



May 15, 2019 Payload 2 Daily Flight Report



Date: 2019-05-15

Flight Campaign ID: 2019_P2C1

Airport, FBO ID, City: Manassas Regional (KHEF) - Manassas, VA

Domain: 02

Sites Flown: SERC (Smithsonian Ecological Research Center)

Days left in Domain: 20

Report Author: Mitch Haynes

Flight Crew: Mitch Haynes, Michael Wussow

Ground/GPS: Abe Morrison

Pilots: Justin Eddington, Mark Solper

Additional Personnel:

GPS Instruments: 02 - FBO_KHEF, 08 - SERC

Flight Hours: 02:15

Hours until maintenance: 38.57

Summary

Forecasted high pressure south of the region provided potential for clear sky collection in D02. During morning weather checks, high cirrus was viewed moving across the region from west to east, already present above SCBI and BLAN, and forcing the crew to turn focus towards SERC. Crew was able to collect 6 "green" lines (i.e. clear sky coverage) before cirrus pushed collections past the 10% sky coverage threshold into yellow conditions. 7 more lines were collected within the TOS/Airshed of SERC before collections were ceased for the day.

Concerns

None

Comments

- Crew was delayed getting on station at SERC due to lengthy TFR flight plan filing process. Moving forward, the crew will try to make flight decisions for SERC as early as possible to allow time for this process. However this will impact and limit flexibility in flying this site.
- Crew will be unable to fly SERC May 21-22 due to flight restrictions from US Naval Academy Blue Angels airshow in Annapolis.

Daily Coverage

D02 SERC	Line	SpecG	SpecY	SpecR	NIS	Lidar	Camera	Cumulative
	1				✓	✓	✓	NLC
	5				✓	✓	✓	NLC
	6				✓	✓	✓	NLC
	7				✓	✓	✓	NLC
	8				✓	✓	✓	NLC
	9				✓	✓	✓	NLC
	10				✓	✓	✓	NLC
	11				✓	✓	✓	NLC
	12				✓	✓	✓	NLC
	13				✓	✓	✓	NLC

	14				✓	✓	✓	NLC
	15				✓	✓	✓	NLC
	16				✓	✓	✓	NLC
	17				✓	✓	✓	NLC
Flown:	14							

Cumulative Domain Coverage

BLAN

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							

Flown: 0% (0/33)

Green: 0% (0/33)

Yellow: 0% (0/33)

Red: 0% (0/33)

N02A

1

Flown: 0% (0/1)

Green: 0% (0/1)

Yellow: 0% (0/1)

Red: 0% (0/1)

SCBI

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								

Flown: 0% (0/32)

Green: 0% (0/32)

Yellow: 0% (0/32)

Red: 0% (0/32)

SERC

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														

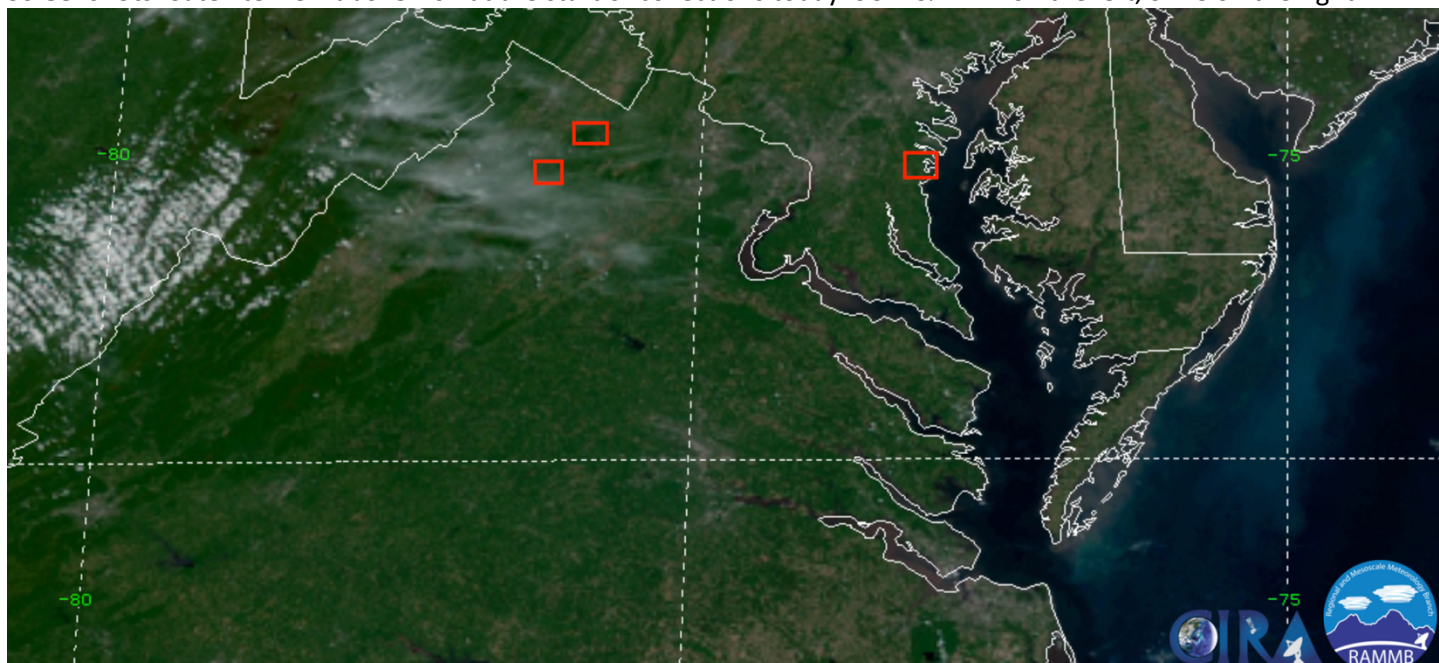
Flown: 54% (14/26)

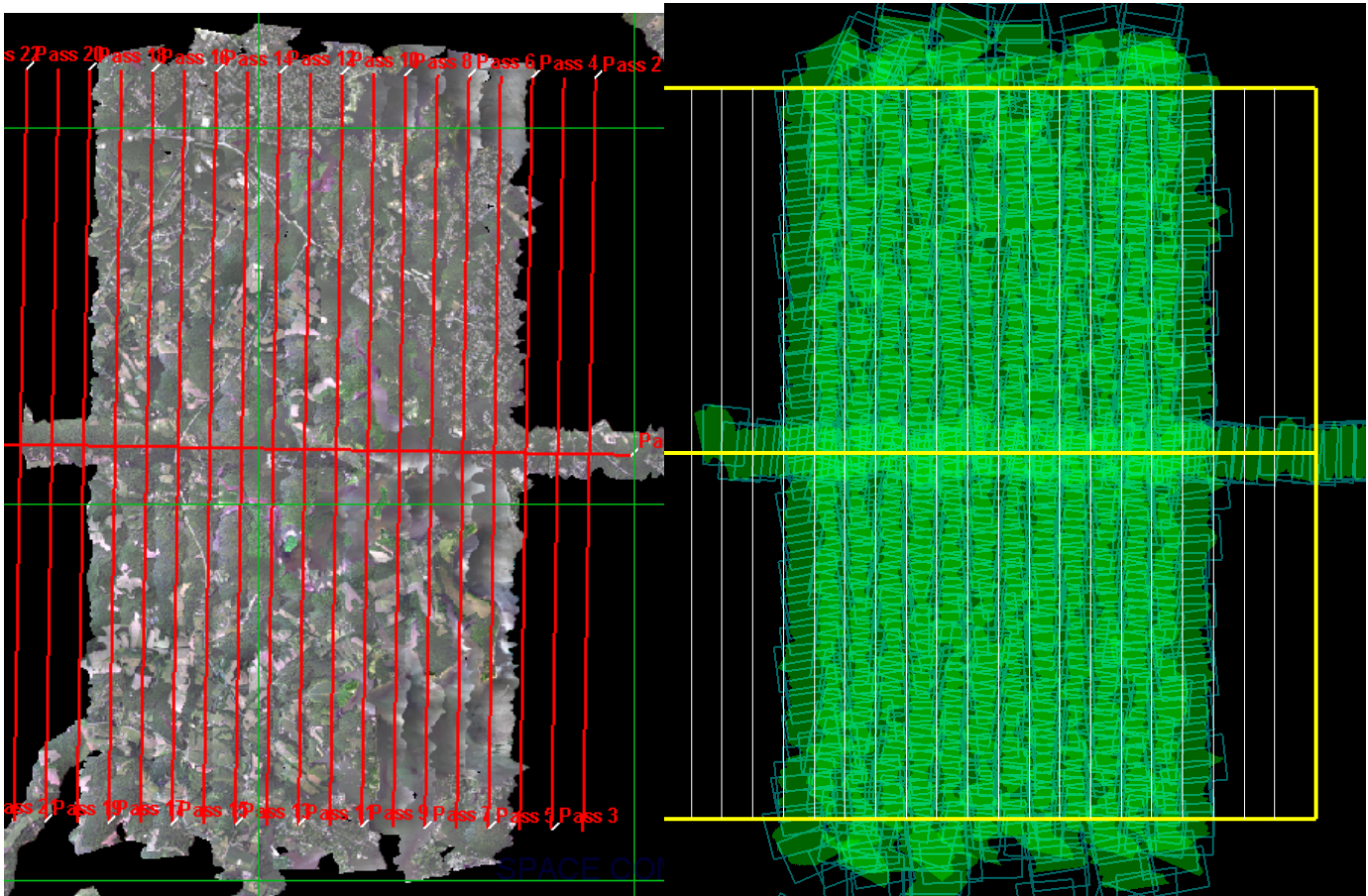
Green: 23% (6/26)

Yellow: 31% (8/26)

Red: 0% (0/26)

Screenshots- Satellite view above D02 at the start of collections today. SCBI & BLAN on the left, SERC on the right.





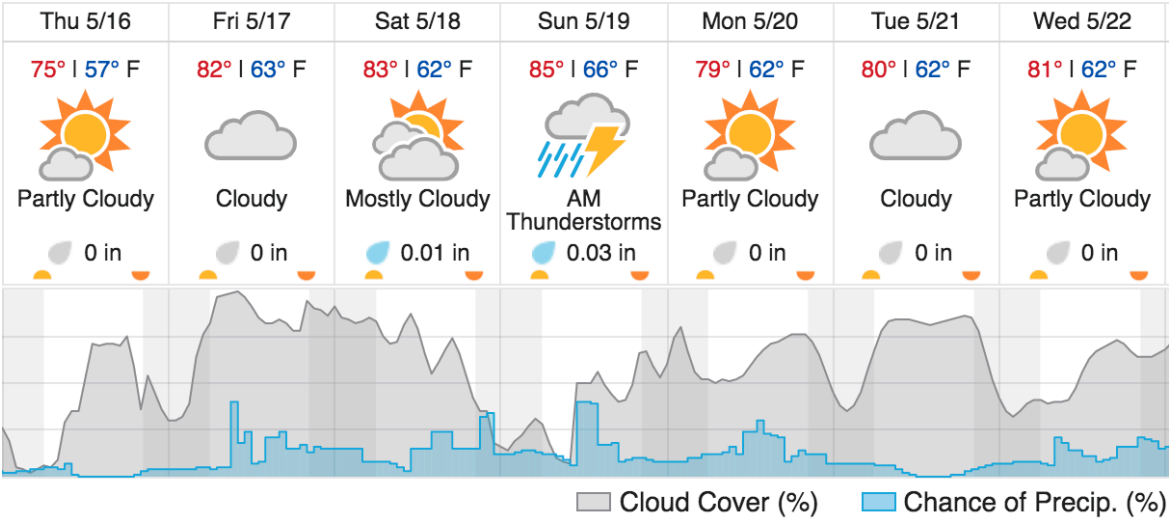
Pictures- View of SERC from above. NEON Tower has been circled to help point it out.



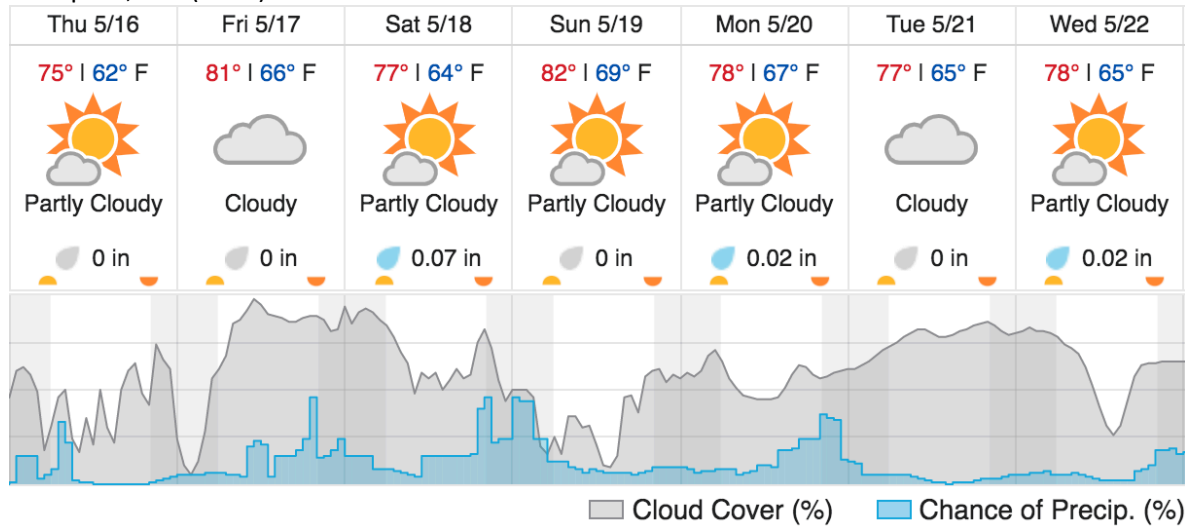


Above: Skyview looking north from SERC up towards Annapolis.

Weather Forecast
 Front Royal, VA (SCBI, BLAN)



Annapolis, MD (SERC)



Flight Collection Plan for 16 May 2019

Flyority1:

Collection Area: Smithsonian Conservation Biology Institute (SCBI)

Flight Plan Name: D02_SCBI_C1_P1_v1.pln

On Station Time: 09:40 L / 13:40 UTC

Flyority2:

Collection Area: Smithsonian Ecological Research Center (SERC)

Flight Plan Name: D02_SERC_R1_P1_v1.pln

On Station Time: 09:30 L / 13:30 UTC

Flyority3:

Collection Area: Blandy Experimental Farm (BLAN)

Flight Plan Name: D02_BLAN_R2_P1_v2.pln

On Station Time: 09:40 L / 13:40 UTC

Flyority4:

Collection Area: Nominal Runway – D02

Flight Plan Name: D02_N02A_Nominal_Runway_Test_v1.pln

On Station Time: N/A

Crew: Abe Morrison (**LiDAR**), Mitch Haynes, (**NIS**) Mike Wussow (**Ground/GPS**)

Flight Collection Plan for 17 May 2019

Flyority 1 – 4 Same as previously day

Crew: Mike Wussow (**LiDAR**), Abe Morrison (**NIS**), Mitch Haynes (**Ground/GPS**)