



Payload 1 Daily Flight Report



Date: 2022-06-14
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), MCDI (McDiffett Creek)
Days left in Domain: 2

Report Author: Cameron
Lidar Operators: Cameron **Flight Hours:** 02:54:00, 02:09:00
Spectrometer Operators: Abe **Hours until maintenance:** 53.73
Pilots: Justin , Jeremy **GPS Instruments:** 06 - KFOE, U-KSU1

Summary

A very windy and hazy day over the Prairie Peninsula. A thick layer of haze was visible from the ground and air. The crew decided to take advantage of the lack of cloud cover and collected 40 total lines in yellow sky conditions to complete coverage at all sites in D06.

Concerns

HSI time stamp issue occurred again today. A software reset was initially tried however after restart, the NIS swath failed to paint. A full restart of the DCC was preformed and the issue did not reoccur during the flight.

Comments

- None

Daily Coverage

Estimated Cloud Cover Key

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

D06|KONZ_KONA

Line #	4	5	6	7	8	9	10	11	12	13	14	15	16	32	33	34	35	36	37	38
Lidar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cloud Cover																				

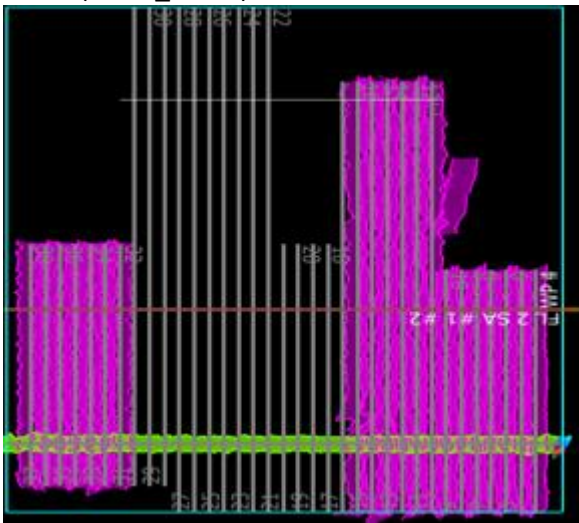
Total number of lines flown: 20

Line #	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Lidar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cloud Cover																			

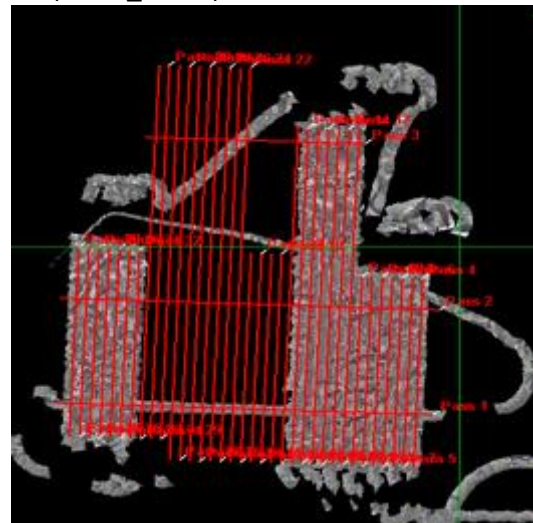
Total number of lines flown: 19

Flight Screenshots:

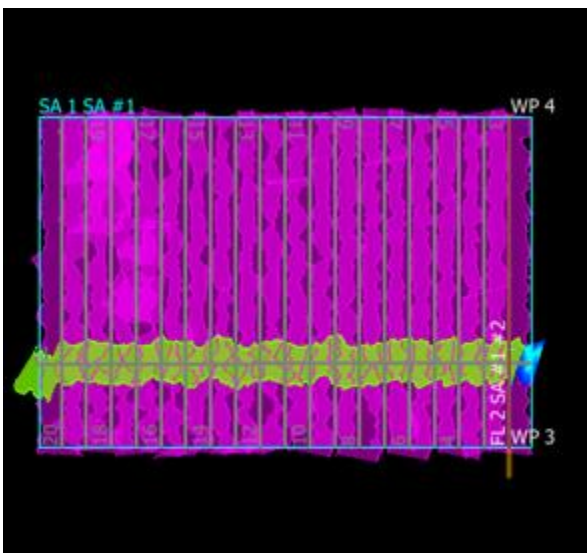
Lidar (KONZ_KONA)



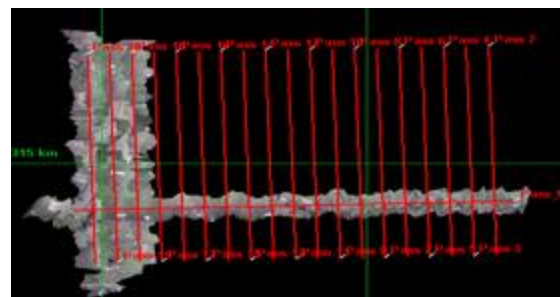
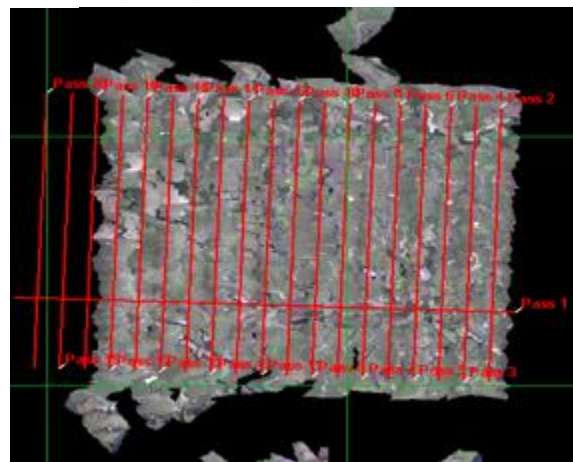
NIS (KONZ_KONA)



Lidar (MCDI)



NIS (MCDI)



Pictures



A hazy day over KONZ_KONA

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	36	37	38		

Flown: 97% (37/38)

Green: 21% (8/38)

Yellow: 76% (29/38)

Red: 0% (0/38)

D06 | MCDI (McDiffett Creek)

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----

Flown: 95% (19/20)

Green: 0% (0/20)

Yellow: 95% (19/20)

Red: 0% (0/20)

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: 96% (25/26)

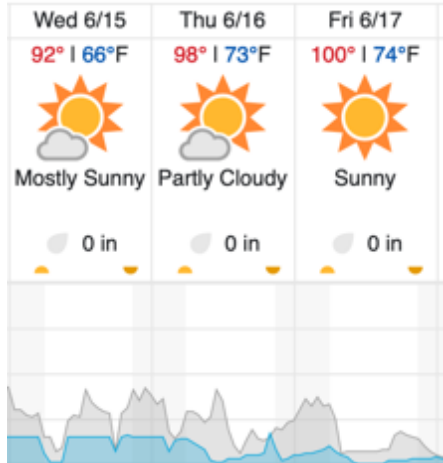
Green: 0% (0/26)

Yellow: 0% (0/26)

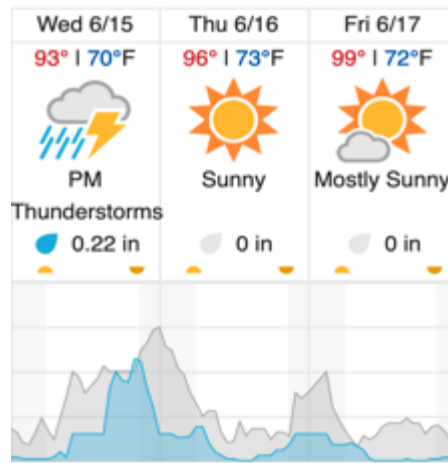
Red: 96% (25/26)

Weather Forecast

Manhattan, KS



Lawrence, KS



source: wunderground.com

Flight Collection Plan for 15 June 2022

Flyority 1

Collection Area: Konza Prairie Biological Station (KONZ) – Konza Agricultural Site (KONA) **If Green Sky Condition**

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: Abe (Lidar), Cam (NIS)