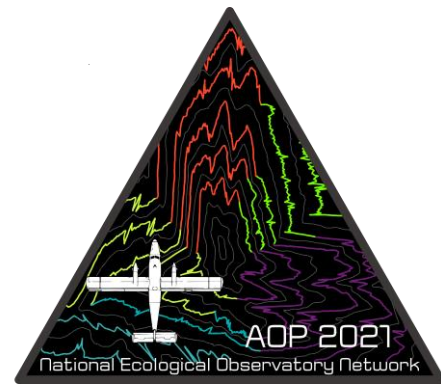




Payload 3 Daily Flight Report



Date: 2021-06-19

Flight Campaign ID: P3C1

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: 11

Report Author: Elissa Barris

Lidar Operators: Elissa Barris

Flight Hours: 02:05

Spectrometer Operators: Abe Morrison

Hours until maintenance: 77.37

Pilots: Stephen Brawders, Will Mathews

GPS Instruments: 04 - FBO_KSPS, TXDOT-TXDC

Summary

Cirrus prevented flights at the beginning of our solar angle today. We attempted later when they cleared, but they were quickly replaced by cumulus and haze. We collected airshed priority lines in yellow conditions at CLBJ.

Concerns

- The Midas intermittantly failed to recognize the Midas 1 disk in Disk Set 5. We tested this several times today, and it was not read 3 out of 4 times. It was recognized by the hotel kit. We will continue to look into it, but in the meantime we skipped to Disk Set 6 for today's operations.
- Temperatures in the cabin have been high the past couple of days; the AC is having trouble keeping up, especially after the plane is warm from sitting on the ramp post-flight. So far no thresholds have been exceeded and we are continuing to closely monitor them.

Comments

None.

Daily Coverage

Estimated Cloud Cover Key

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

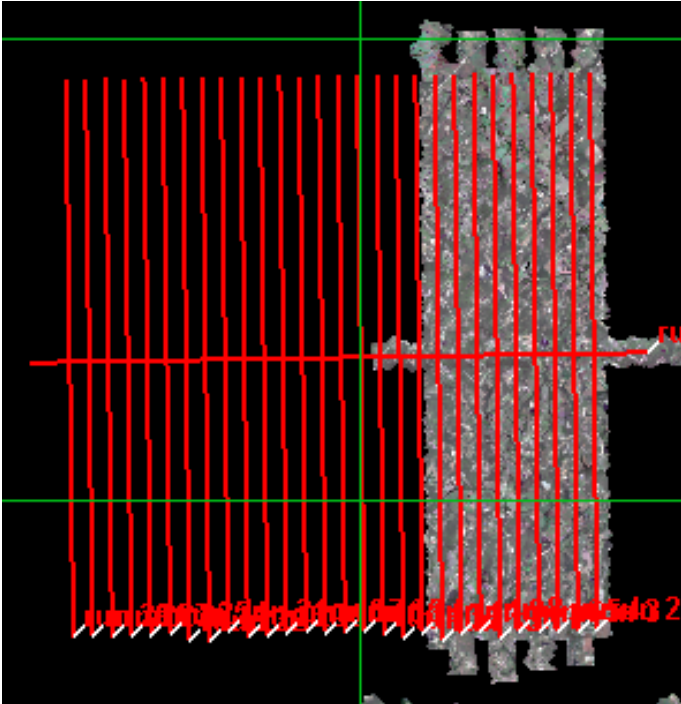
D11|CLBJ

Line #	1	2	3	4	5	6	7	8	9	10
Lidar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer		✓	✓	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cloud Cover										

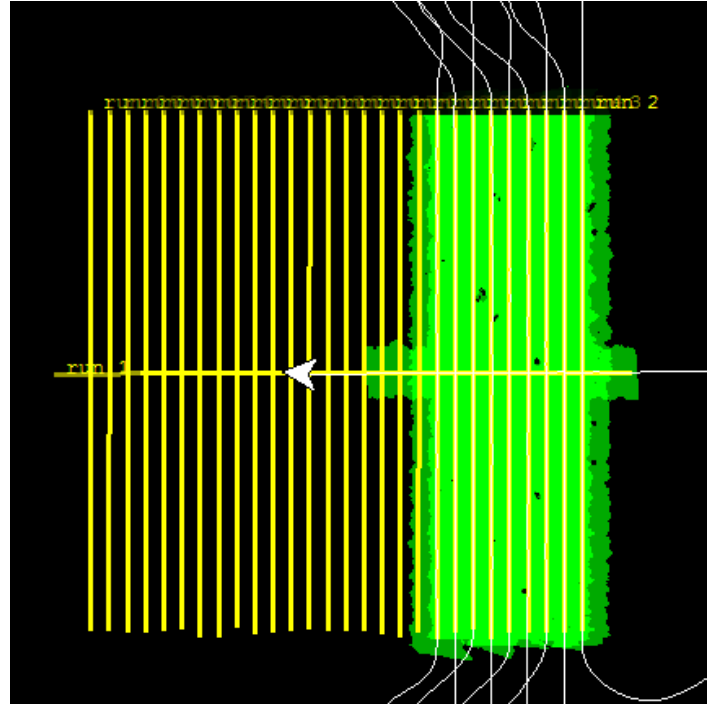
Total number of lines flown: 10

Flight Screenshots

NIS



LiDAR



Pictures



Cumulus and haze over CLBJ. The NEON tower can barely be made out in this photo in the trees below the plane.

Cumulative Domain Coverage

D11 | BLUE (Blue River aquatic site)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----

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: 34% (10/29)

Green: 0% (0/29)

Yellow: 34% (10/29)

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)

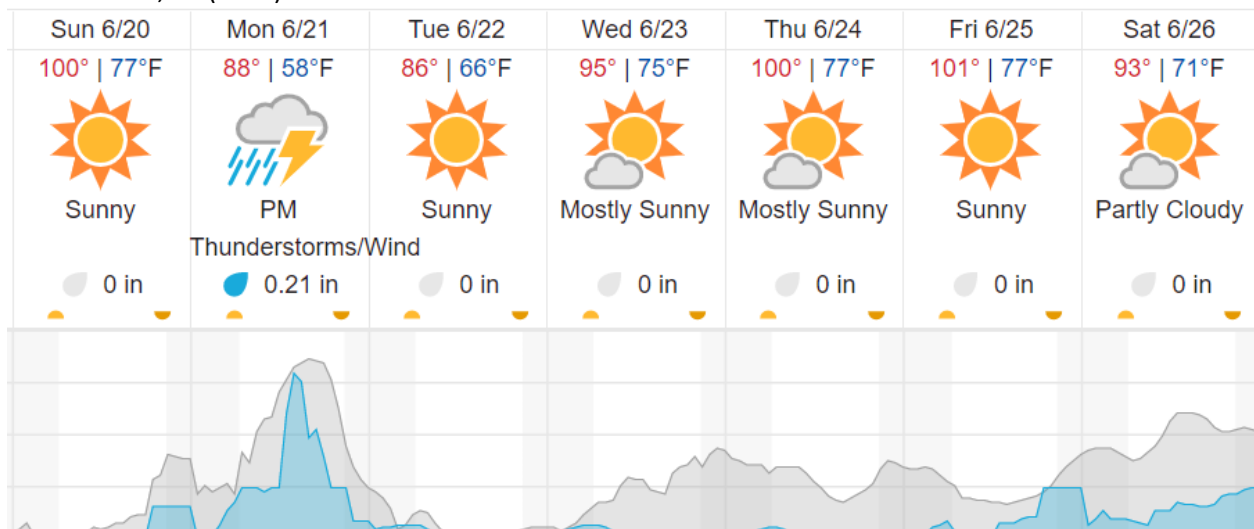
Green: 0% (0/26)

Yellow: 0% (0/26)

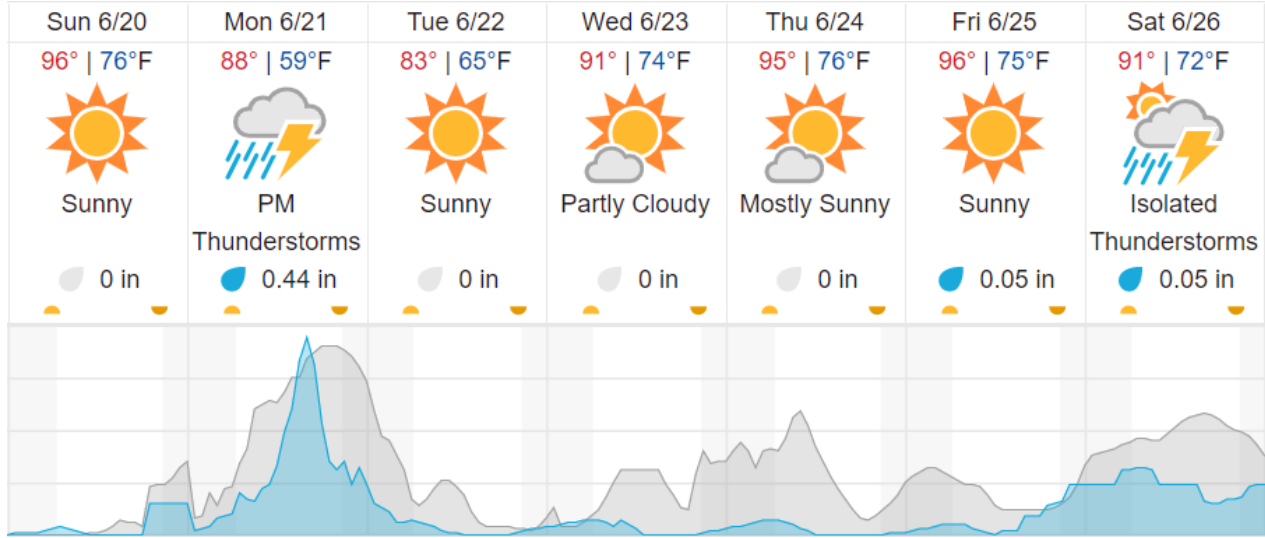
Red: 0% (0/26)

Weather Forecast

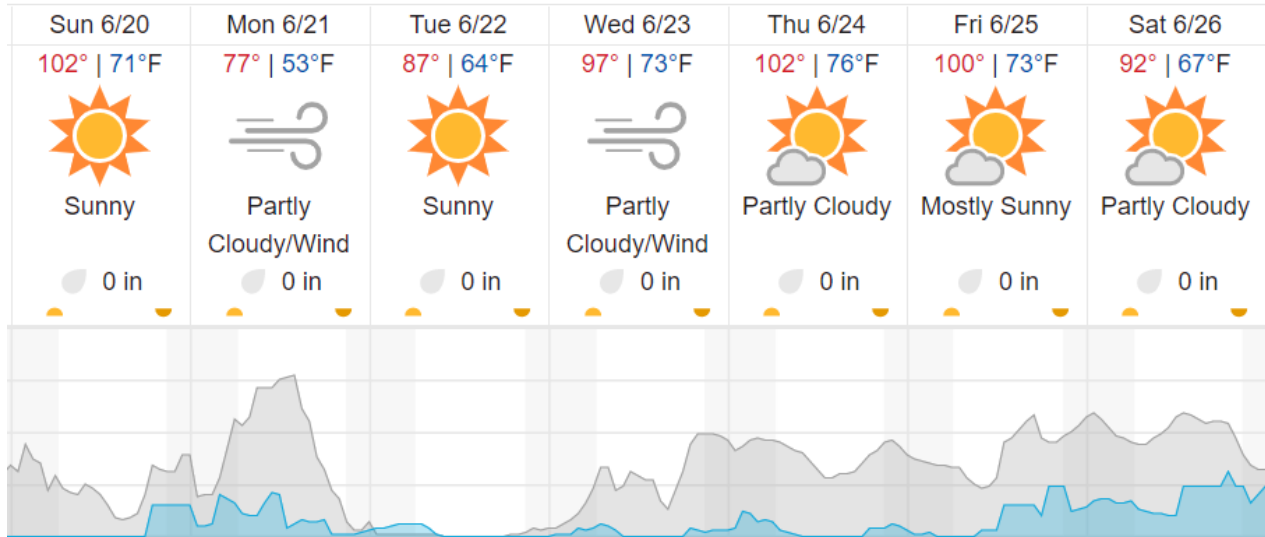
Wichita Falls, TX (KSPS)



Alvord, TX (CLBJ)



Clinton, OK (OAES)



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

Flight Collection Plan for 20 June 2021

Flyority 1

Collection Area: LBJ Grasslands (CLBJ)

Flight Plan Name: D11_CLBJ_C1_P1_v3_Q780

On-station Time: 14:50 UTC / 09:50 L

Flyority 2

Collection Area: Klemme Range Research Station (OAES)

Flight Plan Name: D11_OAES_R1_P1_v3_Q780

On-station Time: 14:30 UTC / 09:30 L

Flyority 3

Collection Area: Pringle Creek (PRIN)

Flight Plan Name: D11_PRIN_A1_P1_v4_Q780

On-station Time: 14:50 UTC / 09:50 L

Flyority 3

Collection Area: Blue River (BLUE)

Flight Plan Name: D11_BLUE_A2_P1_v3_Q780

On-station Time: 14:50 UTC / 09:50 L

Crew: Abe, Elissa