

B-200 (UC-12B) - LARC 07/09/13

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

Flight Number: DAWN 2013 R-6

Payload Configuration: NASA Langley's Doppler Aerosol Wind Lidar System (DAWN)

Nav Data Collected: No

Total Flight Time: 3.2 hours

Submitted by: Michael S. Wusk on 07/10/13

Flight Segments:

From:	KLFI	To:	KLFI
Start:	07/09/13 12:58 Z	Finish:	07/09/13 16:12 Z
Flight Time:	3.2 hours		
Log Number:	13B012	PI:	Michael Kavaya
Funding Source:	Bruce Fisher - NASA - SMD - ESD LARC Chief Engineer, Research Services Directorate		
Purpose of Flight:	Science		
Comments:	<p>DAWN's DATA flight #6, Tues 9 July. Target area Charlotte, overall very effective. N528NA Takeoff: 0858 Landing: 1212 Duration: 3.2 hrs (1.2 hr above 12.5K, TO weight 13,500#) Crew: Kagey (PIC), Wusk (OE), Kavaya (QNC), Cowen (QNC) Preflight and takeoff procedures were nominal. We took off on Runway 26, and climbed to the west eventually reaching FL260 after about 30 minutes. Larry completed powering up the DAWN system laser and ran systems checks enroute. Cloud cover existed below for most of the enroute portion of the flight with some higher cirrus in some areas. As we approached Charlotte the higher clouds dissipated and the lower cloud cover became more broken to scattered. We completed 7 data lines at FL260, then descended down to FL200 and completed another 6. Data lines ran from 1412Z to 1459Z. The passes occurred with the following overpass times rounded to nearest minute: #1 HDG 258 @ 1413Z, #2 HDG 030 @ 1418, #3 HDG 180 @ 1421, #4 HDG 300 @ 1425, #5 HDG 050 @ 1429, #6 HDG 120 @ 1432, #7 HDG 290 @ 1436. The remaining 6 passes were conducted at FL200. #8 HDG 045 @ 1042, #9 HDG 170 @ 1445, #10 HDG 290 @ 1448, #11 HDG 050 @ 1451, #12 HDG 220 @ 1454, #13 HDG 350 @ 1458. The return route was flown at FL240 with the DRONE1 arrival back into Langley. Next event scheduled: July 10, with a proposed flight over the Va Beach area. 0800 brief/0830 board/0900 takeoff. Take-off weight planned for 13,000#</p>		

Flight Hour Summary:

	13B012
Flight Hours Approved in SOFRS	25
Total Used	23.9
Total Remaining	1.1

13B012 Flight Reports

Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining	Miles Flown
06/12/13	DAWN 2013 ICF#1	Check	3.1	3.1	21.9	
06/14/13	DAWN 2013 R-1	Science	2.1	5.2	19.8	
06/21/13	DAWN 2013 R-2	Science	2	7.2	17.8	
06/24/13	DAWN 2013 R-3	Science	2.4	9.6	15.4	
06/26/13	DAWN 2013 R-4	Science	2.3	11.9	13.1	
06/28/13	DAWN 2013 R-5	Science	2.5	14.4	10.6	
07/09/13	DAWN 2013 R-6	Science	3.2	17.6	7.4	

07/10/13	DAWN 2013 R-7	Science	2	19.6	5.4
07/17/13	DAWN 2013 R-8	Science	2.3	21.9	3.1
07/23/13	DAWN 2013 R-9	Science	2	23.9	1.1

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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