

# LVIS PCF - C-130 Hercules 10/26/13 Science Report

**Date:** Saturday, October 26, 2013

**Mission:** LVIS PCF

**Mission Location:** Wallops Flight Facility, VA

**Mission Summary:**

High-altitude calibration flight for LVIS and LVIS-GH systems prior to deployment to Greenland for Operation Icebridge.

Conditions were clear with some spotty clouds.

Target altitude was 26,000' at which we flew figure of eight loops over the ocean to boresight the instruments, then performed pointing calibration maneuvers over Assawoman bay followed by 3 passes over the ramp outside hanger N159 at WFF.

We then dropped down to 17,500', repeated the calibration maneuvers over the bay and 2 passes over Wff, and dropped down again to 12,000' and repeated the 2 passes over WFF.

Both LVIS and LVIS-GH instruments worked well. However signal levels on LVIS's were degraded by hydraulic fluid leaking on the window.

One of the 2 camera systems was triggering sporadically. We're continuing to debug that but the other one worked fine. Imagery from both camera was severely degraded from about halfway into the flight and on due to the hydraulic leak on the windows.

**Submitted by:** Michelle Hofton on 10/27/13

**Related Flight Report:**

## C-130 Hercules 10/26/13

**Flight Number:** PCF

**Payload Configuration:** LVIS

**Nav Data Collected:** No

**Total Flight Time:** 3.7 hours

**Submitted by:** Cate Easmunt on 10/26/13

**Flight Segments:**

<b>From:</b>	KWAL	<b>To:</b>	kwal
<b>Start:</b>	10/26/13 16:38 Z	<b>Finish:</b>	10/26/13 20:20 Z
<b>Flight Time:</b>	3.7 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>	Check		

**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
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**Source URL:** [https://airbornescience.nasa.gov/science\\_reports/LVIS\\_PCF\\_-\\_C-130\\_Hercules\\_10\\_26\\_13\\_Science\\_Report#comment-0](https://airbornescience.nasa.gov/science_reports/LVIS_PCF_-_C-130_Hercules_10_26_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.*

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	