

## P-3 Orion 04/07/14

**Aircraft:**

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

**Flight Number:**

Science Flight - Southwest Coastal A

**Payload Configuration:**

Operation IceBridge

**Nav Data Collected:**

Yes

**Total Flight Time:**

7.7 hours

**Submitted by:**

Luci Crittenden on 04/07/14

**Flight Segments:**

<b>From:</b>	BGSF	<b>To:</b>	BGSF
<b>Start:</b>	04/07/14 11:09 Z	<b>Finish:</b>	04/07/14 18:50 Z
<b>Flight Time:</b>	7.7 hours		
<b>Log Number:</b>	<a href="#">14P008</a>	<b>PI:</b>	Michael Studinger
<b>Funding Source:</b>	Bruce Tagg - NASA - SMD - ESD Airborne Science Program		
<b>Purpose of Flight:</b>	Science		
<b>Comments:</b>	Southwest Coastal A Mission successfully completed today		

**Flight Hour Summary:**

	<b>14P008</b>
<b>Flight Hours Approved in SOFRS</b>	369
<b>Total Used</b>	354.1
<b>Total Remaining</b>	14.9

**14P008 Flight Reports**

Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining	Miles Flown
<a href="#">03/06/14</a>	1767	Check	1.3	1.3	367.7	
<a href="#">03/06/14</a>	1768	Check	2.7	4	365	
<a href="#">03/07/14</a>	1769	Check	5.7	9.7	359.3	
<a href="#">03/10/14</a>	WFF to Thule Transit	Transit	8.1	17.8	351.2	
<a href="#">03/12/14</a>	Sea Ice - Nansen Gap	Science	7.6	25.4	343.6	
<a href="#">03/13/14</a>	Sea Ice - Zig Zag East	Science	7.7	33.1	335.9	
<a href="#">03/14/14</a>	Thule - Fairbanks Transit: Sea Ice - Laxon Line	Science	8.8	41.9	327.1	
<a href="#">03/15/14 - 03/16/14</a>	Sea Ice - SIZRS ZigZag	Science	8.1	50	319	
<a href="#">03/17/14 - 03/18/14</a>	Sea Ice - North Beaufort Loop - with Barrow	Science	8.2	58.2	310.8	
<a href="#">03/18/14 - 03/19/14</a>	F06 Sea Ice - East Beaufort - with ONR/MIZ/CryoVEx camp	Science	8.2	66.4	302.6	
<a href="#">03/19/14 - 03/20/14</a>	F07 Sea Ice - Beaufort - Chukchi Diamond	Science	8.3	74.7	294.3	
<a href="#">03/21/14</a>	F08: Sea Ice ? South Basin Transect	Science	8.5	83.2	285.8	
<a href="#">03/24/14</a>	F09: Sea Ice ? Giles Gateway	Science	8	91.2	277.8	
<a href="#">03/25/14</a>	F10 - Axel Heiberg-Eureka	Science	3	94.2	274.8	
<a href="#">03/26/14</a>	F11 - Zigzag West	Science	7.9	102.1	266.9	
<a href="#">03/28/14</a>	Sea Ice ? South Canada Basin	Science	7	109.1	259.9	
<a href="#">03/31/14</a>	F13 Sea Ice ? CryoVEx Nord	Science	7.3	116.4	252.6	

<a href="#">04/03/14</a>	F15 Sea Ice - North Canada Basin	Science	8.2	124.6	244.4
<a href="#">04/04/14</a>	Transit from Thule to Kangerlussuaq	Transit	2.8	127.4	241.6
<a href="#">04/05/14</a>	Science Flight #16 - East Glaciers	Science	7.8	135.2	233.8
<a href="#">04/07/14</a>	Science Flight - Southwest Coastal A	Science	7.7	142.9	226.1
<a href="#">04/08/14</a>	Science Flight - Southeast Glacier 01	Science	7.6	150.5	218.5
<a href="#">04/09/14</a>	Science Flight - Jakobshaven Glacier 01	Science	8	158.5	210.5
<a href="#">04/10/14</a>	Science Flight - K-EGIG Summit Mission	Science	7.9	166.4	202.6
<a href="#">04/12/14</a>	Science Flight - OSU Clusters	Science	6.6	173	196
<a href="#">04/14/14</a>	Science Flight - Jakobshavn-Eqip-Store	Science	7.7	180.7	188.3
<a href="#">04/15/14</a>	Science Flight - Southwest Glacier 01	Science	7.3	188	181
<a href="#">04/16/14</a>	Science Flight - IceSat 2 Central	Science	8.4	196.4	172.6
<a href="#">04/19/14</a>	Science Flight - Jakobshaven 02	Science	6.4	202.8	166.2
<a href="#">04/21/14</a>	Science Flight - Geikie Glacier 01	Science	8.6	211.4	157.6
<a href="#">04/23/14</a>	Science Flight - Baffin 02	Science	6	217.4	151.6
<a href="#">04/24/14</a>	Science Flight - Helheim-Kangerd	Science	8.2	225.6	143.4
<a href="#">04/25/14</a>	Transit Flight - Kangerlussuaq to Thule	Transit	2.6	228.2	140.8
<a href="#">04/26/14</a>	Science Flight - NW Glacier 02 Mop-Up	Science	5.6	233.8	135.2
<a href="#">04/28/14</a>	Science Flight - North Pole Transect	Science	7.3	241.1	127.9
<a href="#">04/29/14</a>	Science Flight - Northeast Glaciers 01	Science	7.8	248.9	120.1
<a href="#">04/30/14</a>	Science Flight - Northeast Grid 01	Science	2.6	251.5	117.5
<a href="#">05/01/14</a>	Science Flight - Humboldt 01	Science	5.5	257	112
<a href="#">05/02/14</a>	Science Flight - Cryosat Land	Science	7	264	105
<a href="#">05/05/14</a>	Science Flight - IceSat 2 - North	Science	8	272	97
<a href="#">05/07/14</a>	Science Flight - NW Glaciers 01	Science	8	280	89
<a href="#">05/08/14</a>	Science Flight - North Central Gap 01	Science	8	288	81
<a href="#">05/09/14</a>	Science Flight - NW Coastal B	Science	6.9	294.9	74.1
<a href="#">05/12/14</a>	Science Flight - Alexander-Petermann 01	Science	7	301.9	67.1
<a href="#">05/14/14</a>	Science Flight - Northeast Grid 01	Science	7.7	309.6	59.4
<a href="#">05/15/14</a>	Science Flight - Northeast Grid 06	Science	8	317.6	51.4
<a href="#">05/16/14</a>	Science Flight - NW Coastal C	Science	6.1	323.7	45.3
<a href="#">05/19/14</a>	Science Flight - North Glaciers 02 Prime	Science	8	331.7	37.3
<a href="#">05/20/14</a>	Science Flight - Northwest Mopup	Science	6.5	338.2	30.8

<a href="#">05/21/14</a>	Science Flight - Northeast Grid 04	Science	7.9	346.1	22.9
<a href="#">05/23/14</a>	Transit Flight - Thule to Wallops	Transit	7.5	353.6	15.4
<a href="#">05/23/14</a>	Transit Flight - Thule to Wallops	Transit	0.5	354.1	14.9

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 04/07/14 Science Report

**Mission:**

OIB

**Mission Summary:**

### F17 Southwest Coastal A

**Accomplishments**

- Low-altitude survey (1,500 ft AGL) over the southwest flank of the Greenland Ice Sheet.
- ATM, albedo, KT-19, snow, Ku-band, accumulation, MCoRDS and DMS were operated on the survey lines.
- Ramp pass at Kangerlussuaq at 1,000 ft AGL.
- Repeat Mission: parts of 2011.

Instrument	Operated	Data Volume	Instrument Issues/Comments
ATM	yes	118 GB	None.
DMS	yes	136 GB	None.
Snow Radar	yes	423 GB	None.
Ku-band Radar	yes	423 GB	None.
Accumulation Radar	yes	154 GB	None.
MCoRDS	yes	1.9 TB	None.
KT-19	yes	10 MB	None.
Albedo	yes	7 GB	None.

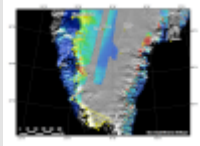
**Mission Report (Michael Studinger, Mission Scientist)**

Today's mission is a new mission, 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 overflew a total of six PROMICE sites.

The extreme cold temperatures over night posed significant challenges for preparing the aircraft and science instruments this morning. Two of the four heaters could not be started because of the cold temperatures, which impacted APU start, fueling, heating engines and aircraft and providing power and heat to the science instruments. Thanks to tremendous efforts of the crew we were able to takeoff at 11:13 Z and complete the entire mission as planned before the airfield closed at 17:00 local time. The weather in the survey area was perfect as expected with no clouds. All southeastern, eastern and Disko Bay area targets were clouded in today.

**Images:**

## Figure 1: Mission plan of today's flight in yellow.



[Read more](#)

**Submitted by:**

Michael Studinger on 04/07/14

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