

# HU-25A Guardian - LaRC #524 04/02/21

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 04/02/21

**Flight Segments:**

<b>From:</b>	KLFI	<b>To:</b>	KLFI
<b>Start:</b>	04/02/21 13:32 Z	<b>Finish:</b>	04/02/21 17:04 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 #3, conducted cooperatively with the UC-12. Departed Rwy26 to ECG climbing to 5k ft MSL for initial transit. Research profiles conducted from KLFI-ECG-OXANA-3245N/07145W-OXANA-ECG-KLFI. Winds were light (~20 knots) from the Northwest throughout the majority of flight altitudes with a scattered layer initially encountered at ~5-7 k FT MSL (around ECG), followed by more complex layers increasing in thickness approaching OXANA and extending out to the turn-point. Predominantly all cloudy-based modules conducted throughout the flight, ranging from 500 – 11,500 FT MSL. Some occasional light icing was encountered during cloud penetrations above the freezing level, and continuous light-chop turbulence was present at nearly all altitudes. Aircraft geolocation was within 10 nmi throughout the sortie, with a descending 360-degree turn just past OXANA during a minimum altitude run setup (for timing adjustment) and an extension beyond the turn-point (~10 nmi) during a BCB profile for geolocation compensation. All objectives were achieved and no system discrepancies were noted - pending post-flight data analysis. Pilots: Elder/Delaney QNCs: Crosbie/Winstead</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.*

Page Editor: Brad Bulger

NASA Official: Marilyn Vasques

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