

DC-8 07/20/16

Aircraft: [DC-8 - AFRC](#) (See full schedule)

Flight Number: 1118

Payload Configuration: ATom-1 Configuration

Nav Data Collected: No

Total Flight Time: 1 hours

Submitted by: Timothy Moes on 07/20/16

Flight Segments:

From:	KPMD	To:	KPMD
Start:	07/20/16 22:34 Z	Finish:	07/20/16 23:31 Z
Flight Time:	1 hours		
Log Number:	168002	PI:	Steven Wofsy
Funding Source:	Jennifer Olson - NASA - SMD - ESD - ESSP Mission Manager		
Purpose of Flight:	Check		
Comments:	<p>For our 3rd flight this week to troubleshoot the unknown vibration, we removed TOGA and QCLS (SAGA upper inlets were still off the airplane). Success! We had no vibration on this flight. We flew at Mach 0.78 for altitude climb from 28kft to 35kft. At 35kft, we banked +/- 30 deg, did a wings-level alpha sweep, initiated an accel decel to M 0.83 and back to 0.78. We then climbed to 41kft to declare an RTB with no sign of the vibration returning. We believe the problem was with the TOGA afterbody and we have a plan to fix or remove it without impacting the science measurement. The aircraft returned in good shape, except the #2 thrust reverser did not actuate on landing.</p>		

Flight Hour Summary:

	168002
Flight Hours Approved in SOFRS	104.1
Total Used	107.5
Total Remaining	-3.4

168002 Flight Reports

Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining	Miles Flown
07/11/16	1113	Check	1.5	1.5	102.6	
07/12/16	1114	Check	3.9	5.4	98.7	
07/18/16	1116	Check	1.4	6.8	97.3	
07/19/16	1117	Check	1.1	7.9	96.2	
07/20/16	1118	Check	1	8.9	95.2	
07/26/16 - 07/27/16	1119	Check	6.5	15.4	88.7	
07/28/16	1120	Check	0.8	16.2	87.9	
07/29/16	1121	Science	9.4	25.6	78.5	
08/01/16 - 08/02/16	1122	Science	10.2	35.8	68.3	
08/03/16 - 08/04/16	1123	Science	7.3	43.1	61	
08/06/16 - 08/07/16	1124	Science	8.6	51.7	52.4	
08/08/16 - 08/09/16	1125	Science	6.6	58.3	45.8	
08/12/16 - 08/13/16	1126	Science	10.6	68.9	35.2	
08/15/16	1127	Science	9.4	78.3	25.8	
08/17/16	1128	Science	8.5	86.8	17.3	

08/20/16	1129	Science	9.8	96.6	7.5
08/22/16	1130	Science	6	102.6	1.5
08/23/16	1131	Science	4.9	107.5	-3.4

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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