



Payload 1 Daily Flight Report



**Date:** 2022-06-13  
**Flight Campaign ID:** P1C1  
**Airport, FBO ID, City:** Topeka Regional Airport (KFOE) - Topeka, KS  
**Aircraft:** N331AR

**Domain:** 06 (Prairie Peninsula)  
**Sites Flown:** KONZ\_KONA (Konza Prairie Biological Station and Relocatable Agricultural Site)  
**Days left in Domain:** 3

**Report Author:** Abe  
**Lidar Operators:** Abe  
**Spectrometer Operators:** Cameron  
**Pilots:** Jeremy, Justin

**Flight Hours:** 03:16  
**Hours until maintenance:** 58.78  
**GPS Instruments:** 06 - KFOE, U-KSU1

**Summary**

The crew had to wait out some heavy clouds and rain this morning, but it turned into a nice-ish afternoon. The clouds were pushed out by what turned out to be a 60+ mph crosswind in our flight box that included temps of 100+ Deg. The crab angle that we needed to maintain was around 25deg! The pilots flew through the adversity like the professionals that they are, and it didn't help matters that we were flying mega lines around 20K long. The "Yellow" Sky conditions eventually turned into "Green" before we had to head home due to low fuel. The high power settings the pilots needed to maintain our course drained the tanks quicker than normal. 15 lines were collected in the mega box, 8 of which were in "Green" conditions.

**Concerns**

-The NIS had an "HSI Timestamp Error" again today. The line was aborted and the DCC was restarted. The rest of the survey continued normally.

**Comments**

None

**Daily Coverage**

Estimated Cloud Cover Key

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

D06|KONZ\_KONA

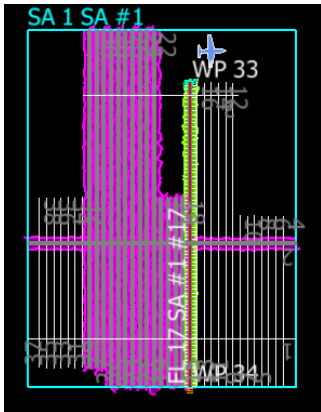
Line #	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
Lidar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cloud Cover															

Total number of lines flown: 15

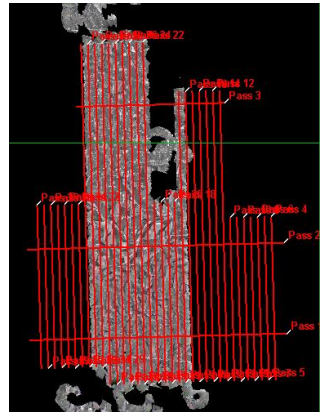
## Flight Screenshots

KONZ\_KONA

Lidar



NIS



## Cumulative Domain Coverage

D06 | KONZ\_KONA (Konza Prairie Biological Station and Relocatable Agricultural Site)

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					

Flown: 46% (16/35)

Green: 23% (8/35)

Yellow: 23% (8/35)

Red: 0% (0/35)

D06 | MCDI (McDiffett Creek )

2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
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Flown: 0% (0/19)

Green: 0% (0/19)

Yellow: 0% (0/19)

Red: 0% (0/19)

D06 | N06A (D06 Nominal Runway )

1

Flown: 100% (1/1)

Green: 0% (0/1)

Yellow: 0% (0/1)

Red: 100% (1/1)

D06 | UKFS (University of Kansas Field Station )

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: 100% (25/25)

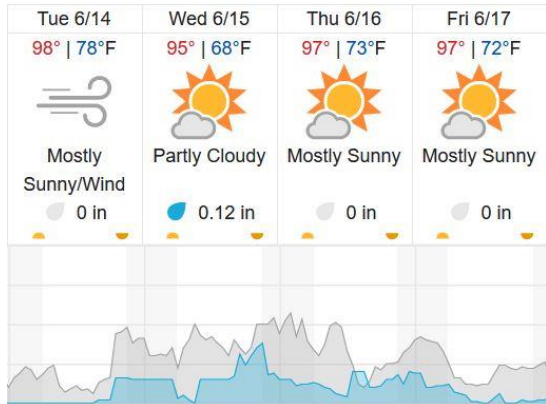
Green: 0% (0/25)

Yellow: 0% (0/25)

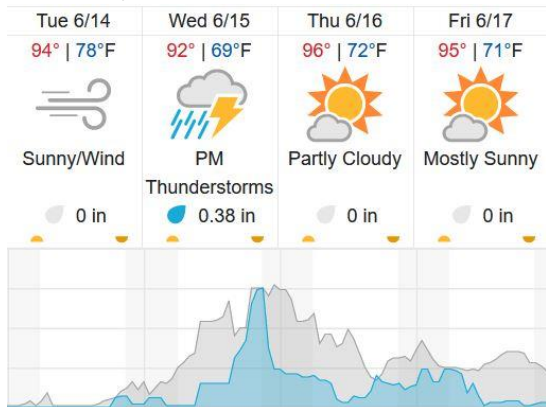
Red: 100% (25/25)

## Weather Forecast

### Manhattan, KS



### Lawrence, KS



source: wunderground.com

## Flight Collection Plan for 14 June 2022

### Flyority 1

Collection Area: Konza Prairie Biological Station (KONZ) – Konza Agricultural Site (KONA)

Flight Plan Name: D06\_KONZ\_KONA\_C1\_P1\_v4\_PRM.xml

On-station Time: 1450 UTC / 0950 L

### Flyority 2

Collection Area: University of Kansas Field Station (UKFS) \*\*If "Green" Sky Conditions\*\*

Flight Plan Name: D06\_UKFS\_R1\_P1\_v3\_PRM.xml

On-station Time: 1440 UTC / 0940 L

### Flyority 3

Collection Area: McDiffett Creek (MCDI)

Flight Plan Name: D06\_MCDI\_C1\_P2\_v3\_PRM.xml

On-station Time: 1450 UTC / 0950 L

**Flight Crew:** Cam (Lidar), Abe (NIS)