

P-3 Orion 04/16/18

Aircraft:

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

Flight Number:

2018 OIB Arctic -Science #9

Payload Configuration:

2018 OIB Arctic

Nav Data Collected:

No

Total Flight Time:

8.2 hours

Submitted by:

Janet Letchworth on 04/16/18

Flight Segments:

From:	PAFA	To:	BGTL
Start:	04/16/18 10:06 Z	Finish:	04/16/18 18:15 Z
Flight Time:	8.2 hours		
Log Number:	18P008	PI:	Nathan Kurtz
Funding Source:	Bruce Tagg - NASA - SMD - ESD Airborne Science Program		
Purpose of Flight:	Science		
Comments:	This flight covered the South Basin Transect - a baseline sea ice line. We also re-positioned from Fairbanks to Thule during the flight.		

Flight Hour Summary:

	18P008
Flight Hours Approved in SOFRS	201.2
Total Used	190.4
Total Remaining	10.8

18P008 Flight Reports

Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining	Miles Flown
03/13/18	2018 OIB Arctic - Airworthiness Test Flight	Other	0.8	0.8	200.4	
03/14/18	2018 OIB Arctic -Project Test Flight - Laser	Other	2.6	3.4	197.8	
03/15/18	2018 OIB Arctic -Project Test Flight - Radar	Other	5.7	9.1	192.1	
03/18/18	2018 OIB Arctic -delta ATF	Other	0.8	9.9	191.3	
03/20/18	2018 OIB Arctic -Transit to Thule	Transit	7.9	17.8	183.4	
03/22/18	2018 OIB Arctic - Science #1	Science	7.8	25.6	175.6	
04/03/18	2018 OIB Arctic - Science #2	Science	7.9	33.5	167.7	
04/04/18	2018 OIB Arctic - Science #3	Science	8.1	41.6	159.6	
04/05/18	2018 OIB Arctic - Science #4	Science	8	49.6	151.6	
04/06/18	2018 OIB Arctic - Science #5	Science	8.8	58.4	142.8	
04/07/18 - 04/08/18	2018 OIB Arctic - Science #6	Science	8.1	66.5	134.7	
04/08/18 - 04/09/18	2018 OIB Arctic - Science #7	Science	8.3	74.8	126.4	

04/14/18 - 04/15/18	2018 OIB Arctic - Science #8	Science	7.7	82.5	118.7
04/16/18	2018 OIB Arctic - Science #9	Science	8.2	90.7	110.5
04/18/18	2018 OIB Arctic - Science #10	Science	8	98.7	102.5
04/19/18	2018 OIB Arctic - Science #11	Science	7.7	106.4	94.8
04/20/18	2018 OIB Arctic -Transit to Kanger	Transit	4.2	110.6	90.6
04/21/18	2018 OIB Arctic - Science #12	Science	8.1	118.7	82.5
04/22/18	2018 OIB Arctic - Science #13	Science	6.5	125.2	76
04/23/18	2018 OIB Arctic - Science #14	Science	8.2	133.4	67.8
04/25/18	2018 OIB Arctic - Science #15	Science	7.7	141.1	60.1
04/26/18	2018 OIB Arctic - Science #16	Science	8.8	149.9	51.3
04/27/18	2018 OIB Arctic - Science #17	Science	8	157.9	43.3
04/29/18	2018 OIB Arctic - Science #18	Science	8.3	166.2	35
04/30/18	2018 OIB Arctic - Science #19	Science	9.3	175.5	25.7
05/01/18	2018 OIB Arctic - Science #20	Science	7.4	182.9	18.3
05/03/18	2018 OIB Arctic -Return Transit Leg #1	Transit	6.4	189.3	11.9
05/03/18	2018 OIB Arctic -Return Transit Leg #2	Transit	0.6	189.9	11.3
05/03/18	2018 OIB Arctic -Return Transit Leg #3	Transit	0.5	190.4	10.8

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 04/16/18 Science Report

Mission:

OIB

Mission Summary:

Mission: South Basin Transect
Priority: Baseline

This mission is a repeat of missions flown each year of OIB beginning in 2009. Timing on this flight is challenging because we must land at Thule before the airfield closes at 1600 local time, which is five hours ahead of Fairbanks local time. This means that we must depart Fairbanks before approximately 0200 local time, and this in turn means that we must fly the first few hours of this flight in darkness. For 2016 the portion of this flight north of Ellesmere Island was slightly modified to improve the distribution of coverage in that area. In addition to Level-1 Requirements SI1 and SI2, it addresses sea ice level 1 baseline requirement SI3a by providing data on the thickness gradient and distribution of perennial and seasonal ice across the Arctic Basin.

This flight proceeded uneventfully and with fewer clouds than expected. We encountered ground fog halfway through the mission, but ATM T6 was able to mostly penetrate the fog and only a few minutes of data lost.

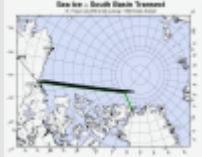
Because it was overcast during the North Pole Transect, we also overflowed a study site on shore-fast ice near Alert in collaboration with Christian Haas. All instruments performed well, save a couple of Applanix error messages on the ATM systems.

Attached images:

1. Map of today's mission (John Sonntag / NASA)
2. Sea ice near Alert (Joe MacGregor / NASA)

Images:

Map of today's mission



[Read more](#)

Sea ice near Alert



[Read more](#)

Submitted by:

Joseph MacGregor on 04/17/18

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