



## April 16, 2018 Payload 3 Daily Flight Report



**Date:** 2018-04-16

**Flight Campaign ID:** 2018\_P3C1

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

**Domain:** 11

**Sites Flown:** Transit (KBDU to KLCL to KSPS)

**Days left in Domain:** 10

**Report Author:** Mitch Haynes

**Flight Crew:** Mitch Haynes

**Ground/GPS:** Ivana Vu, Michael Wussow

**Pilots:** Mike Francis, Paul Muth

**Additional Personnel:** None

**GPS Instruments:** None

**Flight Hours:** 01:56 + 1:33

**Hours until maintenance:** 80.97

### **Summary**

The Twin Otter and crew rode a strong tail wind the whole way to Wichita Falls, Texas in preparing for airborne surveys in D11, set to begin tomorrow.

### **Concerns**

None

### **Comments**

- GPS 04 was set up at OAES and GPS 05 at the FBO at KSPS, in addition to GPS 03 being set up yesterday at CLBJ/BLUE

**Photos from the transit:**



Above: Lots of fields and crop circles over during today's transit through KS. Below: Fuel stop in Liberal, KS.



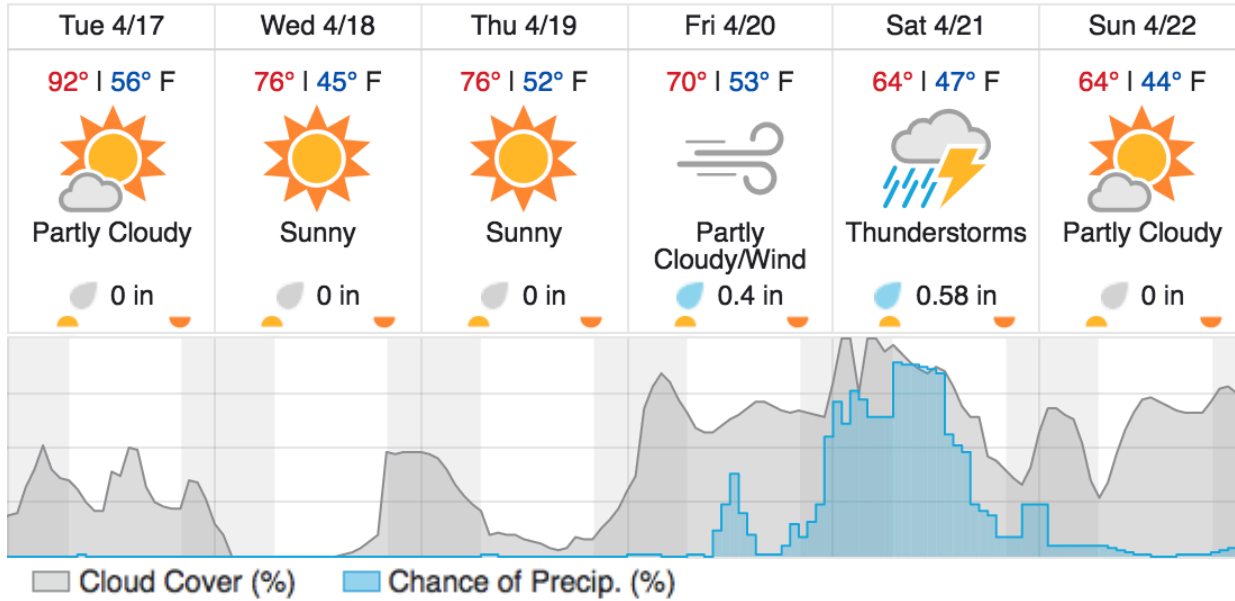


Above: Nice view of the left engine and prop with the Red River in the background. Below: Getting settled at KSPS



## Weather Forecast

Wichita Falls, TX



### Flight Collection Plan for 17 April 2018

#### **Flyority 1:**

Collection Area: Klemme Range Research Station (OAES)

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

On Station: 1050 L / 1530 UTC

#### **Flyority 2:**

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

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

On Station: 1020 L / 1520 UTC

#### **Flyority 3:**

Collection Area: Pringle Creek (PRIN)

Flight Plan Name: D11\_PRIN\_A1\_P1\_v4\_Q780

On Station: 1020 L / 1520 UTC

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

### Flight Collection Plan for 18 April 2018

#### **Flyority 1:**

Collection Area: Klemme Range Research Station (OAES)

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

On Station: 1050 L / 1530 UTC

#### **Flyority 2:**

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

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

On Station: 1020 L / 1520 UTC

#### **Flyority 3:**

Collection Area: Pringle Creek (PRIN)

Flight Plan Name: D11\_PRIN\_A1\_P1\_v4\_Q780

On Station: 1020 L / 1520 UTC

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

## On-Going Issues

|  |                             |
|--|-----------------------------|
| <b>Fault:</b> Lidar  | <b>Open Date:</b> 3/21/2018 |
| <p>20180322 New Ethernet cable attached but same issues occurred.</p> <p>2018032414 Several lost connections occurred for the Remote Desktop to both RiAcquire and Tracker snapSHOT, which effected the pilot display. Issue will continue to be monitored.</p> <p>20180327 Tried tactic of unchecking production of MONSDW files to reduce network load, but RDP connection was lost twice during this flight.</p> <p>20180330 Per Lab Manager's suggestion, VNC's for RiAcquire and Tracker were tested during the transit, and no lag was observed. 20180331 VNC connections for RiAcquire and Snapshot used instead of RDP.</p> <p>20180401 Used VNCs (with slight lag) and external displays, no lost connections occurred in 4 hour flight</p>                             |                             |
| <b>Fault:</b> Lidar  | <b>Open Date:</b> 3/21/2018 |
| <p>20180321 Error message on RiAcquire. LASER_HEARTBEAT_TIMEOUT_EXPIRED and corresponding visible gaps in swath.</p> <p>20180322 Error occurred again, believed to be related to lost connection with scanner.</p> <p>20180323 Same error occurred. 20180324 Error occurred on one line.</p> <p>20180327 LASER_HEARTBEAT_TIMEOUT_EXPIRED and corresponding visible gaps in swath error occurred when RDP lost connection twice.</p> <p>20180331 VNC connections for RiAcquire and SnapSHOT were used today and error did NOT occur.</p> <p>20180401 No laser heartbeat errors occurred in 4 hour flight while using VNCs. 20180405 five flights with no heartbeat timeout error.</p>   |                             |
| <b>Fault:</b> QAQC   | <b>Open Date:</b> 3/24/2018 |
| <p>SBET plots are failing to generate in QAQC. Extractions otherwise occurring properly.</p>   |                             |
| <b>Fault:</b> Lidar  | <b>Open Date:</b> 3/24/2018 |
| <p>Received several INS-GPS 1 errors on RiAcquire during flight that dont look familiar. Will investigate to see what these errors mean and why theyre being received.</p> <p>20180401 No INS-GPS1 Errors occurred in 4 hour flight</p>  |                             |
| <b>Fault:</b> Spectrometer   | <b>Open Date:</b> 3/29/2018 |
| <p>20180329 Pressure loss on the NIS, possibly due to a bad seal. Ian Crocker cut the strap holding the getter in hopes of reducing vibration from the PIM. Flight crew will monitor during transit. PL3 vacuum pump will be shipped to D17 if needed.</p> <p>0180330 No significant pressure loss occurred during the transit to D17.</p> <p>20180331 NIS chamber pressure is continuing to rise, based on the trend crew is requesting pump to be shipped to D17 to be used if necessary.</p> <p>20180404 Noticed chamber pressure was jumping around a lot before and during return transit from D17. Now suspect a sensor or connetion issue rather than a real vacuum pressure change.</p> <p>20180405 Cracked oring found in getter plumbing. Replaced by Ian Crocker.</p> |                             |
| <b>Fault:</b> Camera   | <b>Open Date:</b> 4/10/2018 |
| <p>Camera thumbnails on SnapSHOT appear corrupted.</p>   |                             |