

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

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

Date: Friday, September 9, 2016

Mission: OIB

Mission Location: Kangerlussuaq, Greenland

Mission Summary:

Mission: Falcon Umanaq Mop-up (priority: n/a)

This mission refies the southern portions of the high-priority Northwest Coastal A and B missions, which were partially lost to clouds when those flights were conducted earlier in this campaign. These lines are all located in the area of the ice margin between the Nussuaq and Umanaq peninsulas.

The area of low pressure over west-central Greenland which slowed our pace of operations this week finally filled in enough to open some clear spots this morning, the best of which was in the area of this flight. The local weather at Kangerlussuaq remained poor this morning, with bands of snow showers blowing through, but was forecast to clear slowly during the morning. We obtained 100% coverage of the target flight lines today.

All instruments performed well. We swapped the GPS receiver which had problems on the previous flight with a redundant receiver in our ground station, and had no recurrences of the issue today. The suspect receiver, while operated at high-rate in the ground station for the past two days as a test, also has not indicated a recurrence of the problem, which while good news, also deepens the mystery of what caused the unusual problem in the first place.

Data volumes:

CAMBOT: 16 Gb images

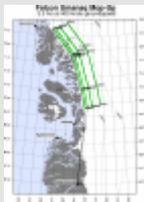
Narrow Swath ATM: 17 Gb

FLIR: 5.6 Gb

total data collection time: 2.7 hrs

Images:

Map of Falcon - Umanaq Mopup



[Read more](#)

Store Glacier



[Read more](#)

Upernavik Ice Stream



[Read more](#)

Submitted by: John Sonntag on 09/09/16

Related Flight Report:

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

Flight Number: OIB 2016 on HU-25 #25

Payload Configuration: ATM

Nav Data Collected: No

Total Flight Time: 3.5 hours

Submitted by: Richard Yasky on 09/09/16

Flight Segments:

From:	BGSF	To:	BGSF
Start:	09/09/16 10:24 Z	Finish:	09/09/16 13:52 Z
Flight Time:	3.5 hours		
Log Number:	16F003	PI:	Nathan Kurtz
Funding Source:	Thomas Wagner - NASA - SMD - ESD Cryospheric Science		
Purpose of Flight:	Science		
Comments:	Flew Falcon Umanaq Mop-Up to re-fly lines previously lost to cloud cover on previous OIB 2016 flights. Operated at FL280 with near 100% coverage of the 4 coastal flight lines.		

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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