

B-200 (UC-12B) - LARC 06/30/21

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 83/84 (Researcher #92/93) (Update each flight)

Payload Configuration: HSRL II/RSP

Nav Data Collected: No

Total Flight Time: 6.8 hours

Submitted by: Michael S. Wusk on 06/30/21

Flight Segments:

| | | | |
|--------------------|--|---------|------------------|
| From: | KLFI | To: | KLFI |
| Start: | 06/30/21 12:20 Z | Finish: | 06/30/21 15:42 Z |
| Flight Time: | 3.4 hours | | |
| Log Number: | 21B005 | PI: | Armin Sorooshian |
| Funding Source: | Hal Maring - NASA - SMD - ESD Radiation Science Program | | |
| Purpose of Flight: | Science | | |
| Miles Flown: | 685 miles | | |
| Comments: | Planned as a UC-12 double flight day; cooperative flight with the HU-25. Planned route: KLFI ATLIC ZIBUT 3740N06922W ZIBUT ATLIC KLFI. UC12 takeoff from runway 26 ahead of HU-25. Good ATC departure and climb to FL280. Generators held a good balance. Profile out to TP and back to ATLIC was nominal. Before reaching the TP, a second lat/long of 37N7130W was added to put return leg more through cloud field. Started the descent into Langley just prior to ATLIC. ATC gave vectors for a ILS 26. Normal landing at KLFI, runway 26. 4x dropsondes deployed; ZIBUT EB, turn point, 1/2 to ZIBUT WB, East of ATLIC. Good coincidence throughout flight. Crew was Delaney, Wusk, Harper. | | |

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|--------------------|--|---------|------------------|
| From: | KLFI | To: | KLFI |
| Start: | 06/30/21 17:08 Z | Finish: | 06/30/21 20:30 Z |
| Flight Time: | 3.4 hours | | |
| Log Number: | 21B005 - Completed as of this flight. | PI: | Armin Sorooshian |
| Funding Source: | Hal Maring - NASA - SMD - ESD Radiation Science Program | | |
| Purpose of Flight: | Science | | |
| Miles Flown: | 680 miles | | |
| Comments: | Planned as second flight of a UC-12 double flight day; cooperative flight with the HU-25. Planned route: KLFI ECG OXANA ATUGI 3610N07045W ZIBUT ATLIC KLFI. UC12 takeoff from runway 26 ahead of HU-25. Good ATC departure and climb to FL280. Generators held a good balance. Profile out AR8, to OCEANIC control, back to ATLIC was nominal. Started the descent into Langley just prior to ATLIC. ATC gave vectors for a VISUAL 26. Normal landing at KLFI, runway 26. 4x dropsondes deployed. Good coincidence throughout flight. Crew was Delaney, Wusk, Shingler. Last flight of the Summer 2021 campaign. | | |

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 |

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|--------------------------|--|---------|-----|-------|-------|-----|
| 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 |

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|--------------------------|--|---------|-----|-------|------|-----|
| 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_30_21