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		note that	note that some links and images will not load.											
-130 Hercules 09/11/14 - 09/12/14														
Flight Number: CEF Payload Configurat Nav Data Collected: Total Flight Time: 7 Submitted by: Marti Flight Segments:	RES Gridbo i ion: ARIS : Yes 7.5 hours in Nowicki	ox - Flight #7 E on 09/12/14												
From:		PAEI To:		P/		AEI								
Start:		09/11/14 18:35 Z	Finish:		09/12		2/14 02:05 Z							
Flight Time:		7.5 hours												
Log Number:		<u>141002</u> PI:			Christy Hansen		1							
Funding Source:		Bruce Tagg - NASA - SMD - ESD Airborne Science Program												
Purpose of Flight: Science														
Flight Hour Summary:														
					141002		151004							
Flight Hours Approved in SOFRS														
Flight Hours Previously Approved							88.7							
Total Used					140.3		18.2							
Total Remaining				70.5										
151004 Flight Reports														
Date Fl	t#F	Purpose of Flight	Duration	Running Total Hours		Hours Rem	naining	Miles Flown						
<u>10/02/14 -</u> <u>10/03/14</u> Ca	al Flight	Science	8.6	8.6		80.1								
<u>10/04/14</u> Tr	ansit 7	Transit	9.6	18.2		70.5								
ource URL:https://e	espo.nasa	.gov/arise/flight_rep	orts/C-130_Her	cules_(09_11_14	09_12_14#c	comment-0							

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Page Editor: Brad Bulger

NASA Official: Marilyn Vasques

Related Science Report:

ARISE - C-130 Hercules 09/11/14 Science Report

Mission: ARISE **Mission Summary:**

CERES Gridbox - Flt #7

The C-130 flew a high altitude (22kft) radiation mapping mission over a period of about 2-hours that coincided with several CERES satellite overpasses, CloudSat and CALISPO. A flat, descending profile to low-altitude and a brief survey of the radiative and microphysical properties of low clouds, followed this. During the flight, there was a gradient in the low cloud conditions from the southeastern end of the gridbox to the northwestern end. At the southeastern end, the low clouds were more solid. At the northwestern end, the low clouds mostly cleared out. In between, the low clouds appeared more broken. Scattered cirrus clouds were also present in the area and were observed above the aircraft at times. Later in the flight when the low clouds were surveyed, the tops were found to range from only 600-900 ft.

The flight scientist today was Anthony Bucholtz (NRL). An excerpt from his flight notes: "All in all this was another good flight day for CERES validation. The boxed area had somewhat bi-modal low cloud conditions (mostly low cloud in the SE part, and clear in the NE part) and there was cirrus in various parts of the box that











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the flight reports are not available online.

141002 Flight Reports									
Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining	Miles Flown			
08/24/14	Engineering Check Flight	Check	2.8	2.8	226.2				
08/29/14	Boom Calibration Flight	Check	0.5	3.3	225.7				
08/30/14	Project Check Flight	Check	5.2	8.5	220.5				
09/01/14	Transit (1 of 2)	Transit	8.7	17.2	211.8				
09/02/14	Transit (2 of 2)	Transit	6.6	23.8	205.2				
<u>09/04/14 -</u> <u>09/05/14</u>	Arctic Ocean - Flight #1	Science	6.6	30.4	198.6				
<u>09/05/14 -</u> 09/06/14	140W Sea Ice - Flight #2	Science	7.1	37.5	191.5				
<u>09/06/14 -</u> <u>09/07/14</u>	Ice ZigZag-Terra - Flight #3	Science	7.1	44.6	184.4				
<u>09/07/14 -</u> 09/08/14	CERES Gridbox - Flight #4	Science	8.4	53	176				
<u>09/09/14 -</u> 09/10/14	CERES Gridbox - Flight #5	Science	7.7	60.7	168.3				
<u>09/10/14 -</u> 09/11/14	MIZ Lawnmower - Flight #6	Science	8.8	69.5	159.5				
<u>09/11/14 -</u> 09/12/14	CERES Gridbox - Flight #7	Science	7.5	77	152				
<u>09/13/14 -</u> 09/14/14	CERES Gridbox - Flight #8	Science	8.3	85.3	143.7				
<u>09/15/14 -</u> 09/16/14	CERES Gridbox - Flight #9	Science	8.1	93.4	135.6				
<u>09/16/14 -</u> 09/17/14	Radiation Wall Pattern - Flight #10	Science	8.3	101.7	127.3				
<u>09/17/14 -</u> 09/18/14	CERES Gridbox - Flight #11	Science	7.2	108.9	120.1				
<u>09/18/14 -</u> 09/19/14	Sea Ice Albedo/CryoSat - Flight #12	Science	8.6	117.5	111.5				
<u>09/19/14 -</u> 09/20/14	Radiation Wall Pattern - Flight #13	Science	8.3	125.8	103.2				
<u>09/21/14 -</u> 09/22/14	Sea Ice & Radiation - Flight #14	Science	8.2	134	95				
<u>09/24/14 -</u> 09/25/14	Gridbox TOA+Surface - Flight #15	Science	6.3	140.3	88.7				



