

## OIB - C-130 Hercules 10/29/13 Science Report

**Date:** Tuesday, October 29, 2013

**Mission:** OIB

**Mission Location:** Transit to Greenland from WFF

**Mission Summary:**

Transit flight to Thule, Greenland from KWFF for C130 LVIS and LVIS-GH OIB deployment

26,000' flight altitude

LVIS and LVIS-GH instruments operated normally, however impacts of hydraulic fluid on window about 2 hours into flight and onwards significantly degraded laser energy of both systems. Energy levels were impacted sufficiently that flight returned to WFF.

LVIS cameras were operated - however the intervalometer wasnt working. Cameras were triggered manually. This was fixed post flight.

Target of opportunity data collected in MA, NH and ME over existing LVIS and Mabel data sets (Harvard Forest, Bartlett LTER, Howland, and Hubbard Brook). Area clear. Data collected successfully.

Calibration data collected over Long Island Sound, NY - but signal levels are low due to hydraulic fluid.

LVIS 50G

LVIS-GH 130GB

LVIS POS AV 10GB

LVIS Camera 10GB

**Submitted by:** Michelle Hofton on 10/29/13

**Related Flight Report:**

### C-130 Hercules 10/29/13

**Flight Number:** Transit (incomplete)

**Payload Configuration:** LVIS

**Nav Data Collected:** No

**Total Flight Time:** 5.2 hours

**Submitted by:** Cate Easmunt on 10/29/13

**Flight Segments:**

<b>From:</b>	KWAL	<b>To:</b>	KWAL
<b>Start:</b>	10/29/13 10:12 Z	<b>Finish:</b>	10/29/13 15:22 Z
<b>Flight Time:</b>	5.2 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>	Transit		
<b>Comments:</b>	Transit not completed. Now scheduled for 10/30/2013 pending completion of maintenance action.		

**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

**141001 Flight Reports**

Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining	Miles Flown
<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\\_29\\_13\\_Science\\_Report#comment-0](https://airbornescience.nasa.gov/science_reports/OIB_-_C-130_Hercules_10_29_13_Science_Report#comment-0)

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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
<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	