

B200 - LARC 01/12/22

NOTE: All flight reports will be archived as NASA public data in the DAAC.

Aircraft: [B200 - LARC](#) (See full schedule)

Flight Number: ACTIVATE 5 Research Flt 102 and 103

Payload Configuration: ACTIVATE

Nav Data Collected: No

Total Flight Time: 6.7 hours

Submitted by: Glenn Jamison on 01/12/22

Flight Segments:

From:	KLFI	To:	KLFI
Start:	01/12/22 13:20 Z	Finish:	01/12/22 16:40 Z
Flight Time:	3.3 hours		
Log Number:	22B003	PI:	Armin Sorooshian
Funding Source:	Hal Maring - NASA - SMD - ESD Radiation Science Program		
Purpose of Flight:	Science		
Miles Flown:	705 miles		
Comments:	<p>First (morning) of two cooperative flights with HU-25. Route of flight: KLFI-ATLIC-ZIBUT-35.25N069.75W-ZIBUT-ATLIC-TURET-KLFI. Weather clear with winds out of the west at 12 knots for KLFI departure. Uneventful climb with no undue delays from departure control; continued uninterrupted climb to FL280 and turn through north back towards ATLIC. Positioning with HU-25 was maintained within 10 minutes through duration of science collection. Conditions at altitude were smooth air and clear the entire routing. 4x dropsondes deployed; ZIBUT, turn/reverse point, half way between turn point and ZIBUT, and at ATLIC prior to descent. Maintained FL280 until final dropsonde release at ATLIC then commenced ~ 2600 fpm descent in effort to achieve 12,000 ft altitude by TURET per ATC instructions. During this descent, researcher requested to reduce rate of descent due to condensation concerns for HSRL. Note: the descent between ATLIC and TURET needs to be well timed to lose sufficient altitude for complying with ATC sequencing or descent can be commenced earlier if expected to keep rate of decent no greater than 2000-25000 fpm. Uneventful recovery to runway 26 at KLFI.</p>		

From:	KLFI	To:	KLFI
Start:	01/12/22 18:00 Z	Finish:	01/12/22 21:22 Z
Flight Time:	3.4 hours		
Log Number:	22B003	PI:	Armin Sorooshian
Funding Source:	Hal Maring - NASA - SMD - ESD Radiation Science Program		
Purpose of Flight:	Science		
Miles Flown:	747 miles		
Comments:	<p>Second (afternoon) of two cooperative flights with HU-25; this flight was coordinated to coincide with Callypso overflight. Route of flight: KLFI-ATLIC-ZIBUT-3657N07225W-3418N07139W-3657N07225W-ZIBUT-ATLIC-TURET-KLFI. Weather clear with winds out of the west at 10 knots for KLFI departure. Uneventful climb with no undue delays from departure control; continued uninterrupted climb to FL280 and turn through north back towards ATLIC. Positioning with HU-25 was maintained within 10 minutes through duration of science collection. Conditions at altitude were smooth air and clear the entire routing. Established on southeast outbound leg after ZIBUT approximately 12 minutes prior to Callypso overflight. Just prior to turn/reverse point, ground researchers called for request to extend southeast leg an additional 5 minutes. Coordinated with ATC to change turn point to 33.54N071.32W (approximately 5 minutes/20nm extended on preplanned leg). 5x dropsondes deployed; ZIBUT, 2 at revised turn/reverse point (1st one indicated GPS transmit failure shortly after deploying), half way between turn point and ZIBUT, and at ATLIC prior to descent. Maintained FL280 until final dropsonde release at ATLIC then immediately commenced 2500 fpm descent to achieve 12,000 ft altitude at TURET. Uneventful recovery to runway 26 at KLFI.</p>		

Flight Hour Summary:

DO NOTE CITE

						22B003
Flight Hours Approved in SOFRS						290
Total Used						93.7
Total Remaining						196.3
22B003 Flight Reports						
Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining	Miles Flown
11/19/21	ACTIVATE 5 ICF#1	Science	1.4	1.4	288.6	180
11/19/21	ACTIVATE 5 ICF#2	Science	1.7	3.1	286.9	220
11/30/21	ACTIVATE 5 Research Flt 94	Science	3.5	6.6	283.4	720
12/01/21	ACTIVATE 5 Research Flt 95	Science	3.5	10.1	279.9	720
12/07/21	ACTIVATE 5 Research Flt 96	Science	3.5	13.6	276.4	712
12/09/21	ACTIVATE 5 Research Flt 97	Science	3.5	17.1	272.9	698
12/09/21	ACTIVATE 5 Research Flt 98	Science	3.5	20.6	269.4	684
12/10/21	ACTIVATE 5 Research Flt 99	Science	3.3	23.9	266.1	700
01/11/22	ACTIVATE 5 Research Flt 100 and 101	Science	3.6	27.5	262.5	705
01/11/22	ACTIVATE 5 Research Flt 100 and 101	Science	3.6	31.1	258.9	710
01/12/22	ACTIVATE 5 Research Flt 102 and 103	Science	3.3	34.4	255.6	705
01/12/22	ACTIVATE 5 Research Flt 102 and 103	Science	3.4	37.8	252.2	747
01/15/22	ACTIVATE 5 Research Flt 104	Science	3.7	41.5	248.5	740
01/18/22	ACTIVATE 5 Research Flt 105/106	Science	3.7	45.2	244.8	715
01/18/22	ACTIVATE 5 Research Flt 105/106	Science	3.8	49	241	706
01/19/22	ACTIVATE 5 Research Flt 107/108	Science	3.5	52.5	237.5	714
01/19/22	ACTIVATE 5 Research Flt 107/108	Science	3.4	55.9	234.1	720
01/24/22	ACTIVATE 5 Research Flt 109/110	Science	3.4	59.3	230.7	708
01/24/22	ACTIVATE 5 Research Flt 109/110	Science	3.4	62.7	227.3	715
01/26/22	ACTIVATE 5 Research Flt 111/112	Science	3.7	66.4	223.6	705
01/26/22	ACTIVATE 5 Research Flt 111/112	Science	3.7	70.1	219.9	710
01/28/22	ACTIVATE 5 Research Flt 113/114	Science	3.1	73.2	216.8	710
01/28/22	ACTIVATE 5 Research Flt 113/114	Science	3.5	76.7	213.3	710
02/01/22	ACTIVATE 5 Research Flt 115	Science	3.3	80	210	715

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02/02/22	ACTIVATE 5Research Flt 116	Science	3.7	83.7	206.3	780
02/03/22	ACTIVATE 5 Research Flt 117/118	Science	3.3	87	203	709
02/03/22	ACTIVATE 5 Research Flt 117/118	Science	3.3	90.3	199.7	711
02/05/22	ACTIVATE 5 Research Flt 119	Science	3.4	93.7	196.3	700

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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