

Other: NOAA P-3 05/10/16

Aircraft: Other: NOAA P-3 - 16M030

Flight Number: Land Ice Northwest Coastal A

Payload Configuration: OIB Spring 2016

Nav Data Collected: No

Total Flight Time: 6 hours

Submitted by: John Woods on 05/10/16

Flight Segments:

From:	BGTL	To:	BGSF
Start:	05/10/16 12:53 Z	Finish:	05/10/16 18:50 Z
Flight Time:	6 hours		
Log Number:	16M030	PI:	Nathan Kurtz
Funding Source:	Bruce Tagg - NASA - SMD - ESD Airborne Science Program		
Purpose of Flight:	Science		

Flight Hour Summary:

	16M030
Flight Hours Approved in SOFRS	200
Total Used	148.7
Total Remaining	51.3

16M030 Flight Reports

Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining	Miles Flown
03/22/16	ICF1	Check	2	2	198	
03/23/16	ICF2	Check	3.4	5.4	194.6	
04/12/16	ICF3	Check	1.3	6.7	193.3	
04/15/16	Repo 1	Ferry	0.5	7.2	192.8	
04/16/16	Repo 2	Ferry	2.9	10.1	189.9	
04/18/16	Repo 3	Ferry	7.1	17.2	182.8	
04/19/16	Sea Ice Eureka	Science	7.3	24.5	175.5	
04/20/16	Sea Ice Laxon Line	Science	8.7	33.2	166.8	
04/21/16 - 04/22/16	Sea Ice SIZRS Zigzag	Science	8.3	41.5	158.5	
04/30/16	Sea Ice South Basin Transect	Science	8.8	50.3	149.7	
05/03/16	Sea Ice North Pole Transect	Science	7.6	57.9	142.1	
05/04/16	Sea Ice South Canada Basin	Science	7.9	65.8	134.2	
05/09/16	Land Ice Zachariae-79N	Science	7.6	73.4	126.6	
05/10/16	Land Ice Northwest Coastal A	Science	6	79.4	120.6	
05/11/16	Land Ice Umanaq B	Science	7.1	86.5	113.5	
05/12/16	Land Ice Southeast Coastal	Science	7.3	93.8	106.2	
05/13/16	Land Ice Helheim-Kangerdlugssuaq	Science	7.8	101.6	98.4	
05/14/16	Land Ice SW Coastal A	Science	7.8	109.4	90.6	
05/16/16	Land Ice Thomas-Jakobshavn 01	Science	7.9	117.3	82.7	
05/17/16	Land Ice Helheim-Kangerdlugssuaq Gap B	Science	8.1	125.4	74.6	
05/18/16	Land Ice IceSat-2 Central	Science	7.7	133.1	66.9	

05/19/16	Land Ice East Glaciers 01	Science	7.1	140.2	59.8
05/21/16	Ferry BGSF_KMCF	Ferry	8.5	148.7	51.3

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 - WP-3D Orion 05/10/16 Science Report

Mission: OIB

Mission Summary:

Mission: Northwest Coastal A (priority: baseline)

This is a new mission, created from the 2010-2012 "Northwest Coastal" suite of missions by sampling individual coast-parallel lines from those flights to form a grid spaced at 30-35 km from the coast to near the 2000m contour line. This is one of three missions designed in this way, which together form a 10 km grid in the area. The others are Northwest Coastal B and C. We also add two additional bedrock-mapping lines in the Tracy/Heilprin catchment. This flight is assigned a baseline priority for 2016 because it continues an intra-annual time series with the spring and fall 2015 campaigns along these lines.

We ran out of opportunities to fly this line as a Thule-based flight, and the day of our transit from Thule to Kangerlussuaq became our only chance for it. Conducting a science flight on a transit day is challenging for many reasons, including logistics and weather. But today the field team pushed hard and took advantage of a small window of good weather along the upper Baffin Bay coast. We had to remove the uppermost coast-parallel line, along with two shorter fluxgate lines around Inglefield fjord, from the flight plan due to time constraints. We lost only very small areas of the lines due to clouds.

All instruments performed normally today. The aircraft was packed very tightly with luggage and ground equipment for the transit and this created occasional problems for the instrument operators (simply reaching switches and monitoring displays can be difficult). However they all ultimately operated successfully, thanks in part to the efforts of the NOAA crew who carefully arranged and rearranged the cargo with this in mind.

Data volumes:

- ATM: 19 Gb
- FLIR: 1.5 Gb
- DMS: 82 Gb
- Ku-Band Radar: 148 Gb
- MCoRDS: 976 Gb
- Snow Radar: 148 Gb
- BESST: xx Gb

total data collection time: 5.0 hrs

Images:

Map of today's flight



[Read more](#)

Ilullip Sermia



[Read more](#)

Small glacier



[Read more](#)

Moulin



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Submitted by: John Sonntag on 05/10/16

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