

DC-8 10/31/16 - 11/01/16

Aircraft:

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

Flight Number:

1150

Payload Configuration:

OIB-ATM NAV/ATM GPS/ATM-T5/T6/ATM FLIR/ATM CAMBOT MCoRDS/SNOW/Ku RADAR DMS/POS-AV GRAVIMETER

Nav Data Collected:

Yes

Total Flight Time:

11 hours

Submitted by:

Timothy Moes on 11/05/16

Flight Segments:

From:	SCCI	To:	SCCI
Start:	10/31/16 13:14 Z	Finish:	11/01/16 00:14 Z
Flight Time:	11 hours		
Log Number:	178010	PI:	Nathan Kurtz
Funding Source:	Bruce Tagg - NASA - SMD - ESD Airborne Science Program		
Purpose of Flight:	Science		
Comments:	Good flight. The aircraft came back in good condition. Science objective was a new mission, one of a suite of five missions designed to map the coastal region encompassing the Hull and Land glaciers and surrounding areas to the west of the Getz Ice Shelf.		

Flight Hour Summary:

	178010
Flight Hours Approved in SOFRS	300
Total Used	306.9
Total Remaining	-6.9

178010 Flight Reports

Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining	Miles Flown
10/04/16	1135	Science	4	4	296	
10/05/16	1136	Science	2.7	6.7	293.3	
10/12/16	1138	Transit	10.9	17.6	282.4	
10/12/16	1139	Transit	3	20.6	279.4	
10/14/16 - 10/15/16	1140	Science	10.9	31.5	268.5	
10/15/16 - 10/16/16	1141	Science	11.8	43.3	256.7	
10/17/16 - 10/18/16	1142	Science	11.8	55.1	244.9	
10/20/16 - 10/21/16	1143	Science	11.4	66.5	233.5	
10/22/16	1144	Science	11	77.5	222.5	
10/24/16 - 10/25/16	1145	Science	11.5	89	211	
10/25/16 - 10/26/16	1146	Science	11.3	100.3	199.7	
10/26/16 - 10/27/16	1147	Science	12.1	112.4	187.6	
10/27/16 - 10/28/16	1148	Science	11.5	123.9	176.1	

10/28/16 - 10/29/16	1149	Science	11	134.9	165.1
10/31/16 - 11/01/16	1150	Science	11	145.9	154.1
11/02/16 - 11/03/16	1151	Science	11.2	157.1	142.9
11/03/16 - 11/04/16	1152	Science	11.5	168.6	131.4
11/04/16 - 11/05/16	1153	Science	11.1	179.7	120.3
11/05/16 - 11/06/16	1154	Science	11.7	191.4	108.6
11/07/16 - 11/08/16	1155	Science	11.2	202.6	97.4
11/09/16 - 11/10/16	1156	Science	11.7	214.3	85.7
11/10/16	1157	Science	10.9	225.2	74.8
11/11/16 - 11/12/16	1158	Science	11.3	236.5	63.5
11/12/16 - 11/13/16	1159	Science	11.1	247.6	52.4
11/14/16	1160	Science	10.9	258.5	41.5
11/15/16 - 11/16/16	1161	Science	11.6	270.1	29.9
11/17/16 - 11/18/16	1162	Science	11.1	281.2	18.8
11/18/16 - 11/19/16	1163	Science	11.1	292.3	7.7
11/21/16	1165	Transit	11.6	303.9	-3.9
11/21/16	1164	Transit	3	306.9	-6.9

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.

Related Science Report:

OIB - DC-8 10/31/16 Science Report

Mission:

OIB

Mission Summary:

OIB completed the high priority Hull-Land 2 flight. This flight is a new mission, one of a suite of five missions designed to map the coastal region encompassing the Hull and Land glaciers and surrounding areas to the west of the Getz Ice Shelf. Weather for the flight was excellent with 100% data collection over the survey area. We attempted to take opportunistic high altitude data on previous LVIS lines over the Getz Ice Shelf, however mid-level clouds prevented ATM and DMS from acquiring data on this portion of the flight. MCoRDS experienced an as-of-yet unknown system noise problem which may have contaminated high altitude data collection on the transit in, however the system was restarted just prior to the main data line and good data was acquired on the main survey line and high altitude transit out.

The MiniRad piggyback instrument was also flown on this mission and looked to have successfully collected about 0.5 Gb of data.

Data volumes

ATM: T5: 14 Gb T6: 12 Gb

FLIR: 4 Gb

Cambot: 6 Gb

DMS: 33 Gb

Snow/Ku radars: 183 Gb each

MCoRDS: 764 Gb
AIRGrav: 5 Gb

data on: 1801
data off: 1953

File:

[hull_land_map.pdf](#)

Submitted by:

Nathan T. Kurtz on 10/31/16

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NASA Official: Bruce A. Tagg

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