

OIB - HU-25C Guardian #524 09/11/16 Science Report

Aircraft: [HU-25A Guardian - LaRC #524](#) (See full schedule)

Date: Sunday, September 11, 2016

Mission: OIB

Mission Location: Kangerlussuaq, Greenland

Mission Summary:

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

This mission is a shortened version of the Helheim Kangerdlugssuaq Gap B mission last flown in Spring 2016. 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.

High pressure over the central Greenland ice sheet dominated the weather today, but patchy fog and low stratus still covered many portions of the west-central ice sheet this morning. The strong low pressure system in the Greenland Sea also influenced the central east coast but was not forecast to move south. With the morning satellite imagery showing only a few cirrus clouds over the area of this flight, we selected it as our best option. But by the time we got there, the Greenland Sea system had flung an outlying band of altostratus clouds over the northern portion of the coast-parallel lines, causing us to lose data for approximately the northern 1/3 of all four of those lines. The other portions of the flight, including the east-west transects, were almost completely clear. Overall, we estimate successful data collection for 80% of the flight.

All instruments performed well.

Data volumes:

CAMBOT: 10 Gb images

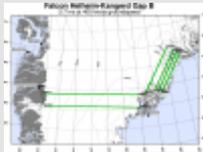
Narrow Swath ATM: 25 Gb

FLIR: 6.5 Gb

total data collection time: 3.4 hrs

Images:

Map of Falcon - Helheim-Kangerdlugssuaq Gap B



[Read more](#)

Upper Sermilik Fjord



[Read more](#)

Glacier de France



[Read more](#)

Steenstrup Glacier



[Read more](#)

Submitted by: John Sonntag on 09/11/16

Related Flight Report:

HU-25A Guardian #524 09/11/16

Flight Number: OIB 2016 on HU-25 #28

Payload Configuration: ATM

Nav Data Collected: No

Total Flight Time: 3.9 hours

Submitted by: Richard Yasky on 09/11/16

Flight Segments:

From:	BGSF	To:	BGSF
Start:	09/11/16 10:10 Z	Finish:	09/11/16 14:03 Z
Flight Time:	3.9 hours		
Log Number:	16F003	PI:	Nathan Kurtz
Funding Source:	Thomas Wagner - NASA - SMD - ESD Cryospheric Science		
Purpose of Flight:	Science		
Comments:	HelKang Gap B flight flown. Low clouds existed for the first part of the W-E transit. Far NE portion of the 4 parallel tracks was obscured with low, mid and high clouds causing loss of 15-20 minutes of data on each line. Transect E-W was similar to initial transit. ESPO Blue Sky tracker was not working for entire flight 206 report cycles 2 send attempts and 206 failures.		

Flight Hour Summary:

	16F003
Flight Hours Approved in SOFRS	121.25
Total Used	126.9
Total Remaining	-5.65

16F003 Flight Reports

Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining	Miles Flown
06/29/16	OIB 2016 on HU25A ICF	Science	2	2	119.25	
07/11/16	OIB 2016 on HU25A #1	Ferry	2.6	4.6	116.65	
07/11/16	OIB 2016 on HU25A #2	Ferry	2.5	7.1	114.15	
07/11/16 - 07/12/16	OIB 2016 on HU25A #3	Ferry	2.2	9.3	111.95	
07/12/16 - 07/13/16	OIB 2016 on HU25A #4	Ferry	2.6	11.9	109.35	
07/13/16	OIB 2016 on HU25A #5	Science	3.4	15.3	105.95	
07/14/16	OIB 2016 on HU25A #6	Science	3.5	18.8	102.45	

07/15/16	OIB 2016 on HU25A #7	Science	3.7	22.5	98.75
07/19/16 - 07/20/16	OIB 2016 on HU25A #8	Science	3.6	26.1	95.15
07/20/16	OIB 2016 on HU25A #9	Science	3.4	29.5	91.75
07/21/16	OIB 2016 on HU25A #10	Science	3.6	33.1	88.15
07/22/16	OIB 2016 on HU25A #11	Ferry	3.9	37	84.25
07/22/16	OIB 2016 on HU25A #12	Ferry	3.2	40.2	81.05
07/22/16	OIB 2016 on HU25A #13	Ferry	2.1	42.3	78.95
08/23/16	OIB 2016 on HU-25 #14	Science	2.3	44.6	76.65
08/25/16	OIB 2016 on HU-25 #15	Ferry	3.2	47.8	73.45
08/25/16	OIB 2016 on HU-25 #16	Ferry	2.2	50	71.25
08/27/16	OIB 2016 on HU-25 #17	Science	3.7	53.7	67.55
08/29/16	OIB 2016 on HU-25 #18	Science	3.8	57.5	63.75
08/29/16	OIB 2016 on HU-25 #19	Science	3.5	61	60.25
09/01/16	OIB 2016 on HU-25 #20	Science	3.4	64.4	56.85
09/02/16	OIB 2016 on HU-25 #21	Science	3.8	68.2	53.05
09/02/16	OIB 2016 on HU-25 #22	Science	3.8	72	49.25
09/05/16	OIB 2016 on HU-25 #23	Science	0.6	72.6	48.65
09/06/16	OIB 2016 on HU-25 #24	Science	3.5	76.1	45.15
09/09/16	OIB 2016 on HU-25 #25	Science	3.5	79.6	41.65
09/09/16	OIB 2016 on HU-25 #26	Science	3.5	83.1	38.15
09/10/16	OIB 2016 on HU-25 #27	Science	3	86.1	35.15
09/11/16	OIB 2016 on HU-25 #28	Science	3.9	90	31.25
09/11/16	OIB 2016 on HU-25 #29	Science	3.7	93.7	27.55
09/12/16	OIB 2016 on HU-25 #30	Science	3.3	97	24.25
09/12/16	OIB 2016 on HU-25 #31	Science	2.7	99.7	21.55
09/13/16	OIB 2016 on HU-25 #32	Science	4	103.7	17.55
09/13/16	OIB 2016 on HU-25 #33	Science	2.9	106.6	14.65
09/15/16	OIB 2016 on HU-25 #34	Science	3.7	110.3	10.95

09/16/16	OIB 2016 on HU-25 #35	Ferry	2.4	112.7	8.55
09/16/16	OIB 2016 on HU-25 #35	Ferry	1.7	114.4	6.85
09/16/16	OIB 2016 on HU-25 #35	Ferry	1.7	116.1	5.15
09/17/16	OIB 2016 on HU-25 #38	Ferry	2.8	118.9	2.35
09/17/16	OIB 2016 on HU-25 #38	Ferry	2.9	121.8	-0.55
09/19/16	OIB 2016 on HU-25 #40	Ferry	2.5	124.3	-3.05
09/19/16	OIB 2016 on HU-25 #40	Ferry	2.6	126.9	-5.65

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.

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