

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

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

Date: Tuesday, October 17, 2017

Mission: ATom

Mission Summary:

PUQ-ASI ATom III Report

Submitted by: Erin Czech on 05/29/18

File:

 [PUQ-ASI ATom III Report.pdf](#)

Related Flight Report:

DC-8 10/17/17

Flight Number: 1229

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: 9.5 hours

Comments: ATom-3 Science Flight RF08 SCCI-FHAW. This flight included 5 vertical profile maneuvers out of a planned 3. The flight concluded with a spiral down maneuver from 41kft over Ascension Island to correlate with a TCCON ground site. During the spiral maneuver, at 10kft, the aircraft flew level for 5 minutes to sample a layer of pollution from African biomass burning. CPDLC was not available for this flight due to a mostly system-wide outage. HF#1 radio was not working, so all oceanic ATC communication was done with HF#2 radio. Other than that, the aircraft arrived at Ascension in good shape. Troubleshooting of HF radio is planned for Ascension. Science instruments did well and it was a very successful science mission.

Archive Data: [20171017](#) (81 archive (plain-text) files; 4 binary files)

Submitted by: Timothy Moes on 10/22/17

Flight Segments:

From:	SCCI - Punta Arenas International	To:	FHAW - Ascension Auxiliary Airfield
Start:	10/17/17 09:57 Z	Finish:	10/17/17 19:25 Z
Flight Time:	9.5 hours		
Log Number:	188001	PI:	Steven Wofsy
Funding Source:	Jennifer Olson - NASA - SMD - ESD - ESSP Mission Manager		
Purpose of Flight:	Science		

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.

Page Last Updated: April 22, 2017

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