

B-200 (UC-12B) - LARC 06/12/13

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

Flight Number: DAWN 2013 ICF#1

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

Nav Data Collected: No

Total Flight Time: 3.1 hours

Submitted by: Gregory L. Slover on 06/18/13

Flight Segments:

From:	KLFI	To:	KLFI
Start:	06/12/13 13:55 Z	Finish:	06/12/13 17:01 Z
Flight Time:	3.1 hours		
Log Number:	13B012	PI:	Michael Kavaya
Funding Source:	Bruce Fisher - NASA - SMD - ESD LARC Chief Engineer, Research Services Directorate		
Purpose of Flight:	Check		
Comments:	<p>Instrument Check Flight with multiple passes over Charlotte, NC airport. Cruised at FL260 enroute to CLT, but dropped down to FL240 for cirrus clouds encroaching at that altitude. FL240 was clear below with FEW clouds in the mid-teens (estimated). Two 30-60-30 S-turns were required enroute to keep the DAWN INU tight. The user-defined waypoint for the radar site was loaded as "CCLT" and can be reused easily. The waypoint is: N35 12.74 W080 55.96 as loaded in the G-430. The passes were as follows, times are round minutes to help find the data points if needed: 1) FL240, HDG252, CRS247, time 1511Z 2) FL240, HDG028, CRS037, time 1516Z 3) FL240, HDG172, CRS174, time 1520Z 4) FL240, HDG324, CRS325, time 1525Z 5) FL240, HDG096, CRS106, time 1530Z 6) FL220, HDG260, CRS256, time 1536Z 7) FL220, HDG~028, CRS??, time 1541Z After point 4 above, the system lost power and ran solely on UPS with some blank screens on the research system. No load shed observed, MSN PWR CB was in and the cockpit RSCH PWR light/switch showed normal. Larry went to the back to check circuit breakers. Post flight analysis did show a breaker had popped, but it wasn't found in flight. We RTB'd about 15 min early since the system wasn't coming back up.</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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