

OIB - HU-25A Guardian #524 07/24/17 Science Report

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

Date: Monday, July 24, 2017

Mission: OIB

Mission Location: Greenland

Mission Summary:

OIB flew a new mission called "Russell Forty" in honor of ATM operator Robbie Russell who celebrated his birthday with us while in the field in Thule. This mission samples sea ice towards the eastern edge of our range limit and overflies portions of the advected Laxon Line and Zig Zag West missions from the spring. Conditions were excellent along the entire flight with no data lost due to clouds. The eastern leg was cut slightly shorter than originally planned to be able to fly at low altitude during the southbound leg. Many large melt ponds and a variety of floe sizes were observed. Large amounts of algae on the ice were also seen on this flight as well, a first for this campaign. Just outside of Thule we also flew over several large melt ponds on the Greenland Ice Sheet for opportunistic data collection.

Data volumes
ATM: 32 Gb
FLIR: 3.6 Gb
DMS: 39 Gb
Headwall: 311 Gb

Submitted by: Nathan T. Kurtz on 07/24/17

File:

 [russell_forty_map.pdf](#)

Related Flight Report:

HU-25A Guardian #524 07/24/17

Flight Number: OIB Summer Science Data Flight #4

Payload Configuration: ATM

Nav Data Collected: No

Total Flight Time: 3.9 hours

Submitted by: Luci Crittenden on 07/24/17

Flight Segments:

From:	BGTL	To:	BGTL
Start:	07/24/17 13:10 Z	Finish:	07/24/17 17:05 Z
Flight Time:	3.9 hours		
Log Number:	17F001	PI:	Nathan Kurtz
Funding Source:	Thomas Wagner - NASA - SMD - ESD Cryospheric Science		
Purpose of Flight:	Science		
Comments:	OIB completed the Russell Forty sea ice mission today out of Thule, Greenland.		

Flight Hour Summary:

	17F001
Flight Hours Approved in SOFRS	44.2
Total Used	39.5
Total Remaining	4.7

17F001 Flight Reports

Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining	Miles Flown
07/10/17	OIB Summer Science ICF	Check	3.7	3.7	40.5	

07/12/17	2017 OIB Summer Science Transit	Transit	2.9	6.6	37.6
07/12/17	2017 OIB Summer Science Transit	Transit	2.3	8.9	35.3
07/13/17	2017 OIB Summer Science Transit BGSF-BGTL	Transit	1.9	10.8	33.4
07/17/17	OIB Summer Science Data Flight#1	Science	3.8	14.6	29.6
07/18/17	OIB Summer Science Data Flight #2	Science	3.7	18.3	25.9
07/19/17	OIB Summer Science Data Flight #3	Science	2.7	21	23.2
07/24/17	OIB Summer Science Data Flight #4	Science	3.9	24.9	19.3
07/25/17	OIB Summer Science Data Flight #5 & #6	Science	3.7	28.6	15.6
07/25/17	OIB Summer Science Data Flight #5 & #6	Science	3.5	32.1	12.1
07/26/17	OIB Transit Legs BGTL-BGSF-KBGR	Transit	2	34.1	10.1
07/26/17	OIB Transit Legs BGTL-BGSF-KBGR	Transit	3.7	37.8	6.4
07/27/17	OIB Transit Leg KBGR-KLFI	Transit	1.7	39.5	4.7

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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