

Flight Summary MACPEX 27 Mar 2011

General Information

Flight date- 27 Mar 2011

Flight duration - 2.2 hours

Crew – Ray Heineman, John Bain

Instruments flown: ALIAS, CIMS, CLH, DLH, FCAS, FCDP, FISH, HARWV, HVPS, JLH, MMS, NMSS, O3, O3LITE, PALMS, SID3, SP2, ULH, VIPS

Flight Log

Engine Start	15:50 pm	Takeoff	16:02 pm	Approach	17:56 pm
Data Rec On	15:54 pm	Begin Descent	17:23 pm	Landing	18:02 pm

Gear extension/retractions

Gear Up	16:02 pm						
Gear Down	17:58 pm						

Weather Observations

Weather at take off was broken Cumulus, 28 deg C. We climbed through the cumulus layer at 2200 – 3100 ft without penetrating a cloud. At 17:12 pm we attempted to penetrate a cirrus layer over the Gulf at 46K ft. On the descent we penetrated an alto cumulus layer at 22Kft. In the approach we penetrated a cumulus layer 5000 – 3600 ft at 17:49.

Flight Profile

We flew southwest over the Gulf on the 206 deg radial of the EFD VOR for 200 nm. At 16:48 we turned around at an altitude of 56.6K and continued to climb north east until we reached an altitude of 59K ft at 17:04. We then turned to a heading of 65 deg to intercept a cirrus cloud in that direction and began a cruise descent to the cloud altitude of 46K ft. The MMS maneuvers were done over the Gulf at 46K ft. We then RTB to EFD.

Instrument Notes

- **All instruments worked with no fail lights the entire flight.**
- The SID3 remote desktop procedures could not be accomplished due to a probable KVM system failure.
- PALMS priority sw was turned on at 45K at 17:23 when the descent to RTB was begun.
- The PALMS cloud sw was on 17:34 – 17:35 pm 22K ft.