

## B200 - LARC 01/18/22

**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 105/106

**Payload Configuration:** ACTIVATE

**Nav Data Collected:** No

**Total Flight Time:** 7.5 hours

**Submitted by:** Glenn Jamison on 01/18/22

**Flight Segments:**

<b>From:</b>	KLFI	<b>To:</b>	klfi
<b>Start:</b>	01/18/22 13:17 Z	<b>Finish:</b>	01/18/22 16:57 Z
<b>Flight Time:</b>	3.7 hours		
<b>Log Number:</b>	<a href="#">22B003</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>	715 miles		
<b>Comments:</b>	<p>Morning cooperative flight with HU-25. Route of flight: KLFI-JAMIE-RADDS-ZIZZI-FISSH-AGUNE-37.10N069.75W-ZIBUT-ATLIC-TURET-KLFI. Weather clear with winds out of the west for KLFI 26 departure; B200 took off first based on upper wind profile. Uneventful climb with no undue delays from departure control; continued uninterrupted climb on course to FL270. Positioning with HU-25 was maintained within 10 minutes through duration of science collection until approx. 40nm east of ATLIC on final leg of flight. Conditions at altitude were smooth air and exceptionally clear visibility at altitude all the way down to cloud tops (~8K ft MSL). Upper level winds slightly stronger than forecast, varying between 85-105 kts from the WNW throughout flight. 8x dropsondes deployed; ZIZZI, mid-point between ZIZZI and AGUNE, 2x dropsondes at AGUNE due to loss of GPS signal on 1st drop, mid-point between AGUNE and turnpoint, turnpoint, ZIBUT, and ATLIC prior to descent. Maintained FL280 until final dropsonde release at ATLIC then commenced 2000 fpm descent for recovery. ATC directed a left 360 degree turn and level off at FL230 for sequencing between ATLIC and TURET; upon completion, commenced uneventful straight-in approach to r/w 26.</p>		
<b>From:</b>	klfi	<b>To:</b>	klfi
<b>Start:</b>	01/18/22 18:32 Z	<b>Finish:</b>	01/18/22 22:21 Z
<b>Flight Time:</b>	3.8 hours		
<b>Log Number:</b>	<a href="#">22B003</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>	706 miles		

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**Comments:**

Afternoon (2nd of two flights) cooperative flight with HU-25. Route of flight: KLFI-ATLIC-ZIBUT-36.00N069.25W-ZIBUT-ATLIC-TURET-KLFI. Weather clear with winds out of the west for KLFI 26 departure; B200 took off second, immediately following HU-25, based on upper wind profile. Uneventful climb with no undue delays from departure control; continued climb on course to FL270 with a temporary ~4 minute delay at FL230 for airspace sequencing. Winds at altitude were 95-115 kts from the WNW for duration offlight. Positioning with HU-25 was maintained within 10 minutes through 1st half of flight toturn point, with the B200 overtaking HU-25 prior to ZIBUT then advancing to 10 min aheadat turnpoint; airspeed was maintained at minimum practicable until approaching turnpoint. After turnpoint, the maximum achievable ground speed for B200 was 137 kts due to strong headwind component; the HU-25 caught up to B200 by midpoint between turnpoint and ZIBUT, then continued to advance ahead until 10-min coincidence lost at 40nm east of ZIBUT. B200 continued to fall further behind HU-25 for the remained of flight. Conditions at altitude were smooth air and exceptionally clear visibility at altitude all the way down to cloud tops (~8K ft MSL). 5x dropsondes deployed; ZIBUT, turnpoint, 118nm ESE ofZIBUT, 61nm ESE of ZIBUT, and ATLIC prior to descent. Maintained FL280 until finaldropsonde release at ATLIC then commenced 2000 fpm descent for recovery. UneventfulRNAV approach to r/w 26.

**Flight Hour Summary:**

	<b>22B003</b>
<b>Flight Hours Approved in SOFRS</b>	290
<b>Total Used</b>	93.7
<b>Total Remaining</b>	196.3

**22B003 Flight Reports**

<b>Date</b>	<b>Flt #</b>	<b>Purpose of Flight</b>	<b>Duration</b>	<b>Running Total</b>	<b>Hours Remaining</b>	<b>Miles Flown</b>
<a href="#">11/19/21</a>	ACTIVATE 5 ICF#1	Science	1.4	1.4	288.6	180
<a href="#">11/19/21</a>	ACTIVATE 5 ICF#2	Science	1.7	3.1	286.9	220
<a href="#">11/30/21</a>	ACTIVATE 5 Research Flt 94	Science	3.5	6.6	283.4	720
<a href="#">12/01/21</a>	ACTIVATE 5 Research Flt 95	Science	3.5	10.1	279.9	720
<a href="#">12/07/21</a>	ACTIVATE 5 Research Flt 96	Science	3.5	13.6	276.4	712
<a href="#">12/09/21</a>	ACTIVATE 5 Research Flt 97	Science	3.5	17.1	272.9	698
<a href="#">12/09/21</a>	ACTIVATE 5 Research Flt 98	Science	3.5	20.6	269.4	684
<a href="#">12/10/21</a>	ACTIVATE 5 Research Flt 99	Science	3.3	23.9	266.1	700
<a href="#">01/11/22</a>	ACTIVATE 5 Research Flt 100 and 101	Science	3.6	27.5	262.5	705
<a href="#">01/11/22</a>	ACTIVATE 5 Research Flt 100 and 101	Science	3.6	31.1	258.9	710
<a href="#">01/12/22</a>	ACTIVATE 5 Research Flt 102 and 103	Science	3.3	34.4	255.6	705
<a href="#">01/12/22</a>	ACTIVATE 5 Research Flt 102 and 103	Science	3.4	37.8	252.2	747
<a href="#">01/15/22</a>	ACTIVATE 5 Research Flt 104	Science	3.7	41.5	248.5	740
<a href="#">01/18/22</a>	ACTIVATE 5 Research Flt 105/106	Science	3.7	45.2	244.8	715
<a href="#">01/18/22</a>	ACTIVATE 5 Research Flt 105/106	Science	3.8	49	241	706

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<a href="#">01/19/22</a>	ACTIVATE 5Research Flt 107/108	Science	3.5	52.5	237.5	714
<a href="#">01/19/22</a>	ACTIVATE 5 Research Flt 107/108	Science	3.4	55.9	234.1	720
<a href="#">01/24/22</a>	ACTIVATE 5 Research Flt 109/110	Science	3.4	59.3	230.7	708
<a href="#">01/24/22</a>	ACTIVATE 5 Research Flt 109/110	Science	3.4	62.7	227.3	715
<a href="#">01/26/22</a>	ACTIVATE 5 Research Flt 111/112	Science	3.7	66.4	223.6	705
<a href="#">01/26/22</a>	ACTIVATE 5 Research Flt 111/112	Science	3.7	70.1	219.9	710
<a href="#">01/28/22</a>	ACTIVATE 5 Research Flt 113/114	Science	3.1	73.2	216.8	710
<a href="#">01/28/22</a>	ACTIVATE 5 Research Flt 113/114	Science	3.5	76.7	213.3	710
<a href="#">02/01/22</a>	ACTIVATE 5 Research Flt 115	Science	3.3	80	210	715
<a href="#">02/02/22</a>	ACTIVATE 5 Research Flt 116	Science	3.7	83.7	206.3	780
<a href="#">02/03/22</a>	ACTIVATE 5 Research Flt 117/118	Science	3.3	87	203	709
<a href="#">02/03/22</a>	ACTIVATE 5 Research Flt 117/118	Science	3.3	90.3	199.7	711
<a href="#">02/05/22</a>	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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