

DC-8 08/22/14 - 08/23/14

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

Flight Number: 140304

Payload Configuration: ASCENDS 2014 instruments

Nav Data Collected: Yes

Total Flight Time: 8 hours

Submitted by: Frank Cutler on 08/26/14

Flight Segments:

From:	KPMD	To:	KPMD
Start:	08/22/14 19:30 Z	Finish:	08/23/14 03:30 Z
Flight Time:	8 hours		
Log Number:	148004	PI:	James Abshire
Funding Source:	Ken Jucks - NASA - SMD - ESD Upper Atmosphere Research Program		
Purpose of Flight:	Science		
Comments:	<p>Purpose of Flight CO2 & O2 LIDAR Development Flights – OCO Satellite Overflight and Ocean Aircraft Status Airworthy Sensor Status MFL, CO2/O2 Sounder, LAS, AVOCET, Piccaro all operated. ARMAS flew as piggyback instrument under FR148006. Significant Issues None Accomplishments Takeoff at 234 19 30 Land at 235 03 30 Fly south to north track over Nevada to allow overflight of OCO satellite while at FL190; repeat track at FL340. Descending spiral along satellite track from FL340 to ~1000 ft agl. Transit to Edwards TCCON site at FL340 and perform descending spiral to ~ 1000 ft agl. Fly east to west calibration track at FL180 north of KPMD. Transit to offshore Southern California at FL340 to operate LIDAR instruments against ocean background. Accomplish descending spiral from FL340 to ~1000ft agl over ocean track and then accomplish track over ocean at FL160 and FL250. Return to land KPMD. Planned events Fly West Branch Iowa mission on 8/25.</p>		

Flight Hour Summary:

	148004
Flight Hours Approved in SOFRS	45
Total Used	43.6
Total Remaining	1.4

148004 Flight Reports

Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining	Miles Flown
08/13/14	140301	Science	0.8	0.8	44.2	
08/14/14	140302	Science	3.4	4.2	40.8	
08/20/14	140303	Science	5.4	9.6	35.4	
08/22/14 - 08/23/14	140304	Science	8	17.6	27.4	
08/25/14 - 08/26/14	140305	Science	10.5	28.1	16.9	
08/28/14 - 08/29/14	140306	Science	4.1	32.2	12.8	
09/03/14	140307	Science	11.4	43.6	1.4	

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.

NASA Official: Marilyn Vasques

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