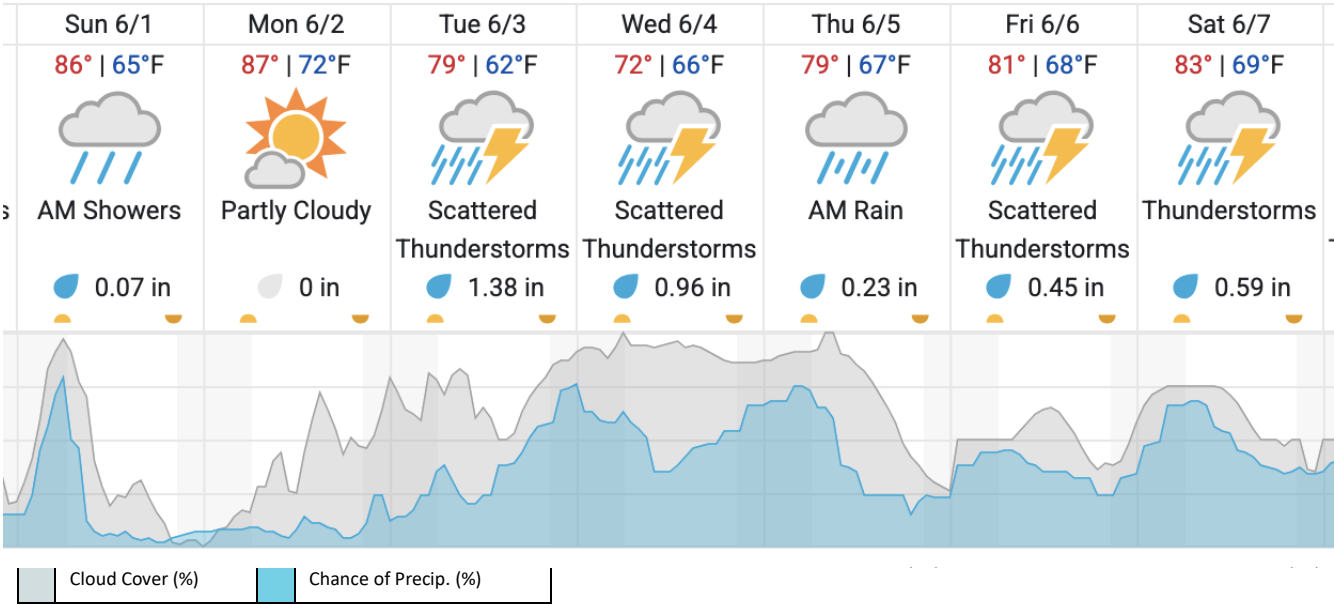
\* Flown within 35deg solar angle

## Weather Forecast

### Alvord, TX (CLBJ, PRIN)



Ada, OK (BLUE)



source: wunderground.com

Flight Collection Plan for June 01, 2025

Flyority 1  
Collection Area: LBJ Grasslands (CLBJ) *Lines 1-14 if green*  
Flight Plan Name: D11\_CLBJ\_C1\_P1\_v6\_VQ780  
On-Station Time: (40 degrees): 1450 UTC / 0950 L

Flyority 2  
Collection Area: Pringle Creek (PRIN)  
Flight Plan Name: D11\_PRIN\_A1\_P1\_v7\_VQ780  
On-Station Time: (40 degrees): 1450 UTC / 0950 L

Flyority 3  
Collection Area: Blue River (BLUE)  
Flight Plan Name: D11\_BLUE\_A2\_P1\_v6\_VQ780  
On-Station Time: (40 degrees): 1450 UTC / 0950 L

Crew: John (Lidar), Cam (NIS)