

ATom - DC-8 10/06/17 Science Report

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

Date: Friday, October 6, 2017

Mission: ATom

Mission Summary:

Science report for ATom-3 KOA-NAN flight

Submitted by: Erin Czech on 05/30/18

File:

 [KOA-NAN Report draft.pdf](#)

Related Flight Report:

DC-8 10/06/17 - 10/07/17

Flight Number: 1225

Payload Configuration: ATom-3 configuration - AMP, AO2, ARMAS, ATHOS, CAFE, CAFS, CAPS, CIT-CIMS, DLH, DLH-X, GT-CIM, HR-AMS, ISAF, Medusa, MMS, NOAA-CIMS, NOyO3, PALMS, PANTHER, PFP, Picarro, QCLS, SAGA, SP, TOGA, UCATS, WAS

Nav Data Collected: Yes

Total Flight Time: 8.9 hours

Archive Data: [20171006](#) (81 archive (plain-text) files; 4 binary files)

Submitted by: Timothy Moes on 10/07/17

Flight Segments:

From:	PHKO - Kona International	To:	NFFN - Nadi International
Start:	10/06/17 18:56 Z	Finish:	10/07/17 03:51 Z
Flight Time:	8.9 hours		
Log Number:	188001	PI:	Steven Wofsy
Funding Source:	Jennifer Olson - NASA - SMD - ESD - ESSP Mission Manager		
Purpose of Flight:	Science		
Comments:	ATom-3 Science Flight RF04 PHKO-NFFN. This flight consisted of 7 vertical profile maneuvers (VPS) and working our way through convective systems in the Inter Tropical Convergence Zone (ITCZ) and the South Pacific Convergence Zone (SPCZ). It also included an MMS maneuver at 30kft. The science payload did well, however, ATHOS lost data for the 2nd half of the flight due to a motor failure in its supercharger. Troubleshooting and repair of ATHOS is planned for our stop in Fiji. The aircraft arrived in Fiji in good shape.		

Flight Hour Summary:

	188001
Flight Hours Approved in SOFRS	107.6
Total Used	103.5
Total Remaining	4.1

188001 Flight Reports

Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining	Miles Flown
10/01/17 - 10/02/17	1223	Science	10	10	97.6	
10/04/17 - 10/05/17	1224	Science	7.4	17.4	90.2	
10/06/17 - 10/07/17	1225	Science	8.9	26.3	81.3	
10/09/17 - 10/10/17	1226	Science	9.2	35.5	72.1	

10/12/17 - 10/13/17	1227	Science	9.9	45.4	62.2
10/14/17	1228	Science	10.7	56.1	51.5
10/17/17	1229	Science	9.5	65.6	42
10/19/17	1230	Science	4.6	70.2	37.4
10/20/17	1231	Science	7.7	77.9	29.7
10/23/17	1232	Science	9.5	87.4	20.2
10/25/17	1233	Science	9.6	97	10.6
10/27/17 - 10/28/17	1234	Science	6.5	103.5	4.1

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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