



Payload 1 Daily Flight Report



**Date:** 2024-05-14  
**Flight Campaign ID:** P1C1  
**Airport, FBO ID, City:** Wichita Falls Municipal Airport (KSPS) - Wichita Falls, TX  
**Aircraft:** N615AR

**Domain:** 11 (Southern Plains)  
**Sites Flown:** CLBJ (LBJ National Grassland)  
**Days left in Domain:** 16

**Report Author:** John  
**Lidar Operators:** John                      **Flight Hours:** 01:25  
**Spectrometer Operators:** Abe           **Hours until maintenance:** 103.05  
**Pilots:** Vince, Jeff                         **GPS Instruments:** 05 - FBO-KSPS, C-TXDC

**Summary**

Clear skies to begin our flight, then moisture began to show up...but our limited factor today was the loss of hydraulic pressure. We returned to KSPS after 5 lines; Twin Otter to replace the hydraulic pump this afternoon.

**Concerns**

Monitoring the NIS and lidar performance; no known issues yet. Systems worked fine.  
 We are replacing the GPS battery, both batteries are older and are not holding a charge for very long.

**Comments**

Shipping today's mission flight RAID as soon as it is extracted so the AOP Science team can look over the data. The NIS worked without fail today, but it was a short mission.

Updated the lever arms and used 256/32/256/237 for the digitizer settings.

**Daily Coverage**

Estimated Cloud Cover Key

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

Solar Angle Less Than 40 degrees

Line #
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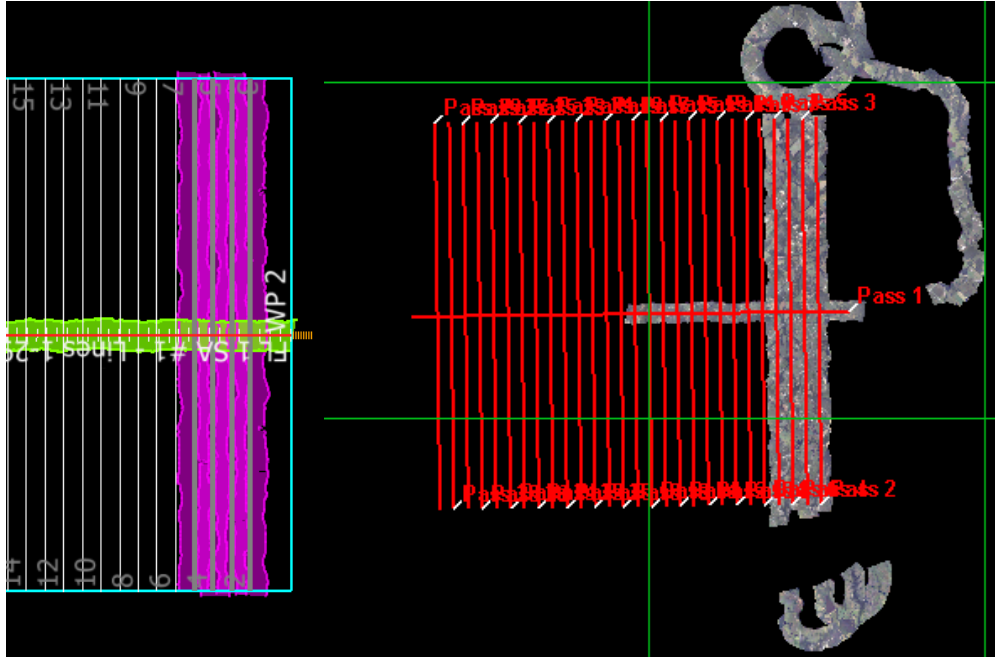
D11|CLBJ

Line #	1	2	3	4	5
Lidar	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓

Camera	✓	✓	✓	✓	✓
Cloud Cover	Yellow	Green	Green	Green	Green

Total number of lines flown: 5

**Flight Screenshots**



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: 17% (5/29)  
 Green: 14% (4/29)  
 Yellow: 3% (1/29)  
 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: 0% (0/36)  
 Green: 0% (0/36)  
 Yellow: 0% (0/36)  
 Red: 0% (0/36)

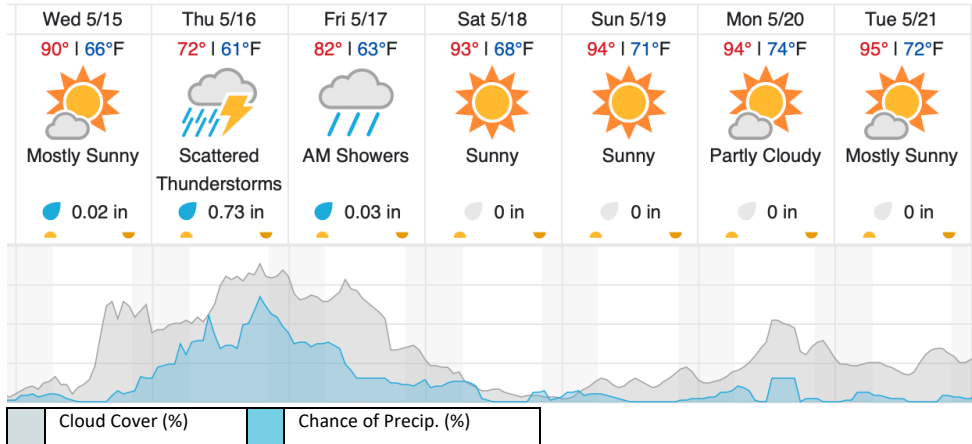
D11 | PRIN (Pringle Creek )

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**

Wichita Falls, Texas



source: wunderground.com

**Flight Collection Plan for 15 May 2024**

**Flyority 1**

Collection Area: LBJ Grasslands (CLBJ)  
 Flight Plan Name: D11\_CLBJ\_C1\_P1\_v4\_PRM.xml  
 On-Station Time: (40 degrees): 1500-2200Z

**Flyority 2**

Collection Area: Klemme Range Research Station (OAES)  
 Flight Plan Name: D11\_OAES\_R1\_P1\_v4\_PRM.xml  
 On-Station Time: (35 degrees): 1440-2230Z

**Flyority 3**

Collection Area: Blue River (BLUE)  
 Flight Plan Name: D11\_BLUE\_A2\_P1\_V4\_PRM.xml  
 On-Station Time: (40 degrees): 1500-2200Z

**Flyority 4**

Collection Area: Pringle Creek (PRIN)  
 Flight Plan Name: D11\_PRIN\_A1\_P1\_v5\_PRM.xml  
 On-Station Time: (40 degrees): 1450-21500Z

Flight Crew: Abe (Lidar), John (NIS)