

B-200 (UC-12B) - LARC 07/10/13

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

Flight Number: DAWN 2013 R-7

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

Nav Data Collected: No

Total Flight Time: 2 hours

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

Flight Segments:

From:	KLFI	To:	KLFI
Start:	07/10/13 12:40 Z	Finish:	07/10/13 14:42 Z
Flight Time:	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 #7, Wed 10 July. Target area VA-beach, overall very effective. N528NA Takeoff: 0840 L Landing: 1042 L Duration: 2.0 hrs (0.7 hr above 12.5K) Crew: Kagey (PIC), Wusk (OE), Cowen (QNC) Preflight and takeoff procedures were nominal. We took off on Runway 26, and climbed through a overcast cloud layer at between 1000-2000'. Larry completed powering up the DAWN system laser at the east end of the work area after overflying the first leg. Cloud cover existed over the NW corner of the work area and covered about half of the first track line. Heading west bound on the #6 track line we descended down to 3800 and found clear conditions below that would persist through the rest of the flight. Data lines ran from 1239Z to 1426Z in the following order:, 1, 6, 2, 7, 3, 8, 4, 9, 5, 10, 11, 12. We overflew the Chesapeake Light Tower at 3,800' MSL at 1442Z. The passes were in the following order (times were rounded to nearest minute to help extract data): Line 1: 1254Z – 1257Z (W-E) Line 6: 1300Z – 1306Z (E-W) Line 2: 1308Z – 1312Z (W-E) Line 7: 1316Z – 1321Z (E-W) Line 3: 1324Z – 1328Z (W-E) Line 8: 1332Z – 1337Z (E-W) Line 4: 1340Z – 1345Z (W-E) Line 9: 1348Z – 1354Z (E-W) Line 5: 1357Z – 1401Z (W-E) Line 10: 1405Z – 1410Z (E-W) Line 11: 1415Z – 1418Z (W-E) Line 12: 1421Z – 1426Z (E-W). There was no requests made to repeat the first leg, or complete a diagonal leg as done on some previous flights. Next event scheduled: Probably next week, last flight requires clear conditions at Charlotte. 0800 brief/0830 board/0900 takeoff for Charlotte. fuel load will be 2750 lbs.</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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