

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; 80 archive (plain-text) files)

Total Flight Time:

9.5 hours

Submitted by:

Timothy Moes on 04/25/18

Flight Segments:

From:	KPMD	To:	KPMD
Start:	04/24/18 14:45 Z	Finish:	04/25/18 00:15 Z
Flight Time:	9.5 hours		
Log Number:	188004	PI:	Steven Wofsy
Funding Source:	Jennifer Olson - NASA - SMD - ESD - ESSP Mission Manager		
Purpose of Flight:	Science		
Comments:	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:

	188004
Flight Hours Approved in SOFRS	122.2
Total Used	133.2
Total Remaining	-11

188004 Flight Reports

Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining	Miles Flown
04/06/18	1249	Check	3.6	3.6	118.6	
04/10/18 - 04/11/18	1251	Check	5	8.6	113.6	
04/13/18 - 04/14/18	1252	Check	7.9	16.5	105.7	
04/24/18 - 04/25/18	1253	Science	9.5	26	96.2	
04/26/18	1254	Check	2.1	28.1	94.1	
04/27/18 - 04/28/18	1255	Science	10.3	38.4	83.8	
04/29/18 - 04/30/18	1256	Science	8.1	46.5	75.7	
05/01/18 - 05/02/18	1257	Science	8.2	54.7	67.5	
05/03/18 - 05/04/18	1258	Science	7.9	62.6	59.6	

05/06/18 - 05/07/18	1259	Science	10.2	72.8	49.4
05/09/18	1260	Science	10.7	83.5	38.7
05/12/18	1261	Science	10	93.5	28.7
05/14/18	1262	Science	9.4	102.9	19.3
05/17/18	1263	Science	9.7	112.6	9.6
05/18/18	1264	Science	3.2	115.8	6.4
05/19/18 - 05/20/18	1265	Science	10.6	126.4	-4.2
05/21/18	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

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