

HU-25C Guardian 10/19/15

Aircraft: [HU-25A Guardian - LaRC #525](#) (See full schedule)

Flight Number: OIB2015 Arctic Helheim-Kangerdlugussuaq Gap B

Payload Configuration: ATM & DMS

Nav Data Collected: No

Total Flight Time: 3.9 hours

Submitted by: Luci Crittenden on 10/19/15

Flight Segments:

From:	BGSF	To:	BGSF
Start:	10/19/15 15:19 Z	Finish:	10/19/15 19:12 Z
Flight Time:	3.9 hours		
Log Number:	16F002	PI:	John Woods
Funding Source:	Thomas Wagner - NASA - SMD - ESD Cryospheric Science		
Purpose of Flight:	Science		
Comments:	The OIB HU-25 completed its second sortie for today, the Helheim-Kangerdludussuaq Gap B mission. Weather permitting, we will fly another mission (or two) tomorrow, October 20.		

Flight Hour Summary:

	15F005	16F002
Flight Hours Approved in SOFRS	100	
Flight Hours Previously Approved		67.4
Total Used	32.6	65.3
Total Remaining		2.1

16F002 Flight Reports

Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining	Miles Flown
10/05/15	OIB2015 Arctic Sea Ice Central	Science	3.6	3.6	63.8	
10/05/15	OIB2015 Arctic Sea Ice East	Science	3.8	7.4	60	
10/06/15	OIB2015 Arctic Ice-Sat2 North	Science	4	11.4	56	
10/07/15	OIB2015 Arctic Transit Thule to Kangerlussuaq	Transit	2	13.4	54	
10/08/15	OIB2015 Arctic Southwest Coastal A	Science	3.8	17.2	50.2	
10/08/15	OIB2015 Arctic Thomas-Jakobshavn 01	Science	3.7	20.9	46.5	
10/09/15	OIB2015 Arctic Umanaq B	Science	3.9	24.8	42.6	
10/13/15	OIB2015 Arctic Jakobshavn Equip Store	Science	2.9	27.7	39.7	
10/13/15	OIB2015 Arctic Southeast Coastal A	Science	3.6	31.3	36.1	
10/18/15	OIB2015 Arctic Southeast Coastal B	Science	4.1	35.4	32	
10/19/15	OIB2015 Arctic Helheim-Kangerdlugussuaq	Science	3.7	39.1	28.3	
10/19/15	OIB2015 Arctic Helheim-Kangerdlugussuaq Gap B	Science	3.9	43	24.4	
10/20/15	OIB2015 Arctic Jakobshavn Mop-Up	Science	3.7	46.7	20.7	
10/20/15	OIB2015 Arctic Southwest Coastal B	Science	3.7	50.4	17	
10/21/15	OIB2015 Arctic Southwest Coastal C	Science	3.4	53.8	13.6	

10/21/15	OIB2015 Arctic K-EGIG-Summit	Science	3.7	57.5	9.9
10/22/15	OIB2015 Arctic Mopup South	Science	2	59.5	7.9
10/22/15	OIB2015 Arctic Ferry BGSF-CYYR	Ferry	2.2	61.7	5.7
10/23/15	OIB2015 Arctic Ferry CYYR-KRIC	Ferry	3.3	65	2.4
10/23/15	OIB2015 Arctic Ferry CYYR-KRIC	Ferry	0.3	65.3	2.1

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Page Last Updated: April 22, 2017

Page Editor: Brad Bulger

NASA Official: Bruce A. Tagg

Related Science Report:

OIB - HU-25C Guardian 10/19/15 Science Report

Mission: OIB

Mission Summary:

Mission: Falcon Helheim-Kangerdlugssuaq Gap B (priority: low)

This mission is a shortened version of the Helheim Kangerdlugssuaq Gap B mission last flown in Spring 2015. In order to accommodate the shorter range of the Falcon jet, we reduced the number of coast-parallel lines from six to four, and also eliminated two glacier centerlines in the center of the region.

The crystal-clear morning weather over the Helheim and Kangerdlugssuaq Glaciers deteriorated somewhat during the middle of the day today, with some high-altitude haze and widely-scattered cirrus moving in to that area. Most of this was concentrated on the lowermost (easternmost) of the four survey lines between the two glaciers, and primarily to the north near Kangerdlugssuaq Glacier. ATM and DMS were able to see through most of it. We had fewer problems on the next three more inland lines. Overall we estimate successful data acquisition across more than 90% of the mission.

All instruments performed well today.

We conducted a ramp pass at 19,000' MSL just prior to landing.

Data volumes:

DMS: 23.7 Gb

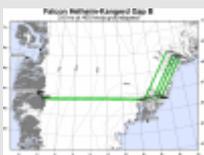
Narrow Swath ATM: 22 Gb

FLIR: 2.0 Gb

total data collection time: 3.7 hrs

Images:

Map of Falcon Helheim-Kangerdlugssuaq Gap B



[Read more](#)

Upper Midgard Glacier



[Read more](#)

Lower Kangerdlugsuaq Glacier



[Read more](#)

Submitted by: John Sonntag on 10/19/15

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.

15F005 Flight Reports

Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining	Miles Flown
09/15/15	OIB #1	Check	2.7	2.7	97.3	
09/20/15	OIB #2, 3, 4	Ferry	2.7	5.4	94.6	
09/21/15	OIB #2, 3, 4	Ferry	2.3	7.7	92.3	
09/21/15	OIB #2, 3, 4	Ferry	2	9.7	90.3	
09/23/15	OIB2015 Arctic North Central Gap 02	Science	3.9	13.6	86.4	
09/24/15	OIB2015 Arctic Northwest Coastal A	Science	3.7	17.3	82.7	
09/25/15	OIB2015 Arctic Northwest Coastal B	Science	3.8	21.1	78.9	
09/28/15	OIB2015 Arctic Sea Ice West	Science	3.7	24.8	75.2	
09/30/15	OIB2015 Arctic North Central Gap 01	Science	3.9	28.7	71.3	
09/30/15	OIB2015 Arctic Zachariae-79N	Science	3.9	32.6	67.4	