

## SnowEx Winter 1 - Other: NRL P-3 02/20/17 Science Report

**Aircraft:** Other: NRL P-3 - 17M034

**Date:** Monday, February 20, 2017

**Mission:** SnowEx Winter 1

**Mission Location:** Petersen AFB, Colorado Springs, CO

**Mission Summary:**

The original plan was to fly over Grand Mesa and Senator Beck and do all the SnowSAR lines as well as a minimum of two CAR circles. Flew over Fraser on the way there and started with the SnowSAR calibration line, at which point issues with the instrument cropped up. The data collected did not seem to be viable. Aborted the flight lines in lieu of troubleshooting SnowSAR while hunting for decent locations for CAR circles. Tried several things in flight, but nothing seemed to fix the issue. Due to duty day restrictions and limited flight opportunities, the decision to RTB was made in order to continue troubleshooting on the ground in hopes to fix it in time for flying the next day. Managed to get two CAR circles before landing. IR Suite also collected data, although there were some clouds. Altitudes flown were between 2500 ft AGL and 6500 ft AGL. Pilots were Cmdr Neall, Lt Cmdr Rossi, and Lt Miller. Duration: 3 hrs.

**Submitted by:** Eugenia De Marco on 02/24/17

**Related Flight Report:**

### Other: NRL P-3 02/20/17

**Payload Configuration:** SnowEx - Winter 1 (2018)

**Nav Data Collected:** No

**Total Flight Time:** 4 hours

**Submitted by:** Eugenia De Marco on 04/13/17

**Flight Segments:**

<b>From:</b>	Petersen AFB, CO	<b>To:</b>	Petersen AFB, CO
<b>Start:</b>	02/20/17 16:50 Z	<b>Finish:</b>	02/20/17 20:50 Z
<b>Flight Time:</b>	4 hours		
<b>Log Number:</b>	<a href="#">17M034</a>	<b>PI:</b>	Edward Kim
<b>Funding Source:</b>	Jared Entin - NASA - SMD - ESD Hydrology Program		
<b>Purpose of Flight:</b>	Science		

**Flight Hour Summary:**

	<b>17M034</b>
<b>Flight Hours Approved in SOFRS</b>	48
<b>Total Used</b>	32.5
<b>Total Remaining</b>	15.5

**17M034 Flight Reports**

<b>Date</b>	<b>Flt #</b>	<b>Purpose ofFlight</b>	<b>Duration</b>	<b>Running Total</b>	<b>Hours Remaining</b>	<b>MilesFlown</b>
<a href="#">02/16/17</a>		Transit	5.7	5.7	42.3	
<a href="#">02/16/17 - 02/17/17</a>		Science	4.4	10.1	37.9	
<a href="#">02/18/17</a>		Science	3.7	13.8	34.2	
<a href="#">02/20/17</a>		Science	4	17.8	30.2	
<a href="#">02/21/17</a>		Science	5.8	23.6	24.4	
<a href="#">02/22/17</a>		Science	5	28.6	19.4	
<a href="#">03/04/17 - 03/05/17</a>		Ferry	3.9	32.5	15.5	

*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.*

Page Last Updated: April 22, 2017

Page Editor: Brad Bulger

NASA Official: Bruce A. Tagg

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