

## DC-8 04/06/18

**Aircraft:**

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

**Flight Number:**

1249

**Payload Configuration:**

ATom-4 Configuration - science instruments installed but not operating for this flight

**Nav Data Collected:**

Yes

**Total Flight Time:**

3.6 hours

**Submitted by:**

Timothy Moes on 04/12/18

**Flight Segments:**

<b>From:</b>	KPMD - Palmdale Regoinal Airport	<b>To:</b>	KPMD
<b>Date:</b>	04/06/18		
<b>Flight Time:</b>	3.6 hours		
<b>Log Number:</b>	<a href="#">188004</a>	<b>PI:</b>	Steven Wofsy
<b>Funding Source:</b>	Jennifer Olson - NASA - SMD - ESD - ESSP Mission Manager		
<b>Purpose of Flight:</b>	Check		
<b>Comments:</b>	<p>ATom-4 RVSM Certification Flight. The ATHOS inlet is located at the Nadir #2 position which is close to the static pressure ports. AFRC had calibrated the static pressure position error on the altimetry system in 1999 and needed to re-validate the aircraft Reduced Vertical Separation Minimum (RVSM) certification. This was done by overflying the FAA RVSM Aircraft Geometric Height Measurement Element (AGHME) located in Phoenix, AX. Overflights were done at Mach 0.76, 0.78, 0.80, and 0.82. Results received on April 11 showed valid RVSM Certification for the ATom-4 configuration. This flight also included a tower-fly-by and air data calibration maneuver at FL290. Unfortunately, due to high ground winds, the EAFB Weather shop did not launch a weather balloon. Therefore, the air data calibration data obtained at FL290 may not be useful. The aircraft returned in good shape with only minor writeups.</p>		

**Flight Hour Summary:**

	<b>188004</b>
<b>Flight Hours Approved in SOFRS</b>	122.2
<b>Total Used</b>	133.2
<b>Total Remaining</b>	-11

**188004 Flight Reports**

Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining	Miles Flown
<a href="#">04/06/18</a>	1249	Check	3.6	3.6	118.6	
<a href="#">04/10/18 - 04/11/18</a>	1251	Check	5	8.6	113.6	
<a href="#">04/13/18 - 04/14/18</a>	1252	Check	7.9	16.5	105.7	
<a href="#">04/24/18 - 04/25/18</a>	1253	Science	9.5	26	96.2	
<a href="#">04/26/18</a>	1254	Check	2.1	28.1	94.1	
<a href="#">04/27/18 - 04/28/18</a>	1255	Science	10.3	38.4	83.8	
<a href="#">04/29/18 - 04/30/18</a>	1256	Science	8.1	46.5	75.7	
<a href="#">05/01/18 - 05/02/18</a>	1257	Science	8.2	54.7	67.5	

<a href="#">05/03/18 - 05/04/18</a>	1258	Science	7.9	62.6	59.6
<a href="#">05/06/18 - 05/07/18</a>	1259	Science	10.2	72.8	49.4
<a href="#">05/09/18</a>	1260	Science	10.7	83.5	38.7
<a href="#">05/12/18</a>	1261	Science	10	93.5	28.7
<a href="#">05/14/18</a>	1262	Science	9.4	102.9	19.3
<a href="#">05/17/18</a>	1263	Science	9.7	112.6	9.6
<a href="#">05/18/18</a>	1264	Science	3.2	115.8	6.4
<a href="#">05/19/18 - 05/20/18</a>	1265	Science	10.6	126.4	-4.2
<a href="#">05/21/18</a>	1266	Science	6.8	133.2	-11

*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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