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

Aircraft: Gulfstream V - JSC (See full schedule)
Flight Number: GV-71
Payload Configuration: OIB
Nav Data Collected: No
Total Flight Time: 10.3 hours
Submitted by: Debra Willett on 11/19/19
Flight Segments:

From:	YMHB	**To:**	YMHB
Start:	11/18/19 21:47 Z	**Finish:**	11/19/19 08:04 Z
Flight Time:	10.3 hours		
Log Number:	205003	**PI:**	Joseph MacGregor
Funding Source:	Bruce Tagg - NASA - SMD - ESD Airborne Science Program		
Purpose of Flight:	Science		
Miles Flown:	4500 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 11/19/19 Science Report

Mission: OIB
Mission Summary:

Mission: Victoria Flowlines
Priority: High

This mission is designed to survey a series of glacier flowlines in Victoria Land. The glaciers include Lilie, Black, Canham, Rennick, and additional flowlines draining Evans Neve. Most of these areas are unmapped in terms of bedrock geometry, although we do repeat small sections of 2013 and 2017 OIB flights in the area. We also extend the Rennick 01/02 grid on the exit leg of this mission, in order to help fill a gap in bedrock measurements, which corresponds to an area of thinning identified by ICESat.

Weather models and morning satellite imagery showed northern Victoria Land free of clouds, but with low clouds offshore and a little fog in some of the valleys. Models indicated clearing conditions through the day. On arrival, we observed a very thin stratus deck near the coast at about 10,000 ft AGL, but were able to descend through it with adequate visibility to the terrain beneath. All instruments performed well, 100% successful data collection minus bad MCoRDS channel. We performed a ramp pass at 1200 ft AGL on arrival at Hobart.

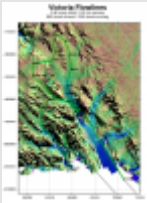
Excepting OIB Alaska, today's flight represents OIB's 900th polar science mission.

Attached images:

1. Map of today's mission (John Sonntag / NASA)
2. A small mountain on the south side of Canham Glacier, with our left wing in the foreground (John Sonntag / NASA)
3. An icefall in the Lanterman Mountains (John Sonntag / NASA)
4. The Bowers Mountains, with lower Rennick Glacier at foreground (John Sonntag / NASA)
5. Exposed layers along a cliff face along lower Rennick Glacier (Renata Constantino / LDEO)

Images:

Map of today's mission



Read more

A small mountain on the south side of Canham Glacier, with our left

Read more

An icefall in the Lanterman Mountains

Read more

The Bowers Mountains, with lower Rennick Glacier at foreground

Read more

Exposed layers along a cliff face along lower Rennick Glacier

Read more

Submitted by: Joseph MacGregor on 11/19/19

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