

## P-3 Orion - WFF 05/16/19

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

Flight Number: 2019 OIB Science Flight #24

Payload Configuration: Operation IceBridge

Nav Data Collected: No

Total Flight Time: 6.3 hours

Submitted by: Mike Cropper on 05/16/19

### Flight Segments:

<b>From:</b>	BGSF	<b>To:</b>	BGSF
<b>Start:</b>	05/16/19 10:29 Z	<b>Finish:</b>	05/16/19 16:49 Z
<b>Flight Time:</b>	6.3 hours		
<b>Log Number:</b>	<a href="#">19P017</a>	<b>PI:</b>	Joseph MacGregor
<b>Funding Source:</b>	Bruce Tagg - NASA - SMD - ESD Airborne Science Program		
<b>Purpose of Flight:</b>	Science		

### Flight Hour Summary:

	19P017
<b>Flight Hours Approved in SOFRS</b>	250
<b>Total Used</b>	216.3
<b>Total Remaining</b>	33.7

### 19P017 Flight Reports

Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining	Miles Flown
<a href="#">03/26/19</a>	#2053: 2019 OIB ATF	Check	0.9	0.9	249.1	0
<a href="#">03/27/19</a>	#2059: 2019 OIB PTF-Laser	Check	2.3	3.2	246.8	0
<a href="#">03/28/19</a>	#2061: 2019 OIB PTF-Radar	Check	3.2	6.4	243.6	0
<a href="#">04/01/19</a>	#2068: 2019 OIB WFF-BGTL Transit Flight	Transit	6.9	13.3	236.7	2458
<a href="#">04/03/19</a>	#2070: 2019 OIB Science Flight #1	Science	7.6	20.9	229.1	1938
<a href="#">04/05/19</a>	#2072: 2019 OIB Science Flight #2	Science	7.7	28.6	221.4	1910
<a href="#">04/06/19</a>	#2073: 2019 OIB Science Flight #3	Science	7.2	35.8	214.2	2000
<a href="#">04/08/19</a>	#2075: 2019 OIB Science Flight #4	Science	6.9	42.7	207.3	1780
<a href="#">04/09/19</a>	#2076: 2019 OIB Science Flight #5	Science	7.8	50.5	199.5	2045
<a href="#">04/10/19</a>	#2081: 2019 OIB Science Flight #6	Science	10.1	60.6	189.4	2702
<a href="#">04/11/19</a>	#2082: BGSF-BGTL Transit	Transit	2.2	62.8	187.2	696
<a href="#">04/12/19</a>	#2083: 2019 OIB Science Flight #7	Science	7.2	70	180	2109
<a href="#">04/15/19</a>	#2086: 2019 OIB Science Flight #8	Science	4.8	74.8	175.2	1243
<a href="#">04/16/19</a>	#2087: 2019 OIB Science Flight #9	Science	7.6	82.4	167.6	2036
<a href="#">04/17/19</a>	#2088: 2019 OIB Science Flight #10	Science	7.7	90.1	159.9	1937

<a href="#">04/18/19</a>	#2090: 2019 OIB Science Flight #11	Science	7.8	97.9	152.1	2008
<a href="#">04/19/19</a>	#2091: 2019 OIB Science Flight #12	Science	7.6	105.5	144.5	2104
<a href="#">04/20/19</a>	#2092: 2019 OIB Science Flight #13	Science	6.9	112.4	137.6	0
<a href="#">04/22/19</a>	#2094: 2019 OIB Science Flight #14	Science	6.6	119	131	1867
<a href="#">04/23/19</a>	#2099: 2019 OIB Science Flight #15	Science	7.7	126.7	123.3	1979
<a href="#">04/25/19</a>	#2102: 2019 OIB BGTL-KBGR Transit Flight	Transit	6.2	132.9	117.1	0
<a href="#">04/26/19</a>	KBGR to BGSF Transit	Transit	5.7	138.6	111.4	0
<a href="#">05/05/19</a>	2019 OIB Science Flight #16	Science	7.8	146.4	103.6	0
<a href="#">05/06/19</a>	2019 OIB Science Flight #17	Science	8.4	154.8	95.2	0
<a href="#">05/07/19</a>	2019 OIB Science Flight #18	Science	8.5	163.3	86.7	0
<a href="#">05/08/19</a>	2019 OIB Science Flight #19	Science	8	171.3	78.7	0
<a href="#">05/12/19</a>	2019 OIB Science Flight #20	Science	9	180.3	69.7	0
<a href="#">05/13/19</a>	2019 OIB Science Flight #21	Science	7	187.3	62.7	0
<a href="#">05/14/19</a>	2019 OIB Science Flight #22	Science	7.9	195.2	54.8	0
<a href="#">05/15/19</a>	2019 OIB Science Flight #23	Science	8.3	203.5	46.5	0
<a href="#">05/16/19</a>	2019 OIB Science Flight #24	Science	6.3	209.8	40.2	0
<a href="#">05/17/19</a>	2019 OIB Transit	Transit	6.2	216	34	0
<a href="#">05/17/19</a>	2019 OIB Transit	Transit	0.3	216.3	33.7	0

*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 - WFF 05/16/19 Science Report

**Mission:** OIB

**Mission Summary:**

Mission: IceSat-2 South shortened (priority:high)

This mission is designed along IceSat-2 ground tracks to fill the gap between the southeastern and southwestern suites of missions. We sample a total of four IceSat-2 orbits, mixing left, nadir, and right beam pair overflights. We also overfly a firm compaction study site at point Saddle. For 2019 we replace three of the previously flown lines with lower-latency tracks (occupied by IS-2 on 15, 16 and 19 May 2019). We removed two of the originally-planned six IS-2 lines today, because today being our final science flight prior to our departure for the US tomorrow, we needed additional time this afternoon to load the aircraft for departure and still remain within our allowable crew duty hours.

The unsettled weather over all of southern Greenland improved somewhat this morning, leaving substantial clear areas but also many clouds. The clearest area among our high-priority areas roughly straddled the South Dome region, making this mission one for which we could expect a reasonable science return. Weather models also

led us to expect slow clearing of the area during the day. Once airborne, we experienced mostly clear (and very calm) conditions, with a few patches of low cloud that prevented optical data collection from time to time.

Headwall SWIR did not operate today, but otherwise all instruments performed well. ATM estimates 90% altimetry data recovery today. We did not perform a ramp pass due to low ceilings at Kangerlussuaq upon arrival.

IceSat-2 RGT latencies (+/- indicates OIB surveyed after/before IceSat-2)

0780 -3 days  
0742 -7 hours  
0681 +4 days  
0719 +1 day

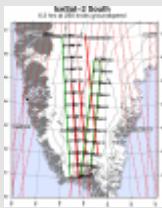
Data volumes:

ATM: 93 Gb  
CAMBOT: 128 Gb  
FLIR: 12 Gb  
KT19: 8 Mb  
MCoRDS: 1.64 Tb  
Narrow Swath ATM: 126 Gb green  
Narrow Swath ATM: 91 Gb IR  
VNIR 29 Gb  
Snow Radar: 1.14 Tb

total data collection time: 5.6 hrs

## Images:

### Map of today's flight.



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### Weather satellite image



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### Typical cloudiness for today



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### Foggy fjord



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## Sheep farm



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## Fjords and glacier



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## Waterfall



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**Submitted by:** John Sonntag on 05/16/19

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