

ATom - DC-8 10/20/17 Science Report

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

Date: Friday, October 20, 2017

Mission: ATom

Mission Summary:

GVAC-LPLA ATom III Report

Submitted by: Erin Czech on 05/29/18

File:

 [GVAC-LPLA ATom III Report.pdf](#)

Related Flight Report:

DC-8 10/20/17

Flight Number: 1231

Payload Configuration: ATom-3 configuration - AMP, AO2, ARMAS, ATHOS, CAFE, CAFS, CAPS, CIT-CIMS, DLH, DLH-X, GT-CIMS, 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: 7.7 hours

Comments: ATom-3 Science Flight RF10 GVAC-LPLA. This flight was shortened distance-wise in the morning due to weather on the route. This flight included 5 vertical profile maneuvers (VPM) as re-planned. Due to extra fuel available since the flight distance was reduced, two eddy flux maneuvers and an MMS maneuver at 29kft were added. The 2nd eddy flux maneuver was a 4 leg wall at 500', 1000', just below the cloud deck at ~1300', and just above the cloud deck at ~2400'. The science instruments did very well and it was a very successful science flight. The aircraft arrived at Lajes in good shape although HF#2 was still inoperative and plans to troubleshoot at Lajes.

Archive Data: [20171020](#) (81 archive (plain-text) files; 4 binary files)

Submitted by: Timothy Moes on 10/22/17

Flight Segments:

From:	GVAC - Amilcar Cabral Intn'l Airport (Cabo Verde)	To:	LPLA - Lajes Airfield
Start:	10/20/17 09:18 Z	Finish:	10/20/17 16:59 Z
Flight Time:	7.7 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.

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