

OIB - C-130 Hercules 11/12/13 Science Report

Date: Tuesday, November 12, 2013

Mission: OIB

Mission Location: Thule, Greenland

Mission Summary:

LVIS/LVIS-GH C130 OIB Cryosat-2 Underflight

Today we flew an underflight of Cryosat-2 over northern Greenland. We had hoped to fly the track twice to broaden the data swath, however we had to delay takeoff and subsequent flight time by close to 3 hours to wait out a weather system moving through Thule this am. Our final flight plan involved a single under flight of the orbit track from point A to point K before return to Thule. Cryosat-2 passed along the track about 20mins before we began the line. Conditions were clear all along the line. We also collected data on the transit to/from the line start /end including crossovers with previous-day's LVIS data.

Both instruments operated normally

Both cameras operated normally

Calibration maneuvers over ocean before landing at Thule

No ramp pass - overcast

Plexiglass window beneath LVIS rotated once again before flight.

Submitted by: Michelle Hofton on 11/12/13

File:

 [lvls_.pdf](#)

Related Flight Report:

C-130 Hercules 11/12/13

Flight Number: 8

Payload Configuration: LVIS

Nav Data Collected: No

Total Flight Time: 5.4 hours

Submitted by: Cate Easmunt on 11/12/13

Flight Segments:

From:	BGTL	To:	BGTL
Start:	11/12/13 14:40 Z	Finish:	11/12/13 20:05 Z
Flight Time:	5.4 hours		
Log Number:	141001	PI:	Michael Studinger
Funding Source:	Bruce Tagg - NASA - SMD - ESD Airborne Science Program		
Purpose of Flight:	Science		
Comments:	Weather delay this morning. Next flight scheduled for Wednesday November 13.		

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
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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	