



Payload 2 Daily Flight Report



**Date:** 2026-06-24  
**Flight Campaign ID:** P2C1  
**Airport, FBO ID, City:** Asheville Regional Airport (KAVL) - Fletcher, NC  
**Aircraft:** N821AR

**Domain:** 07 (Appalachians & Cumberland Plateau)  
**Sites Flown:** None  
**Days left in Domain:** 9

**Report Author:** Elissa  
**Lidar Operators:** Elissa      **Flight Hours:** 00:00  
**Spectrometer Operators:** Mitch      **Hours until maintenance:** 0.00  
**Pilots:** Justin, Skylar

**Summary**

A high overcast layer remained in place over GRSM and ORNL for the duration of solar angle, while low cumulus quickly formed at MLBS. No flights were attempted.

**Concerns**

None.

**Comments**

Alyssa arrives in Asheville tonight.

**Cumulative Domain Coverage**

Estimated Cloud Cover Key

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

Solar Angle Less Than 40 degrees: (\*)

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: 100% (69/69)

Green: 62% (43/69)

Yellow: 14% (10/69)

Red: 23% (16/69)

\* Flown within 35deg solar angle

### 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
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Flown: 100% (20/20)

Green: 0% (0/20)

Yellow: 0% (0/20)

Red: 100% (20/20)

\* Flown within 35deg solar angle

### D07 | MLBS (Mountain Lake Biological 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	27	28	29	30	31	32	33	34						

Flown: 0% (0/34)

Green: 0% (0/34)

Yellow: 0% (0/34)

Red: 0% (0/34)

\* Flown within 35deg solar angle

### D07 | ORNL (Oak Ridge National Laboratory)

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																			

Flown: 77% (47/61)

Green: 28% (17/61)

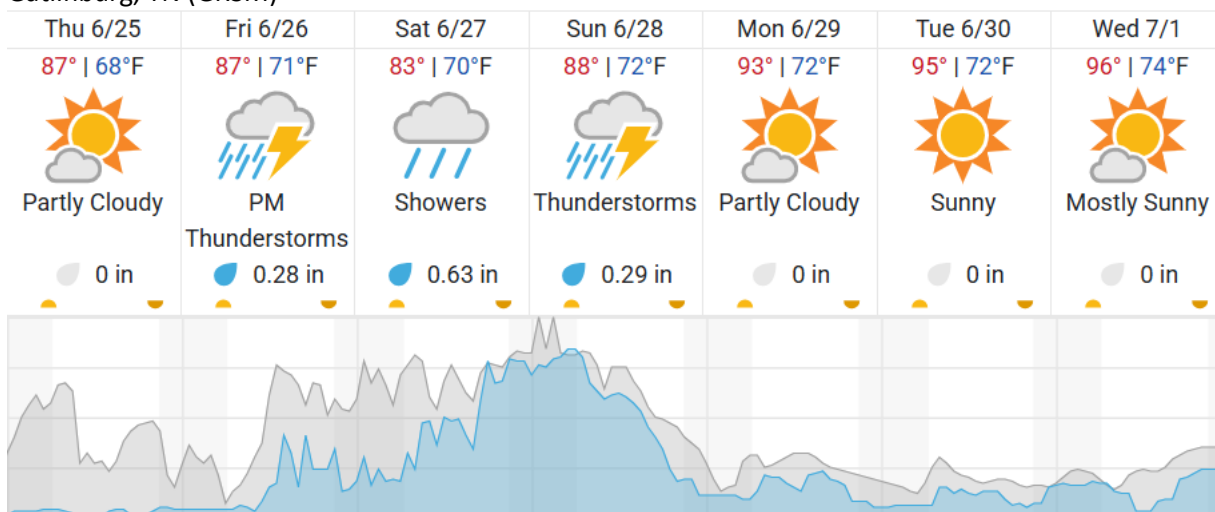
Yellow: 5% (3/61)

Red: 44% (27/61)

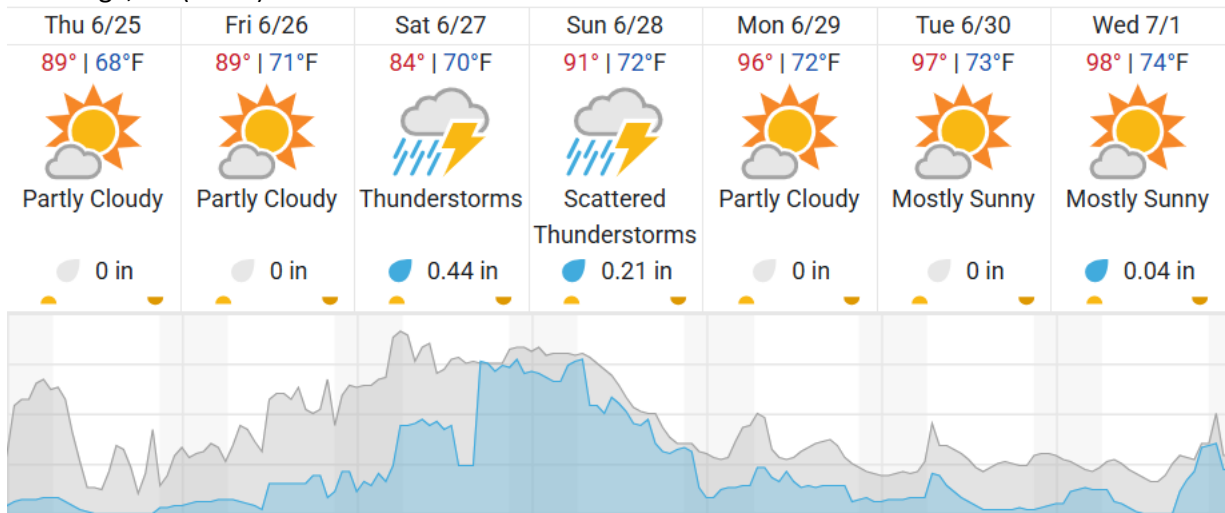
\* Flown within 35deg solar angle

## Weather Forecast

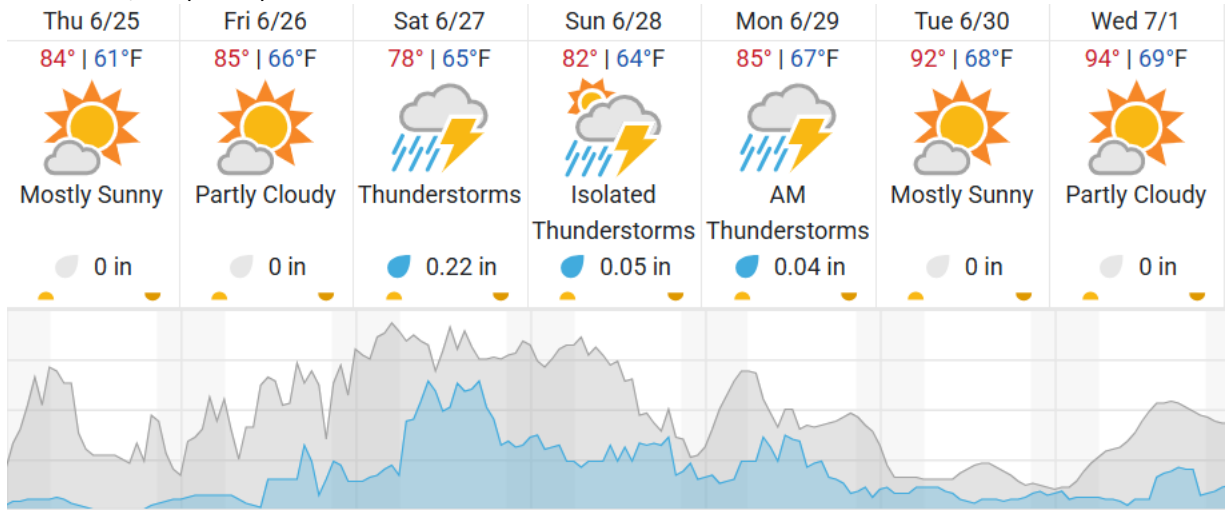
### Gatlinburg, TN (GRSM)



Oak Ridge, TN (ORNL)



Pembroke, VA (MLBS)



source: wunderground.com

**Flight Collection Plan for 25 June 2026**

**Flyority 1**

Collection Area: Great Smoky Mountains National Park (GRSM) – Priority 1 Flight Box

Flight Plan Name: D07\_D07\_GRSM\_R1\_P1\_v6\_VarAlt\_VQ780

40° On-station Time: 14:00 UTC /10:00L

**Flyority 2**

Collection Area: Oak Ridge National Laboratory (ORNL)

Flight Plan Name: D07\_ORNL\_C1\_P1\_v11\_west\_VQ780 (lines 1-37, 60) / D07\_ORNL\_C1\_P1\_v11\_east\_VQ780

40° On-station Time: 14:00 UTC / 10:00L

**Flyority 3**

Collection Area: Mountain Lake Biological Station (MLBS)

Flight Plan Name: D07\_MLBS\_R1\_P1\_v8\_VQ780

40° On-station Time: 13:50 UTC /09:50L

Flyority 4

Collection Area: Great Smoky Mountains National Park (GRSM) – Priority 2 Flight Box

Flight Plan Name: D07\_ D07\_GRSM\_R1\_P2\_v6\_VarAlt\_VQ780

40° On-station Time: 14:00 UTC /10:00L

**Crew:** Mitch (Lidar), Elissa (NIS), Alyssa (Ground)