

## P-3 Orion 05/03/17

Aircraft: [P-3 Orion - WFF \(See full schedule\)](#)

Flight Number: Science Flight #34-Thomas - Southwest Coastal A

Payload Configuration: OIB Arctic

Nav Data Collected: No

Total Flight Time: 8.3 hours

Submitted by: Cate Easmunt on 05/03/17

### Flight Segments:

<b>From:</b>	BGSF	<b>To:</b>	BGSF
<b>Start:</b>	05/03/17 10:20 Z	<b>Finish:</b>	05/03/17 18:39 Z
<b>Flight Time:</b>	8.3 hours		
<b>Log Number:</b>	<a href="#">17P006</a>	<b>PI:</b>	Nathan Kurtz
<b>Funding Source:</b>	Bruce Tagg - NASA - SMD - ESD Airborne Science Program		
<b>Purpose of Flight:</b>	Science		

### Flight Hour Summary:

	<b>17P006</b>
<b>Flight Hours Approved in SOFRS</b>	333.6
<b>Total Used</b>	332
<b>Total Remaining</b>	1.6

### 17P006 Flight Reports

Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining	Miles Flown
<a href="#">02/24/17</a>	Airworthiness Test Flight	Check	1	1	332.6	
<a href="#">02/26/17</a>	Project Test Flight #1	Check	4.9	5.9	327.7	
<a href="#">02/27/17</a>	Project Test Flight #2	Check	3	8.9	324.7	
<a href="#">03/07/17</a>	Transit Flight	Transit	8.2	17.1	316.5	
<a href="#">03/09/17</a>	Science Flight #1 - North Pole Transect	Science	8	25.1	308.5	
<a href="#">03/10/17</a>	Science Flight #2 - Laxon Line	Science	8.5	33.6	300	
<a href="#">03/11/17 - 03/12/17</a>	Science Flight #3 - Chukchi West Line	Science	8	41.6	292	
<a href="#">03/12/17 - 03/13/17</a>	Science Flight #4 - North Beaufort Loop Line	Science	8.1	49.7	283.9	
<a href="#">03/14/17 - 03/15/17</a>	Science Flight #5 - East Beaufort Loop Line	Science	8	57.7	275.9	
<a href="#">03/20/17</a>	Science Flight #6 - Sea Ice South Basin Transect (to Thule)	Science	8.1	65.8	267.8	
<a href="#">03/22/17</a>	Science Flight #7 - North Flux 02	Science	7.9	73.7	259.9	
<a href="#">03/23/17</a>	Science Flight #8 - Zig Zag West Line	Science	7.9	81.6	252	
<a href="#">03/24/17</a>	Science Flight #9 - CryoVEx Line	Science	5.8	87.4	246.2	
<a href="#">03/27/17</a>	Science Flight #10 - Northwest Coastal A Line	Science	7.4	94.8	238.8	
<a href="#">03/28/17</a>	Science Flight #11 - North Central Cap 01 Line	Science	7.6	102.4	231.2	
<a href="#">03/29/17</a>	Science Flight #12 - Ellesemere Island 01 Line	Science	7.6	110	223.6	
<a href="#">03/30/17</a>	Science Flight #13 - Ellesemere South Line	Science	7.9	117.9	215.7	
<a href="#">03/31/17</a>	Science Flight #14- Alexander-Petermann Line	Science	6.5	124.4	209.2	

<a href="#">04/03/17</a>	Science Flight #15- Zachariae 79N Fram Straight and BGTL ENSB Transit	Science	7.4	131.8	201.8
<a href="#">04/05/17</a>	Science Flight #16 - Svalbard North Line (High Priority)	Science	7	138.8	194.8
<a href="#">04/06/17</a>	Science Flight #17- Svalbard South Mission (High Priority)	Science	8.5	147.3	186.3
<a href="#">04/07/17</a>	Science Flight #18- Combined Zig Zag East Mission and Transit ENSB to BGTL	Science	8.3	155.6	178
<a href="#">04/10/17</a>	Science Flight #19- North Central Gap 3	Science	7.8	163.4	170.2
<a href="#">04/11/17</a>	Science Flight #20- CryoVex 2 (High Priority)	Science	7.8	171.2	162.4
<a href="#">04/12/17</a>	Science Flight #21-Northwest Coastal C	Science	7.2	178.4	155.2
<a href="#">04/13/17</a>	Science Flight #22-North Glaciers 02 Prime (High Priority)	Science	8.2	186.6	147
<a href="#">04/14/17</a>	Science Flight #23-IceSat-2 North/CryoSat-2 SARIn	Science	7	193.6	140
<a href="#">04/17/17</a>	Science Flight #24-Humboldt 01(High Priority)	Science	7.8	201.4	132.2
<a href="#">04/19/17</a>	Science Flight #25-Sea Ice - South Canada Basin (MediumPriority)	Science	7.8	209.2	124.4
<a href="#">04/20/17</a>	Transit Flight to Kangerlussuaq	Transit	3	212.2	121.4
<a href="#">04/21/17</a>	Science Flight #26-Southeast Coastal	Science	8	220.2	113.4
<a href="#">04/22/17</a>	Science Flight #27-Helheim- Kangerd	Science	7.8	228	105.6
<a href="#">04/24/17</a>	Science Flight #28-Geikie 01 (High Priority)	Science	8	236	97.6
<a href="#">04/26/17</a>	Science Flight #29-Devon-Bylot (Medium Priority)	Science	7.9	243.9	89.7
<a href="#">04/28/17</a>	Science Flight #30-Penny 01 (Medium Priority)	Science	6	249.9	83.7
<a href="#">04/29/17</a>	Science Flight #31-Thomas - Jakobshavn 01	Science	8.4	258.3	75.3
<a href="#">05/01/17</a>	Science Flight #32-Thomas - Jakobshavn-Eqip-Store	Science	8.4	266.7	66.9
<a href="#">05/02/17</a>	Science Flight #33-Thomas - ICESat-2 Central	Science	7.9	274.6	59
<a href="#">05/03/17</a>	Science Flight #34-Thomas - Southwest Coastal A	Science	8.3	282.9	50.7
<a href="#">05/05/17</a>	Science Flight #35-Helheim- Kangerdlugssuaq Gap B (High Priority)	Science	8.2	291.1	42.5
<a href="#">05/06/17</a>	Science Flight #36-Helheim-K- EGIG-Summit	Science	8	299.1	34.5
<a href="#">05/08/17</a>	Science Flight #37-Southeast Glaciers 01 (High Priority)	Science	8	307.1	26.5
<a href="#">05/10/17</a>	Science Flight #38-Umanaq B (High Priority)	Science	8	315.1	18.5
<a href="#">05/11/17</a>	Science Flight #39-ICESat-2 South (High Priority)	Science	8.1	323.2	10.4
<a href="#">05/12/17</a>	Science Flight #40-Nuuk Fjords	Science	1.8	325	8.6
<a href="#">05/13/17</a>	Transit Flight to Dover DE (to clear customs)	Transit	6.4	331.4	2.2

05/13/17

Transit Flight to Wallops Flight Facility

Transit

0.6

332

1.6

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 - P-3 Orion 05/03/17 Science Report

**Mission:** OIB

#### Mission Summary:

Mission: Southwest Coastal A (priority: baseline; last flown: 2016)

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. We also recently modified this mission to overfly an additional PROMICE site traverse led by Jason Box in the vicinity of Narsarsuaq, and to repeat of a 2001 flight over an outlet glacier near there.

Due to extensive clouds over central and southeastern Greenland today, this baseline mission was our only viable target. Patchy and low clouds near Kangerlussuaq at the beginning were as expected. However, they were dense enough that we quickly decided to adjust the order of our tracks to survey farther inland and south first so as to give them time to clear. We flew by Narsarsuaq and observed some small melt pools inside of crevasses near the southern tip of the ice sheet. No instrument issues were reported and the northwest portion of the mission was clear up once we returned to it. A ramp pass was performed at 4000'.

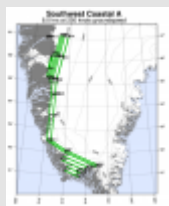
Today's mission marks our third baseline mission in a row, which shall henceforth be known as an IceBridge hat trick.

Attached images:

1. Map of today's mission
2. DMS image of crevasse melt ponds in far southern Greenland (Eric Fraim / NASA)
3. CAMBOT image of dense seracs (Matt Linkswiler / NASA)
4. Ice rubble in front of glacier terminus (Lauren Andrews / NASA)

#### Images:

### Map of today's mission



[Read more](#)

### DMS image of crevasse melt ponds in far southern Greenland



[Read more](#)

### CAMBOT image of dense seracs



[Read more](#)

## Ice rubble in front of glacier terminus



[Read more](#)

**Submitted by:** Joseph MacGregor on 05/09/17

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