Payload 1 Daily Flight Report

Date: 2021-06-28
Flight Campaign ID: P1C2
Airport, FBO ID, City: Asheville Regional Airport (KAVL) - Fletcher, NC
Aircraft: N331AR

Domain: 07 (Appalachians & Cumberland Plateau)
Sites Flown: None
Days left in Domain: 1

Report Author: Mitch Haynes
Lidar Operators: Mitch Haynes
Spectrometer Operators: Cameron Chapman
Pilots: Paul Nunemann, Nick Koukoutsakis
GPS Instruments: N/A

Flight Hours: 00:00
Hours until maintenance: 48.58

Summary
Surprisingly clear skies over GRSM had the crew mobilizing towards the airport this morning, however before serious actions could be taken, cumulus clouds quickly formed thwarting any attempt at a collect.

Concerns
• QA from Saturday’s flight in re-work; depending on how long it takes to clear, shipment of RAID may delayed till after our Fresno arrival.

Comments
Shipped the vacuum pump to Fresno today.

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: 33% (23/69)
Green: 14% (10/69)
Yellow: 4% (3/69)
Red: 14% (10/69)

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 |

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

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: 100% (34/34)
Green: 100% (34/34)
Yellow: 0% (0/34)
Red: 0% (0/34)
D07|N07A (D07 Nominal Runway)

Flown: 100% (1/1)
Green: 0% (0/1)
Yellow: 0% (0/1)
Red: 100% (1/1)

D07|ORNL (Oak Ridge National Laboratory)

Flown: 100% (61/61)
Green: 38% (23/61)
Yellow: 62% (38/61)
Red: 0% (0/61)

Weather Forecast

Flight Collection Plan for 29 June 2021

Flyority 1
Collection Area: Great Smoky Mountains National Park (GRSM) – Priority 1 Flight Box Flight Plan Name: D07_GRSM_R1_P1_P2_v5_PRM_Var_Alt.xml
On-Station Time: 1400 – 2100 UTC / 1000 – 1700 L

Flyority 2
Collection Area: Oak Ridge National Laboratory (ORNL) Flight Plan Name: D07_ORNL_C1_P1_v9_PRM_highPRF.xml On-Station Time: 1400 – 2100 UTC / 1000 – 1700 L
*only if green conditions exist

Flyority 3
Collection Area: Great Smoky Mountains National Park (GRSM) – Priority 2 Flight Box Flight Plan Name: D07_GRSM_R1_P1_P2_v5_PRM_Var_Alt.xml
On-Station Time: 1400 – 2100 UTC / 1000 – 1700 L

Crew: Cam & Mitch