

# HU-25A Guardian #524 09/13/16

**Aircraft:**

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

**Flight Number:**

OIB 2016 on HU-25 #33

**Payload Configuration:**

ATM

**Nav Data Collected:**

No

**Total Flight Time:**

2.9 hours

**Submitted by:**

Richard Yasky on 09/30/16

**Flight Segments:**

<b>From:</b>	BGSF	<b>To:</b>	BGSF
<b>Start:</b>	09/13/16 15:58 Z	<b>Finish:</b>	09/13/16 18:51 Z
<b>Flight Time:</b>	2.9 hours		
<b>Log Number:</b>	<a href="#">16F003</a>	<b>PI:</b>	Nathan Kurtz
<b>Funding Source:</b>	Thomas Wagner - NASA - SMD - ESD Cryosphere & International Polar Year		
<b>Purpose of Flight:</b>	Science		
<b>Comments:</b>	A shortened K-EGIG-Summit mission flown at FL180 descending to FL160 due to high clouds covering large portion of the area. Two ICESAT lines were dropped and the western half of the EGIG line was planned to be shortened as well due to clouds observed on the previous flight . With fuel and time and weather better than expected upon our intercept with the line, the entire planned EGIG line was flown.		

**Flight Hour Summary:**

	<b>16F003</b>
<b>Flight Hours Approved in SOFRS</b>	121.25
<b>Total Used</b>	126.9
<b>Total Remaining</b>	-5.65

**16F003 Flight Reports**

Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining	Miles Flown
<a href="#">06/29/16</a>	OIB 2016 on HU25A ICF	Science	2	2	119.25	
<a href="#">07/11/16</a>	OIB 2016 on HU25A #1	Ferry	2.6	4.6	116.65	
<a href="#">07/11/16</a>	OIB 2016 on HU25A #2	Ferry	2.5	7.1	114.15	
<a href="#">07/11/16 - 07/12/16</a>	OIB 2016 on HU25A #3	Ferry	2.2	9.3	111.95	
<a href="#">07/12/16 - 07/13/16</a>	OIB 2016 on HU25A #4	Ferry	2.6	11.9	109.35	
<a href="#">07/13/16</a>	OIB 2016 on HU25A #5	Science	3.4	15.3	105.95	
<a href="#">07/14/16</a>	OIB 2016 on HU25A #6	Science	3.5	18.8	102.45	
<a href="#">07/15/16</a>	OIB 2016 on HU25A #7	Science	3.7	22.5	98.75	
<a href="#">07/19/16 - 07/20/16</a>	OIB 2016 on HU25A #8	Science	3.6	26.1	95.15	
<a href="#">07/20/16</a>	OIB 2016 on HU25A #9	Science	3.4	29.5	91.75	

<a href="#">07/21/16</a>	OIB 2016 on HU25A #10	Science	3.6	33.1	88.15
<a href="#">07/22/16</a>	OIB 2016 on HU25A #11	Ferry	3.9	37	84.25
<a href="#">07/22/16</a>	OIB 2016 on HU25A #12	Ferry	3.2	40.2	81.05
<a href="#">07/22/16</a>	OIB 2016 on HU25A #13	Ferry	2.1	42.3	78.95
<a href="#">08/23/16</a>	OIB 2016 on HU-25 #14	Science	2.3	44.6	76.65
<a href="#">08/25/16</a>	OIB 2016 on HU-25 #15	Ferry	3.2	47.8	73.45
<a href="#">08/25/16</a>	OIB 2016 on HU-25 #16	Ferry	2.2	50	71.25
<a href="#">08/27/16</a>	OIB 2016 on HU-25 #17	Science	3.7	53.7	67.55
<a href="#">08/29/16</a>	OIB 2016 on HU-25 #18	Science	3.8	57.5	63.75
<a href="#">08/29/16</a>	OIB 2016 on HU-25 #19	Science	3.5	61	60.25
<a href="#">09/01/16</a>	OIB 2016 on HU-25 #20	Science	3.4	64.4	56.85
<a href="#">09/02/16</a>	OIB 2016 on HU-25 #21	Science	3.8	68.2	53.05
<a href="#">09/02/16</a>	OIB 2016 on HU-25 #22	Science	3.8	72	49.25
<a href="#">09/05/16</a>	OIB 2016 on HU-25 #23	Science	0.6	72.6	48.65
<a href="#">09/06/16</a>	OIB 2016 on HU-25 #24	Science	3.5	76.1	45.15
<a href="#">09/09/16</a>	OIB 2016 on HU-25 #25	Science	3.5	79.6	41.65
<a href="#">09/09/16</a>	OIB 2016 on HU-25 #26	Science	3.5	83.1	38.15
<a href="#">09/10/16</a>	OIB 2016 on HU-25 #27	Science	3	86.1	35.15
<a href="#">09/11/16</a>	OIB 2016 on HU-25 #28	Science	3.9	90	31.25
<a href="#">09/11/16</a>	OIB 2016 on HU-25 #29	Science	3.7	93.7	27.55
<a href="#">09/12/16</a>	OIB 2016 on HU-25 #30	Science	3.3	97	24.25
<a href="#">09/12/16</a>	OIB 2016 on HU-25 #31	Science	2.7	99.7	21.55
<a href="#">09/13/16</a>	OIB 2016 on HU-25 #32	Science	4	103.7	17.55
<a href="#">09/13/16</a>	OIB 2016 on HU-25 #33	Science	2.9	106.6	14.65
<a href="#">09/15/16</a>	OIB 2016 on HU-25 #34	Science	3.7	110.3	10.95
<a href="#">09/16/16</a>	OIB 2016 on HU-25 #35	Ferry	2.4	112.7	8.55
<a href="#">09/16/16</a>	OIB 2016 on HU-25 #35	Ferry	1.7	114.4	6.85
<a href="#">09/16/16</a>	OIB 2016 on HU-25 #35	Ferry	1.7	116.1	5.15
<a href="#">09/17/16</a>	OIB 2016 on HU-25 #38	Ferry	2.8	118.9	2.35
<a href="#">09/17/16</a>	OIB 2016 on HU-25 #38	Ferry	2.9	121.8	-0.55

<a href="#">09/19/16</a>	OIB 2016 on HU-25 #40	Ferry	2.5	124.3	-3.05
<a href="#">09/19/16</a>	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.

**Related Science Report:**

## OIB - HU-25C Guardian #524 09/13/16 Science Report

**Mission:**

OIB

**Mission Summary:**

Mission: Falcon K-EGIG-Summit (priority: low)

This mission is a shortened version of the baseline-priority ?K-EGIG-Summit? flight last flown in Spring 2015. This version retains the three upper IceSat-1 lines in the upper Jakobshavn catchment area, the western half of the EGIG line, and the overflights of the K-Transect sites near Kangerlussuaq, but eliminates the eastern portion of the EGIG line and the IceSat-1 and IceSat-2 cal/val lines near Summit Station.

The fog and low stratus in eastern and central Greenland dissipated slightly from this morning as forecast, but it did not dissipate quickly enough to allow us to fly our last high-priority mission (Falcon - East Glaciers). We selected this mission, but we knew from our visual observations during this morning's flight, as well as from satellite imagery, that the three IceSat-1 lines would be in or near the low clouds. So we removed the two easternmost IceSat-1 lines from today's flight plan. Also, the morning's cirrus clouds thickened and increased somewhat in extent, so we reduced our altitude first to 18,000' and later to 16,000' in order to remain below them. This increased our fuel burn significantly but this was less of a factor since we had already shortened the mission. In the end, we successfully obtained data over the entire K-Transect, the entire EGIG line except for a very few isolated cloudy spots, and for most of the northern half of the westernmost IceSat-1 line for a total data return along the shortened mission of better than 90%.

All instruments performed well.

We conducted a ramp pass at 1500'.

Data volumes:

CAMBOT: 8 Gb images

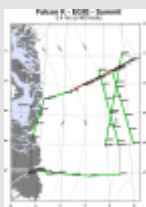
Narrow Swath ATM: 37 Gb

FLIR: 5.5 Gb

total data collection time: 2.6 hrs

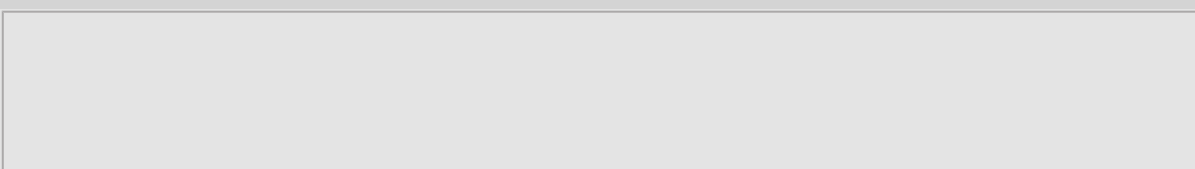
**Images:**

### Map of Falcon - K-EGIG-Summit



[Read more](#)

### Kangerlussuaq from 10,000'





[Read more](#)

## Jakobshavn Glacier from the west



[Read more](#)

**Submitted by:**  
John Sonntag on 10/01/16

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