

### Payload 1 Daily Flight Report



Date: 2022-09-27

Flight Campaign ID: P1C1

Airport, FBO ID, City: Asheville Regional Airport (KAVL) - Fletcher, NC

Aircraft: N331AR

**Domain**: 07 (Appalachians & Cumberland Plateau)

Sites Flown: GRSM P1 (Great Smoky Mountains National Park Priority 1)

Days left in Domain: 15

Report Author: Cameron

**Lidar Operators**: Cameron **Flight Hours**: 03:32

Spectrometer Operators: Mike Hours until maintenance: 102.07

**Pilots**: Justin , Vince **GPS Instruments**: 04 - FBO\_KAVL, AOP\_GRSM

**Ground Crew**: Mitch

### Summary

The morning began with clear skies at both sites, so the crew mobilized with the intention of collecting the remaining lines at MLBS. During the transit, the crew checked the tower camera at MLBS and observed building cumulus clouds surrounding the site. We diverted to GRSM and were able to collect 13 lines in green sky conditions before the solar angle expired.

#### **Concerns**

- None

#### **Comments**

- Elissa arrives in D07 tonight.
- Pilot Vince departs and will be replaced by new pilot Terry.

## **Daily Coverage**

### **Estimated Cloud Cover Key**

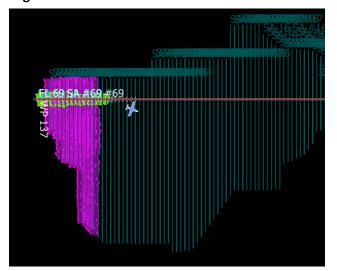
Green:	Yellow:	Red:
0-10%	11-50%	>50%

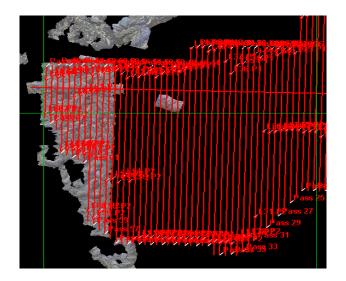
### D07|GRSM\_P1

Line #	57	58	59	60	61	62	63	64	65	66	67	68	69
Lidar	✓	✓	<b>✓</b>	✓	<b>✓</b>	✓	<b>✓</b>	✓	<b>✓</b>	✓	✓	✓	<b>✓</b>
Spectrometer	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Camera	✓	<b>√</b>	✓	<b>√</b>	<b>√</b>								
Cloud Cover													

Total number of lines flown: 13

# **Flight Screenshots**





Pictures: Flying over GRSM today.



# **Cumulative Domain Coverage**

D07 | GRSM\_P1 (Great Smoky Mountains National Park Priority 1)

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	39	40			
41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60			
61	62	63	64	65	66	67	68	69														

Flown: 54% (37/69) Green: 54% (37/69) Yellow: 0% (0/69) Red: 0% (0/69)

# D07 | GRSM\_P2 (Great Smoky Mountains National Park Priority 2)

70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89

Flown: 0% (0/20) Green: 0% (0/20) Yellow: 0% (0/20) Red: 0% (0/20)

### D07 | MLBS (Mountain Lake Biological Station )

<u> </u>																			
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						

Flown: 71% (24/34) Green: 68% (23/34) Yellow: 3% (1/34) Red: 0% (0/34)

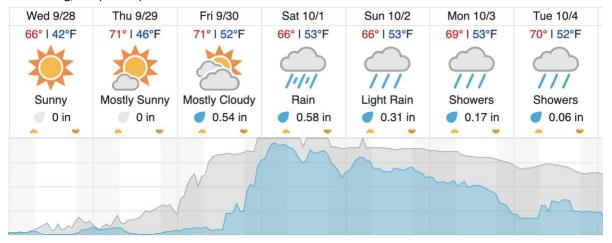
## D07 N07A (D07 Nominal Runway)

1

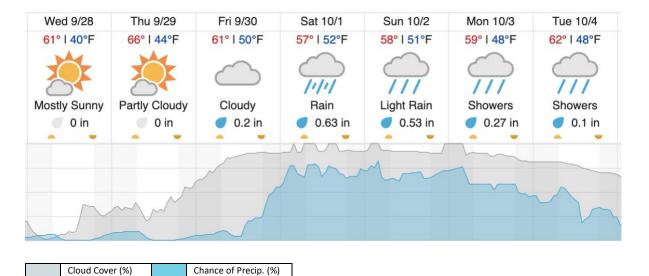
Flown: 0% (0/1) Green: 0% (0/1) Yellow: 0% (0/1) Red: 0% (0/1)

#### **Weather Forecast**

## Gatlinburg, TN (GRSM)



## Pembroke, VA (MLBS)



source: wunderground.com

### Flight Collection Plan for 28 September 2022

Flyority 1

Collection Area: Mountain Lake Biological Station (MLBS) If Green 29-34 & 2-5

Flight Plan Name: D07\_MLBS\_R1\_P1\_v6\_PRM.xml

40° On-station Time: 15:00 UTC /11:00L

Flyority 2 (*If Green 1 -33*)

Collection Area: Great Smokey Mountains National Park (GRSM) – Priority 1 Flight Box – Variable Altitude Plan

Flight Plan Name: D07\_GRSM\_R1\_P1\_P2\_v5\_PRM\_Var\_Alt.xml

40° On-station Time: 15:00 UTC /11:00L

Flyority 3

Collection Area: Great Smokey Mountains National Park (GRSM) – Priority 2 Flight Box – Variable Altitude Plan

Flight Plan Name: D07\_GRSM\_R1\_P1\_P2\_v5\_PRM\_Var\_Alt.xml

40° On-station Time: 14:50 UTC / 10:50L

Flyority 4

Collection Area: Nominal Runway - D07

Flight Plan Name: D07\_N07A\_Nominal\_Runway\_Test\_v2\_PRM.xml

40° On-station Time: N/A

Crew: Mitch (Lidar), Cam (NIS), Elissa (Ground)