

HU-25A Guardian - LaRC #524 12/14/21

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 5/6 Flight #7

Payload Configuration: ACTIVATE In Situ Suite

Nav Data Collected: No

Total Flight Time: 2.5 hours

Submitted by: Gregory L. Slover on 12/15/21

Flight Segments:

From:	KLFI	To:	KLFI
Start:	12/14/21 17:35 Z	Finish:	12/14/21 20:03 Z
Flight Time:	2.5 hours		
Log Number:	22F001	PI:	Armin Sorooshian
Funding Source:	Hal Maring - NASA - SMD - ESD Radiation Science Program		
Purpose of Flight:	Science		
Comments:	<p>Here's some data from the wind cal flight on 14 Dec 2021 to help in discerning the points of interest. All points were flown, but in a different order at times. May have missed one set of tail wags. All altitudes were clear, above the boundary layer and no turbulence. All times below are in zulu. (altimeter setting was 30.46, so pretty far of standard day altitude) Data at 5K MSL Tail wags 1840 – 1845 Speed Variations 1849 – 1905 (232, 212, 196, 182 KIAS) Tail wags 1905 – 1907 Data at 7K MSL Tail wags 1910 – 1912 Speed variations 1913 – 1936 (166, 193, 219, 250 KIAS) XW reverse course 1921 – 1926 & 1930 – 1936 (These two reversals were flown in conjunction with stead speeds from above) Data at 9K MSL Tail Wags 1940 - 1942 Speed Variations 1945 – 1958 (255, 235, 215, 196 KIAS) Data at 11K MSL Tail wags 1959 – 2002 Speed Variations 2003 – 2025 (201, 215, 232, 250 KIAS) XW reverse course 2007 – 2021 (These two reversals were flown in conjunction with steady speeds from above) Data at 8K MSL Tail Wags 2028 – 2030 Speed Variations 2031 – 2045 (258, 236, 217, 185 KIAS) Tail Wags 2045 - 2048</p>		

Flight Hour Summary:

	22F001
Flight Hours Approved in SOFRS	290
Total Used	298.8
Total Remaining	-8.8

22F001 Flight Reports

Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining	Miles Flown
11/19/21	ACTIVATE 5/6 ICF	Check	2.1	2.1	287.9	450
11/30/21	ACTIVATE 5/6 Flight #1	Science	3.3	5.4	284.6	710
12/01/21	ACTIVATE 5/6 Flight #2	Science	3.5	8.9	281.1	730
12/07/21	ACTIVATE 5/6 Flight #3	Science	3.5	12.4	277.6	712
12/09/21	ACTIVATE 5/6 Flight #4&5	Science	3.2	15.6	274.4	700
12/09/21	ACTIVATE 5/6 Flight #4&5	Science	3.3	18.9	271.1	700
12/10/21	ACTIVATE 5/6 Flight #6	Science	3.3	22.2	267.8	682
12/14/21	ACTIVATE 5/6 Flight #7	Science	2.5	24.7	265.3	0
01/11/22	ACTIVATE 5/6 Flight #RF100 & #RF101	Science	3.4	28.1	261.9	705
01/11/22	ACTIVATE 5/6 Flight #RF100 & #RF101	Science	3.3	31.4	258.6	710

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01/12/22	ACTIVATE 5/6 Flight #RF102 & #RF103	Science	3.3	34.7	255.3	710
01/12/22	ACTIVATE 5/6 Flight #RF102 & #RF103	Science	3.3	38	252	735
01/15/22	ACTIVATE 5/6 Flight #RF104	Science	3.8	41.8	248.2	740
01/18/22	ACTIVATE 5/6 Flight #RF105 & RF106	Science	3.3	45.1	244.9	715
01/18/22	ACTIVATE 5/6 Flight #RF105 & RF106	Science	3.5	48.6	241.4	725
01/19/22	ACTIVATE 5/6 Flight #RF107 & RF108	Science	3.3	51.9	238.1	715
01/19/22	ACTIVATE 5/6 Flight #RF107 & RF108	Science	3.3	55.2	234.8	707
01/24/22	ACTIVATE 5/6 Flight #RF109 & RF110	Science	3.2	58.4	231.6	715
01/24/22	ACTIVATE 5/6 Flight #RF109 & RF110	Science	3.2	61.6	228.4	715
01/26/22	ACTIVATE 5/6 Flight #RF111 & RF112	Science	3.6	65.2	224.8	735
01/26/22	ACTIVATE 5/6 Flight #RF111 & RF112	Science	3.3	68.5	221.5	705
01/27/22	ACTIVATE 5/6 Flight #RF113 & RF114	Science	3	71.5	218.5	710
01/27/22	ACTIVATE 5/6 Flight #RF113 & RF114	Science	3.3	74.8	215.2	710
02/01/22	ACTIVATE 5/6 Flight #RF115	Science	3.1	77.9	212.1	682
02/02/22	ACTIVATE 5/6 Flight #RF116	Science	3.5	81.4	208.6	750
02/03/22	ACTIVATE 5/6 Flight #RF117	Science	3.2	84.6	205.4	713
02/03/22	ACTIVATE 5/6 Flight #RF118	Science	3.5	88.1	201.9	704
02/05/22	ACTIVATE 5/6 Flight #RF119	Science	3.4	91.5	198.5	700
02/15/22	ACTIVATE 5/6 Flight #RF120 & 121	Science	3.3	94.8	195.2	708
02/15/22	ACTIVATE 5/6 Flight #RF120 & 121	Science	4	98.8	191.2	808
02/16/22	ACTIVATE 5/6 Flight #RF123	Science	3.6	102.4	187.6	782
02/16/22	ACTIVATE 5/6 Flight #RF123	Science	3.2	105.6	184.4	0
02/19/22	ACTIVATE 5/6 Flight #RF124&125	Science	3.4	109	181	700
02/19/22	ACTIVATE 5/6 Flight #RF124&125	Science	3.6	112.6	177.4	650
02/22/22	ACTIVATE 5/6 Flight #RF126	Science	3.5	116.1	173.9	712
02/22/22	ACTIVATE 5/6 Flight #RF127	Science	3.4	119.5	170.5	715
02/26/22	ACTIVATE 5/6 Flight #RF128/129	Science	3	122.5	167.5	700
02/26/22	ACTIVATE 5/6 Flight #RF128/129	Science	2.7	125.2	164.8	700
03/02/22	ACTIVATE 5/6 Flight #RF130	Science	3.5	128.7	161.3	750

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03/03/22	ACTIVATE 5/6 Flight #RF131 & 132	Science	3.5	132.2	157.8	711
03/03/22	ACTIVATE 5/6 Flight #RF131 & 132	Science	3.3	135.5	154.5	705
03/04/22	ACTIVATE 5/6 Flight #RF133	Science	3.5	139	151	710
03/04/22	ACTIVATE 5/6 Flight #RF134	Science	3.5	142.5	147.5	730
03/07/22	ACTIVATE 5/6 Flight #RF135	Science	3.5	146	144	718
03/07/22	ACTIVATE 5/6 Flight #RF136	Science	3.4	149.4	140.6	815
03/13/22	ACTIVATE 5/6 Flight #RF137 & 138	Science	3.8	153.2	136.8	650
03/13/22	ACTIVATE 5/6 Flight #RF137 & 138	Science	3.2	156.4	133.6	738
03/14/22	ACTIVATE 5/6 Flight #RF139 & 140	Science	3.2	159.6	130.4	714
03/14/22	ACTIVATE 5/6 Flight #RF139 & 140	Science	3.4	163	127	0
03/18/22	ACTIVATE 5/6 Flight #RF141	Science	3.3	166.3	123.7	680
03/22/22	ACTIVATE 5/6 Flight #RF142 & 143	Science	2.8	169.1	120.9	660
03/22/22	ACTIVATE 5/6 Flight #RF142 & 143	Science	3.7	172.8	117.2	660
03/26/22	ACTIVATE 5/6 Flight #RF144 & RF145	Science	3.7	176.5	113.5	700
03/26/22	ACTIVATE 5/6 Flight #RF144 & RF145	Science	4	180.5	109.5	800
03/28/22	ACTIVATE 5/6 Flight #RF146	Science	3.6	184.1	105.9	725
03/29/22	ACTIVATE 5/6 Flight #RF147 & RF148	Science	3.9	188	102	720
03/29/22	ACTIVATE 5/6 Flight #RF147 & RF148	Science	3.9	191.9	98.1	647
05/05/22	ACTIVATE 5/6 Flight #RF150 & RF151	Science	3.4	195.3	94.7	720
05/05/22	ACTIVATE 5/6 Flight #RF150 & RF151	Science	3.3	198.6	91.4	710
05/10/22	ACTIVATE 5/6 Flight #RF152	Science	3.4	202	88	712
05/16/22	ACTIVATE 5/6 Flight #RF153 & 154	Science	3.3	205.3	84.7	680
05/16/22	ACTIVATE 5/6 Flight #RF153 & 154	Science	3.3	208.6	81.4	700
05/17/22	ACTIVATE 5/6 Flight #RF155	Science	3.3	211.9	78.1	0
05/18/22	ACTIVATE 5/6 Flight #RF156 & 157	Science	3.1	215	75	670
05/18/22	ACTIVATE 5/6 Flight #RF156 & 157	Science	3.6	218.6	71.4	670
05/20/22	ACTIVATE 5/6 Flight #RF158	Science	3.5	222.1	67.9	703
05/21/22	ACTIVATE 5/6 Flight #RF159 & 160	Science	3	225.1	64.9	0
05/21/22	ACTIVATE 5/6 Flight #RF159 & 160	Science	3.2	228.3	61.7	0

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05/31/22	ACTIVATE 5/6 Flight #RF161	Science	3.4	231.7	58.3	680
06/02/22	ACTIVATE 5/6 Flight #RF162	Science	3.1	234.8	55.2	680
06/02/22	ACTIVATE 5/6 Flight #RF163	Science	3.1	237.9	52.1	680
06/03/22	ACTIVATE 5/6 Flight #RF164	Science	3.3	241.2	48.8	650
06/05/22	ACTIVATE 5/6 Flight #RF165	Science	3.2	244.4	45.6	640
06/07/22	ACTIVATE 5/6 Flight #RF166 & 167	Science	3.4	247.8	42.2	700
06/07/22	ACTIVATE 5/6 Flight #RF166 & 167	Science	3.3	251.1	38.9	700
06/08/22	ACTIVATE 5/6 Flight #RF168 & 169	Science	3	254.1	35.9	700
06/08/22	ACTIVATE 5/6 Flight #RF168 & 169	Science	3.4	257.5	32.5	700
06/10/22	ACTIVATE 5/6 Flight #RF170 & 171	Science	3.4	260.9	29.1	700
06/10/22	ACTIVATE 5/6 Flight #RF170 & 171	Science	3.5	264.4	25.6	700
06/10/22	ACTIVATE 5/6 Flight #RF170 & 171	Science	3.4	267.8	22.2	700
06/10/22	ACTIVATE 5/6 Flight #RF170 & 171	Science	3.5	271.3	18.7	700
06/11/22	ACTIVATE 5/6 Flight #RF172 & 173	Science	3.6	274.9	15.1	700
06/11/22	ACTIVATE 5/6 Flight #RF172 & 173	Science	3.4	278.3	11.7	700
06/13/22	ACTIVATE 5/6 Flight #RF174 & 175	Science	3.3	281.6	8.4	680
06/13/22	ACTIVATE 5/6 Flight #RF174 & 175	Science	3.6	285.2	4.8	680
06/14/22	ACTIVATE 5/6 Flight #RF176	Science	3.3	288.5	1.5	710
06/14/22	ACTIVATE 5/6 Flight #RF176	Science	3.3	291.8	-1.8	710
06/17/22	ACTIVATE 5/6 Flight #RF177	Science	3.6	295.4	-5.4	650
06/18/22	ACTIVATE 5/6 Flight #RF178	Science	3.4	298.8	-8.8	650

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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