

B-200 (UC-12B) - LARC 03/26/22

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 Flight144/145

Payload Configuration: HSRL II/RSP

Nav Data Collected: No

Total Flight Time: 7.9 hours

Submitted by: Michael S. Wusk on 03/26/22

Flight Segments:

| | | | |
|---------------------------|--|----------------|------------------|
| From: | KLFI | To: | KLFI |
| Start: | 03/26/22 12:14 Z | Finish: | 03/26/22 16:08 Z |
| Flight Time: | 3.9 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: | 750 miles | | |
| Comments: | First flight of a double flight day with HU25. Planned route KLFI ECG OXANA 3230N0712430W OXANA ECG KLFI. UC12 taxi and takeoff about 15 minutes early for timing. Plan to go to turn point but expect adjustments based on HU spiral point. Nominal take off and climb out. FL280. Proceed outbound ahead of HU. HU determine spiral point of 3311.2N07215.3W. Extend slightly beyond TP for timing then back over spiral point when HU climbing through about 5k'. Winds at altitude were ~95 kts direct cross to path. 3 sondes dropped Spiral point, OXANA, Coast. Once over land request direct KLFI from OPHEA for RNAV 26. Winds at KLFI were 290@19G27. Crew was Coldsnow, Wusk, Shingler. | | |

| | | | |
|---------------------------|--|----------------|------------------|
| From: | KLFI | To: | KLFI |
| Start: | 03/26/22 17:21 Z | Finish: | 03/26/22 21:20 Z |
| Flight Time: | 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: | 800 miles | | |
| Comments: | Second flight of a double flight day with HU25. Planned route KLFI ECG OXANA 3210N07110W OXANA ECG KLFI. UC12 taxi and takeoff about 15 minutes early for timing. Plan to go to turn point. ATC offered FL290. Winds at altitude were ~95 kts direct cross to path. 3 sondes dropped turn point, OXANA, Coast. Once over land request direct KLFI from OPHEA for Visual 26. Winds at KLFI were 290@28G34. Crew Was Coldsnow, Wusk, Seaman. | | |

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 |

DO NOT CITE

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

DO NOT CITE

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