



Payload 3 Daily Flight Report



Date: 2024-09-08
Flight Campaign ID: P3C1
Airport, FBO ID, City: Topeka Regional Airport (KFOE) - Topeka, KS
Aircraft: N821AR

Domain: 06 (Prairie Peninsula)
Sites Flown: KONZ_KONA (Konza Prairie Biological Station and Relocatable Agricultural Site)
Days left in Domain: 2

Report Author: Cameron
Lidar Operators: Cameron Flight Hours: 03:44
Spectrometer Operators: Mitch Hours until maintenance: 51.97
Pilots: Manning, Vince GPS Instruments: 03 - KFOE, U-KSU1

Summary
The crew departed today to conduct flights over the CFC sampling areas at KONA. Upon takeoff, a subtle haze layer was observed, which had not been apparent from ground-level observations. Priority lines were collected initially, followed by the remaining lines. A total of 22 lines were successfully acquired under nominal atmospheric conditions. We anticipate collecting the remaining lines over KONA tomorrow.

Concerns
- None

Comments
- None

Daily Coverage
Estimated Cloud Cover Key

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

Solar Angle Less Than 40 degrees

Line #

D06|KONZ_KONA

Line #	14	15	16	17	18	19	20	21	25	26	27	28	29	30	31	32	33	34	35	36
Lidar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Camera	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Cloud Cover																				

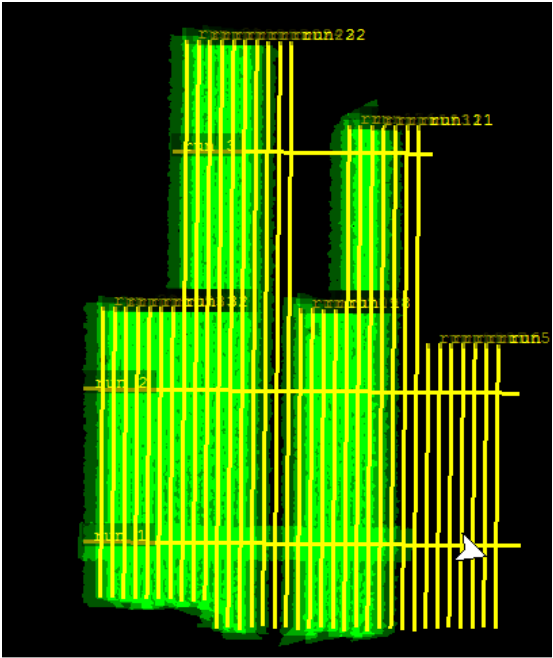
Line #	37	38
Lidar	✓	✓

Spectrometer	✓	✓
Camera	✓	✓
Cloud Cover		

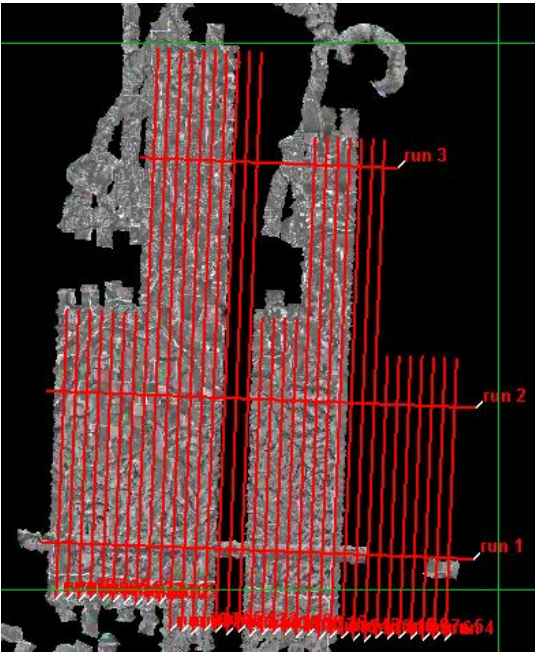
Total number of lines flown: 22

Flight Screenshots

Lidar Swath



NIS GeoPaint



Pictures

Flying above KONA today



Cumulative Domain Coverage

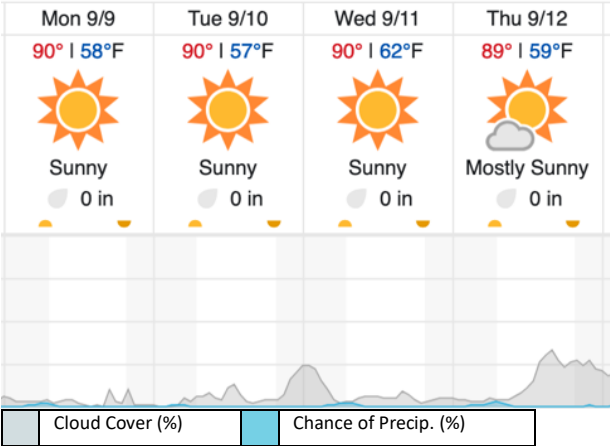
D06| KONZ_KONA (Konza Prairie Biological Station and Relocatable Agricultural Site)

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					

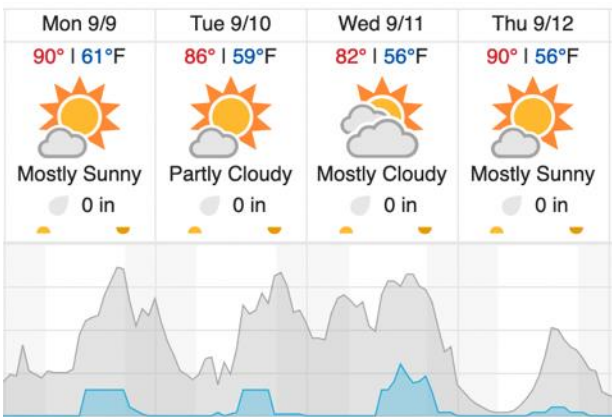
Flown: 100% (35/35)
Green: 100% (35/35)
Yellow: 0% (0/35)
Red: 0% (0/35)

Weather Forecast

Manhattan, KS (KONZ-KONA)



Boulder, CO (AOP-PIF)



Flight Collection Plan for September 09, 2024

Flyority 1 (Lines 4-13 & 22-24)
Collection Area: Konza Prairie Biological Station (KONZ) – Konza Agricultural Site (KONA)
Flight Plan Name: D06_KONZ_KONA_C1_P1_v4_Q780
On-station Time: 1550 UTC / 1050 L

Crew: Mitch (Lidar), Cam (NIS)