

OIB - Other: NOAA P-3 05/14/16 Science Report

Aircraft: Other: NOAA P-3 - 16M030

Date: Saturday, May 14, 2016

Mission: OIB

Mission Location: Kangerlussuaq, Greenland

Mission Summary:

Mission: Southwest Coastal A (priority: baseline)

This mission is one of two (with Southwest Coastal B) designed to mirror the southeastern coast-parallel coverage in the southwest, along 2011 LVIS flight lines. This particular flight captures the lowest-altitude portion of this part of the ice sheet. We also overfly a total of six PROMICE sites.

A stable high pressure air mass dominated all of southern Greenland today, yielding ideal flying conditions for our last baseline-priority land ice mission in the far south. Temperatures were rather warm as well, both on the ice sheet (see supraglacial water photo below) and at Kangerlussuaq where the donning of even a light jacket was debatable this morning. Cloudiness continued to dominate the west-central portion of Greenland today, including the Jakobshavn region and Summit.

All instruments performed normally today, and neither ATM nor DMS experienced unusual fouling of their respective windows from hydraulic fluid.

Overall, we estimate successful data collection across 100% of the flight, a mission first for the current campaign.

Tomorrow (Sunday) is a well-earned rest day for the field team after 6 days of successful science flights and an embedded move from Thule to Kangerlussuaq. The weather forecasts for next week are very favorable for flying over the Jakobshavn basin and our other remaining baseline-priority science targets.

We conducted a ramp pass over Kangerlussuaq at 1200' AGL.

Data volumes:

ATM: 32 Gb

FLIR: 3.8 Gb

DMS: 103 Gb

Ku-Band Radar: 170 Gb

MCoRDS: 2.7 Tb

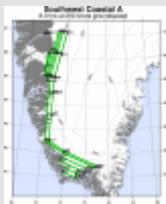
Snow Radar: 170 Gb

BESST: xx Gb

total data collection time: 7.3 hrs

Images:

Map of today's flight



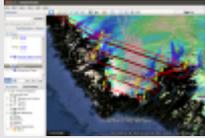
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Supraglacial lakes and rivers



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Flight plan and track detail



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Submitted by: John Sonntag on 05/14/16

Related Flight Report:

Other: NOAA P-3 05/14/16

Flight Number: Land Ice SW Coastal A

Payload Configuration: OIB Spring 2016

Nav Data Collected: No

Total Flight Time: 7.8 hours

Submitted by: John Woods on 05/14/16

Flight Segments:

From:	BGSF	To:	BGSF
Start:	05/14/16 13:15 Z	Finish:	05/14/16 21:02 Z
Flight Time:	7.8 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.

Page Last Updated: April 22, 2017

Page Editor: Brad Bulger

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