



## May 13, 2018 Payload 3 Daily Flight Report



**Date:** 2018-05-13

**Flight Campaign ID:** 2018\_P3C1

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

**Domain:** 00, 07

**Sites Flown:** ORNL (Oak Ridge National Laboratory), TRAIN (Training)

**Days left in Domain:** 34

**Report Author:** John Adler

**Flight Crew:** Ivana Vu, John Adler, Robb Walker

**Ground/GPS:** Robb Walker

**Pilots:** Mike Francis, Paul Muth

**Additional Personnel:** none

**GPS Instruments:** 09 - FBO\_KAVL, C-TN16, TDOT-TN1A

**Flight Hours:** 04:06

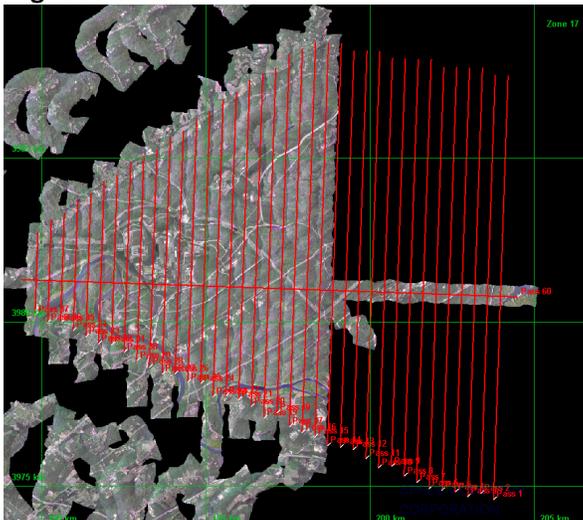
**Hours until maintenance:** 25.45

**Summary:** There were cirrus clouds on the low horizon, with sporadic cumulus overhead. Considerable haze is present everywhere (see photo below). John finished his recertification flights on the Riegl lidar system.

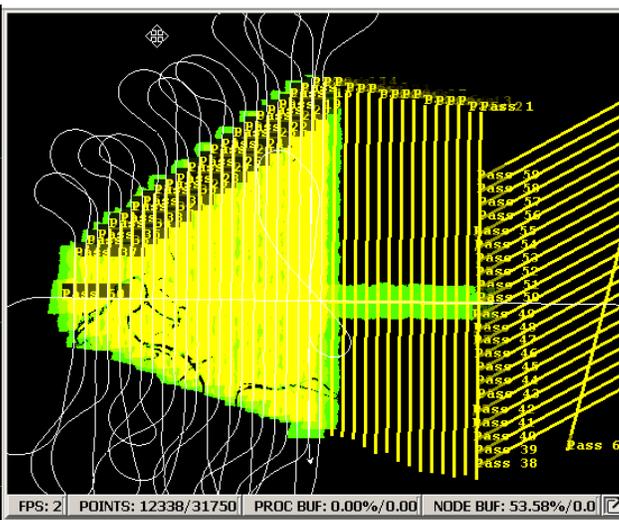
**Concerns:** Hotelkit 3 was not able to extract yesterday's flight from Disc Set 4; working with Tristan to fix this problem.

**Comments:** ORNL has complete lidar coverage now. Cameron Chapman is to arrive in Asheville this evening, while Ivana is driving to MLBS to set up the automated wifi GPS system. Tomorrow Robb is to return to Boulder.

### Flight Screenshots:



Spectrometer



Lidar

**Pictures:**



Considerable haze over ORNL.

**Daily Coverage:**

D07 ORNL	Line	SpecG	SpecY	SpecR	NIS	Lidar	Camera	Cumulative
	15				✓	✓	×	NL
	16				✓	✓	×	NL
	17				✓	✓	×	NL
	18				✓	✓	×	NL
	19				✓	✓	×	NL
	20				✓	✓	×	NL
	21				✓	✓	×	NL
	22				✓	✓	×	NL
	23				✓	✓	×	NL
	24				✓	✓	×	NL
	25				✓	✓	×	NL
	26				✓	✓	×	NL
	27				✓	✓	×	NL
	28				✓	✓	×	NL
	29				✓	✓	×	NL
	30				✓	✓	×	NL
	31				✓	✓	×	NL
	32				✓	✓	×	NL
	33				✓	✓	×	NL
	34				✓	✓	×	NL
	35				✓	✓	×	NL
	36				✓	✓	×	NL
	37				✓	✓	×	NL

	60				✓	✓	✗	NL
Flown:	24							

### Cumulative Domain Coverage

#### 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: 0% (0/106)

Green: 0% (0/106)

Yellow: 0% (0/106)

Red: 0% (0/106)

#### 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: 0% (0/34)

Green: 0% (0/34)

Yellow: 0% (0/34)

Red: 0% (0/34)

#### 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																			

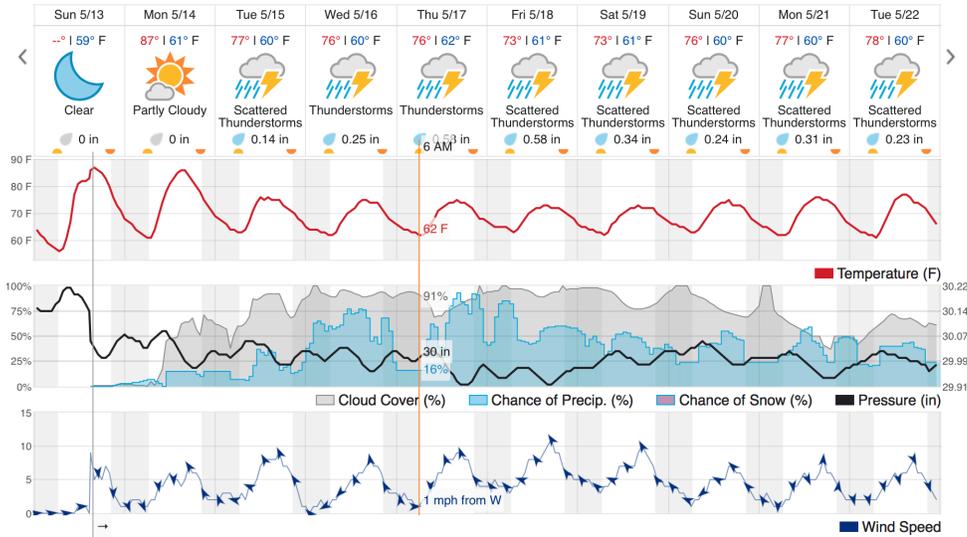
Flown: 100% (61/61)

Green: 25% (15/61)

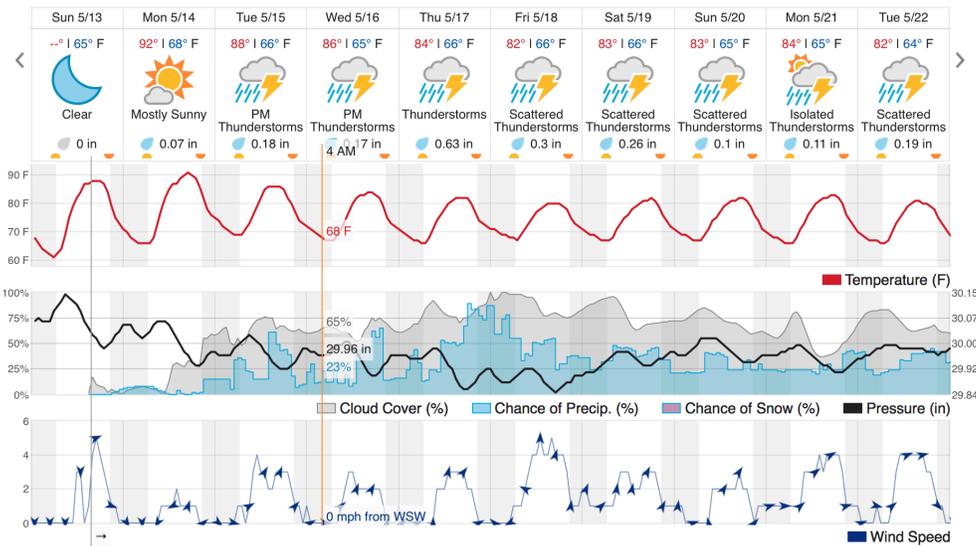
Yellow: 61% (37/61)

Red: 18% (11/61)

## Weather Forecast:



## Asheville, NC



## Oak Ridge, NT

### Flight Collection Plan for 14May 2018:

#### Flyerity 1:

Collection Area: Oak Ridge National Laboratory (ORNL) if Green conditions.

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: John Adler (lidar), Cameron Chapman (NIS)

### Flight Collection Plan for 15May 2018

#### Flyerity 1:

Collection Area: Oak Ridge National Laboratory (ORNL) if Green conditions.

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: Cameron Chapman (lidar), John Adler (NIS)

**Starting 19 May 2018**

**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: 1400 UTC / 1000 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: 1400 UTC / 1000 L

**Starting 25 May 2018**

**Flyority 1:**

Collection Area: Mountain Lake Biological Station (MLBS)

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

On-station Time: 1340 UTC / 0940 L