

Payload 1 Daily Flight Report



Date: 2023-06-18

Flight Campaign ID: P1C1

Airport, FBO ID, City: Wincester Regional Airport (KOKV) - Winchester, VA

Aircraft: N331AR

Domain: 02 (Mid-Atlantic), 07 (Appalachians & Cumberland Plateau) **Sites Flown**: SCBI (Smithsonian Conservation Biology Institute)

Days left in Domain: 0

Report Author: Elissa

Lidar Operators: Elissa **Flight Hours**: 03:44

Spectrometer Operators: Mitch Hours until maintenance: 21.80

Pilots: Cullen, Vince **GPS Instruments**: 07 - FBO_KOKV, AOP_SCBI

Summary

With the Twin Otter fit to fly again after the mechanic's efforts over the weekend, we took off this morning to collect our main priority site, SCBI. Heavy haze resulted in red conditions for the entirety of the flight, made worse by encroaching cumulus clouds as the day wore on. We finished the box with little time to spare before low cumulus closed out our weather window.

Concerns

None.

Comments

We plan to begin the transit to Domain 16 (Hillsboro, OR) tomorrow morning, stopping in Grand Junction, CO for maintenance along the way.

Daily Coverage

Estimated Cloud Cover Key

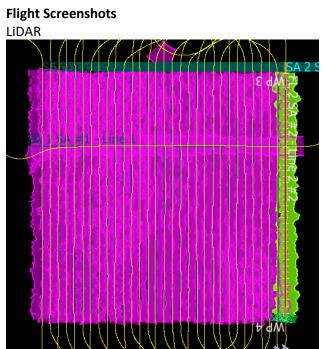
Green:	Yellow:	Red:
0-10%	11-50%	>50%

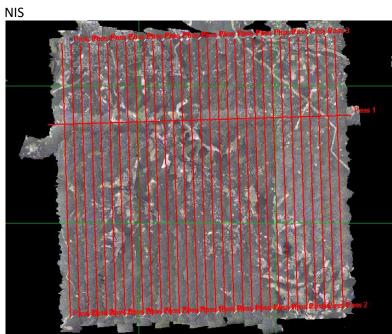
D02|SCBI

Line #	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
Lidar	/	√	\	\	√	\	^	^	\	✓	\	✓	✓	\	<	✓	\	\	✓	✓
Spectrometer	√	✓	✓	✓	✓	✓	✓	✓	√	✓	√	✓	✓	✓	✓	✓	√	√	✓	✓
Camera	√	✓	√	√	✓	√														
Cloud Cover																				

Line #	22	23	24	25	26	27	28	29	30	31	32
Lidar	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Spectrometer	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	√
Camera	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	√
Cloud Cover											

Total number of lines flown: 31





Pictures



Heavy haze over the Shenandoah Mountains during today's flight.

Cumulative Domain Coverage

D02 | BLAN (Blandy Experimental Farm)

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								

Flown: 0% (0/32) Green: 0% (0/32) Yellow: 0% (0/32) Red: 0% (0/32)

D02 | N02B (D02 Nominal Runway)

1

Flown: 100% (1/1) Green: 0% (0/1) Yellow: 0% (0/1) Red: 100% (1/1)

D02 | SCBI (Smithsonian Conservation Biology Institute)

		,						6	,		,								
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									

Flown: 100% (31/31) Green: 0% (0/31) Yellow: 0% (0/31) Red: 100% (31/31)

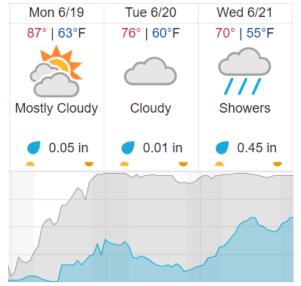
D02 | SERC (Smithsonian Ecological Research Center)

		•				_					,								
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															

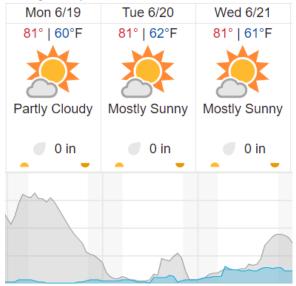
Flown: 0% (0/25) Green: 0% (0/25) Yellow: 0% (0/25) Red: 0% (0/25)

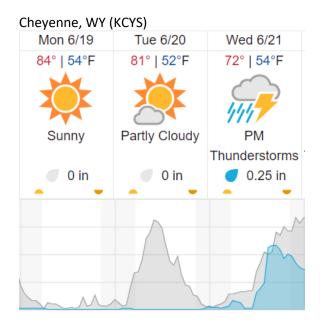
Weather Forecast

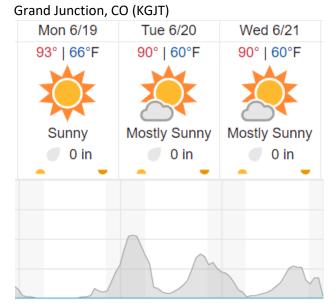
Winchester, VA (KOKV)



Michigan City, IN (KMGC)







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

source: wunderground.com

Flight Collection Plan for 19 June 2023

Transit to D16

Crew: Elissa