

Other: NOAA P-3 04/20/16

Aircraft: Other: NOAA P-3 - 16M030
Flight Number: Sea Ice Laxon Line
Payload Configuration: OIB-Spring 2016
Nav Data Collected: No
Total Flight Time: 8.7 hours
Submitted by: John Woods on 04/20/16
Flight Segments:

From:	BGTL	To:	PAFA
Start:	04/20/16 13:38 Z	Finish:	04/20/16 22:22 Z
Flight Time:	8.7 hours		
Log Number:	16M030	PI:	Nathan Kurtz
Funding Source:	Bruce Tagg - NASA - SMD - ESD Airborne Science Program		
Purpose of Flight:	Science		
Comments:	Science Transit to PAFA		

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 - Other: NOAA P-3 04/20/16 Science Report

Mission: OIB

Mission Summary:

OIB flew the Laxon Line sea ice mission. Clouds were present near the beginning of the line in the Lincoln Sea but were patchy enough that we obtained intermittent data throughout. Conditions remained otherwise clear throughout the rest of the flight with ATM data returns over approximately 95% of the flight line. Leads were sparse in the early part of the flight and increased in frequency as the flight progressed. All systems operated nominally during the flight with MCoRDS also obtaining some opportunistic data over land ice during the transit from Thule to the sea ice line. Fouling of the ATM optical window occurred again though not to a degree to impact the data.

Data volumes:

ATM: 32 Gb some window contamination probable later in flight

FLIR: 4 Gb

DMS: 111 Gb

Ku-Band Radar: 131 Gb

MCoRDS: 396 Gb

Snow Radar: 131 Gb

BESST: (write error caused loss of data collection 1 hour after instrument turn on)

Total data collection time: 6.8 hrs

File:

 [laxon_line_map.pdf](#)

Submitted by: Nathan T. Kurtz on 04/30/16

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