

# ATom - DC-8 10/19/17 Science Report

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

**Date:** Thursday, October 19, 2017

**Mission:** ATom

**Mission Summary:**

ASI-GVAC ATom III Report

**Submitted by:** Erin Czech on 05/29/18

**File:**

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

**Related Flight Report:**

## DC-8 10/19/17

**Flight Number:** 1230

**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:** 4.6 hours

**Archive Data:** [20171019](#) (81 archive (plain-text) files; 4 binary files)

**Submitted by:** Timothy Moes on 10/22/17

**Flight Segments:**

<b>From:</b>	FHAW - Ascension Auxiliary Airfield	<b>To:</b>	GVAC - Amilcar Cabral Intn'l Airport (Cabo Verde)
<b>Start:</b>	10/19/17 08:36 Z	<b>Finish:</b>	10/19/17 13:11 Z
<b>Flight Time:</b>	4.6 hours		
<b>Log Number:</b>	<a href="#">188001</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-3 Science Flight RF09 FHAW-GVAC. This flight included 3 vertical profile maneuvers (VPM) as planned. Two VPMs were South of the Inter-Tropical Convergence Zone (ITCZ) and one was North. At the bottom of the 3rd VPM, we did an Eddy Flux maneuver wall at 500 ft, 1000 ft, and 3000 ft followed by an MMS set of maneuvers at 7000 ft. HF#1 radio was working but HF#2 was not. CPDLC was not available in Atlantico FIR, but was mostly useful in Dakar FIR. Other than that, the aircraft arrived at Cabo Verde in good shape. Some science instruments struggled but still a successful science mission.		

**Flight Hour Summary:**

	<b>188001</b>
<b>Flight Hours Approved in SOFRS</b>	107.6
<b>Total Used</b>	103.5
<b>Total Remaining</b>	4.1

**188001 Flight Reports**

Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining	Miles Flown
<a href="#">10/01/17 - 10/02/17</a>	1223	Science	10	10	97.6	
<a href="#">10/04/17 - 10/05/17</a>	1224	Science	7.4	17.4	90.2	
<a href="#">10/06/17 - 10/07/17</a>	1225	Science	8.9	26.3	81.3	

<a href="#">10/09/17 - 10/10/17</a>	1226	Science	9.2	35.5	72.1
<a href="#">10/12/17 - 10/13/17</a>	1227	Science	9.9	45.4	62.2
<a href="#">10/14/17</a>	1228	Science	10.7	56.1	51.5
<a href="#">10/17/17</a>	1229	Science	9.5	65.6	42
<a href="#">10/19/17</a>	1230	Science	4.6	70.2	37.4
<a href="#">10/20/17</a>	1231	Science	7.7	77.9	29.7
<a href="#">10/23/17</a>	1232	Science	9.5	87.4	20.2
<a href="#">10/25/17</a>	1233	Science	9.6	97	10.6
<a href="#">10/27/17 - 10/28/17</a>	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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NASA Official: Bruce A. Tagg

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