

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

**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:**

<b>From:</b>	KLFI	<b>To:</b>	klfi
<b>Start:</b>	05/19/21 13:30 Z	<b>Finish:</b>	05/19/21 17:00 Z
<b>Flight Time:</b>	3.5 hours		
<b>Log Number:</b>	<a href="#">21F001</a>	<b>PI:</b>	Armin Sorooshian
<b>Funding Source:</b>	Barry Lefer - NASA - SMD - ESD Earth Venture Suborbital-3 Program		
<b>Purpose of Flight:</b>	Science		
<b>Miles Flown:</b>	720 miles		
<b>Comments:</b>	<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
<b>Flight Hours Approved in SOFRS</b>	200
<b>Total Used</b>	159.6
<b>Total Remaining</b>	40.4

21F001 Flight Reports						
Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining	Miles Flown
<a href="#">01/20/21</a>	ACTIVATE 20-049	Science	3	3	197	700
<a href="#">01/27/21</a>	ACTIVATE 20-049	Science	2.7	5.7	194.3	700
<a href="#">01/29/21</a>	ACTIVATE 21-050	Science	3	8.7	191.3	664
<a href="#">02/03/21</a>	ACTIVATE 21-051	Science	3.1	11.8	188.2	675
<a href="#">03/04/21</a>	ACTIVATE 21-052	Science	3.1	14.9	185.1	675
<a href="#">03/05/21</a>	ACTIVATE 21-054	Science	3.5	18.4	181.6	625
<a href="#">03/05/21</a>	ACTIVATE 21-054	Science	3.2	21.6	178.4	675
<a href="#">03/08/21</a>	ACTIVATE 21-055	Science	3.5	25.1	174.9	690
<a href="#">03/09/21</a>	ACTIVATE 21-056	Science	3.3	28.4	171.6	745
<a href="#">03/12/21</a>	ACTIVATE 21-057	Science	3.5	31.9	168.1	705
<a href="#">03/12/21</a>	ACTIVATE 21-057	Science	3.5	35.4	164.6	705
<a href="#">03/20/21</a>	ACTIVATE 21-xxx	Science	0	35.4	164.6	0
<a href="#">03/20/21</a>	ACTIVATE 21-xxx	Science	0	35.4	164.6	0
<a href="#">03/20/21</a>	ACTIVATE 21-058	Science	3.4	38.8	161.2	705

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

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