

## P-3 Orion 05/02/17

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

Flight Number: Science Flight #33-Thomas - ICESat-2 Central

Payload Configuration: OIB Arctic

Nav Data Collected: No

Total Flight Time: 7.9 hours

Submitted by: Cate Easmunt on 05/02/17

### Flight Segments:

<b>From:</b>	BGSF	<b>To:</b>	BGSF
<b>Start:</b>	05/02/17 10:17 Z	<b>Finish:</b>	05/02/17 18:09 Z
<b>Flight Time:</b>	7.9 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 05/02/17 Science Report

**Mission:** OIB

**Mission Summary:**

Mission: ICESat-2 Central (priority: baseline; last flown in 2016)

This mission is designed to overfly planned ICESat-2 ground tracks over a wide range of ice regimes near Kangerlussuaq. We center some of the flightlines on each of three beam pairs (left, nadir and right) in turn, sampling three of each beam pair during this mission. The east-west crossing lines are designed to capture as many ascending/descending crossovers as possible. We modified and augmented the mission in 2016 to overfly five GreenTrACS core sites.

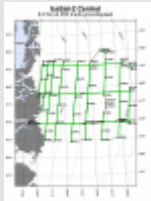
A larger weather system in southeast Greenland near Kulusuk, clouds over Summit and weak onshore winds in southwest Greenland favored ICESat-2 Central today. Skies were mostly clear all day. The flight proceeded as planned and was uneventful. Haze in the northeast portion of the survey decreased visibility, but both ATMs were able to penetrate it, but low clouds in the northeastern portion toward the end of the survey resulted in minor data loss. Lauren Andrews and Kristin Poinar (both NASA GSFC) joined us for this mission, and it was our PolarTREC teacher Adeena Teres' last flight of the deployment.

Attached images:

1. Map of today's mission (John Sonntag / NASA)
2. DMS image of surface crevassing north of Russell Glacier (Eric Fraim / NASA)
3. DMS image of FirnCover camp at CORE1 waypoint, showing tents, snowmobiles, sleds and science equipment (Eric Fraim / NASA)
4. Preliminary ATM T6 surface elevation recorded during survey (Matt Linkswiler / NASA)

**Images:**

### Map of today's mission



[Read more](#)

### DMS image of surface crevassing north of Russell Glacier



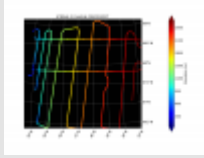
[Read more](#)

### DMS image of FirnCover camp at CORE1 waypoint, showing tents, snowmobiles, sleds and science equipment



[Read more](#)

## Preliminary ATM T6 surface elevation recorded during survey



[Read more](#)

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

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