

B-200 (UC-12B) - LARC 03/04/22

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 133/134 (Update each flight)

Payload Configuration: HSRL II/RSP

Nav Data Collected: No

Total Flight Time: 7.5 hours

Submitted by: Matthew Coldsnow on 03/04/22

Flight Segments:

From:	KLFI	To:	klfi
Start:	03/04/22 13:45 Z	Finish:	03/04/22 17:31 Z
Flight Time:	3.8 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:	761 miles		
Comments:	Flight was briefed as LFI ECG OXANA 3230N 072W OXANA ECG LFI. Flight was flown as briefed except we changed the end point to 3211N 07143W to capture the frontal line. Three dropsondes were planned but 4 were dropped. The additional dropsonde was added on the other side of the frontal line. All dropsondes were nominal. Winds were out of the West/Nothwest between 50-80 knots. All research systems were nominal. Timing was within 10 minutes for the entire flight path over water.		

From:	klfi	To:	klfi
Start:	03/04/22 18:42 Z	Finish:	03/04/22 22:23 Z
Flight Time:	3.7 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:	712 miles		
Comments:	Flight flown as briefed (LFI ATLIC ZIBUT SHOKR ZIBUT ATLIC). Three dropsondes were released during flight and all performed nominally. UC-12 was delayed on the ground after the Falcon took off due to traffic (10 min delay). Winds were strong out of the Southwest (80-120 kts). Due to delay and winds, the UC-12 was able to get with and stay with the falcon on the outbound leg but on the inbound leg, portions of the flight were flown outside of 10nm coincidence. Falcon was outside of 10 min abeam SAVIC. Falcon accomplished a 360 abeam ROLLE to get timing back within 5 min. However, by the time the UC-12 reached ZIBUT, the falcon was once again outside of 10 min. All research systems performed nominally. UC-12 had to shutter laser when NASA426 passed directly underneath at FL250.		

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

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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

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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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