



Payload 2 Daily Flight Report



**Date:** 2026-06-16  
**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:** 17

**Report Author:** Mitch  
**Lidar Operators:** Mitch                      **Flight Hours:** 00:00  
**Spectrometer Operators:** Elissa      **Hours until maintenance:** 26.43  
**Pilots:** Justin, Skylar

**Summary**

High cirrus and stratus cloud layers were present over the region this morning. The crew mobilized to the airport and towed the aircraft out with the intent of collecting initial coverage over the remaining unflown GRSM lines. However prior to takeoff, developing cumulus clouds appeared on park webcams, low enough along the ridgelines to obstruct the planned flight lines. The mission was subsequently scrubbed, and the aircraft was towed back into the hangar.

**Concerns**

None

**Comments**

None

**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: 72% (50/69)  
 Green: 32% (22/69)  
 Yellow: 17% (12/69)  
 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 |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|

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: 61% (37/61)

Green: 28% (17/61)

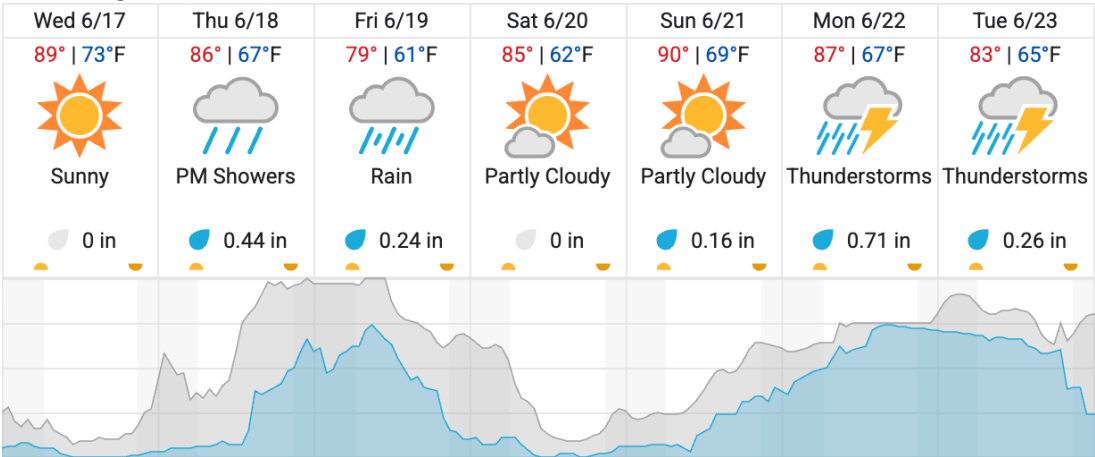
Yellow: 0% (0/61)

Red: 33% (20/61)

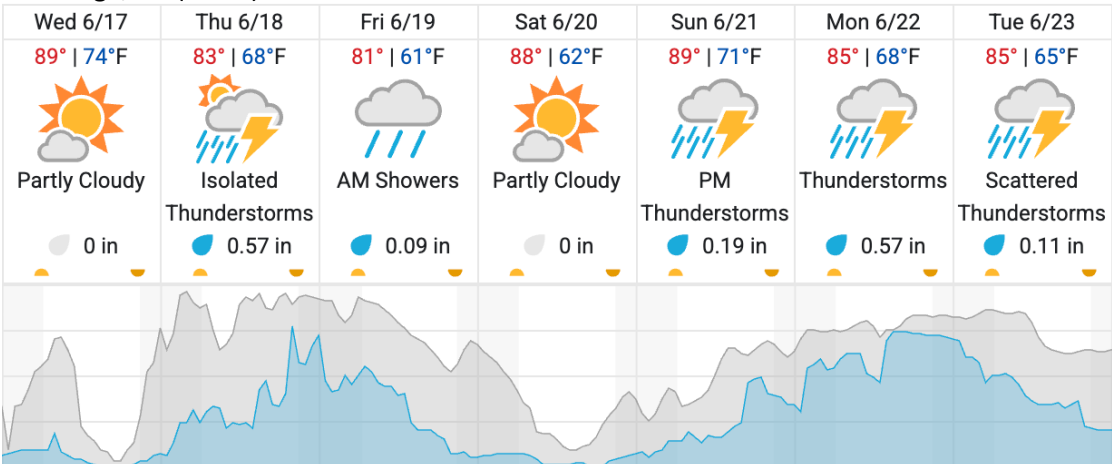
\* Flown within 35deg solar angle

Weather Forecast

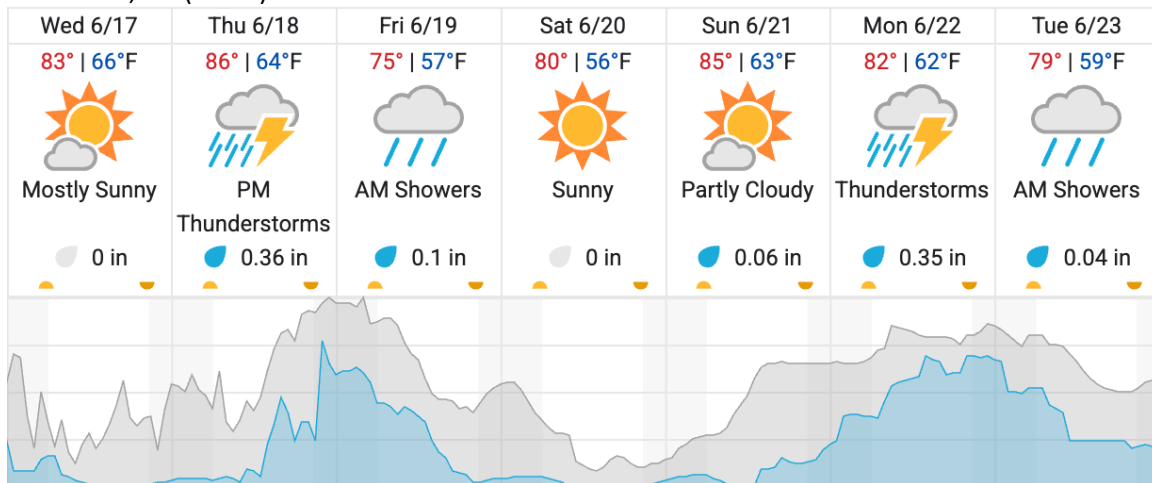
Gatlinburg, TN (GRSM)



Oak Ridge, TN (ORNL)



Pembroke, VA (MLBS)



source: wunderground.com

**Flight Collection Plan for June 17, 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: Elissa (Lidar), Mitch (NIS)