

## WISM - Other: Twin Otter International 02/06/17 Science Report

**Aircraft:** Other: Twin Otter International - 17M014

**Date:** Monday, February 6, 2017

**Mission:** WISM

**Mission Location:** Grand Junction, CO

**Mission Summary:**

Fourth flight for the WISM instrument of this campaign. Flight was conducted around the Grand Junction airport. Kerry Speed and Quenton Bonds flew. Pilots were Thomas Sommerville and Ross Rice. Sky was partly cloudy with scattered clouds. The aircraft flew multiple loops around the airport at an altitude of 5000 ft on a track that placed the projected antenna pattern directly over four, in-line calibration targets located in a field adjacent to the aircraft hanger.

WISM test flight around the airport. This time the radiometer was connected to the antenna and the WISM instrument suite flew in its full-flight configuration. At the conclusion of this test flight, the WISM instrument is ready to fly science flights over the Grand Mesa.

**Submitted by:** Paul Racette on 02/07/17

**File:**

 [WISM\\_flight\\_report\\_02\\_05\\_2017\\_flight4.pdf](#)

**Related Flight Report:**

## Other: Twin Otter International 02/05/17

**Flight Number:** 2

**Payload Configuration:** WISM

**Nav Data Collected:** Yes

**Total Flight Time:** 0.8 hours

**Submitted by:** Sommer tBeddingfield on 02/22/17

**Flight Segments:**

<b>From:</b>	GJT	<b>To:</b>	GJT
<b>Start:</b>	02/05/17 15:25 Z	<b>Finish:</b>	02/05/17 16:15 Z
<b>Flight Time:</b>	0.8 hours		
<b>Log Number:</b>	<a href="#">17M014</a>	<b>PI:</b>	Lora Koenig
<b>Funding Source:</b>	Parminder Ghuman - NASA - SMD - ESD ESTO - IIP Program Manager		
<b>Purpose of Flight:</b>	Science		
<b>Comments:</b>	Tri-band radar test flight around the airport. Two radar channels didn't work during the first flight. Repairs were made to the radar and this flight aimed to verify all six radar channels work. Problem with the radar computer prevented data from being collected. Radiometer collected data but was not connected to the antenna to minimize potential impact on radar data collects.		

**Flight Hour Summary:**

	16M038	17M014
<b>Flight Hours Approved in SOFRS</b>		12
<b>Total Used</b>	0	7.3
<b>Total Remaining</b>		4.7

### 17M014 Flight Reports

Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining	Miles Flown
<a href="#">02/03/17</a>	1	Science	0.8	0.8	11.2	
<a href="#">02/05/17</a>	2	Science	0.8	1.6	10.4	
<a href="#">02/05/17</a>	3	Science	0.7	2.3	9.7	
<a href="#">02/06/17</a>	4	Science	0.8	3.1	8.9	
<a href="#">02/08/17</a>	5	Science	0.5	3.6	8.4	
<a href="#">02/09/17</a>	6	Science	1.9	5.5	6.5	

[02/10/17](#)

7

Science

1.8

7.3

4.7

**Source URL:** [https://airbornescience.nasa.gov/science\\_reports/WISM\\_-\\_Other\\_Twin\\_Otter\\_International\\_02\\_06\\_17\\_Science\\_Report#comment-0](https://airbornescience.nasa.gov/science_reports/WISM_-_Other_Twin_Otter_International_02_06_17_Science_Report#comment-0)

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Page Editor: Brad Bulger

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*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.*

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