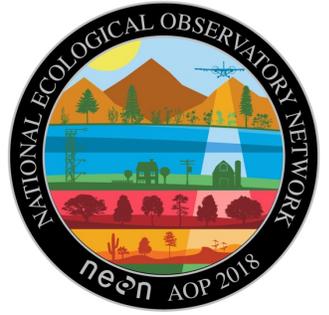




June 20, 2018 Payload 3 Daily Flight Report



Date: 2018-06-20

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: 3

Report Author: Mitch Haynes

Flight Crew: Mitch Haynes, Heather Rogers, Cameron Chapman

Ground/GPS: None

Pilots: Dylan Malfatti, Gina Moore

Additional Personnel:

GPS Instruments: 09 - FBO_KAVL, C-TN16, TDOT-TN1A

Flight Hours: 01:49

Hours until maintenance: 95.80

Summary

Attempted collect of Great Smokies but was skunked by clouds upon arrival. Flight's primary purpose then shifted from mission to training flight, completing 3 lines in between clouds at Oak Ridge as part of Heather's Riegl training regiment.

Concerns

- Database crashed several times during flight
- GRSM_P1 Flight Plan .rpp file failed to load in RiAcquire, and appeared to be corrupted. Was resolved by loaded a new version of the flight plan onto the Cam-PC from Dropbox.

Comments

Data from today's training flight will not be extracted

Pictures Low clouds over the Smokies



Daily Coverage

D07	ORNL	Line	SpecG	SpecY	SpecR	NIS	Lidar	Camera	Cumulative
		26				✓	✓	✓	NLC
		27				✓	✓	✓	NLC
		28				✓	✓	✓	NLC
Flown:		3							

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: 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)

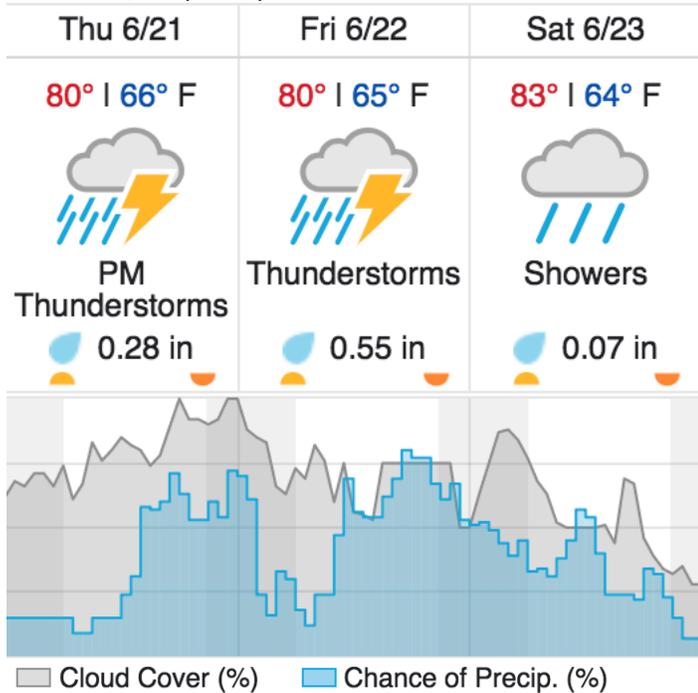
Green: 25% (15/61)

Yellow: 61% (37/61)

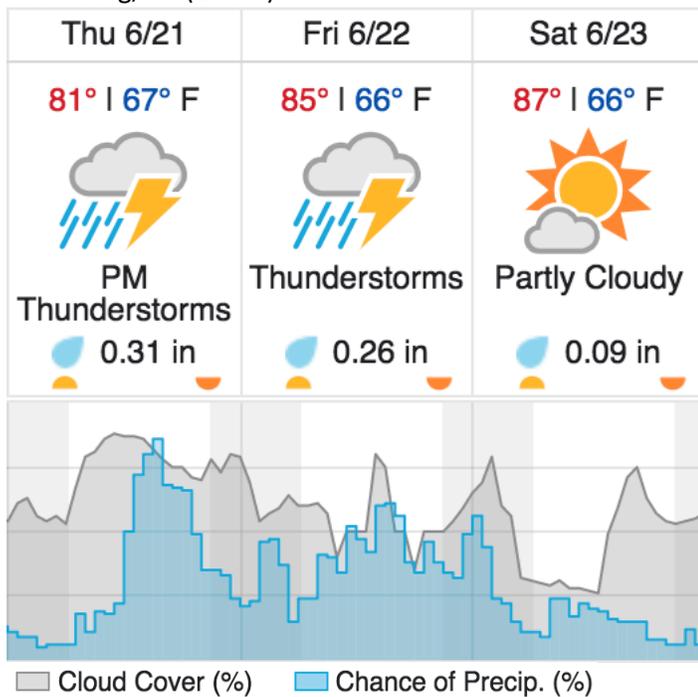
Red: 23% (14/61)

Weather Forecast

Pembroke, VA (MLBS)



Gatlinburg, TN (GRSM)



Flight Collection Plan for 21 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: Heather Rogers (Lidar), Cameron Chapman (Lidar Observer), Mitch Haynes (NIS)

On-Going Issues

Fault: Database	Ticket: INC0013090	Open Date: 4/2/2018
<p>Database crash during flight. Sometimes to both operators simultaneously, but also to both NIS and Lidar operator individually. This has been a re-occurring issue, but is only being added now.</p> <p>20180404 Database no longer crashes when minimizing and maximizing.</p> <p>20180410 Database experienced same network connection issues and crashed several times during both flights. Lidar Crystal Computer VNC was open on the DCC for training purposes.</p> <p>20180418 Database crashed in-flight, 2 times on NIS DCC computer and 3 times on Lidar Crystal computer.</p> <p>20180419 Database crashed on Lidar Crystal computer once on the ground during system startup and once in-flight on the NIS DCC computer. Andrew is investigating whether this is due to a networking issue.</p> <p>20180423 Database crashed on Lidar Crystal computer 4 times in-flight</p> <p>2018042413 Database crashed once on Lidar Crystal computer in-flight</p> <p>2018042716 Database crashed 2 times in-flight, simultaneously on the Lidar Crystal and NIS DCC computers</p> <p>2018042813 Database crashed once in-flight, simultaneously on the Lidar Crystal and NIS DCC computers</p> <p>2018042913 Database crashed on Lidar Crystal computer 3 times in-flight</p> <p>2018042918 Database crashed on Lidar Crystal 2 times and once on NIS DCC in-flight, at different times.</p> <p>2018043014 Database crashed on Lidar Crystal once and NIS DCC 4 times in-flight, at different times. Also crashed 3 times on both computers simultaneously.</p> <p>2018051212 Teldat power cable was replaced recently, however, database crashed 2 in-flight on Lidar Cyrstal computer</p> <p>2018062013 Database crashed several times during training flight.</p>		