



April 23, 2018 Payload 3 Daily Flight Report



**Date:** 2018-04-23

**Flight Campaign ID:** 2018\_P3C1

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

**Domain:** 11

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

**Days left in Domain:** 2

**Report Author:** Mitch Haynes

**Flight Crew:** Mitch Haynes, Ivana Vu

**Flight Hours:** 01:41 + 03:18

**Ground/GPS:** Michael Wussow

**Hours until maintenance:** 67.27

**Pilots:** Mike Francis, Paul Muth

**Additional Personnel:** None

**GPS Instruments:** 01 - FBO\_KBDU, 03 - CLBJ/PRIN

**Summary**

A morning flight was attempted but only 3 lines were collected before building cumulus clouds forced the crew to abort. After waiting several hours for convective clouds to rise above flight altitude, the crew was able to return to CLBJ and collect an additional 18 lines underneath the clouds before the sun angle expired.

**Concerns**

- Every single photo from both flights appeared corrupted today.

**Comments**

- Collected CLBJ lines 2-4 under yellow conditions this morning
- Collected CLBJ lines 5-22 under red conditions this afternoon

**Daily Coverage**

D11 CLBJ	Line	SpecG	SpecY	SpecR	NIS	Lidar	Camera	Cumulative
	1				✓	✓	×	NL
	2				✓	✓	×	NL
	3				✓	✓	×	NL
	4				✓	✓	×	NL
	5				✓	✓	×	NL
	6				✓	✓	×	NL
	7				✓	✓	×	NL
	8				✓	✓	×	NL
	9				✓	✓	×	NL
	10				✓	✓	×	NL
	11				✓	✓	×	NL
	12				✓	✓	×	NL
	13				✓	✓	×	NL
	14				✓	✓	✓	NLC
	15				✓	✓	×	NL
	16				✓	✓	×	NL

	17				✓	✓	×	NL
	18				×	✓	×	LC
	19				✓	✓	×	NLC
	20				✓	✓	×	NLC
	21				✓	✓	×	NLC
	22				✓	✓	×	NL
Flown:	19							

**Cumulative Domain Coverage**

**CLBJ**

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: 72% (21/29)  
 Green: 0% (0/29)  
 Yellow: 14% (4/29)  
 Red: 62% (18/29)

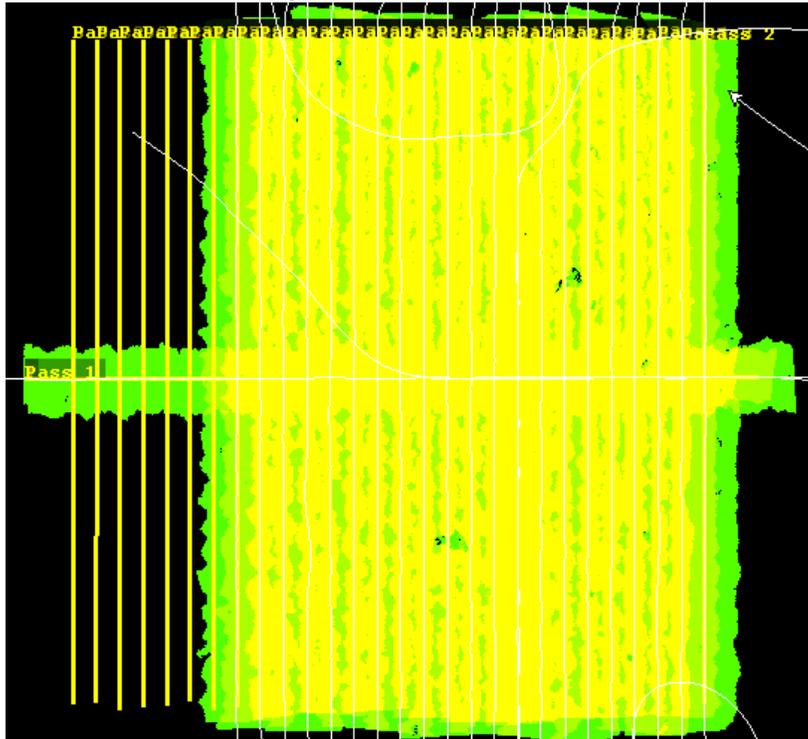
**OAES**

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				

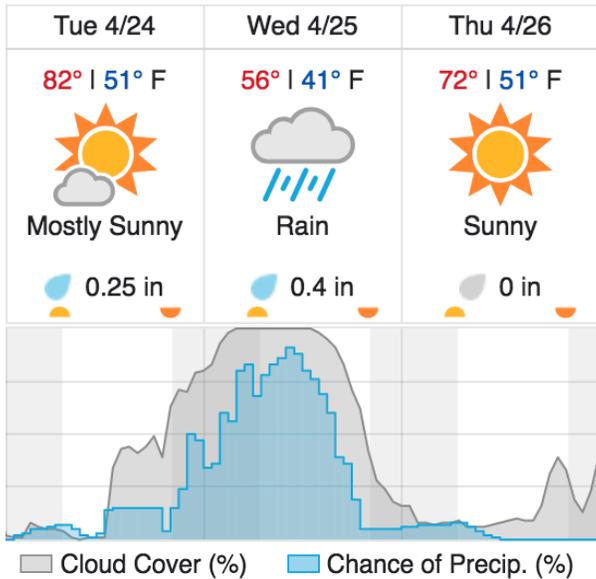
Flown: 100% (36/36)  
 Green: 78% (28/36)  
 Yellow: 0% (0/36)  
 Red: 25% (9/36)

**Flight Screenshots**

Cumulative lidar coverage



**Weather Forecast**



**Flight Collection Plan for 24 April 2018**

**Flight Priority (Flyority) 1:**

Collection Area: Lyndon B. Johnson National Grasslands (CLBJ)

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

On Station: 1010 L / 1510 UTC

**Flyority 2:**

Collection Area: Klemme Range Research Station (OAES)

Flight Plan Name: D11\_OAES\_R1\_P1\_v3\_Q780

Lines: If Green, re-fly lines 29-36

On Station: 1020 L / 1520 UTC

**Flyority 3:**

Collection Area: Klemme Range Research Station (OAES) Gap Fill

Flight Plan Name: D11\_OAES\_R1\_GF\_v3\_Q780

**Crew:** Ivana Vu (Lidar), Mitch Haynes (NIS), Michael Wussow (Ground/GPS)

**Flight Collection Plan for 25 April 2018**

**Same as previous day**

**Crew:** Mitch Haynes (Lidar), Ivana Vu (NIS), Michael Wussow (Ground/GPS)

**On-Going Issues**

<b>Fault:</b> Database	<b>Ticket:</b> INC0013090	<b>Open Date:</b> 4/2/2018
Database crash during flight. Sometimes to both operators simultaneously, but also to both NIS and Lidar operator individually. This has been a re-occurring issue, but is only being added now. 20180404 Database no longer crashes when minimizing and maximizing. 20180410 Database experienced same network connection issues and crashed several times during both flights. Lidar Crystal Computer VNC was open on the DCC for training purposes. 20180418 Database crashed in-flight, 2 times on NIS DCC computer and 3 times on Lidar Crystal computer. 20180419 Database crashed on Lidar Crystal computer once on the ground during system startup and once in-flight on the NIS DCC computer. Andrew is investigating whether this is due to a networking issue. 20180423 Database crashed on Lidar Crystal computer 4 times in-flight		
<b>Fault:</b> Camera	<b>Open Date:</b> 4/10/2018	
20180410 Camera thumbnails on SnapSHOT appear corrupted. 20180423 All camera photos from both flights appeared corrupted.		