



Payload 2 Daily Flight Report

Date: 2026-05-19

Flight Campaign ID: P2C1

Airport, FBO ID, City: Bessemer Municipal Airport - Mitchell Field (KEY) - Bessemer, AL;
Asheville Regional Airport (KAVL) - Fletcher, NC

Aircraft: N821AR

Domain: 07 (Appalachians & Cumberland Plateau)

Sites Flown: Transit ()

Days left in Domain: 45

Report Author: Cameron

Lidar Operators: n/a **Flight Hours:** 01:48

Spectrometer Operators: n/a **Hours until maintenance:** 41.03

Pilots: Jonathon, Justin

Adt'l Flight Crew: Cameron **Ground Crew:** Mitch

Summary

The crew completed the transit from Bessemer AL (D08) to Ashville NC (D07).

Concerns

- Crew arrived in Asheville during a shift change and it took 2.5 hours to fuel and tow into the hangar.

Comments

- HKR set up.

Daily Coverage

Estimated Cloud Cover Key

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

Solar Angle Less Than 40 degrees: (*)

Pictures: Flying over the Blue Ridge Mountains as the crew nears Asheville, NC



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: 0% (0/69)

Green: 0% (0/69)

Yellow: 0% (0/69)

Red: 0% (0/69)

* 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: 0% (0/20)

Green: 0% (0/20)

Yellow: 0% (0/20)

Red: 0% (0/20)

* 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: 0% (0/61)

Green: 0% (0/61)

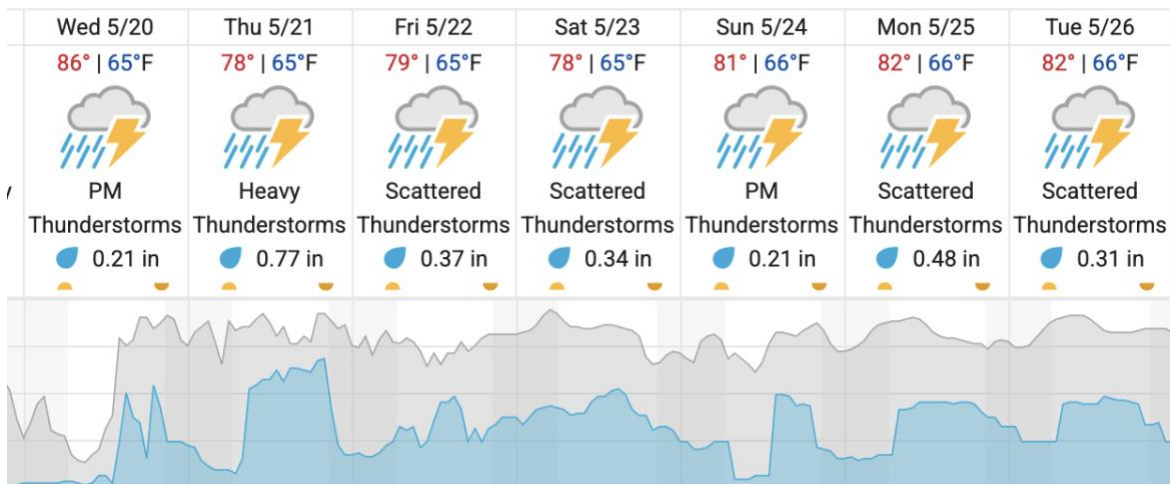
Yellow: 0% (0/61)

Red: 0% (0/61)

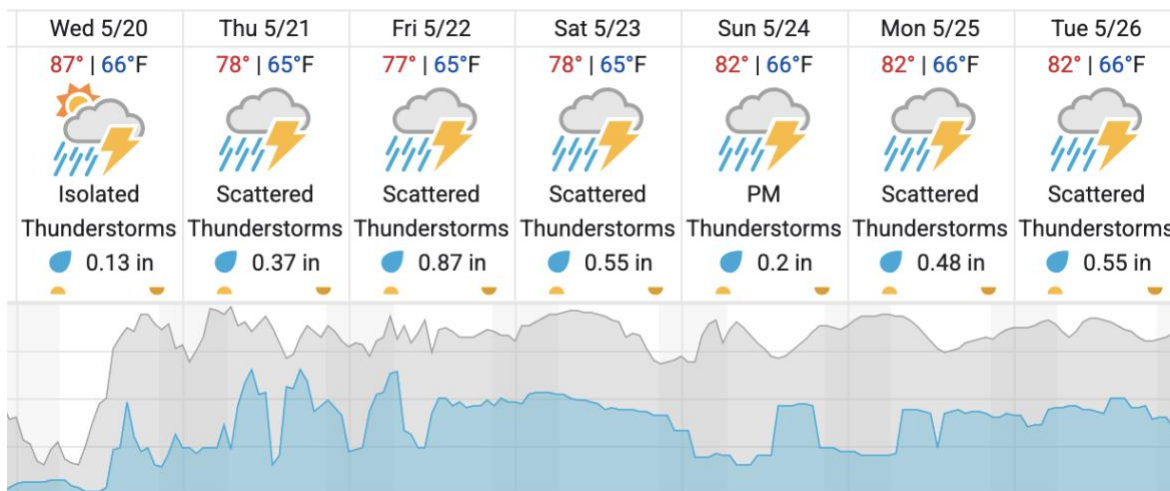
* Flown within 35deg solar angle

Weather Forecast

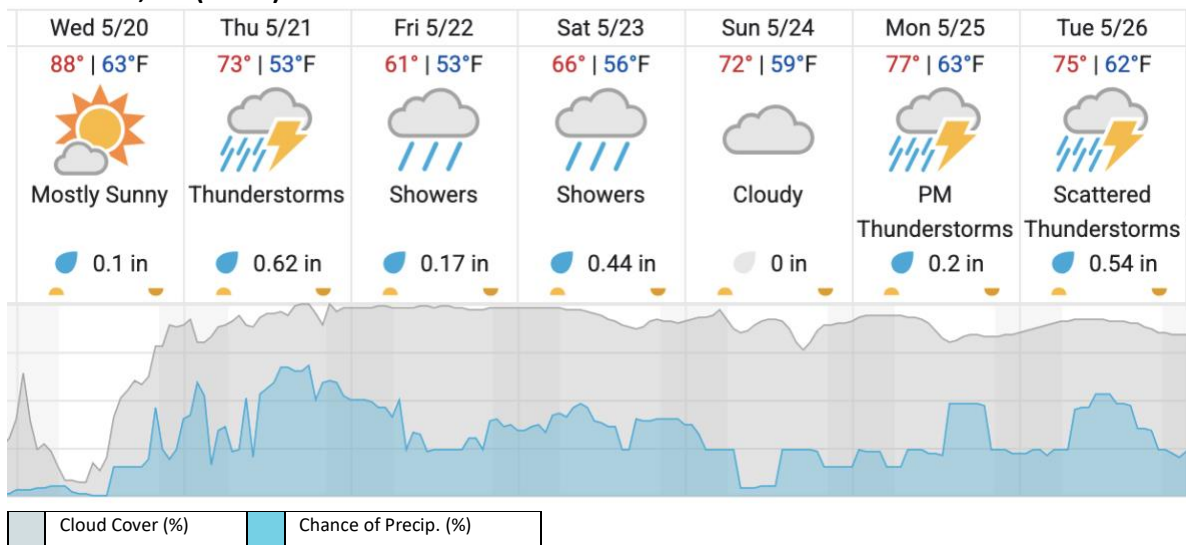
Gatlinburg, TN (GRSM)



Oak Ridge, TN (ORNL)



Pembroke, VA (MLBS)



source: wunderground.com

Flight Collection Plan for May 20, 2026

Flyority 1

Collection Area: Oak Ridge National Laboratory (ORNL)
 Flight Plan Name: D07_ D07_GRSM_R1_P1_v6_VarAlt_VQ780
 40o 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 (lines 38-59, 61)
 40o 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
 40o On-station Time: 13:50 UTC /09:50L

Flyority 4

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 (lines 38-59, 61)
 40o On-station Time: 14:00 UTC /10:00L

Crew: Mitch (Lidar), Cam (NIS)