



Payload 1 Daily Flight Report



**Date:** 2024-05-27

**Flight Campaign ID:** P1C1

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

**Aircraft:** N615AR

**Domain:** 11 (Southern Plains)

**Sites Flown:** OAES (Klemme Range Research Station ), CLBJ (LBJ National Grassland), PRIN (Pringle Creek )

**Days left in Domain:** 0

**Report Author:** Abe

**Lidar Operators:** Abe

**Flight Hours:** 03:20, 02:46

**Spectrometer Operators:** John

**Hours until maintenance:** 79.58

**Pilots:** Jeff, Manning

**GPS Instruments:** 05 - FBO-KSPS, C-OKCL, C-TXDC

**Summary**

With “green” sky conditions for a good portion of the day throughout the region, the crew had a very busy day. The otter arrived at the OAES site and began collecting moments after the start of solar angle this morning. 16 Lines and a crossstrip were collected. That completed the OAES site in 100% “Green” conditions. The crew then flew back to Wichita Falls to refuel and head down to CLBJ to “green” up some lines. 9 lines were able to be “greened” up before the clouds started moving in changing the condition to “yellow”. With no more chance to make CLBJ any better the crew shifted focus to collecting the remaining lines at PRIN which was a short 5 min flight away. The 8 remaining lines at PRIN were collected in “yellow” conditions.

**Concerns**

NIS Framegrabber/HIS Time stamp errors continue to occur. These errors only occurred today on the transit to the first site and were resolved with the standard system reboots. No errors occurred on the second flight.

**Comments**

-The crew was scheduled to depart D11 this coming Friday, but with the forecast of heavy weather for the next 7 days and the need for extra time troubleshooting the system, the decision was made to depart tomorrow morning and head back to Boulder.

-The OAES flight is currently extracting (Without the waveform, no space on the D: drive), and the CLBJ and PRIN flight will be extracted when the crew arrives in Boulder tomorrow afternoon.

**Daily Coverage**

Estimated Cloud Cover Key

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

D11|OAES

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

Total number of lines flown: 16

D11|CLBJ

Line #	1	12	13	14	15	16	17	18	19	20	29
Lidar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cloud Cover											

Total number of lines flown: 11

D11|PRIN

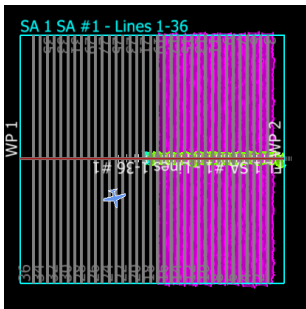
Line #	1	19	20	21	22	23	24	25	26
Lidar	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer		✓	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cloud Cover									

Total number of lines flown: 9

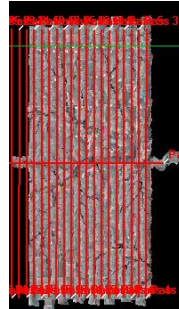
Flight Screenshots

OAES

Lidar

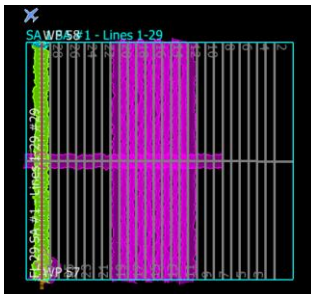


NIS

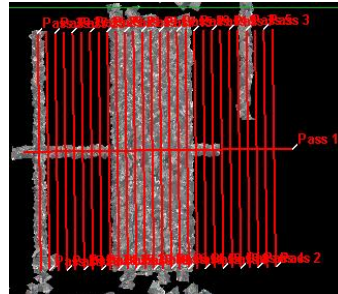


CLBJ

Lidar

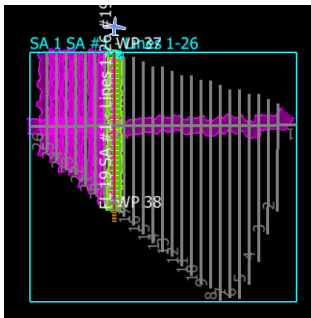


NIS

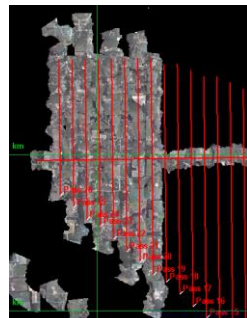


PRIN

Lidar



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
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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: 69% (20/29)  
 Yellow: 31% (9/29)  
 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)

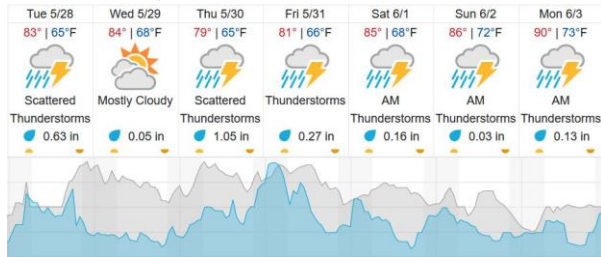
#### D11 | PRIN (Pringle Creek )

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														

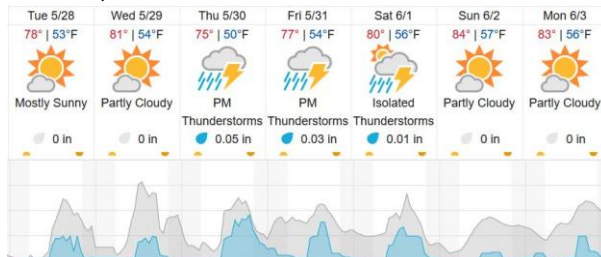
Flown: 100% (26/26)  
 Green: 65% (17/26)  
 Yellow: 35% (9/26)  
 Red: 0% (0/26)

### Weather Forecast

#### Wichita Falls, TX



#### Boulder, CO



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

### Flight Collection Plan for 28 May 2024

Transit to Boulder, CO  
 Crew: John