

### Payload 1 Daily Flight Report



Date: 2024-05-18

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: 12

Report Author: John

**Lidar Operators**: John **Flight Hours**: 04:12

Spectrometer Operators: Abe Hours until maintenance: 98.85

**Pilots**: Jeff, Vince **GPS Instruments**: 05 - FBO-KSPS, C-TXDC

#### **Summary**

Today we flew the reduced lidar power settings and covered the entire CLBJ box. We did have some frame grabber errors on the NIS, but restarted the system and it appeared to work fine.

#### Concerns

After landing, when on the FBO's ground power, the main power cable came out of the tug, and since the lidar was not wired through the UPS we lost power during the 5-minute hold. We manually copied over the POS files, but did not have a smooth shutdown.

#### **Comments**

We are planning on flying one of the other sites tomorrow (weather permitting), unless we hear the NIS was not able to record data correctly.

### **Daily Coverage**

**Estimated Cloud Cover Kev** 

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

# Solar Angle Less Than 40 degrees

Line#

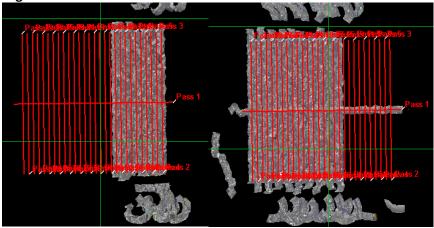
### D11 | CLBJ

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>	<b>\</b>	<b>✓</b>	<b>\</b>	<b>\</b>	<b>✓</b>	<b>^</b>	<b>✓</b>	<b>\</b>	<b>\</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>
Spectrometer	✓	<b>√</b>	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	<b>\</b>	✓	<b>✓</b>	✓	✓	✓	✓	✓
Camera	<b>√</b>	<b>✓</b>	<b>✓</b>	<b>√</b>	<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
Lidar	<b>✓</b>	<b>✓</b>	<b>✓</b>	<b>\</b>	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓	✓	✓
Camera	<b>√</b>	<b>√</b>	✓	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>
Cloud Cover								

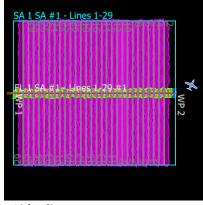
Total number of lines flown: 28

**Flight Screenshots** 



NIS lines before the restart occurred

NIS lines after the restart



Lidar lines

# **Cumulative Domain Coverage**

# D11|BLUE (Blue River aquatic site)

1	2	თ	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
2	21	22	23	24	25	26	27	28	29											

Flown: 100% (29/29) Green: 100% (29/29) Yellow: 0% (0/29) Red: 0% (0/29)

# D11 OAES (Klemme Range Research Station )

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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		<u> </u>		

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

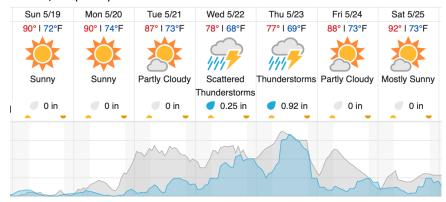
### D11 | PRIN (Pringle Creek )

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														

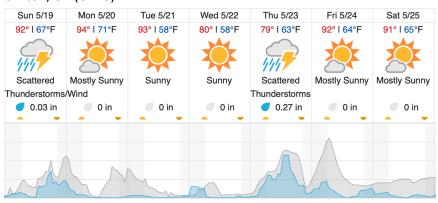
Flown: 0% (0/26) Green: 0% (0/26) Yellow: 0% (0/26) Red: 0% (0/26)

#### **Weather Forecast**

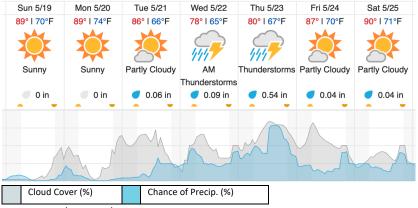
# Alvord, TX (PRIN)



# Clinton, OK (OAES)



### Ada, OK (BLUE)



source: wunderground.com

# Flight Collection Plan for 19 May 2024

### Flyority 1

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 2

Collection Area: Blue River (BLUE)

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

# Flyority 3

Collection Area: Pringle Creek (PRIN)

Flight Plan Name: D11\_PRIN\_A1\_P1\_v5\_PRM.xml

On-Station Time: (40 degrees): 1450-21500Z

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