

B-200 (UC-12B) - LARC 01/29/21

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

Flight Number: Activate Flight 34

Payload Configuration: HSRL II/RSP

Nav Data Collected: No

Total Flight Time: 3 hours

Submitted by: Luke Delaney on 01/29/21

Flight Segments:

| | | | |
|---------------------------|--|----------------|------------------|
| From: | KLFI | To: | KLFI |
| Start: | 01/29/21 07:55 Z | Finish: | 01/29/21 10:55 Z |
| Flight Time: | 3 hours | | |
| Log Number: | 21B005 | PI: | Armin Sorooshian |
| Funding Source: | Barry Lefer - NASA - SMD - ESD Earth Venture Suborbital-3 Program | | |
| Purpose of Flight: | Science | | |
| Miles Flown: | 700 miles | | |
| Comments: | <p>First science flight for the UC-12 in support of ACTIVATE Campaign #3. This event also served as a continued instrument calibration flight to validate the system functionality. It was conducted solo (independent of the HU-25), although the same geographic region was covered during both sorties. The weather was clear with a broken/overcast layer at approximately 4000 ft, and a predominant wind from the northwest at 130 knots. Data was collected at 27000 ft MSL for most of the flight, and a descent to 26000 ft MSL was conducted at the end of collection effort to verify some instrument parameters. Two dropsondes were deployed, one near OXANA and the other midway down track (ECG - OXANA). All objectives were achieved and no system discrepancies were noted, pending post-flight data analysis.</p> | | |

Flight Hour Summary:

| | |
|---------------------------------------|---------------|
| | 21B005 |
| Flight Hours Approved in SOFRS | 200 |
| Total Used | 153 |
| Total Remaining | 47 |

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 |

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

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

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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