

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

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

Flight Number: OIB 2016 on HU-25 #29

Payload Configuration: ATM

Nav Data Collected: No

Total Flight Time: 3.7 hours

Submitted by: Richard Yasky on 09/11/16

Flight Segments:

| | | | |
|---------------------------|---|----------------|------------------|
| From: | BGSF | To: | BGSF |
| Start: | 09/11/16 15:23 Z | Finish: | 09/11/16 19:03 Z |
| Flight Time: | 3.7 hours | | |
| Log Number: | 16F003 | PI: | Nathan Kurtz |
| Funding Source: | Thomas Wagner - NASA - SMD - ESD Cryospheric Science | | |
| Purpose of Flight: | Science | | |
| Comments: | ICESAT 2 Central route flown. Reversed route to take advantage of expected clearing weather. Transect W-E had about 40 NM obscured by low clouds. Five N-S lines were clear and final N_S line closest to Kanger was about 75% clear for data. Got a 3500 ft ramp AGL pass in prior to landing. | | |

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.

Related Science Report:

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

Mission: OIB

Mission Summary:

Mission: Falcon IceSat-2 Central (priority: high)

This mission is a shortened version of the mission of the same name flown in Spring 2016. The purpose is to fly IceSat-2 ground tracks in a region of slow-moving ice near Kangerlussuaq. Additional portions of that original design are flown in the Falcon Mop-up 1 mission.

As we expected from our morning weather brief, the high pressure centered near Summit brought mild outflow to the west-central flank of the ice sheet near Kangerlussuaq. This outflow had the effect of gradually dissipating the fog and low stratus present in this area earlier today. As a result we lost only a few km at the extreme southern and northern ends of the westernmost IceSat-2 line, for 99% successful data acquisition.

All instruments performed well, with the exception of the FLIR camera which shut off early in the mission. It was eventually restarted successfully, but only after landing.

We conducted a ramp pass at 3500' AGL.

Data volumes:

CAMBOT: 11 Gb images

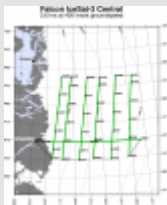
Narrow Swath ATM: 20 Gb

FLIR: 0.5 Gb

total data collection time: 3.4 hrs

Images:

Map of Falcon - IceSat-2 Central



[Read more](#)

Margin of ice sheet with clouds



[Read more](#)

Submitted by: John Sonntag on 09/11/16

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