

DC-8 07/27/18

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

Flight Number: 1275

Payload Configuration: HIWC-II configuration - Honeywell RDR-4000 Wx RADAR, OID, DLH, DLH-X, AVOCET, WCM-2000 (3), UTAS T, PIP, BHS, 2D-S, MMS & piggybacks ARMAS & Tinman

Nav Data Collected: Yes

Total Flight Time: 3.1 hours

Submitted by: Timothy Moes on 07/31/18

Flight Segments:

From:	KPMD	To:	KPMD
Start:	07/27/18 20:06 Z	Finish:	07/27/18 23:10 Z
Flight Time:	3.1 hours		
Log Number:	188010	PI:	Steven Harrah
Funding Source:	Steven Harrah - Project Manager for Advanced Icing Radar Development		
Purpose of Flight:	Check		
Comments:	<p>Science Instrument Check Flight - This was the first opportunity to acquire data on the icing instruments to complete an integrated systems checks of instruments and various networked data feeds from the DC-8. We performed speed sweeps near 28Kft, 32Kft and 36Kft in order to calibrate the auxiliary pitot probe which has higher heater power than the ship's pitot probes. We had a few brief encounters with cumulous clouds to evaluate background water vapor sensor inlets and the cloud particle sizing instruments. We also performed elevator and rudder doublets to gather data to improve the accuracy of the Meteorological Measurement System (MMS) which will provide vertical winds. For the most part, science instruments did well except for the PIP probe which did not work well throughout this flight. The issue looked like an alignment problem. The 2DS and CDP probe worked well during the cloud encounters. We had nice particle images from the 2D-S. The aircraft did well and returned with no write-ups.</p>		

Flight Hour Summary:

	188010
Flight Hours Approved in SOFRS	67.5
Total Used	67.7
Total Remaining	-0.2

188010 Flight Reports

Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining	Miles Flown
07/25/18	1273	Check	1.3	1.3	66.2	
07/27/18	1275	Check	3.1	4.4	63.1	
07/30/18	1276	Ferry	4.8	9.2	58.3	
08/02/18	1277	Science	4.9	14.1	53.4	
08/06/18	1278	Science	5.1	19.2	48.3	
08/08/18	1279	Ferry	4.5	23.7	43.8	
08/15/18 - 08/16/18	1280	Science	10.1	33.8	33.7	
08/16/18 - 08/17/18	1281	Science	10.1	43.9	23.6	
08/18/18	1282	Science	7.7	51.6	15.9	
08/19/18 - 08/20/18	1283	Science	6.9	58.5	9	
08/20/18 - 08/21/18	1284	Science	9.2	67.7	-0.2	

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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