

Aircraft: TOI DHC-6 N821AR

Flight number: 6

Payload Configuration: WISM

New Data Collected: yes

Total Flight Time: 1.9 hours

Submitted By: Paul Racette

From: GJT **To:** GJT

Start: 2/09/17 10:10 MST **Finish:** 2/09/17 12:05 MST

Flight Time: 1.9 hours

Log Number:

PI: Tim Durham

Funding Source: Parminder Ghuman - NASA - SMD - ESD ESTO - IIP Program Manager

Purpose of Flight: Science

Comments: Flight plan was for science flights over the Grand Mesa and included flight tracks over the airport to pass over the corner reflectors going to and returning from the Grand Mesa. The flight plan was completed except the final overpass of the corner reflectors at the airport.

Accomplishments

- Passover of the corner reflectors deployed at the airport
- Science flight over the Grand Mesa including three staggered loops over the Mesa and pass over as Snowtel experiment site.

Instrument	Operated	Data Volume	Instrument Issues/Comments
WISM-Radar	yes	800 GByte	Problem with 1 channel of the radar
WISM-Radiometer	yes	8 GB	No issues to report.

Flight Report: Sixth flight for the WISM instrument of this campaign. Flight was conducted around the Grand Junction airport and over the Grand Mesa. Kerry Speed, Tim Durham and Quenton Bonds flew. Pilots were Thomas Sommerville and Ross Rice. Sky was mostly clear with a few scattered clouds. The aircraft flew at 5000 ft above ground level. The radiometer worked well. The radar worked well except a computer hang partway through the flight caused the loss of one channel.