

# Payload 3 Daily Flight Report



Date: 2022-05-30 Flight Campaign ID: P3C1 Airport, FBO ID, City: Asheville Regional Airport (KAVL) - Fletcher, NC Aircraft: N70AR

**Domain**: 07 (Appalachians & Cumberland Plateau) **Sites Flown**: ORNL (Oak Ridge National Laboratory) **Days left in Domain**: 5

Report Author: ElissaFlight Hours: 03:33Lidar Operators: ElissaFlight Hours: 03:33Spectrometer Operators: JohnHours until maintenance: 67.45Pilots: Nick, RobbieGPS Instruments: 09 - FBO\_KAVL, TDOT-TN10, TDOT-TN16, TDOT-TN14

# Summary

Despite a rainy morning in Asheville, we were able to make it over the mountains to Oak Ridge. Once again a mix of haze, cirrus, and cumulus awaited us, but we successfully collected the remaining ORNL lines in mixed yellow and green conditions.

## Concerns

None.

# Comments

Extraction and QA of yesterday's flight completed without errors on Hotel Kit 5. We will contact park staff tomorrow about scheduling a GRSM site visit to troubleshoot the GPS station.

## **Daily Coverage**

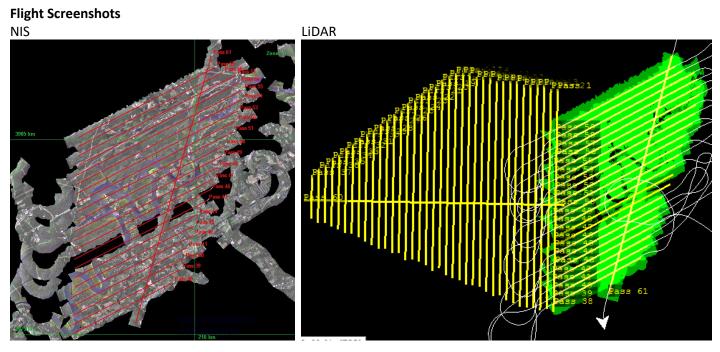
Estimated Cloud Cover Key

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

# D07|ORNL

Line #	38	39	40	41	42	43	44	47	48	49	50	51	52	53	54	55	56	57	58	59
Lidar	$\checkmark$																			
Spectrometer	$\checkmark$																			
Camera	$\checkmark$																			
Cloud Cover																				

Total number of lines flown: 20



Pictures



Melton Hill Lake, part of the ORNL site watershed. Photo by Elissa.

#### **Cumulative Domain Coverage**

#### D07 | F07A (BRDF Flight over ORNL)

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

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

#### 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: 14% (10/69) Green: 14% (10/69) 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
70	1	12	,,	/4	75	70	//	10	75	00	10	02	05	04	05	00	07	00	05
Flown	Flown: 0% (0/20)																		
Green	: 0%	(0/20)																	

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

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

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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)

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

 				<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	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

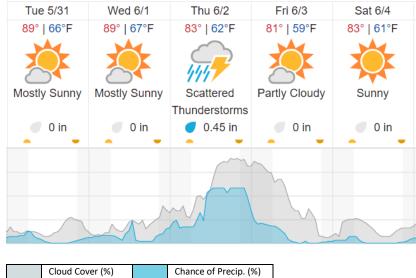
```
61
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Flown: 100% (61/61) Green: 38% (23/61) Yellow: 56% (34/61) Red: 7% (4/61)

## Weather Forecast

#### Asheville, NC (KAVL) Tue 5/31 Wed 6/1 Thu 6/2 Fri 6/3 Sat 6/4 Sun 6/5 Mon 6/6 84° | 60°F 85° | 61°F 77° | 56°F 82° | 61°F 75° | 55°F 78° | 59°F 79° | 60°F Mostly Sunny Partly Cloudy Mostly Sunny ΡM AM Clouds/PM Partly Cloudy Isolated Sun Thunderstorms Thunderstorms 🔵 0 in 🔵 0 in 🔵 0.08 in 🔵 0 in 🔵 0 in 🔵 0 in **0.05** in

# Oak Ridge, TN (ORNL)



source: wunderground.com

## Flight Collection Plan for 31 May 2022

# Flyority 1 (if green):

Collection Area: Oak Ridge National Laboratory (ORNL) Flight Plan Name: D07\_ORNL\_C1\_P1\_v9\_PRM.xml On-Station Time: 1400 UTC / 1000 L

Crew: John (Lidar), Elissa (NIS)