

## OIB - C-130 Hercules 10/31/13 Science Report

**Date:** Thursday, October 31, 2013

**Mission:** OIB

**Mission Location:** Thule, Greenland

**Mission Summary:**

LVIS SEA ICE - SOUTH BASIN TRANSECT

Outbound conditions were generally clear.

Clear transects across across Humboldt and Petermann glaciers on transit north

Patchy clouds encountered just west of point 5007C.

Both instruments were getting returns but we decided to descend in altitude to 23,000' to help increase laser return energy just after 5009C.

Collection percent for transect by 5009Z was ~95%.

Data also collected on our return leg, although cloud cover was thicker until about 120W when it cleared.

Clear data over Canadian icecaps on Ellesmere Island on our way in to Thule

Calibration manuevers beofre landing at Thule

No overpass of Thule at landing due to overcast conditions.

LVIS-GH 250G

LVIS 80GB

POS-AV 5GB

LVIS camera 100GB

**Submitted by:** Michelle Hofton on 10/31/13

**File:**

 [lvls\\_280SBasinTransect.pdf](#)

**Related Flight Report:**

## C-130 Hercules 10/31/13

**Flight Number:** 1

**Payload Configuration:** LVIS

**Nav Data Collected:** No

**Total Flight Time:** 7.2 hours

**Submitted by:** Cate Easmunt on 10/31/13

**Flight Segments:**

<b>From:</b>	BGTL	<b>To:</b>	bgtl
<b>Start:</b>	10/31/13 11:20 Z	<b>Finish:</b>	10/31/13 18:30 Z
<b>Flight Time:</b>	7.2 hours		
<b>Log Number:</b>	<a href="#">131001</a>	<b>PI:</b>	Michael Studinger
<b>Funding Source:</b>	Bruce Tagg - NASA - SMD - ESD Airborne Science Program		
<b>Purpose of Flight:</b>	Science		

**Flight Hour Summary:**

	131001	141001
<b>Flight Hours Approved in SOFRS</b>	100	
<b>Flight Hours Previously Approved</b>		52.5

<b>Total Used</b>	47.5	90.7
<b>Total Remaining</b>		-38.2

<b>141001 Flight Reports</b>						
<b>Date</b>	<b>Flt #</b>	<b>Purpose of Flight</b>	<b>Duration</b>	<b>Running Total</b>	<b>Hours Remaining</b>	<b>Miles Flown</b>
<a href="#">11/06/13</a>	5	Science	7.3	7.3	45.2	
<a href="#">11/08/13</a>	6	Science	7.7	15	37.5	
<a href="#">11/09/13</a>	7	Science	7.8	22.8	29.7	
<a href="#">11/12/13</a>	8	Science	5.4	28.2	24.3	
<a href="#">11/14/13</a>	9	Science	7.4	35.6	16.9	
<a href="#">11/15/13</a>	Return transit, leg 1	Transit	8.5	44.1	8.4	
<a href="#">11/15/13</a>	Return transit, leg 2	Transit	1.1	45.2	7.3	

**Source URL:** [https://airbornescience.nasa.gov/science\\_reports/OIB\\_-\\_C-130\\_Hercules\\_10\\_31\\_13\\_Science\\_Report#comment-0](https://airbornescience.nasa.gov/science_reports/OIB_-_C-130_Hercules_10_31_13_Science_Report#comment-0)

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.*

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