

HU-25A Guardian - LaRC #524 05/19/21

NOTE: All flight reports will be archived as NASA public data in the DAAC.

Aircraft: [HU-25A Guardian - LaRC #524](#) (See full schedule)

Flight Number: ACTIVATE 21-063

Payload Configuration: ACTIVATE In Situ Suite

Nav Data Collected: No

Total Flight Time: 3.5 hours

Submitted by: Luke Delaney on 05/19/21

Flight Segments:

From:	KLFI	To:	klfi
Start:	05/19/21 13:30 Z	Finish:	05/19/21 17:00 Z
Flight Time:	3.5 hours		
Log Number:	21F001	PI:	Armin Sorooshian
Funding Source:	Hal Maring - NASA - SMD - ESD Radiation Science Program		
Purpose of Flight:	Science		
Miles Flown:	720 miles		
Comments:	<p>Science flight for the HU-25 in support of ACTIVATE Campaign #4, conducted cooperatively with the UC-12 (2nd flight of the day). Departed Rwy08 with direct vectors down the coastline to KMQI, climbing to 5k ft MSL for initial transit. Winds were light and variable for majority of the flight. Research profiles conducted to KMQI through 3437N/07404W-3401N/07354W-3300N/07337W-3200N/07321W-3437N/07404W-KMQI-KLFI. Clear air modules executed throughout flight from 500 – 5500 ft MSL, with some quick in-cloud data collection at the turn-around point leveraging an isolated cloud formation at ~3500 ft MSL. Aircraft geolocation was initially separated by ~45 nmi due to UC-12 takeoff delays based on airfield traffic saturation. Compensated by flying HU-25 slower than nominal airspeeds and working a 360 degree turn at 3437N/07404W before proceeding down track for CALIPSO overpass. Geolocation was within 3 nmi for overpass (~30 nmi prior to 3300N/07337W at 1852UTC) and remained with ~10 nmi for remainder of flight. Upon reaching shoreline at KMQI, proceeded directly to KLFI due to fuel limitations collecting data between 3000-5000 ft MSL. All objectives were achieved and with no discrepancies noted.</p>		

Flight Hour Summary:

	21F001
Flight Hours Approved in SOFRS	200
Total Used	159.6
Total Remaining	40.4

21F001 Flight Reports

Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining	Miles Flown
01/20/21	ACTIVATE 20-049	Science	3	3	197	700
01/27/21	ACTIVATE 20-049	Science	2.7	5.7	194.3	700
01/29/21	ACTIVATE 21-050	Science	3	8.7	191.3	664
02/03/21	ACTIVATE 21-051	Science	3.1	11.8	188.2	675
03/04/21	ACTIVATE 21-052	Science	3.1	14.9	185.1	675
03/05/21	ACTIVATE 21-054	Science	3.5	18.4	181.6	625
03/05/21	ACTIVATE 21-054	Science	3.2	21.6	178.4	675
03/08/21	ACTIVATE 21-055	Science	3.5	25.1	174.9	690
03/09/21	ACTIVATE 21-056	Science	3.3	28.4	171.6	745
03/12/21	ACTIVATE 21-057	Science	3.5	31.9	168.1	705
03/12/21	ACTIVATE 21-057	Science	3.5	35.4	164.6	705
03/20/21	ACTIVATE 21-xxx	Science	0	35.4	164.6	0

03/20/21	ACTIVATE 21-xxx	Science	0	35.4	164.6	0
03/20/21	ACTIVATE 21-058	Science	3.4	38.8	161.2	705
03/23/21	ACTIVATE 21-059	Science	3.4	42.2	157.8	705
03/25/21	ACTIVATE 21-059	Science	2.5	44.7	155.3	607
03/30/21	ACTIVATE 21-060	Science	3.3	48	152	700
03/30/21	ACTIVATE 21-061	Science	3.7	51.7	148.3	800
04/02/21	ACTIVATE 21-062	Science	3.5	55.2	144.8	720
04/02/21	ACTIVATE 21-063	Science	3.5	58.7	141.3	720
05/15/21	ACTIVATE 21-063	Science	3.5	62.2	137.8	722
05/18/21	ACTIVATE 21-063	Science	3.5	65.7	134.3	715
05/19/21	ACTIVATE 21-063	Science	3.4	69.1	130.9	715
05/19/21	ACTIVATE 21-063	Science	3.5	72.6	127.4	720
05/20/21	ACTIVATE 21-063	Science	3.3	75.9	124.1	710
05/21/21	ACTIVATE 21-063	Science	3.7	79.6	120.4	730
05/21/21	ACTIVATE 21-063	Science	3.4	83	117	730
05/25/21	ACTIVATE 21-063	Science	3.3	86.3	113.7	710
05/26/21	ACTIVATE 21-063	Science	3.3	89.6	110.4	700
05/26/21	ACTIVATE 21-063	Science	3.3	92.9	107.1	690
06/01/21	ACTIVATE 21-063	Science	3.4	96.3	103.7	720
06/01/21	ACTIVATE 21-063	Science	3.4	99.7	100.3	720
06/02/21	ACTIVATE 21-063	Science	3.3	103	97	720
06/02/21	ACTIVATE 21-063	Science	3.3	106.3	93.7	710
06/05/21	ACTIVATE 21-063	Science	3.2	109.5	90.5	700
06/07/21	ACTIVATE 21-063	Science	3.5	113	87	700
06/07/21	ACTIVATE 21-063	Science	3	116	84	650
06/08/21	ACTIVATE 21-xxx	Science	3.5	119.5	80.5	700
06/08/21	ACTIVATE 21-xxx	Science	3.5	123	77	700
06/15/21	ACTIVATE 21-15June	Science	3.1	126.1	73.9	680
06/16/21	ACTIVATE 21-16June	Science	3.5	129.6	70.4	730
06/17/21	ACTIVATE 21-17June	Science	3.2	132.8	67.2	710
06/22/21	ACTIVATE 21-22June	Science	3.3	136.1	63.9	680
06/24/21	ACTIVATE 21-24June	Science	3.3	139.4	60.6	700
06/26/21	ACTIVATE 26 June x2	Science	3.3	142.7	57.3	650
06/26/21	ACTIVATE 26 June x2	Science	3.4	146.1	53.9	650
06/28/21	ACTIVATE 28 June	Science	3.3	149.4	50.6	660
06/29/21	ACTIVATE 29 June	Science	3.4	152.8	47.2	670
06/30/21	ACTIVATE 30-1 June	Science	3.4	156.2	43.8	680
06/30/21	ACTIVATE 30-2 June	Science	3.4	159.6	40.4	680

Flight Reports began being entered into this system as of 2012 flights. If there were flights flown under an earlier log number the flight reports are not available online.

Page Last Updated: April 22, 2017

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Source URL: https://airbornescience.nasa.gov/flight_reports/HU-25A_Guardian_-_LaRC_524_05_19_21_0