

## B-200 (UC-12B) - LARC 06/14/22

**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 176

**Payload Configuration:** HSRL II/RSP

**Nav Data Collected:** No

**Total Flight Time:** 3.9 hours

**Submitted by:** Matthew Coldsnow on 06/14/22

**Flight Segments:**

|                           |  |                |                  |
|---------------------------|--|----------------|------------------|
| <b>From:</b>              | txkf   | <b>To:</b>     | TXKF             |
| <b>Start:</b>             | 06/14/22 12:58 Z   | <b>Finish:</b> | 06/14/22 16:50 Z |
| <b>Flight Time:</b>       | 3.9 hours  |                |                  |
| <b>Log Number:</b>        | <a href="#">22B005</a>   | <b>PI:</b>     | Armin Sorooshian |
| <b>Funding Source:</b>    | Barry Lefer - NASA - SMD - ESD Earth Venture Suborbital-3 Program  |                |                  |
| <b>Purpose of Flight:</b> | Science  |                |                  |
| <b>Miles Flown:</b>       | 800 miles  |                |                  |
| <b>Comments:</b>          | Flight planned as a statistical survey (TXKF SOMRR ADEM R BDA 3149N06420W PIREX 3010N06210W PIREX 3149N06420W 3215N06500W 322211N0651131W TXKF) with an option to switch to a Process Study. Approximately 100 NM south of BDA a line of clouds appeared to be ideal for a Process Study. The process study started around a build-up located at 3021.25N 06425.49W. We estimate the buildup of interest moved approximately 12 NM over a 2 hr period. All portions of the flight were within 10 min up with the Falcon. Five dropsondes were released approximately 15 NM from the buildup of interest. A clear air spiral was performed at 3036.64N 06427.16. Winds were light out of the north (10-20 knots). |                |                  |

**Flight Hour Summary:**

|                                       |               |
|---------------------------------------|---------------|
|                                       | <b>22B005</b> |
| <b>Flight Hours Approved in SOFRS</b> | 196.3         |
| <b>Total Used</b>                     | 197.2         |
| <b>Total Remaining</b>                | -0.9          |

### 22B005 Flight Reports

| Date                     | Flt #  | Purpose of Flight | Duration | Running Total | Hours Remaining | Miles Flown |
|--------------------------|--|-------------------|----------|---------------|-----------------|-------------|
| <a href="#">02/14/22</a> | Activate Flight ICF (Update each flight)     | Science           | 1.8      | 1.8           | 194.5           | 400         |
| <a href="#">02/15/22</a> | Activate Flight 120/121 (Update each flight) | Science           | 3.6      | 5.4           | 190.9           | 708         |
| <a href="#">02/15/22</a> | Activate Flight 120/121 (Update each flight) | Science           | 3.9      | 9.3           | 187             | 806         |
| <a href="#">02/16/22</a> | Activate Flight 122/123 (Update each flight) | Science           | 3.5      | 12.8          | 183.5           | 713         |
| <a href="#">02/16/22</a> | Activate Flight 122/123 (Update each flight) | Science           | 3.7      | 16.5          | 179.8           | 782         |
| <a href="#">02/19/22</a> | Activate Flight 124/125 (Update each flight) | Science           | 3.9      | 20.4          | 175.9           | 739         |
| <a href="#">02/19/22</a> | Activate Flight 124/125 (Update each flight) | Science           | 3.6      | 24            | 172.3           | 690         |
| <a href="#">02/22/22</a> | Activate Flight 126/127 (Update each flight) | Science           | 3.3      | 27.3          | 169             | 710         |
| <a href="#">02/22/22</a> | Activate Flight 126/127 (Update each flight) | Science           | 3.5      | 30.8          | 165.5           | 710         |

DO NOT CITE

|                          |   |         |     |       |       |     |
|--------------------------|---|---------|-----|-------|-------|-----|
| <a href="#">02/26/22</a> | Activate Flight128/129a/129b (Update eachflight)              | Science | 3   | 33.8  | 162.5 | 700 |
| <a href="#">02/26/22</a> | Activate Flight 128/129a/129b (Update each flight)            | Science | 0.3 | 34.1  | 162.2 | 25  |
| <a href="#">02/26/22</a> | Activate Flight 128/129a/129b (Update each flight)            | Science | 2.1 | 36.2  | 160.1 | 600 |
| <a href="#">03/02/22</a> | Activate Flight 130 (Update each flight)                      | Science | 3.8 | 40    | 156.3 | 714 |
| <a href="#">03/03/22</a> | Activate Flight 131/132 (Update each flight)                  | Science | 3.5 | 43.5  | 152.8 | 717 |
| <a href="#">03/03/22</a> | Activate Flight 131/132 (Update each flight)                  | Science | 3.4 | 46.9  | 149.4 | 700 |
| <a href="#">03/04/22</a> | Activate Flight 133/134 (Update each flight)                  | Science | 3.8 | 50.7  | 145.6 | 761 |
| <a href="#">03/04/22</a> | Activate Flight 133/134 (Update each flight)                  | Science | 3.7 | 54.4  | 141.9 | 712 |
| <a href="#">03/07/22</a> | Activate Flight 135 (Update each flight)                      | Science | 3.4 | 57.8  | 138.5 | 716 |
| <a href="#">03/13/22</a> | Activate Flight 137/138 (136 was HU only)(Update each flight) | Science | 4   | 61.8  | 134.5 | 714 |
| <a href="#">03/13/22</a> | Activate Flight 137/138 (136 was HU only)(Update each flight) | Science | 3.9 | 65.7  | 130.6 | 700 |
| <a href="#">03/14/22</a> | Activate Flight139/140  | Science | 3.4 | 69.1  | 127.2 | 0   |
| <a href="#">03/14/22</a> | Activate Flight139/140  | Science | 3.5 | 72.6  | 123.7 | 0   |
| <a href="#">03/22/22</a> | Activate Flight142/143  | Science | 2.6 | 75.2  | 121.1 | 690 |
| <a href="#">03/22/22</a> | Activate Flight142/143  | Science | 3.8 | 79    | 117.3 | 680 |
| <a href="#">03/26/22</a> | Activate Flight144/145  | Science | 3.9 | 82.9  | 113.4 | 750 |
| <a href="#">03/26/22</a> | Activate Flight144/145  | Science | 4   | 86.9  | 109.4 | 800 |
| <a href="#">03/28/22</a> | Activate Flight146  | Science | 4   | 90.9  | 105.4 | 705 |
| <a href="#">03/29/22</a> | Activate Flight147/148  | Science | 4   | 94.9  | 101.4 | 700 |
| <a href="#">03/29/22</a> | Activate Flight147/148  | Science | 3.7 | 98.6  | 97.7  | 700 |
| <a href="#">05/03/22</a> | Activate Flight149  | Science | 3.2 | 101.8 | 94.5  | 710 |
| <a href="#">05/05/22</a> | Activate Flight150/151  | Science | 3.4 | 105.2 | 91.1  | 726 |
| <a href="#">05/05/22</a> | Activate Flight150/151  | Science | 3.5 | 108.7 | 87.6  | 728 |
| <a href="#">05/10/22</a> | Activate Flight 152   | Science | 3.4 | 112.1 | 84.2  | 720 |
| <a href="#">05/16/22</a> | Activate Flight 153/154                                       | Science | 3.4 | 115.5 | 80.8  | 685 |
| <a href="#">05/16/22</a> | Activate Flight 153/154                                       | Science | 3.3 | 118.8 | 77.5  | 685 |
| <a href="#">05/17/22</a> | Activate Flight 155   | Science | 3.4 | 122.2 | 74.1  | 682 |
| <a href="#">05/18/22</a> | Activate Flight 156/157                                       | Science | 3   | 125.2 | 71.1  | 732 |
| <a href="#">05/18/22</a> | Activate Flight 156/157                                       | Science | 4.2 | 129.4 | 66.9  | 732 |
| <a href="#">05/20/22</a> | Activate Flight 158   | Science | 3.4 | 132.8 | 63.5  | 700 |
| <a href="#">05/21/22</a> | Activate Flight 159 & 160                                     | Science | 3.2 | 136   | 60.3  | 640 |
| <a href="#">05/21/22</a> | Activate Flight 159 & 160                                     | Science | 3.7 | 139.7 | 56.6  | 735 |
| <a href="#">05/31/22</a> | Activate Flight 161   | Science | 3.6 | 143.3 | 53    | 700 |
| <a href="#">06/05/22</a> | Activate Flight 165   | Science | 3.5 | 146.8 | 49.5  | 700 |
| <a href="#">06/07/22</a> | Activate Flight 166 and 167                                   | Science | 3.7 | 150.5 | 45.8  | 700 |
| <a href="#">06/07/22</a> | Activate Flight 166 and 167                                   | Science | 3.5 | 154   | 42.3  | 700 |
| <a href="#">06/08/22</a> | Activate Flight 168 and 169                                   | Science | 3.3 | 157.3 | 39    | 700 |
| <a href="#">06/08/22</a> | Activate Flight 168 and 169                                   | Science | 3.7 | 161   | 35.3  | 700 |
| <a href="#">06/10/22</a> | Activate Flight 170 & 171                                     | Science | 3.7 | 164.7 | 31.6  | 790 |
| <a href="#">06/10/22</a> | Activate Flight 170 & 171                                     | Science | 4.1 | 168.8 | 27.5  | 750 |
| <a href="#">06/11/22</a> | Activate Flight 172 & 173                                     | Science | 3.9 | 172.7 | 23.6  | 805 |

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|                          |                           |         |     |       |      |     |
|--------------------------|---------------------------|---------|-----|-------|------|-----|
| <a href="#">06/11/22</a> | Activate Flight 172 & 173 | Science | 3.7 | 176.4 | 19.9 | 800 |
| <a href="#">06/13/22</a> | Activate Flight 174 & 175 | Science | 3.7 | 180.1 | 16.2 | 723 |
| <a href="#">06/13/22</a> | Activate Flight 174 & 175 | Science | 3.6 | 183.7 | 12.6 | 725 |
| <a href="#">06/14/22</a> | Activate Flight 176       | Science | 3.9 | 187.6 | 8.7  | 800 |
| <a href="#">06/16/22</a> | Activate Flight 177       | Science | 1.9 | 189.5 | 6.8  | 378 |
| <a href="#">06/17/22</a> | Activate Flight 178       | Science | 3.8 | 193.3 | 3    | 723 |
| <a href="#">06/18/22</a> | Activate Flight 179/180   | Science | 3.7 | 197   | -0.7 | 651 |
| <a href="#">06/18/22</a> | 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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