

## DC-8 04/24/18 - 04/25/18

**Aircraft:**

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

**Flight Number:**

1253

**Payload Configuration:**

ATom-4 configuration - AMP, AO2, ARMAS, ATHOS, CANOE, CAFS, CAPS, CIT-CIMS, DLH, DLH-X, GT-CIMS, HR-AMS, ISAF, Medusa, MMS, NOAA-CIMS, NOyO3, PALMS, PANTHER, PFP, Picarro, QCLS, SAGA, SO2, SOAP, SP2, TOGA, UCATS, WAS

**Nav Data Collected:**

Yes

**Archive Data:**

[20180424](#) (4 binary files; 79 archive (plain-text) files)

**Total Flight Time:**

9.5 hours

**Submitted by:**

Timothy Moes on 04/25/18

**Flight Segments:**

<b>From:</b>	KPMD	<b>To:</b>	KPMD
<b>Start:</b>	04/24/18 14:45 Z	<b>Finish:</b>	04/25/18 00:15 Z
<b>Flight Time:</b>	9.5 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>	Science		
<b>Comments:</b>	ATom-4 science flight RF01. Southbound almost to the equator & back. Successfully completed the four planned vertical profiles. The aircraft HF and Controller Pilot Data Link Communication (CPDLC) systems both struggled on this flight which resulted in us not getting as far South as planned. However, a successful flight from the science perspective. AFRC will be troubleshooting the HF and CPDLC systems. Other than that, the airplane performed well. Science instruments performed well.		

**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.*

**Related Science Report:**

## ATom - DC-8 04/24/18 Science Report

**Mission:**

ATom

**Mission Summary:**

ATom-4 SF#1 Science Report: Flight from Palmdale, CA to the equator.

**File:**

[ATom4\\_RF01\\_PrathersLog.pdf](#)

**Submitted by:**

Erin Czech on 05/05/18

Page Last Updated: April 22, 2017

Page Editor: Katja Drdla

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