

B-200 (UC-12B) - LARC 06/07/21

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

Aircraft: [B-200 \(UC-12B\) - LARC](#) ([See full schedule](#))

Flight Number: Activate Flight 70/71 (Researcher #79/80) (Update each flight)

Payload Configuration: HSRL II/RSP

Nav Data Collected: No

Total Flight Time: 6.4 hours

Submitted by: Michael S. Wusk on 06/07/21

Flight Segments:

From:	klfi	To:	KLFI
Start:	06/07/21 12:31 Z	Finish:	06/07/21 16:02 Z
Flight Time:	3.5 hours		
Log Number:	21B005	PI:	Armin Sorooshian
Funding Source:	Hal Maring - NASA - SMD - ESD Radiation Science Program		
Purpose of Flight:	Science		
Miles Flown:	720 miles		
Comments:	UC-12 ACTIVATE cooperative flight with HU-25. Planned route: ATLIC-ZIBUT-lat/long-ZIBUT-ATLIC. Standard takeoff; initial climb held to FL260 due to Air Force Tanker activity. Outside ZIBUT then cleared to final altitude of FL280. End Point changed to TILED per researcher request in-flight. HU had to deviate to the south just past ZIBUT to avoid weather. UC had to deviate slightly to the north to get around the some cells anvil (which blew off to the south). With light winds at altitude the UC remained about 23nm behind the HU unable to close on the eastbound leg. Flew to end point even though HU25 was ahead. Was able to close some on westward track to establish better coincidence with HU-25. Uneventful RTB per remainder of flight. 4x dropsondes deployed. Crew Jamison, Wusk, Harper.		

From:	KLFI	To:	KLFI
Start:	06/07/21 17:37 Z	Finish:	06/07/21 20:31 Z
Flight Time:	2.9 hours		
Log Number:	21B005	PI:	Armin Sorooshian
Funding Source:	Hal Maring - NASA - SMD - ESD Radiation Science Program		
Purpose of Flight:	Science		
Miles Flown:	690 miles		
Comments:	Second of two cooperative flights with HU-25, planned as process study in W-72. Planned route KLFI ATLIC OUTES, delay W-72 2+00 hours. Launched approx. 5 minutes after HU-25 on RW26, departure turnout to the north. Uneventful climb on course through ATLIC to OUTES; leveled off at FL275 for planned VFR operations in W-72. Coordinated with giant killer (GK) for blocks 1E/2E/3E/1F/2F, and commenced turn to SE vector towards initial lat/long for briefed waypoint. Point was shifted from initial position outside eastern edge of W72 to the west in lower southeast corner of 1D. Researchers request for initially conducting a perimeter run prior to spoke run plus the late identification of the waypoint change resulted in sub-optimal positioning for the process study pattern. Subsequent turn towards expected waypoint indicated multiple potential target clouds; coordinated real-time with HU-25 to determine which cloud was the correct target and adjusted track for initial axle run to overfly cloud of interest. Subsequent perimeter/spoke runs coordinated with only minor adjustments for target cloud drift (slow drift to the NE). Throughout runs, target cloud shape and height changed substantially, at times causing uncertainty in whether we were lined up on the correct cloud. Completed one additional spoke run from NW to SE to coordinate timing with HU-25. Realtime decision made upon completion of UC-12 and HU-25 profiles to proceed different directions for return to base; UC-12 proceeded NW direct to ATLIC while HU-25 took southern vector towards the north corridor for RTB. 12x dropsondes deployed. Uneventful recovery KLFI.		

Flight Hour Summary:

						21B005
Flight Hours Approved in SOFRS						200
Total Used						180
Total Remaining						20
21B005 Flight Reports						
Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining	Miles Flown
01/20/21	Activate Flight 33	Science	3	3	197	600
01/29/21	Activate Flight 34	Science	3	6	194	700
02/03/21	Activate Flight 35	Science	3.3	9.3	190.7	700
02/10/21	Activate Flight 36	Science	3.7	13	187	670
02/20/21	Activate Flight 37 (Researcher #46)	Science	3.3	16.3	183.7	600
02/21/21	Activate Flight 38 (Researcher #47)	Science	4	20.3	179.7	650
03/04/21	Activate Flight 39 (Researcher #48)	Science	3.1	23.4	176.6	620
03/05/21	Activate Flight 40 (Researcher #49)	Science	3.5	26.9	173.1	706
03/05/21	Activate Flight 41 (Researcher #50)	Science	3.3	30.2	169.8	650
03/08/21	Activate Flight 42 (Researcher #51)	Science	3.3	33.5	166.5	680
03/09/21	Activate Flight 43 (Researcher #52)	Science	3.4	36.9	163.1	708
03/12/21	Activate Flight 44/45 (Researcher #53/54)	Science	3.4	40.3	159.7	700
03/12/21	Activate Flight 44/45 (Researcher #53/54)	Science	3.5	43.8	156.2	700
03/20/21	Activate Flight 46 (Researcher #55)	Science	3.4	47.2	152.8	705
03/23/21	Activate Flight 47 (Researcher #56)	Science	4.1	51.3	148.7	704
03/29/21	Activate Flight 48 (Researcher #57) (Update each flight)	Science	3.9	55.2	144.8	767
03/30/21	Activate Flight 49 (Researcher #58) (Update each flight)	Science	3.4	58.6	141.4	712
03/30/21	Activate Flight 50 (Researcher #59) (Update each flight)	Science	3.6	62.2	137.8	797
04/02/21	Activate Flight 51 (Researcher #60) (Update each flight)	Science	2.6	64.8	135.2	710
04/02/21	Activate Flight 51 (Researcher #61) (Update each flight)	Science	4.7	69.5	130.5	710
05/12/21	Activate Flight 52 (Researcher ICF) (Update each flight)	Science	1.3	70.8	129.2	250
05/13/21	Activate Flight 53 (Researcher #62) (Update each flight)	Science	3.7	74.5	125.5	0
05/14/21	Activate Flight 54/55 (Researcher #63/64) (Update each flight)	Science	3.7	78.2	121.8	730
05/14/21	Activate Flight 54/55 (Researcher #63/64) (Update each flight)	Science	3.5	81.7	118.3	720
05/15/21	Activate Flight 56 (Researcher #65) (Update each flight)	Science	3.5	85.2	114.8	0

05/18/21	Activate Flight 57 (Researcher #66) (Update each flight)	Science	3.6	88.8	111.2	720
05/19/21	Activate Flight 58 (Researcher #67) (Update each flight)	Science	3.4	92.2	107.8	710
05/19/21	Activate Flight 59 (Researcher #68) (Update each flight)	Science	3.4	95.6	104.4	720
05/20/21	Activate Flight 60 (Researcher #69) (Update each flight)	Science	3.8	99.4	100.6	710
05/21/21	Activate Flight 61 (Researcher #70) (Update each flight)	Science	3.6	103	97	750
05/21/21	Activate Flight 62 (Researcher #71) (Update each flight)	Science	3.3	106.3	93.7	710
05/25/21	Activate Flight 63 (Researcher #72) (Update each flight)	Science	3.4	109.7	90.3	713
05/26/21	Activate Flight 64/65 (Researcher #73/74) (Update each flight)	Science	3.3	113	87	700
05/26/21	Activate Flight 64/65 (Researcher #73/74) (Update each flight)	Science	3.3	116.3	83.7	722
06/01/21	Activate Flight 66 (Researcher #75) (Update each flight)	Science	3.6	119.9	80.1	710
06/02/21	Activate Flight 67/68 (Researcher #76/77) (Update each flight)	Science	3.4	123.3	76.7	0
06/02/21	Activate Flight 67/68 (Researcher #76/77) (Update each flight)	Science	3.1	126.4	73.6	0
06/05/21	Activate Flight 69 (Researcher #78) (Update each flight)	Science	3.4	129.8	70.2	726
06/07/21	Activate Flight 70/71 (Researcher #79/80) (Update each flight)	Science	3.5	133.3	66.7	720
06/07/21	Activate Flight 70/71 (Researcher #79/80) (Update each flight)	Science	2.9	136.2	63.8	690
06/08/21	Activate Flight 72/73 (Researcher #81/82) (Update each flight)	Science	3.3	139.5	60.5	720
06/08/21	Activate Flight 72/73 (Researcher #81/82) (Update each flight)	Science	3.6	143.1	56.9	720
06/15/21	Activate Flight 74 (Researcher #83) (Update each flight)	Science	3.2	146.3	53.7	680
06/16/21	Activate Flight 75 (Researcher #84) (Update each flight)	Science	3.7	150	50	690
06/17/21	Activate Flight 76 (Researcher #85) (Update each flight)	Science	3	153	47	600
06/22/21	Activate Flight 77 (Researcher #86) (Update each flight)	Science	3.3	156.3	43.7	690
06/24/21	Activate Flight 78 (Researcher #87) (Update each flight)	Science	3.5	159.8	40.2	690
06/26/21	Activate Flight 79/80 (Researcher #88/89) (Update each flight)	Science	3.4	163.2	36.8	690
06/26/21	Activate Flight 79/80 (Researcher #88/89) (Update each flight)	Science	3.4	166.6	33.4	680
06/28/21	Activate Flight 81 (Researcher #90) (Update each flight)	Science	3.3	169.9	30.1	690

06/29/21	Activate Flight 82 (Researcher #91) (Update each flight)	Science	3.3	173.2	26.8	687
06/30/21	Activate Flight 83/84 (Researcher #92/93) (Update each flight)	Science	3.4	176.6	23.4	685
06/30/21	Activate Flight 83/84 (Researcher #92/93) (Update each flight)	Science	3.4	180	20	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

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Source URL: https://airbornescience.nasa.gov/flight_reports/B-200_UC-12B_-_LARC_06_07_21