

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

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

Flight Number: ACTIVATE 21-062

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:

From:	KLFI	To:	KLFI
Start:	04/02/21 08:32 Z	Finish:	04/02/21 12:02 Z
Flight Time:	3.5 hours		
Log Number:	21F001	PI:	Armin Sorooshian
Funding Source:	Barry Lefer - NASA - SMD - ESD Earth Venture Suborbital-3 Program		
Purpose of Flight:	Science		
Miles Flown:	720 miles		
Comments:	<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 ~4-6 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 climbing 360 deg turn at OXANA during an ACT setup for timing adjustment and an extension beyond the turn-point (~10 nmi) during a minimum altitude run 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
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 Editor: Katja Drdla

NASA Official: Marilyn Vasques

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