

Gulfstream V - JSC 11/17/19 - 11/18/19

Aircraft:

[Gulfstream V - JSC](#) ([See full schedule](#))

Flight Number:

GV-70

Payload Configuration:

OIB

Nav Data Collected:

No

Total Flight Time:

9.9 hours

Submitted by:

Derek Rutovic on 11/18/19

Flight Segments:

From:	YMHB	To:	YMHB
Start:	11/17/19 21:43 Z	Finish:	11/18/19 07:35 Z
Flight Time:	9.9 hours		
Log Number:	205003	PI:	Joseph MacGregor
Funding Source:	Bruce Tagg - NASA - SMD - ESD Airborne Science Program		
Purpose of Flight:	Science		
Miles Flown:	4300 miles		

Flight Hour Summary:

	205003
Flight Hours Approved in SOFRS	350
Total Used	248.4
Total Remaining	101.6

205003 Flight Reports

Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining	Miles Flown
10/17/19	GV-48	Science	1.9	1.9	348.1	800
10/17/19	GV-49	Science	3.2	5.1	344.9	1400
10/19/19	GV-50	Transit	8.2	13.3	336.7	3600
10/21/19 - 10/22/19	GV-51	Transit	5.3	18.6	331.4	2300
10/22/19	GV-52	Transit	7	25.6	324.4	3100
10/23/19 - 10/24/19	GV-53	Science	10.2	35.8	314.2	4400
10/24/19 - 10/25/19	GV-54	Science	10.1	45.9	304.1	4400
10/26/19 - 10/27/19	GV-55	Science	10.4	56.3	293.7	4500
10/27/19 - 10/28/19	GV-56	Science	10.2	66.5	283.5	4400
10/28/19 - 10/29/19	GV-57	Science	10.1	76.6	273.4	4400
10/29/19 - 10/30/19	GV-58	Science	10	86.6	263.4	4400
10/31/19 - 11/01/19	GV-59	Science	10.2	96.8	253.2	4400
11/02/19 - 11/03/19	GV-60	Science	10.6	107.4	242.6	4600
11/03/19 - 11/04/19	GV-61	Science	9.6	117	233	4200

11/04/19 - 11/05/19	GV-62	Science	10.3	127.3	222.7	4500
11/05/19 - 11/06/19	GV-63	Science	10.2	137.5	212.5	4400
11/07/19 - 11/08/19	GV-64	Science	10	147.5	202.5	4400
11/08/19 - 11/09/19	GV-65	Science	9.5	157	193	4100
11/09/19 - 11/10/19	GV-66	Science	10.2	167.2	182.8	4400
11/13/19 - 11/14/19	GV-67	Science	10.2	177.4	172.6	4400
11/14/19 - 11/15/19	GV-68	Science	10.4	187.8	162.2	4500
11/16/19 - 11/17/19	GV-69	Science	9.9	197.7	152.3	4300
11/17/19 - 11/18/19	GV-70	Science	9.9	207.6	142.4	4300
11/18/19 - 11/19/19	GV-71	Science	10.3	217.9	132.1	4500
11/19/19 - 11/20/19	GV-72	Science	10.4	228.3	121.7	4500
11/20/19 - 11/21/19	GV-73	Science	3.5	231.8	118.2	1500
11/25/19	GV-74	Ferry	5.7	237.5	112.5	2500
11/26/19	GV-75	Ferry	10.9	248.4	101.6	4700

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 - Gulfstream V - JSC 11/18/19 Science Report

Mission:

OIB

Mission Summary:

Mission: Moscow-Holmes Mopup
Priority: High

This mission consists of the leftovers from the high-priority Moscow 02 and Holmes-Frost 01/02 missions that could not be surveyed when those missions. Specifically, it includes the outboard bathymetry grid line of Holmes-Frost 02, the western bathymetry tie line of Holmes Frost 01, part of the inland fluxgate and a bathymetry tie line from Moscow 02.

Today's forecast and imagery strongly favored this high-priority mission, as it was clear across almost exclusively the large portion of coastline that this mission covered due to moderately-strong katabatic flow over this portion of the central Wilkes Land coast today. We descended through a thin altostratus layer prior to the survey line, and we flew just beneath a scattered to broken layer on the eastern side of Porpoise Bay, but otherwise observed clear skies throughout the science lines. All instruments performed well, 100% successful data collection minus bad

MCoRDS channel. We performed a deconvolution procedure for MCoRDS at 13,000 ft AGL over a polynya during climb-out, after we completed the survey. We performed a ramp pass at 2000 ft AGL on arrival at Hobart.

ICESat-2 RGT / latency (\pm indicates OIB surveyed after/before ICESat-2)

0841 / \pm 3 days

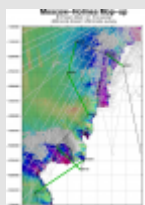
0673 / +8 days

Attached images:

1. Map of today's mission (John Sonntag / NASA)
2. The western end of Moscow University Ice Shelf (John Sonntag / NASA)
3. A small iceberg in Porpoise Bay. The iceberg was locked in sea ice with a great deal of snow cover, and dramatically illuminated through a broken cloud layer (John Sonntag / NASA)
4. Icebergs in Porpoise Bay #1 (Renata Constantino / LDEO)
5. Icebergs in Porpoise Bay #2 (Renata Constantino / LDEO)

Images:

Map of today's mission



[Read more](#)

The western end of Moscow University Ice Shelf



[Read more](#)

A small iceberg in Porpoise Bay. The iceberg was locked in sea ice



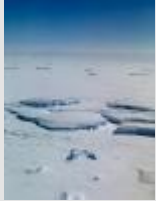
[Read more](#)

Icebergs in Porpoise Bay #1



[Read more](#)

Icebergs in Porpoise Bay #2



[Read more](#)

Submitted by:

Joseph MacGregor on 11/19/19

Page Last Updated: April 22, 2017

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Source URL: https://espo.nasa.gov/oracles/flight_reports/Gulfstream_V_-_JSC_11_17_19_-_11_18_19