



Payload 3 Daily Flight Report



Date: 2020-07-08

Flight Campaign ID: P3C1

Airport, FBO ID, City: Topeka Regional Airport (KFOE) - Topeka, KS

Domain: 06 (Prairie Peninsula)

Sites Flown: KONZ_KONA (Konza Prairie Biological Station and Relocatable Agricultural Site)

Days left in Domain: 9

Report Author: Elissa Barris

Lidar Operators: Elissa Barris

Flight Hours: 01:50

Spectrometer Operators: Mitch Haynes

Hours until maintenance: 71.35

Pilots: Justin Eddington, Micah Hoogeveen

GPS Instruments: 06 - FBO_KFOE, U-KSU1

Summary

Clear early morning skies quickly gave way to haze, cirrus, and cumulus. Nevertheless conditions permitted the initial collection of non-priority lines at KONZ/KONA under yellow cloud cover.

Concerns

The first QA attempt of yesterday's data failed (Mission ID 2020070714). In order to extract today's data, the QA re-run is being attempted simultaneously.

Comments

Due to inability to communicate with the KONA tower this morning, no sky condition snapshots were taken during today's flight.

Daily Coverage

Estimated Cloud Cover Key

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

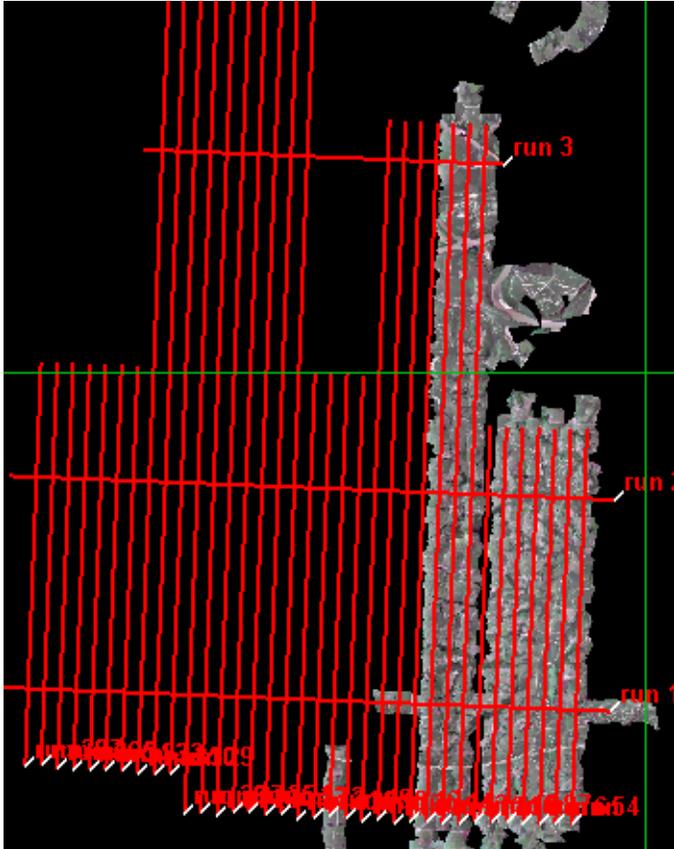
D06|KONZ_KONA

| Line # | 4 | 5 | 6 | 7 | 8 | 9 | 11 | 12 | 13 |
|--------------|---|---|---|---|---|---|----|----|----|
| Lidar | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Spectrometer | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Camera | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Cloud Cover | | | | | | | | | |

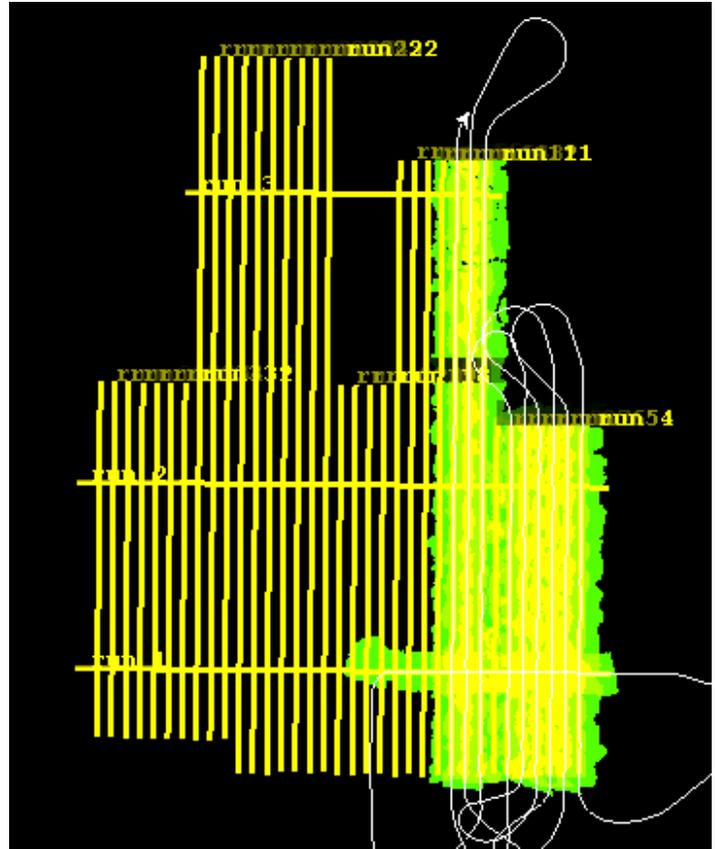
Total number of lines flown: 9

Flight Screenshots

NIS



Lidar



Pictures



Morning haze over the Kansas River by the KONZ/KONA site.

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: 34% (13/38)

Green: 5% (2/38)

Yellow: 29% (11/38)

Red: 0% (0/38)

D06 | UKFS (University of Kansas Field 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 | | | | | | | | | | | | | | |

Flown: 0% (0/26)

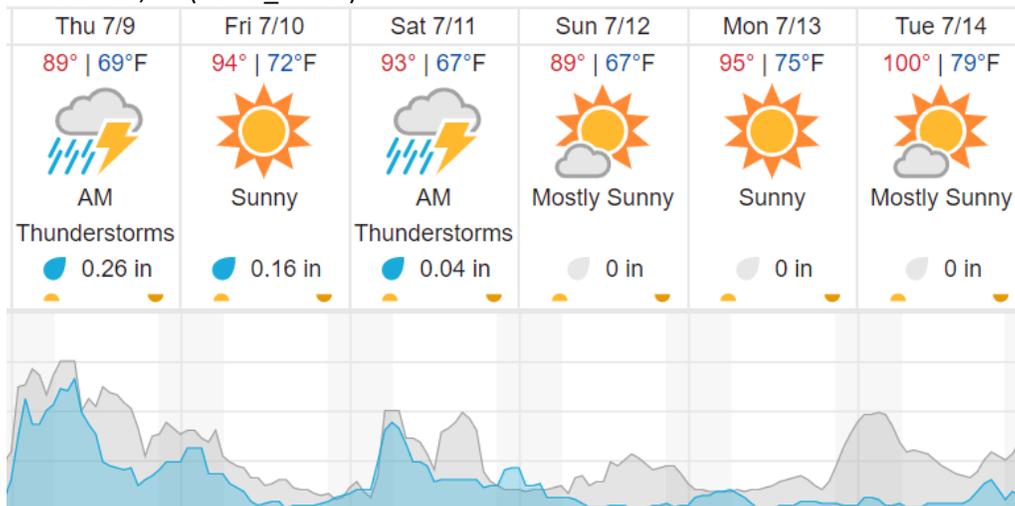
Green: 0% (0/26)

Yellow: 0% (0/26)

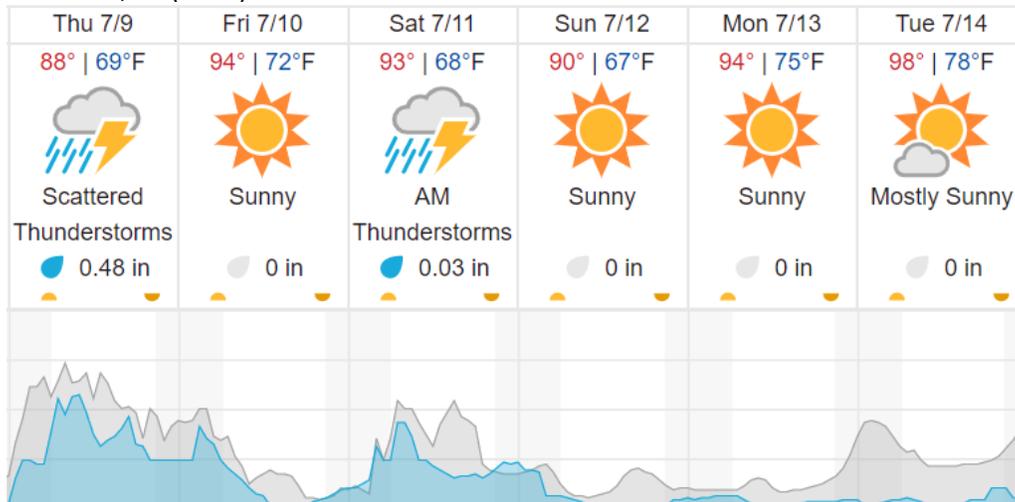
Red: 0% (0/26)

Weather Forecast

Manhattan, KS (KONZ_KONA)



Lawrence, KS (UKFS)



| | | | |
|--|-----------------|--|-----------------------|
| | Cloud Cover (%) | | Chance of Precip. (%) |
|--|-----------------|--|-----------------------|

Flight Collection Plan for 9 July 2020

Flyority 1

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

Flight Plan Name: D06_KONZ_KONA_C1_P1_v4_Q780

On-station Time: 0950 L / 1450 UTC

Flyority 2

Collection Area: University of Kansas Field Station (UKFS)

Flight Plan Name: D06_UKFS_R1_P1_v3_Q780

On-station Time: 0950 L / 1450 UTC

Crew: Mitch Haynes (Lidar), Elissa Barris (NIS/GPS)