

# Flight Summary MACPEX 7 Apr 2011

## General Information

**Flight date-** 7 Apr 2011

**Flight duration -** 5.1 hours

**Crew –** Bill Rieke, John Bain

**Instruments flown:** 2DS,ALIAS,CIMS,CLH,CPI,DLH,FCAS, FCDP, FISH,HARHAL,HARWV, HVPS, JLH, MMS, O3, O3LITE, PALMS, SID3, SP2,ULH,VIPS

## Flight Log

<b>Engine Start</b>	9:41 am	<b>Takeoff</b>	9:58 am	<b>Approach</b>	14:47 pm
<b>Data Rec On</b>	NA	<b>Begin Descent</b>	13:40 pm	<b>Landing</b>	14:58 pm

## Gear extension/retractions

<b>Gear Up</b>	9:55 am						
<b>Gear Down</b>	14:49 pm						

## Weather Observations

Weather at take off was broken clouds at 2800ft. On climb out penetrated the cumulus layer at 10:06am, 2100 to 3300ft.

## Flight Profile

We climbed to 49Kft enroute to point 2.

Began the slow descent at 10:34am. ATC directed FL330 at 10:43am. Noted in the descent that cloud tops were at 35-36K.

Level at FL330 at 10:51am. We were just in or below the cloud tops at this altitude.

Started slow descent for FL280 enroute to point 5. In the cloud.

Reached FL280 at 11:02am 230nmi from point 5 in cloud at or near the cloud bottom.

In-route to point 5 we exited and entered the cloud bottom several times.

Crossed stationary front on GPS display at 11:38am.

Reached point 5 at 11:55am and spiraled up to FL350. Top of the cloud was FL335.

After the spiral climb to FL350 turned toward the amended point 8 and began slow descent to FL260.

Reached FL260 at 12:15pm. Turned toward point 9 at 12:16pm and started climb to FL350.

The top of the cloud was at 34.5Kft then crossed through a cirrus layer above at FL349 at 12:24pm.

Directed by ATC to descend to FL270 at 12:31pm began descent.

Crossed stationary front on GPS display at 12:38pm. Noted forest fires below at 12:49pm.

Reached near point 9 at 12:55pm. Started a climb to FL360 toward point 12.

Started Climb to maximum altitude at 13:13pm. (Above clouds since 13:01)

Reached FL550 at 13:40. Began final descent and RTB.

Penetrated a thin cloud top at FL300 in the descent at 14:04pm.

Penetrated the cumulus layer on approach at 14:47pm from 4500 – 2400ft.

## Instrument Notes

- **No unexpected fail lights for the entire flight.**
- Palms cloud switch:
  - 10:48am (37Kft) – On, 11:07am – OFF
  - 11:19 (28Kft) – ON, 11:59am (33.5Kft) – OFF
  - 12:10pm (28Kft) – ON, 12:26pm (35Kft) –OFF
  - 12:31pm – ON, 12:39pm – OFF
  - 12:50pm –ON, 13:01pm - OFF
- PALMS priority sw was turned on at 55Kft at 13:41pm when the descent to RTB was begun.
- HARHAL fail light on at 10Kft in descent 14:31pm. No action taken.
- HARWV fail light in descent at 7Kft at 14:41pm no action taken.