



May 13, 2019 Payload 3 Daily Flight Report



Date: 2019-05-13

Flight Campaign ID: 2019_P3C1

Airport, FBO ID, City: Salt Lake City International Airport (KSLC) – Saint George, UT (KSGU) – KSGU - KSLC

Domain: 15

Sites Flown: LNLK (Lunar Lake Lidar Uncertainty Test), RRVY (Railroad Valley Radiometric Calibration)

Days left in Domain: 0

Report Author: Nick Marusich

Flight Crew: Nick Marusich, John Adler

Ground/GPS: Mitch Haynes

Pilots: Stephen Brawders, Jeff Quintanilla

Additional Personnel : None

GPS Instruments: C-ZLC1

Flight Hours: 6.9

Hours until maintenance: 59.07

Summary

Lunar Lake and Railroad Valley calibration flights were flown from Salt Lake City International airport with refueling stops in Saint George UT before and after collections. Conditions were green for Railroad Valley and developed to yellow during Lunar Lake.

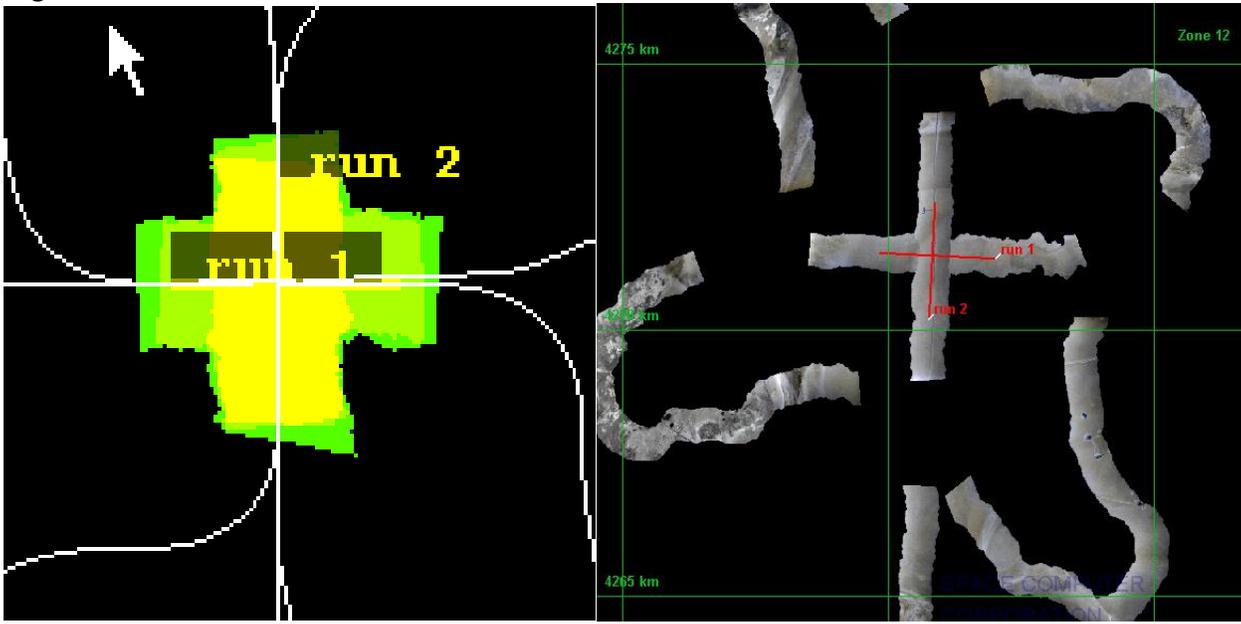
Concerns

- Payload camera did not function the entire flight. The Payload will stop in Boulder during transit to D6 for troubleshooting.
- Tracker GPS did not initially connect with the system and required several system restarts.
- GPS base station at Lunar Lake may not have been set up in time for first line.

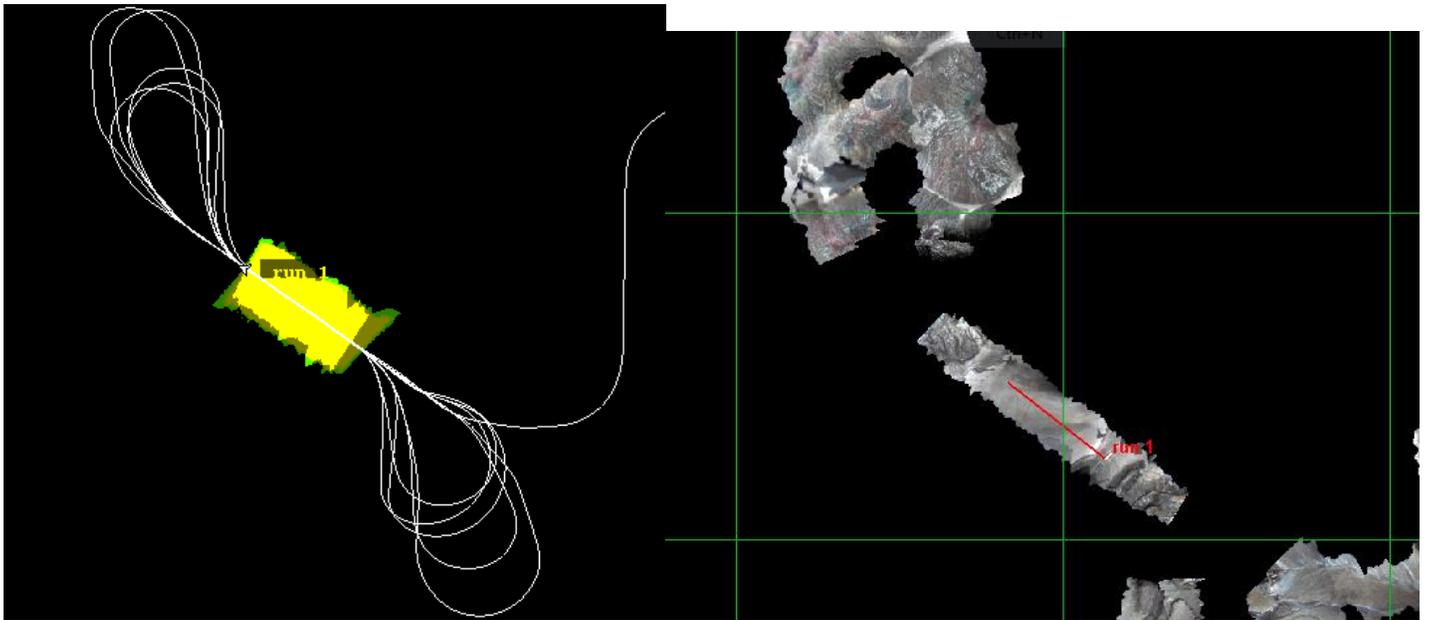
Comments

- D15 collections concluded 12 May 2019.
- Bridget Hass and David Hulslander deploy to collection area for ground data collection.
- Mitch Haynes rotates out. Thanks for all the great work.
- Elissa Barris arrives in D06.
- Vacuum pump was shipped to D6 in preparation for transit.
- RAID disk 06 was shipped.
- Saint George UT airport will close for runway resurfacing from end of May until September.

Flight Screenshots



Railroad Valley Lidar and NIS screenshots.



Lunar Lake Lidar and NIS Screenshots

Pictures



Above: Railroad Valley and Tarps Below: Canyons near Saint George UT



Cumulative Domain Coverage

RRVL

1	2	3	4	5
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Flown: 100% (5/5)

Green: 100% (5/5)

Yellow: 0% (0/5)

Red: 0% (0/5)

LNLK

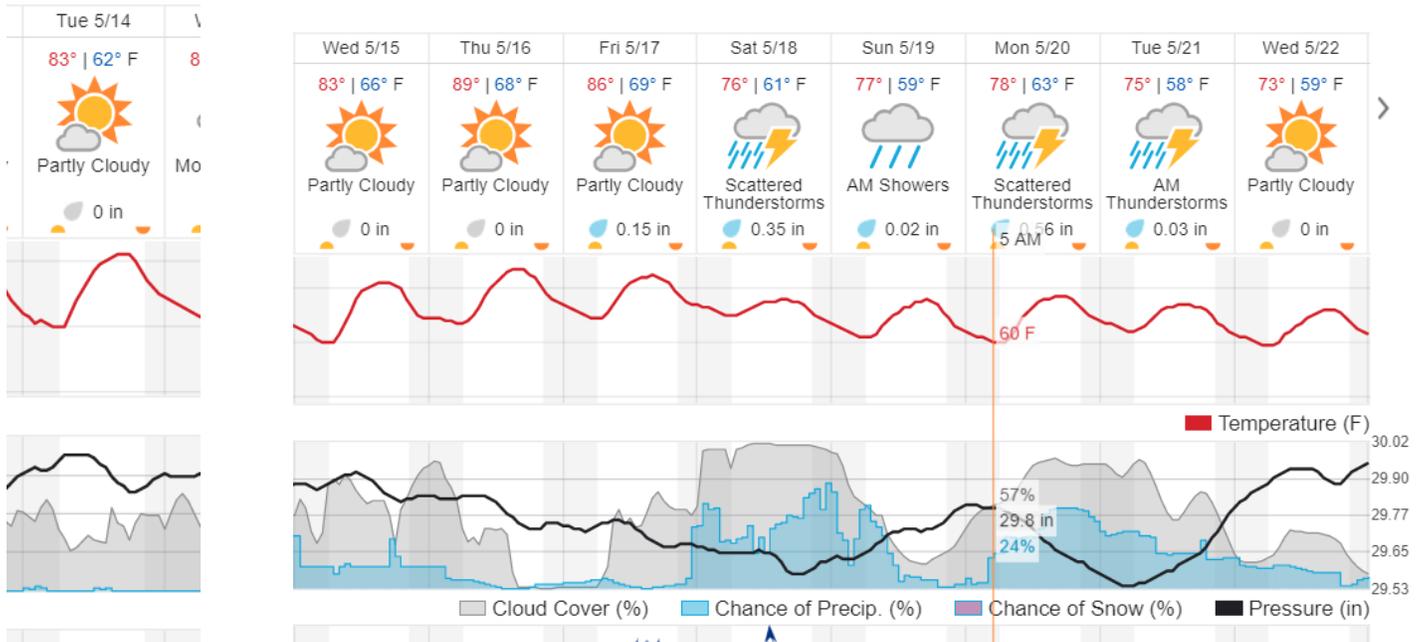
1	2	3	4	5	6	7	8	9	10	11
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Flown: 100% (11/11)
 Green: 0% (0/11)
 Yellow: 100% (11/11)
 Red: 0% (0/11)

Weather Forecast

Salt Lake City UT

Topeka KS



Flight Collection Plan for 14 May 2018

Transit to D06 (Topeka)

Crew: John Adler

Flight Collection Plan for 15 May 2019

Flyority 1

Collection Area: Konza Prairie Biological Station (KONZ) – Konza Agricultural Site (KONA)

Flight Plan Name: D06_KONZ_KONA_C1_P1_v4_Q780

On-station Time: 1450 – 2150Z

Flyority 2

Collection Area: University of Kansas Field Station (UKFS)

Flight Plan Name: D06_UKFS_R1_P1_v3_Q780

On-station Time: 1450 – 2150Z

Flyority 3

Collection Area: McDiffett Creek (MCDI)

Flight Plan Name: D06_MCDI_C1_P2_v3_Q780

On-station Time: 1450 – 2150Z

Crew: John Adler (Lidar), Elissa Barris (NIS), Nick Marusich (GPS/Ground)