

## HU-25A Guardian - LaRC #524 01/27/21

**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 20-049

**Payload Configuration:** ACTIVATE In Situ Suite

**Nav Data Collected:** No

**Total Flight Time:** 2.7 hours

**Submitted by:** Luke Delaney on 01/27/21

**Flight Segments:**

<b>From:</b>	KLFI	<b>To:</b>	KLFI
<b>Start:</b>	01/27/21 12:58 Z	<b>Finish:</b>	01/27/21 15:39 Z
<b>Flight Time:</b>	2.7 hours		
<b>Log Number:</b>	<a href="#">21F001</a>	<b>PI:</b>	Armin Sorooshian
<b>Funding Source:</b>	Hal Maring - NASA - SMD - ESD Radiation Science Program		
<b>Purpose of Flight:</b>	Science		
<b>Miles Flown:</b>	700 miles		
<b>Comments:</b>	<p>This flight was executed as a single-ship for In Situ data collection and further validation of the instrumentation. It was conducted offshore within the New York center FIR boundary, at altitudes ranging from 500 ft AGL to 20,000 ft MSL. The upper altitude portion was for ozone sensor functional assessment and was approximately 40 minutes in duration. Several target airspeeds were also attained during high altitude transit (~245 KIAS - 292 KIAS) for verification of steady-state system parameters. In and out of cloud data was collected for the remainder of flight, targeting slightly above, below, and within boundary layer conditions during 3 minute level-flight iterations. These terminated with minimum altitude runs before commencing additional cycles of data collection. The predominant cloud layer was located between 2,500 ft and 5,500 ft MSL throughout the flight. All objectives were achieved and no system discrepancies were noted.</p>		

**Flight Hour Summary:**

	<b>21F001</b>
<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

DO NOT CITE

<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 Last Updated: April 22, 2017

Page Editor: Brad Bulger

DO NOT CITE

NASA Official: Bruce A. Tagg

---

**Source URL:**[https://airbornescience.nasa.gov/flight\\_reports/HU-25A\\_Guardian\\_-\\_LaRC\\_524\\_01\\_27\\_21](https://airbornescience.nasa.gov/flight_reports/HU-25A_Guardian_-_LaRC_524_01_27_21)

DO NOT CITE