

HU-25C Guardian 10/22/15

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

Flight Number: OIB2015 Arctic Mopup South

Payload Configuration: ATM & DMS

Nav Data Collected: Yes

Total Flight Time: 2 hours

Submitted by: Gregory L. Slover on 10/22/15

Flight Segments:

| | | | |
|---------------------------|--|----------------|------------------|
| From: | BGSF | To: | BGSF |
| Start: | 10/22/15 10:14 Z | Finish: | 10/22/15 12:12 Z |
| Flight Time: | 2 hours | | |
| Log Number: | 16F002 | PI: | John Woods |
| Funding Source: | Thomas Wagner - NASA - SMD - ESD Cryospheric Science | | |
| Purpose of Flight: | Science | | |
| Comments: | OIB Science flight #22, final mission for OIB Arctic melt season. Flown as planned at FL310 with little cloud interruption. 99% of data collected. Ramp pass at 5,000 feet obscured by overcast clouds was ineffective. Next event is ferry N525NA home. | | |

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 |

Source URL: https://espoarchive.nasa.gov/flight_reports/HU-25C_Guardian_10_22_15#comment-0

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Page Editor: Katja Drdla

NASA Official: Marilyn Vasques

Related Science Report:

OIB - HU-25C Guardian 10/22/15 Science Report

Mission: OIB

Mission Summary:

Mission: Falcon Mopup South (priority: n/a)

This short mission is designed to re-fly the western portions of two east-west transects across the ice sheet originally from the high-priority "Southeast Coastal A" mission. The portions of these lines west of the ice divide were clouded the day we flew that mission, and those are the portions we are re-flying today. We extended the lines a few dozen kilometers to the east from the divide, in order to assure connectivity and overlap with the clear areas from the original flight.

Weather was once again quite good for this flight. The east-west survey lines were bookended by low clouds on both their east and west ends, but we successfully surveyed both lines in their entirety except for the fogged westernmost few kilometers of the northern line, for 99% data coverage.

All instruments performed well.

We conducted a ramp pass at 5000' MSL just prior to landing.

Data volumes:

DMS: 5.5 Gb

Narrow Swath ATM: 9 Gb

FLIR: 868 Mb

total data collection time: 1.5 hrs

Images:

Map of Falcon - Mopup South



[Read more](#)

Sunrise over Greenland



[Read more](#)

Submitted by: John Sonntag on 10/22/15

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 | |