

P-3 Orion 04/04/13

Aircraft:

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

Flight Number:

2013 Operation IceBridge Arctic #1484

Payload Configuration:

2013 Operation IceBridge Arctic

Nav Data Collected:

No

Total Flight Time:

8.1 hours

Submitted by:

Kelly Griffin on 04/01/13

Flight Segments:

From:	BGSF	To:	BGSF
Start:	04/04/13 10:45 Z	Finish:	04/04/13 18:58 Z
Flight Time:	8.1 hours		
Log Number:	13P001	PI:	Michael Studinger
Funding Source:	Bruce Tagg - NASA - SMD - ESD Airborne Science Program		
Purpose of Flight:	Science		
Comments:	2013 Operation IceBridge Arctic Deployment- Science Flight from Kanger		

Flight Hour Summary:

	13P001
Flight Hours Approved in SOFRS	255
Total Used	211.6
Total Remaining	43.4

13P001 Flight Reports

Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining	Miles Flown
03/14/13	2013 Operation IceBridge Arctic #1447	Check	0.8	0.8	254.2	
03/14/13	2013 Operation IceBridge Arctic #1449	Check	2.1	2.9	252.1	
03/15/13	2013 Operation IceBridge Arctic #1448	Check	4	6.9	248.1	
03/18/13	2013 Operation IceBridge Arctic #1450	Transit	7.9	14.8	240.2	
03/20/13	2013 Operation IceBridge Arctic #1468	Science	6.3	21.1	233.9	
03/21/13	2013 Operation IceBridge Arctic #1456	Transit	8.5	29.6	225.4	
03/22/13 - 03/23/13	2013 Operation IceBridge Arctic #1474	Science	8.2	37.8	217.2	
03/23/13	2013 Operation IceBridge Arctic #1470	Science	7.8	45.6	209.4	

03/24/13 - 03/25/13	2013 Operation IceBridge Arctic #1469	Science	8.4	54	201
03/26/13	2013 Operation IceBridge Arctic #1475	Transit	8.6	62.6	192.4
03/27/13	2013 Operation IceBridge Arctic #1476	Science	7.9	70.5	184.5
03/28/13	2013 Operation IceBridge Arctic #1477	Science	3.3	73.8	181.2
04/02/13	2013 Operation IceBridge Arctic #1486	Transit	6.4	80.2	174.8
04/04/13	2013 Operation IceBridge Arctic #1484	Science	8.1	88.3	166.7
04/05/13	2013 Operation IceBridge Arctic #1489	Science	7.8	96.1	158.9
04/06/13	2013 Operation IceBridge Arctic #1487	Science	8	104.1	150.9
04/08/13	2013 Operation IceBridge Arctic #1491	Science	7.5	111.6	143.4
04/09/13	2013 Operation IceBridge Arctic #1493	Science	6.4	118	137
04/10/13	2013 Operation IceBridge Arctic #1493	Science	6.6	124.6	130.4
04/11/13	2013 Operation IceBridge Arctic #1495	Science	7.4	132	123
04/12/13	2013 Operation IceBridge Arctic #1496	Science	6.2	138.2	116.8
04/15/13	2013 Operation IceBridge Arctic #1502	Science	7.9	146.1	108.9
04/18/13	2013 Operation IceBridge Arctic #1504	Transit	5.2	151.3	103.7
04/19/13	2013 Operation IceBridge Arctic #1505	Science	7.4	158.7	96.3
04/20/13	2013 Operation IceBridge Arctic #1508	Science	6.8	165.5	89.5
04/22/13	2013 Operation IceBridge Arctic #1512	Science	7.8	173.3	81.7
04/23/13	2013 Operation IceBridge Arctic #1513	Science	7.7	181	74
04/24/13	2013 Operation IceBridge Arctic #1514	Science	8	189	66
04/25/13	2013 Operation IceBridge Arctic #1515	Science	7.5	196.5	58.5

04/26/13	2013 Operation IceBridge Arctic #1516	Science	7.1	203.6	51.4
05/02/13	2013 Operation IceBridge Arctic	Transit	7.5	211.1	43.9
05/02/13	2013 Operation IceBridge Arctic	Transit	0.5	211.6	43.4

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 04/04/13 Science Report

Mission:

OIB

Mission Summary:

F10 Jakobshavn 01

Accomplishments

- Low-altitude survey (1,500 ft AGL) over Jakobshavn Glacier.
- ATM, snow and Ku-band radars, and DMS were operated on the survey lines.
- Ramp pass at Kangerlussuaq at 2,000 ft AGL for ATM and radar calibration.
- Conducted pitch and roll maneuvers over the fjord for snow and Ku-band radar calibration.
- Satellite Tracks: ICESat: 0323, 0300, 0047, 0285, 0070, 0204.
- Repeat Mission: 2009, 2010, 2011, 2012.

Instrument	Operated	Data Volume	Instrument Issues/Comments
ATM	yes	72 GB	None.
DMS	yes	147 GB	None.
Snow Radar	yes	275 GB	None.
Ku-band Radar	yes	275 GB	None.
Accumulation Radar	yes	202 GB	None.
MCoRDS	yes	GB	Weak noise on data of unknown origin.
KT-19	yes	11 MB	None.

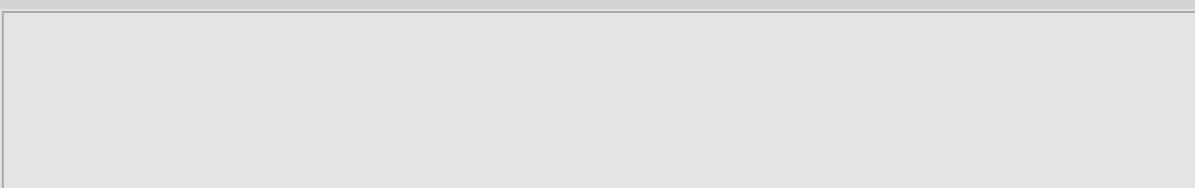
Mission Report (Michael Studinger, Mission Scientist)

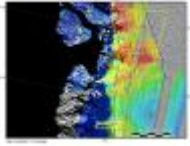
This is a repeat of 2009, 2010, 2011 and 2012 IceBridge missions. Its purpose is to re-survey the highest-priority lines of the historical ATM 10-km Jakobshavn grid, the main flowline of Jakobshavn. It also extends that grid with a broader array of ICESat ground tracks over the larger Jakobshavn basin.

The weather along the entire survey line was good with some strong turbulence over the main channel of Jakobshavn Glacier. Data collection started 11:02 UTC and ended at 18:52 UTC. We collected 7.7 hours of science data.

Images:

Today's flight plan over Jakobshavn Glacier in yellow.





[Read more](#)

DMS image of the calving front of Jakobshavn Isbræ



[Read more](#)

View of the calving front of Jakobshavn Isbræ



[Read more](#)

Submitted by:

Michael Studinger on 04/04/13

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Page Editor: Katja Drdla

NASA Official: Marilyn Vasques

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