



## June 16, 2018 Payload 3 Daily Flight Report



**Date:** 2018-06-16

**Flight Campaign ID:** 2018\_P3C1

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

**Domain:** 07

**Sites Flown:** GRSM\_P1 (Great Smoky Mountains National Park Priority 1 )

**Days left in Domain:** 9

**Report Author:** Ivana Vu

**Flight Crew:** Ivana Vu, Abe Morrison

**Ground/GPS:** Abe Morrison

**Pilots:** Gina Moore, Mike Francis

**Additional Personnel:** None

**GPS Instruments:** 08 - GRSM, 09 - FBO\_KAVL

**Flight Hours:** 03:16

**Hours until maintenance:** 99.25

### Summary

The tower camera at Mountain Lake Biological Station showed high cirrus over the site, so crew focused on collecting at the Great Smoky Mountains today. Sixteen lines were completed under yellow and red sky conditions before cumulus clouds at or below survey altitude developed throughout the entire region.

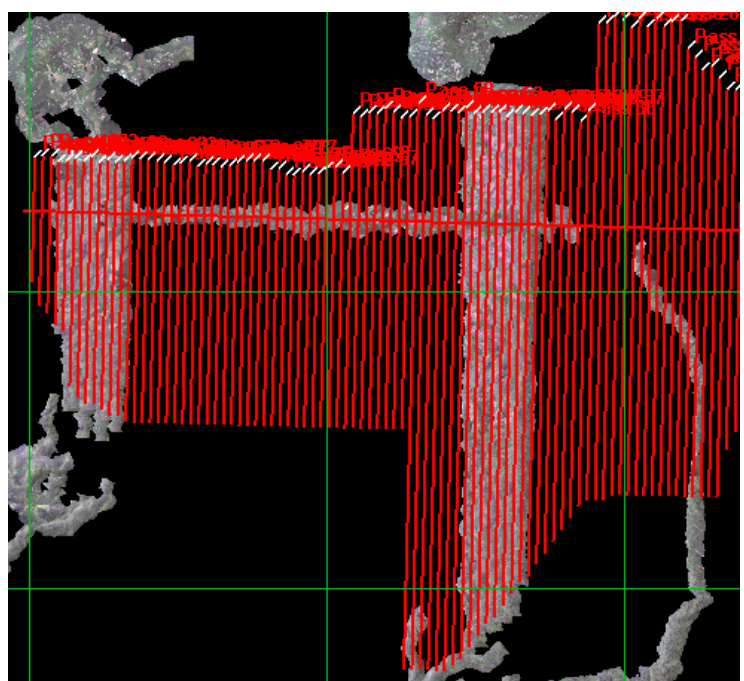
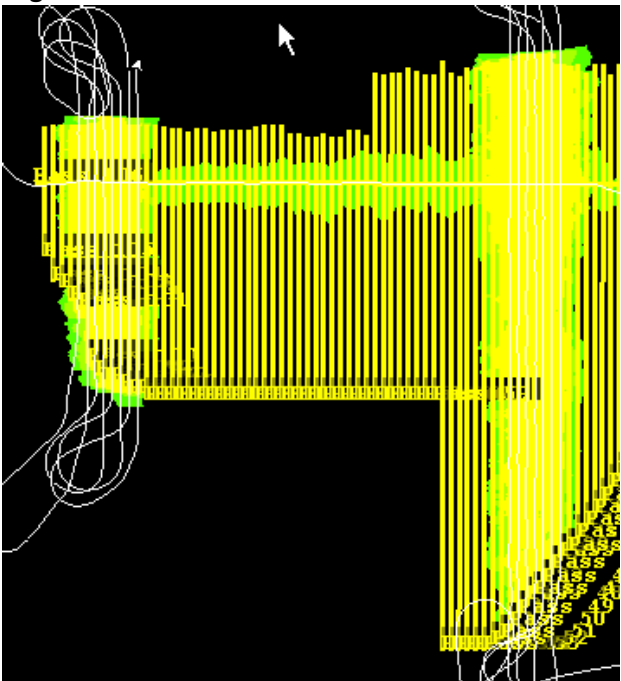
### Concerns

None

### Comments

Pilot rotation: Dylan Malfatti arrived to replace Mike Francis. Welcome Dylan, and thanks Mike!

### Flight Screenshots



**Pictures**

Cumulus clouds developing over the Great Smoky Mountains



**Daily Coverage**

D07 GRSM_P1	Line	SpecG	SpecY	SpecR	NIS	Lidar	Camera	Cumulative
	44				✓	✓	✗	NL
	45				✓	✓	✓	NLC
	46				✓	✓	✓	NLC
	47				✓	✓	✓	NLC
	48				✓	✓	✓	NLC
	49				✓	✓	✓	NLC
	50				✓	✓	✓	NLC
	94				✓	✓	✓	NLC
	95				✓	✓	✓	NLC
	96				✓	✓	✓	NLC
	97				✓	✓	✓	NLC
	98				✓	✓	✓	NLC
	99				✓	✓	✓	NLC
	100				✓	✓	✓	NLC
	101				✓	✓	✓	NLC
	106				✓	✓	✓	NLC
Flown:	16							

## Cumulative Domain Coverage

### Lidar and Camera Flights without Spectrometer

Camera Boresight at GRSM

Nominal Forest Survey at GRSM

MLBS: Lines 1, 6-25

GRSM\_P1: Lines 1, 51-73, 102-106

#### GRSM\_P1

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	70	71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
101	102	103	104	105	106														

Flown: 15% (16/106)

Green: 0% (0/106)

Yellow: 11% (12/106)

Red: 4% (4/106)

#### GRSM\_P2

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												

Flown: 0% (0/68)

Green: 0% (0/68)

Yellow: 0% (0/68)

Red: 0% (0/68)

#### MLBS

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: 100% (34/34)

Green: 0% (0/34)

Yellow: 0% (0/34)

Red: 100% (34/34)

#### ORNL

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: 100% (61/61)

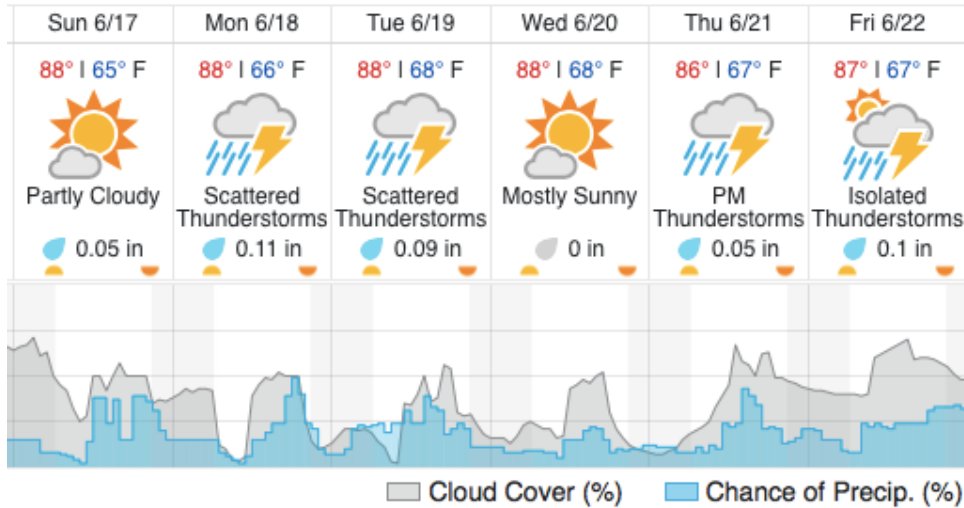
Green: 25% (15/61)

Yellow: 61% (37/61)

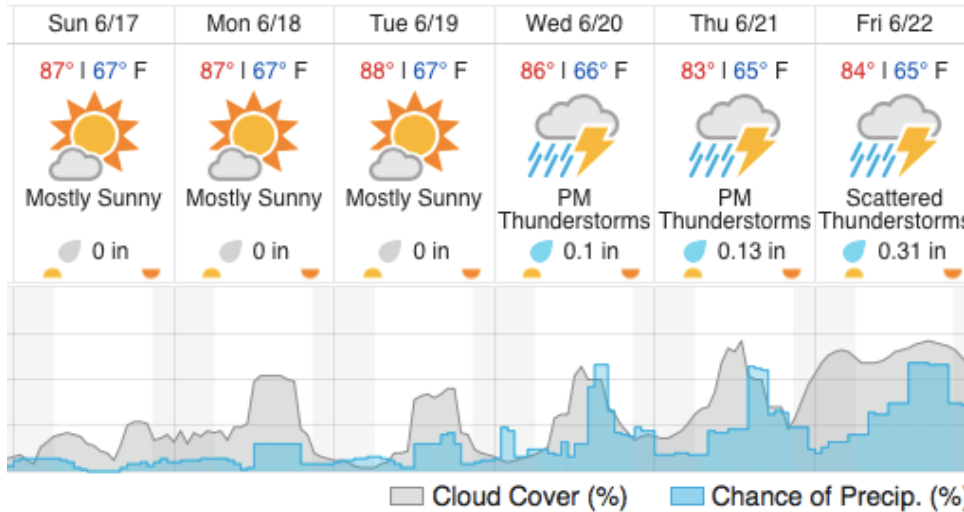
Red: 18% (11/61)

## Weather Forecast

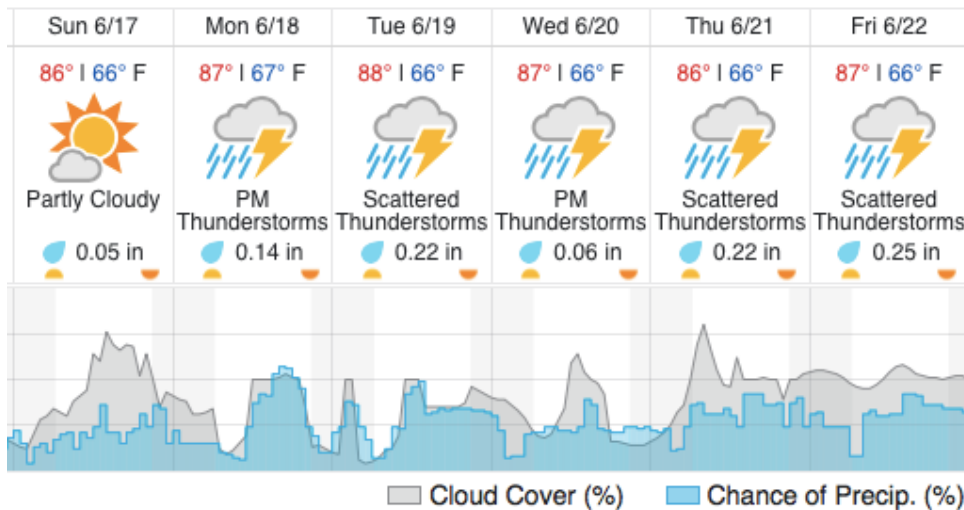
Asheville, NC (FBO)



Pembroke, VA (MLBS)

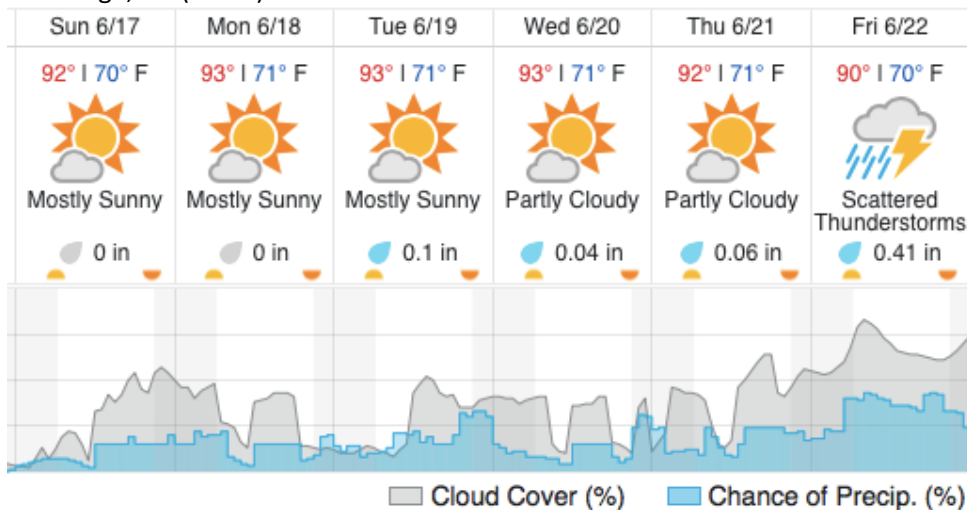


Gatlinburg, TN (GRSM)





## Oak Ridge, TN (ORNL)



### Flight Collection Plan for 17 June 2018

#### **Flyority 1:**

Collection Area: Mountain Lake Biological Station (MLBS) **\*\*If Green Conditions\*\***

Flight Plan Name: D07\_MLBS\_R1\_P1\_v6\_Q780

On-station Time: 1340 UTC / 0940 L

#### **Flyority 2:**

Collection Area: Great Smoky Mountains National Park – Priority 1 Flight Box (GRSM\_P1)

Flight Plan Name: D07\_GRSM\_R2\_P1\_v2\_Q780

On-station Time: 1350 UTC / 0950 L

#### **Flyority 3:**

Collection Area: Great Smoky Mountains National Park – Priority 2 Flight Box (GRSM\_P2)

Flight Plan Name: D07\_GRSM\_R2\_P2\_v2\_east\_Q780 / D07\_GRSM\_R2\_P2\_v2\_west\_Q780

On-station Time: 1350 UTC / 0950 L

#### **Flyority 4:**

Collection Area: Oak Ridge National Laboratory (ORNL)

Flight Plan Name: D07\_ORNL\_C1\_P1\_v10\_east\_Q780 / D07\_ORNL\_C1\_P1\_v10\_west\_Q780

On-station Time: 1400 UTC / 1000 L

**Crew:** Abe Morrison (Lidar), Ivana Vu (NIS)

### Flight Collection Plan for 18 June 2018

**Crew:** Ivana Vu (Lidar), Abe Morrison (NIS)