

B-200 (UC-12B) - LARC 05/16/22

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 153/154

Payload Configuration: HSRL II/RSP

Nav Data Collected: No

Total Flight Time: 6.7 hours

Submitted by: Matthew Coldsnow on 05/16/22

Flight Segments:

| | | | |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------------------|
| From: | klfi | To: | klfi |
| Start: | 05/16/22 12:20 Z | Finish: | 05/16/22 15:43 Z |
| Flight Time: | 3.4 hours | | |
| Log Number: | 22B005 | PI: | Armin Sorooshian |
| Funding Source: | Barry Lefer - NASA - SMD - ESD Earth Venture Suborbital-3 Program | | |
| Purpose of Flight: | Science | | |
| Miles Flown: | 685 miles | | |
| Comments: | Mission flown as briefed (KLFI ATLIC ZIBUT DARUX ZIBUT ATLIC KLFI). Winds were W/SW at 20-35 knots. Four dropsonds were released and all were nominal (ZIBUT, DARUX, midpoint between ZIBUT and DARUX and at ATLIC). Timing was within 10 minutes of Falcon the entire day. | | |

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|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------------------|
| From: | klfi | To: | klfi |
| Start: | 05/16/22 17:10 Z | Finish: | 05/16/22 20:30 Z |
| Flight Time: | 3.3 hours | | |
| Log Number: | 22B005 | PI: | Armin Sorooshian |
| Funding Source: | Barry Lefer - NASA - SMD - ESD Earth Venture Suborbital-3 Program | | |
| Purpose of Flight: | Science | | |
| Miles Flown: | 685 miles | | |
| Comments: | Mission was briefed (KLFI ATLIC ZIBUT DARUX ZIBUT ATLIC KLFI) but an adjustment to DARUX point was made (Changed to 36N 069 25W). Winds were W/SW at 20-35 knots. Four dropsonds were released and all were nominal (30 miles from ZIBUT, 30 miles from DARUX, 30 miles beyond midpoint between ZIBUT and DARUX and 30 miles beofre ATLIC). Timing was within 10 minutes of Falcon the entire day. A flight path deviation was needed after releasing the last dropsond to avoid weather. The RSP shutter was closed for approximately 5 minutes due to some high clouds. | | |

Flight Hour Summary:

| | |
|--------------------------------|---------------|
| | 22B005 |
| Flight Hours Approved in SOFRS | 196.3 |
| Total Used | 197.2 |
| Total Remaining | -0.9 |

22B005 Flight Reports

| Date | Flt # | Purpose of Flight | Duration | Running Total | Hours Remaining | Miles Flown |
|--------------------------|----------------------------------------------|-------------------|----------|---------------|-----------------|-------------|
| 02/14/22 | Activate Flight ICF (Update each flight) | Science | 1.8 | 1.8 | 194.5 | 400 |
| 02/15/22 | Activate Flight 120/121 (Update each flight) | Science | 3.6 | 5.4 | 190.9 | 708 |
| 02/15/22 | Activate Flight 120/121 (Update each flight) | Science | 3.9 | 9.3 | 187 | 806 |

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|--------------------------|---------------------------------------------------------------------|---------|-----|-------|-------|-----|
| 02/16/22 | Activate Flight 122/123 (Update each flight) | Science | 3.5 | 12.8 | 183.5 | 713 |
| 02/16/22 | Activate Flight 122/123 (Update each flight) | Science | 3.7 | 16.5 | 179.8 | 782 |
| 02/19/22 | Activate Flight 124/125 (Update each flight) | Science | 3.9 | 20.4 | 175.9 | 739 |
| 02/19/22 | Activate Flight 124/125 (Update each flight) | Science | 3.6 | 24 | 172.3 | 690 |
| 02/22/22 | Activate Flight 126/127 (Update each flight) | Science | 3.3 | 27.3 | 169 | 710 |
| 02/22/22 | Activate Flight 126/127 (Update each flight) | Science | 3.5 | 30.8 | 165.5 | 710 |
| 02/26/22 | Activate Flight 128/129a/129b (Update each flight) | Science | 3 | 33.8 | 162.5 | 700 |
| 02/26/22 | Activate Flight 128/129a/129b (Update each flight) | Science | 0.3 | 34.1 | 162.2 | 25 |
| 02/26/22 | Activate Flight 128/129a/129b (Update each flight) | Science | 2.1 | 36.2 | 160.1 | 600 |
| 03/02/22 | Activate Flight 130 (Update each flight) | Science | 3.8 | 40 | 156.3 | 714 |
| 03/03/22 | Activate Flight 131/132 (Update each flight) | Science | 3.5 | 43.5 | 152.8 | 717 |
| 03/03/22 | Activate Flight 131/132 (Update each flight) | Science | 3.4 | 46.9 | 149.4 | 700 |
| 03/04/22 | Activate Flight 133/134 (Update each flight) | Science | 3.8 | 50.7 | 145.6 | 761 |
| 03/04/22 | Activate Flight 133/134 (Update each flight) | Science | 3.7 | 54.4 | 141.9 | 712 |
| 03/07/22 | Activate Flight 135 (Update each flight) | Science | 3.4 | 57.8 | 138.5 | 716 |
| 03/13/22 | Activate Flight 137/138 (136 was HU only)(Update each flight) | Science | 4 | 61.8 | 134.5 | 714 |
| 03/13/22 | Activate Flight 137/138 (136 was HU only)(Update each flight) | Science | 3.9 | 65.7 | 130.6 | 700 |
| 03/14/22 | Activate Flight139/140 | Science | 3.4 | 69.1 | 127.2 | 0 |
| 03/14/22 | Activate Flight139/140 | Science | 3.5 | 72.6 | 123.7 | 0 |
| 03/22/22 | Activate Flight142/143 | Science | 2.6 | 75.2 | 121.1 | 690 |
| 03/22/22 | Activate Flight142/143 | Science | 3.8 | 79 | 117.3 | 680 |
| 03/26/22 | Activate Flight144/145 | Science | 3.9 | 82.9 | 113.4 | 750 |
| 03/26/22 | Activate Flight144/145 | Science | 4 | 86.9 | 109.4 | 800 |
| 03/28/22 | Activate Flight146 | Science | 4 | 90.9 | 105.4 | 705 |
| 03/29/22 | Activate Flight147/148 | Science | 4 | 94.9 | 101.4 | 700 |
| 03/29/22 | Activate Flight147/148 | Science | 3.7 | 98.6 | 97.7 | 700 |
| 05/03/22 | Activate Flight149 | Science | 3.2 | 101.8 | 94.5 | 710 |
| 05/05/22 | Activate Flight150/151 | Science | 3.4 | 105.2 | 91.1 | 726 |
| 05/05/22 | Activate Flight150/151 | Science | 3.5 | 108.7 | 87.6 | 728 |
| 05/10/22 | Activate Flight 152 | Science | 3.4 | 112.1 | 84.2 | 720 |
| 05/16/22 | Activate Flight 153/154 | Science | 3.4 | 115.5 | 80.8 | 685 |
| 05/16/22 | Activate Flight 153/154 | Science | 3.3 | 118.8 | 77.5 | 685 |
| 05/17/22 | Activate Flight 155 | Science | 3.4 | 122.2 | 74.1 | 682 |
| 05/18/22 | Activate Flight 156/157 | Science | 3 | 125.2 | 71.1 | 732 |
| 05/18/22 | Activate Flight 156/157 | Science | 4.2 | 129.4 | 66.9 | 732 |

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|--------------------------|-----------------------------|---------|-----|-------|------|-----|
| 05/20/22 | Activate Flight 158 | Science | 3.4 | 132.8 | 63.5 | 700 |
| 05/21/22 | Activate Flight 159 & 160 | Science | 3.2 | 136 | 60.3 | 640 |
| 05/21/22 | Activate Flight 159 & 160 | Science | 3.7 | 139.7 | 56.6 | 735 |
| 05/31/22 | Activate Flight 161 | Science | 3.6 | 143.3 | 53 | 700 |
| 06/05/22 | Activate Flight 165 | Science | 3.5 | 146.8 | 49.5 | 700 |
| 06/07/22 | Activate Flight 166 and 167 | Science | 3.7 | 150.5 | 45.8 | 700 |
| 06/07/22 | Activate Flight 166 and 167 | Science | 3.5 | 154 | 42.3 | 700 |
| 06/08/22 | Activate Flight 168 and 169 | Science | 3.3 | 157.3 | 39 | 700 |
| 06/08/22 | Activate Flight 168 and 169 | Science | 3.7 | 161 | 35.3 | 700 |
| 06/10/22 | Activate Flight 170 & 171 | Science | 3.7 | 164.7 | 31.6 | 790 |
| 06/10/22 | Activate Flight 170 & 171 | Science | 4.1 | 168.8 | 27.5 | 750 |
| 06/11/22 | Activate Flight 172 & 173 | Science | 3.9 | 172.7 | 23.6 | 805 |
| 06/11/22 | Activate Flight 172 & 173 | Science | 3.7 | 176.4 | 19.9 | 800 |
| 06/13/22 | Activate Flight 174 & 175 | Science | 3.7 | 180.1 | 16.2 | 723 |
| 06/13/22 | Activate Flight 174 & 175 | Science | 3.6 | 183.7 | 12.6 | 725 |
| 06/14/22 | Activate Flight 176 | Science | 3.9 | 187.6 | 8.7 | 800 |
| 06/16/22 | Activate Flight 177 | Science | 1.9 | 189.5 | 6.8 | 378 |
| 06/17/22 | Activate Flight 178 | Science | 3.8 | 193.3 | 3 | 723 |
| 06/18/22 | Activate Flight 179/180 | Science | 3.7 | 197 | -0.7 | 651 |
| 06/18/22 | Activate Flight 179/180 | Ferry | 0.2 | 197.2 | -0.9 | 20 |

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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