

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

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:

From:	KLFI	To:	KLFI
Start:	01/27/21 12:58 Z	Finish:	01/27/21 15:39 Z
Flight Time:	2.7 hours		
Log Number:	21F001	PI:	Armin Sorooshian
Funding Source:	Barry Lefer - NASA - SMD - ESD Tropospheric Composition Program		
Purpose of Flight:	Science		
Miles Flown:	700 miles		
Comments:	<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:

	21F001
Flight Hours Approved in SOFRS	200
Total Used	51.7
Total Remaining	148.3

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 21-058	Science	3.4	38.8	161.2	705
03/20/21	ACTIVATE 21-xxx	Science	0	38.8	161.2	0
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

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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