

OIB - C-130 Hercules 11/14/13 Science Report

Date: Thursday, November 14, 2013

Mission: OIB

Mission Location: Thule, Greenland

Mission Summary:

LVIS/LVIS-GH C130 NW Grid 3 Flight

Today was our last flight of the mission. We flew a version of the NW grid using existing OIB grid lines not yet flown this season. Weather was clear except in the southern tip of the lines where we began to fly in haze, but data collection wasn't affected. The LVIS-GH computer stopped working at the end of the first grid line (the 3rd computer we've lost this mission - there is a lot of vibration in the plane) and we could not recover it. LVIS system worked normally as did the cameras. Within-swath energy changes due to issues with the plexiglass and/or hydraulic fluid still affected LVIS (and also LVIS-GH before it stopped).

Four ramp passes before landing

Calibration maneuver before landing

Submitted by: Michelle Hofton on 11/14/13

File:

 [lvis_NWgrid_20131114.pdf](#)

Related Flight Report:

C-130 Hercules 11/14/13

Flight Number: 9

Payload Configuration: LVIS

Nav Data Collected: No

Total Flight Time: 7.4 hours

Comments: Next flight is the return transit scheduled for November 15, 2013.

Submitted by: Cate Easmunt on 11/14/13

Flight Segments:

From:	BGTL	To:	BGTL
Start:	11/14/13 11:48 Z	Finish:	11/14/13 19:12 Z
Flight Time:	7.4 hours		
Log Number:	141001	PI:	Michael Studinger
Funding Source:	Bruce Tagg - NASA - SMD - ESD Airborne Science Program		
Purpose of Flight:	Science		

Flight Hour Summary:

	131001	141001
Flight Hours Approved in SOFRS	100	
Flight Hours Previously Approved		52.5
Total Used	47.5	90.7
Total Remaining		-38.2

141001 Flight Reports

Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining	Miles Flown
11/06/13	5	Science	7.3	7.3	45.2	
11/08/13	6	Science	7.7	15	37.5	
11/09/13	7	Science	7.8	22.8	29.7	
11/12/13	8	Science	5.4	28.2	24.3	
11/14/13	9	Science	7.4	35.6	16.9	

11/15/13	Return transit, leg 1	Transit	8.5	44.1	8.4
11/15/13	Return transit, leg 2	Transit	1.1	45.2	7.3

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Page Last Updated: April 22, 2017

Page Editor: Brad Bulger

NASA Official: Bruce A. Tagg

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.

131001 Flight Reports						
Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining	Miles Flown
09/27/13	FCF / ECF #1	Check	2	2	98	
10/26/13	PCF	Check	3.7	5.7	94.3	
10/29/13	Transit (incomplete)	Transit	5.2	10.9	89.1	
10/30/13	Transit	Transit	7.9	18.8	81.2	
10/31/13	1	Science	7.2	26	74	
11/01/13	2	Science	7.3	33.3	66.7	
11/04/13	3	Science	6.4	39.7	60.3	
11/05/13	4	Science	7.8	47.5	52.5	