

# AVE\_June2005 Flight Summary

## 19 June 2005

### General Information

**Flight date** – 19 June 2005

**Flight description** – Flight 6 AVE mission

**Flight duration** – 4.8 hours

**Crew** – Bill Ehrenstrom, Dom Del Rosso (x49113)

**Instruments flown (17):** ACAM, Argus, CAFS, CPL, CIMS, FCAS, Harvard Water Vapor, JLH, MACS, MMS, MTP, NMASS, NOAA Ozone, PANTHER, PT, S-HIS, WAS

**Instruments not flown:** IRIS

### Flight Log

<b>MMS ON</b>	13:26	<b>Takeoff</b>	13:47	<b>Begin Descent</b>	17:34
<b>Before Taxi</b>	13:35	<b>Climb/5000</b>	13:49	<b>Landing</b>	18:30

### Gear extension/retractions

<b>Gear Up</b>	13:48					
<b>Gear Down</b>	18:22					

### Weather Observations

Climb:

- Broken cumulus layer from approximately 3,000 to 5,000 ft. Unavoidably penetrated one cloud at about 3,000 ft for 500 ft.
- Climb was significantly delayed by air traffic control (ATC). Stepped up to desired altitude (over FL500) after 14:20. Flew under solid cloud layer at FL230 briefly.
- No other significant weather on climb

Cruise:

- Approached FL570 approximately 88 nm from waypoint 6.
- Completed first descent to FL410, leveling off just over the tops of a small could layer (difficult to distinguish type).
- Encountered significant storm front 60 nm from waypoint 9, estimated solid layer at FL450-500 with thunderstorm clouds topping FL600
- Delayed second descent to clear storm front (approximately 40 nm from waypoint 9).
- Second descent was only to FL430 due to cloud layer.

Descent:

- On descent, a haze layer was noted at 6,500 ft

### Flight Profile

We flew the prescribed profile with two notable exceptions:

- We were unable to attain desired climb or altitude by waypoint 3 initially due to ATC.
- We were unable to attain the desired altitude of FL410 at waypoint 10 due to cloud layer on the descent from waypoint 9.

We performed the MMS maneuvers at 17:34 (FL450), interrupting the final descent to execute.

### Instrument Notes

- MTP display screen experienced multiple failures, multiple signatures, at various altitudes and conditions.
- Expected fail indications:
  - S-HIS in spoiler only during the first and final (not second) descents (FL440 and FL 470, respectively)
  - CIMS at 3,000 ft in final descent
  - Harvard water vapor at 6,000 ft in final descent

### To ftp for the nav data:

IP address 128.157.138.64

Username: [anonymous@wb57f.asds.net](mailto:anonymous@wb57f.asds.net)

Password: <any email address>

The directory is: WB57F\_Processed/AVEJUN05