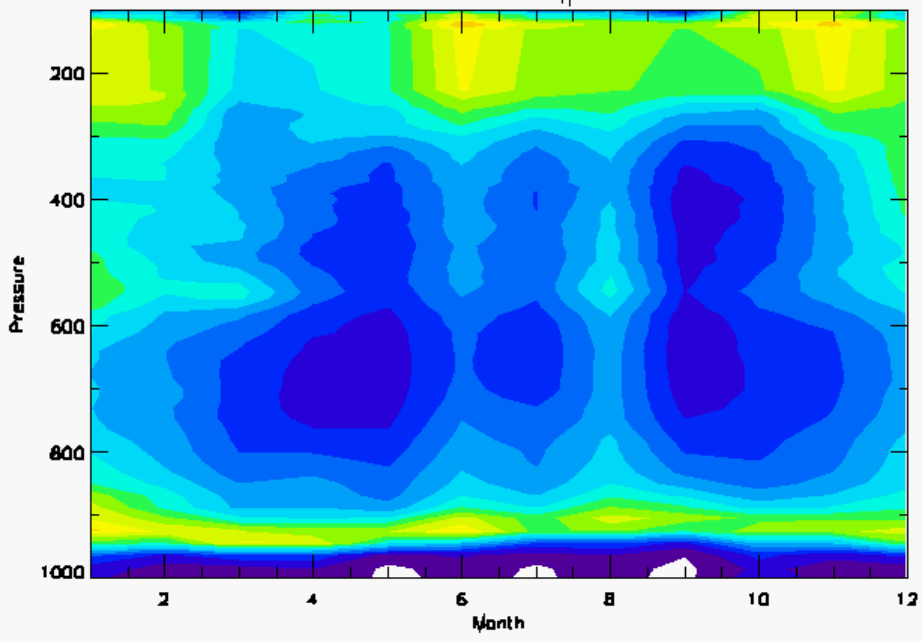


# Middle-level clouds and convection in the CAM and in ARM measurements

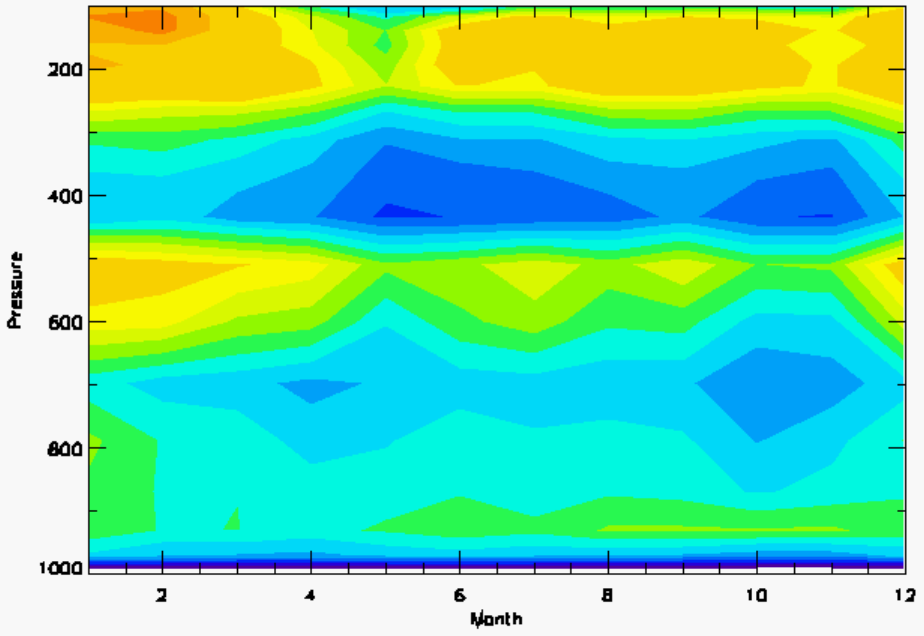
**Minghua Zhang**  
**(Stony Brook University)**

## **Middle clouds in the tropics in CAM**

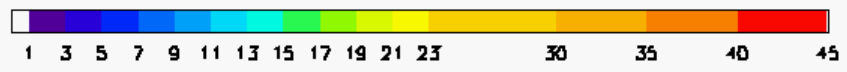
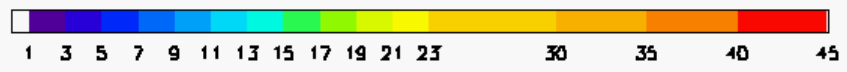
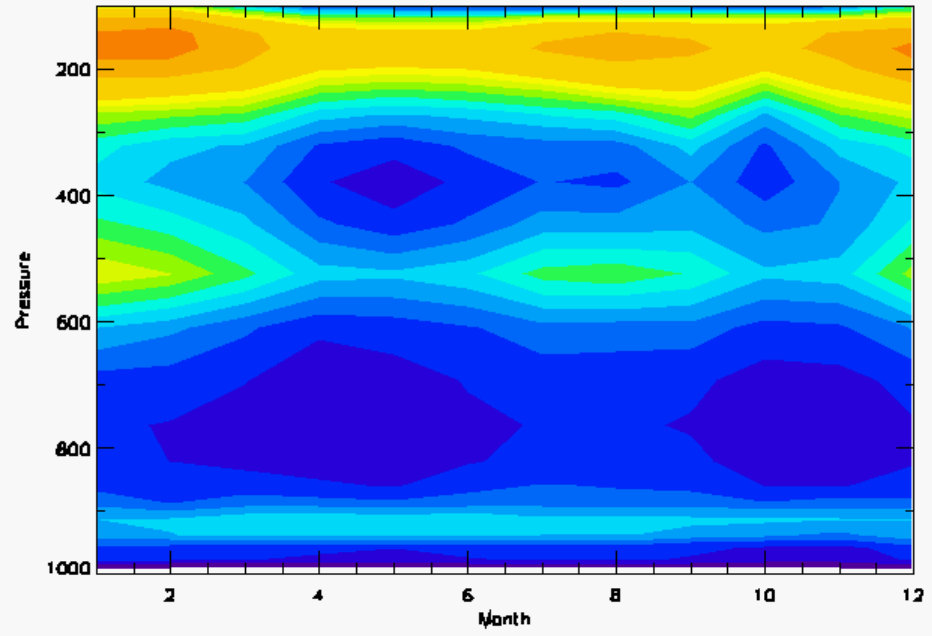
ARSL Cloud at TWP-C2



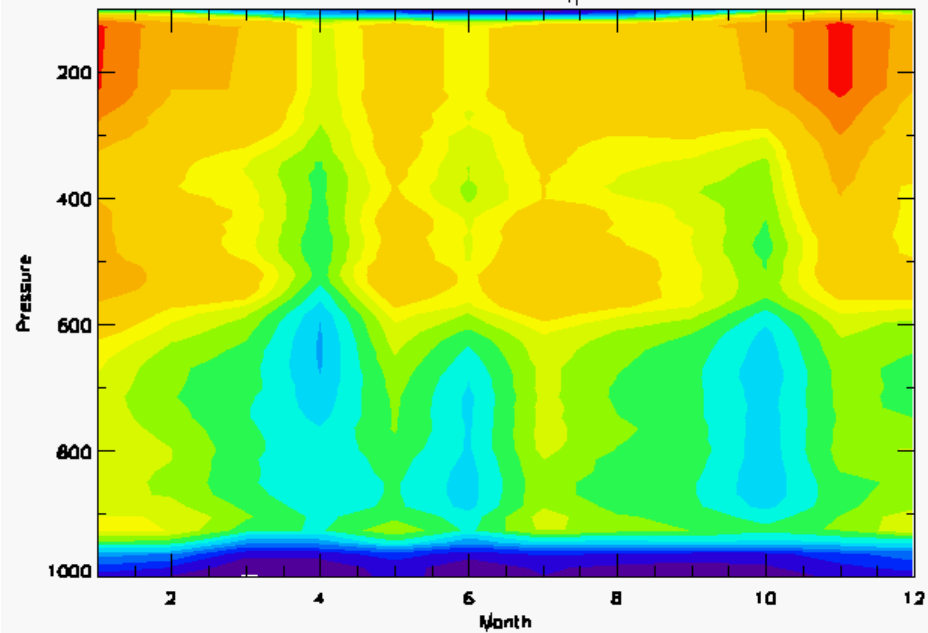
CAN4 Cloud at TWP-C2



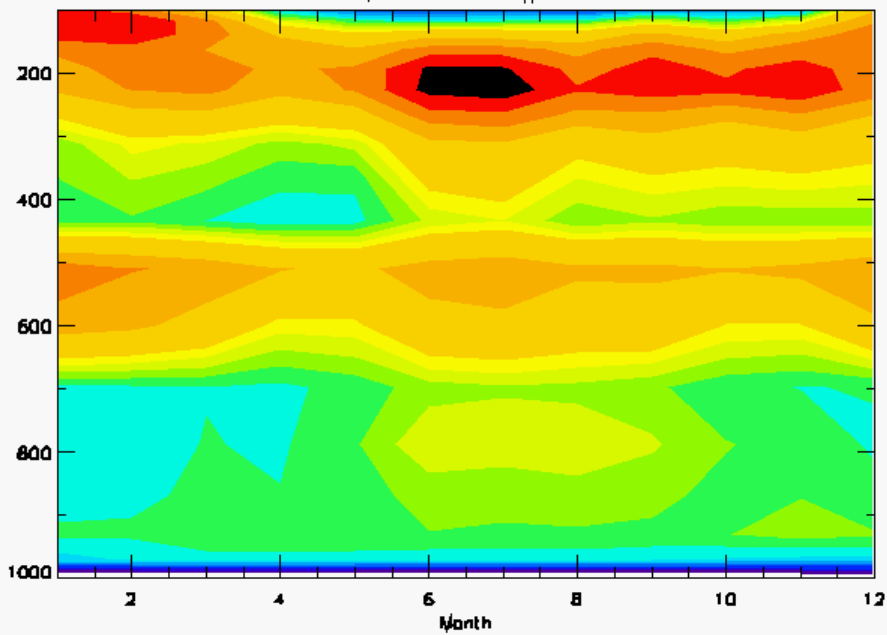
CAN5 Cloud at TWP-C2



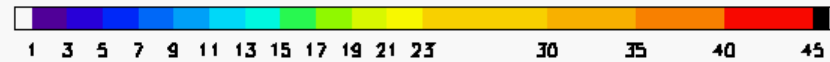
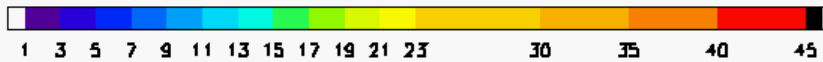
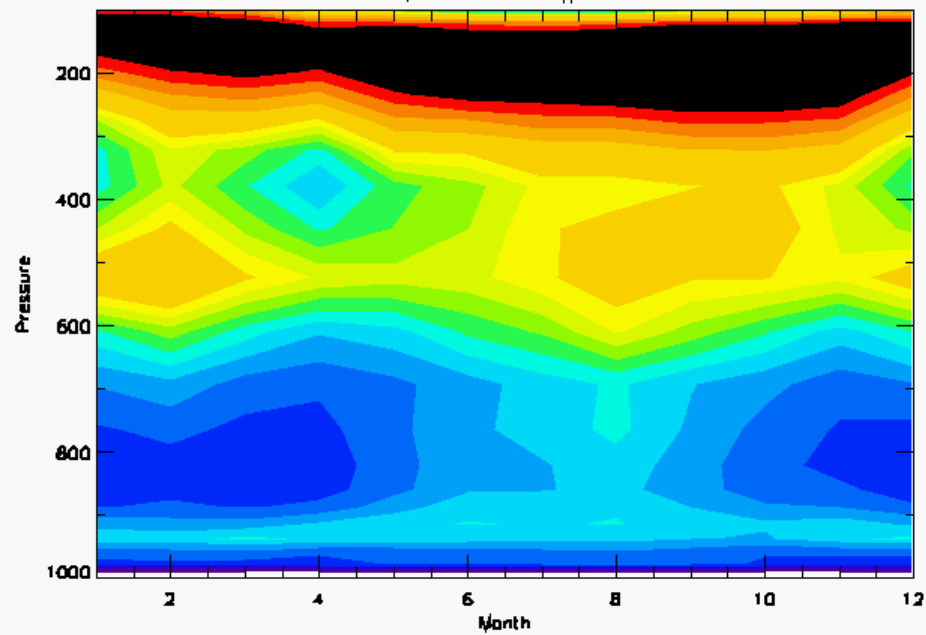
ARSL Cloud at TWP-C1



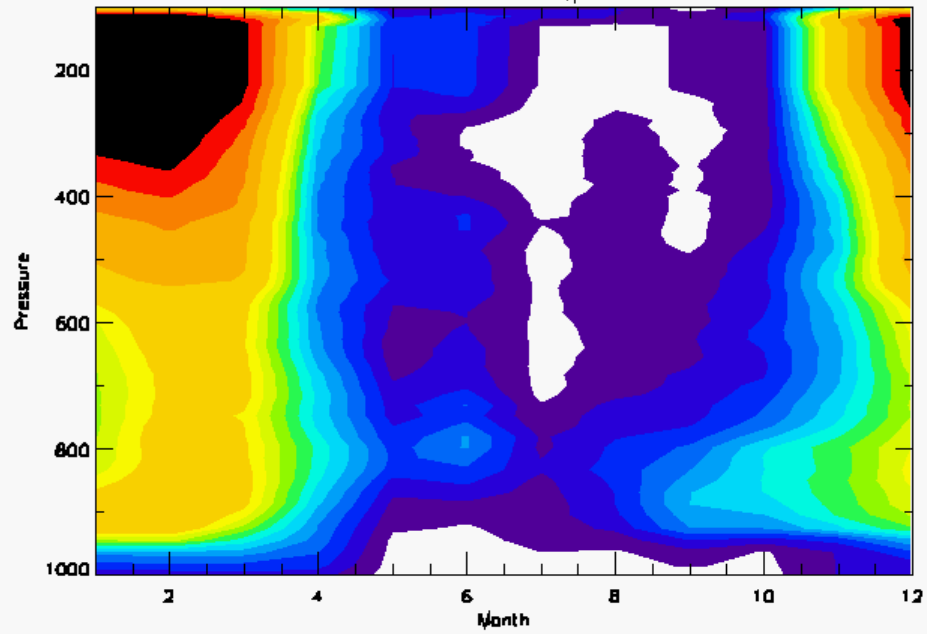
CAN4 Cloud at TWP-C1



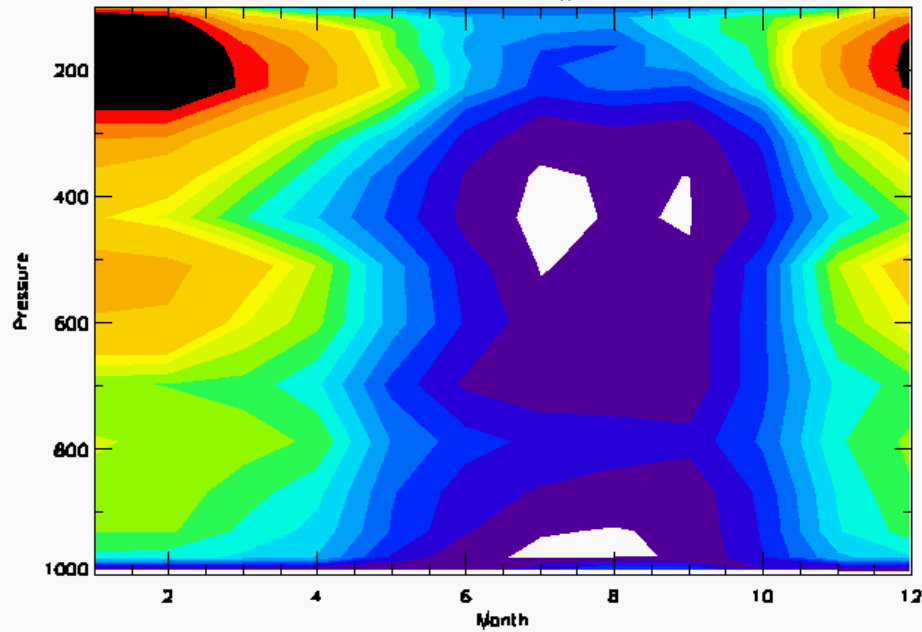
CAN5 Cloud at TWP-C1



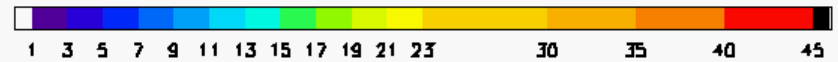
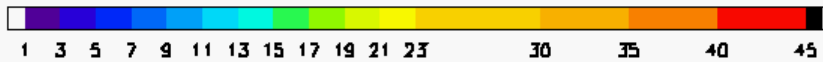
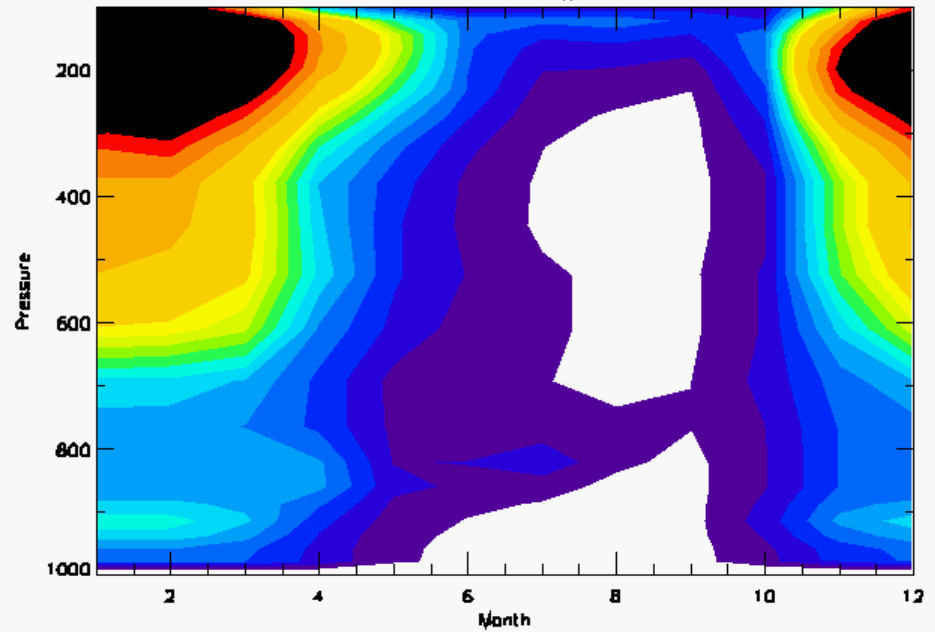
ARSL Cloud at TWP-C3



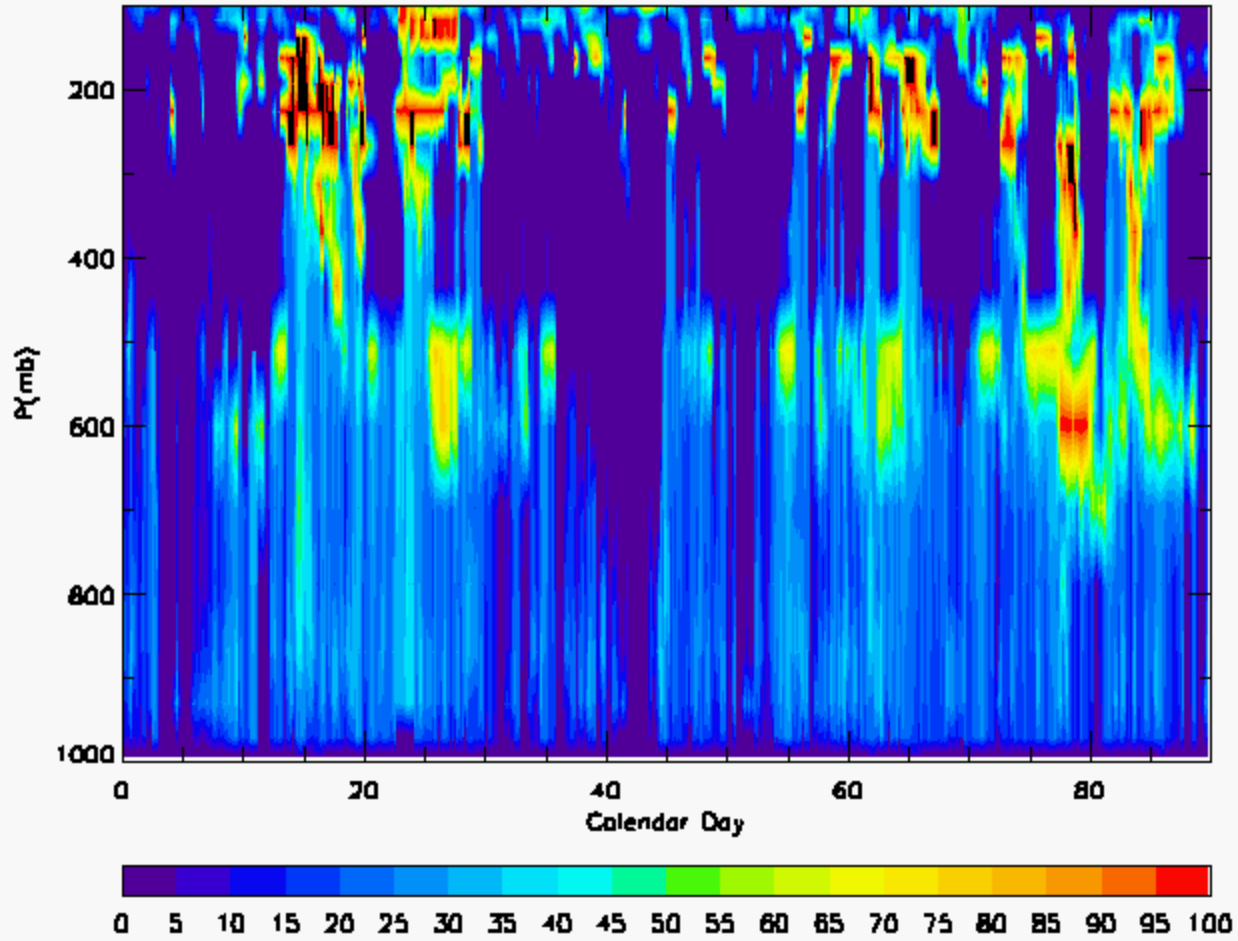
CAN4 Cloud at TWP-C3



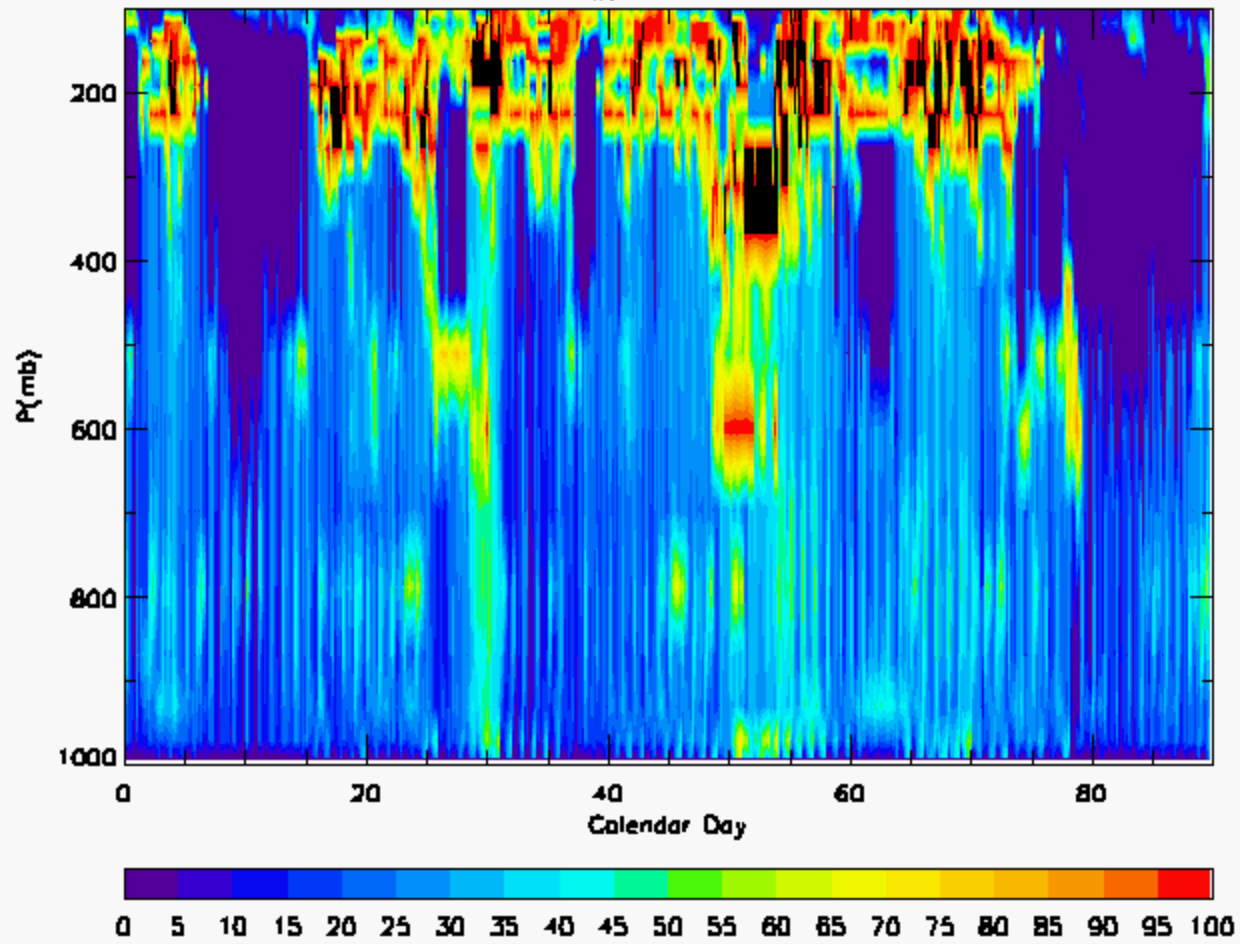
CAN5 Cloud at TWP-C3



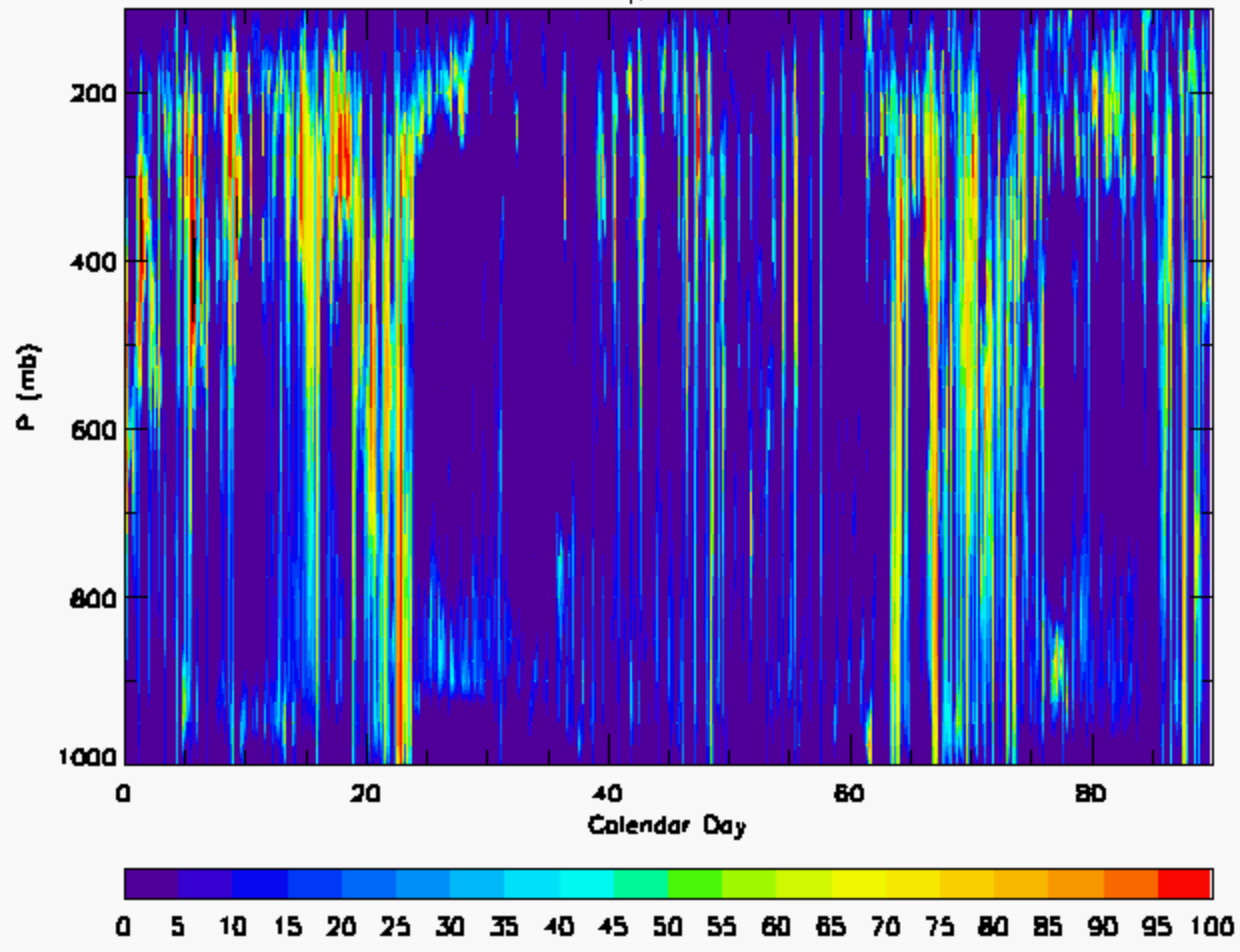
top1\_CLOUD



top3\_CLOUD

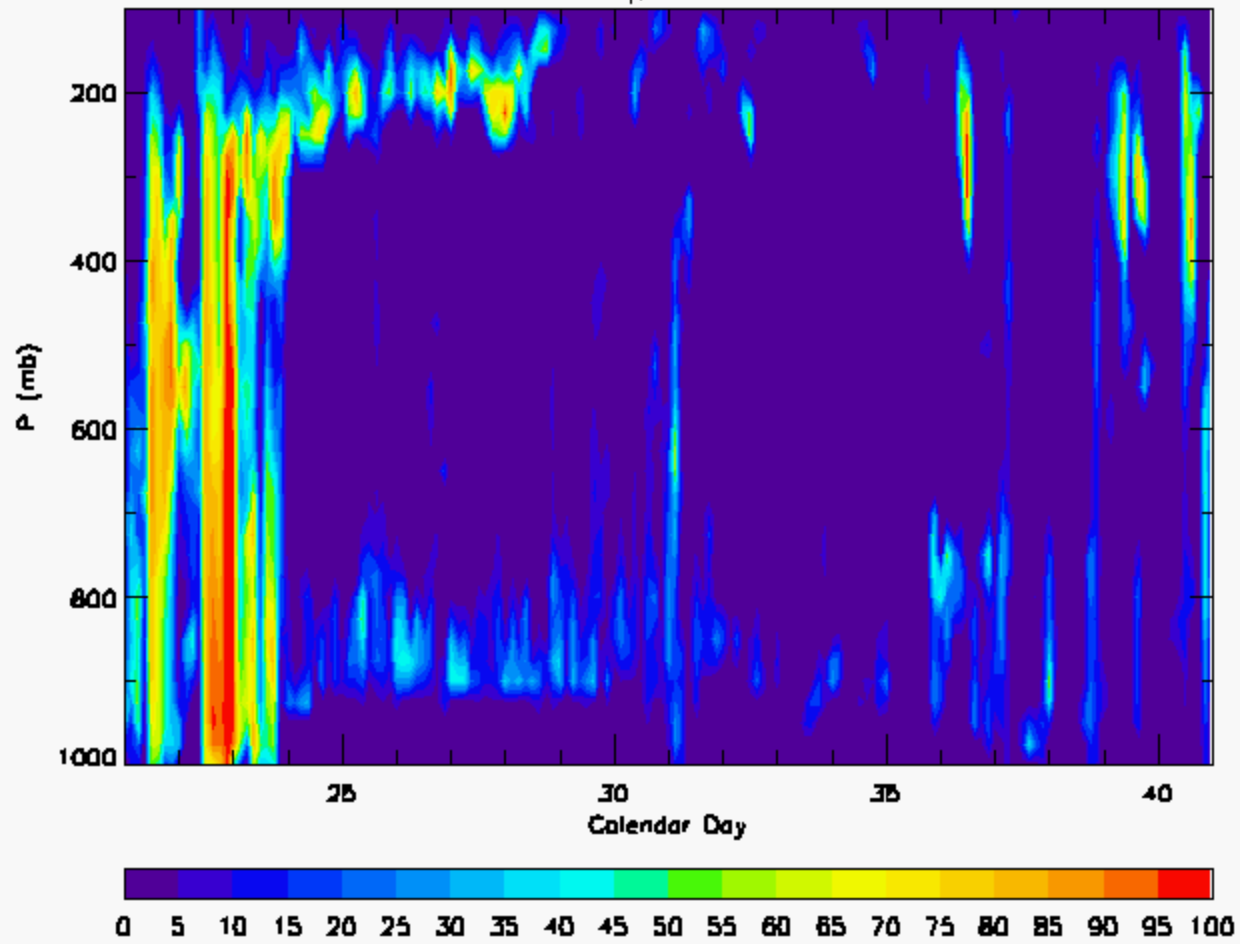


### 2006 TWP C3 Cloud

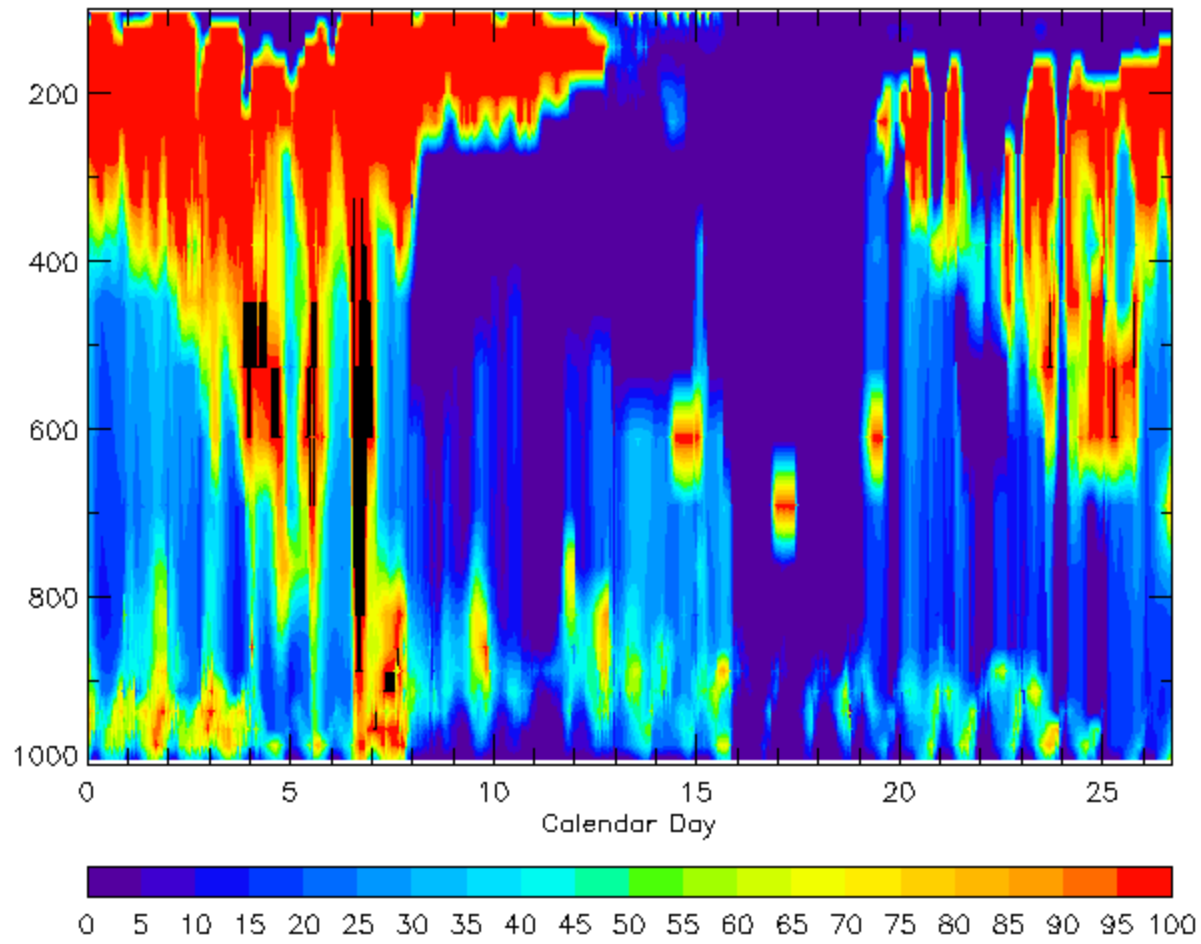




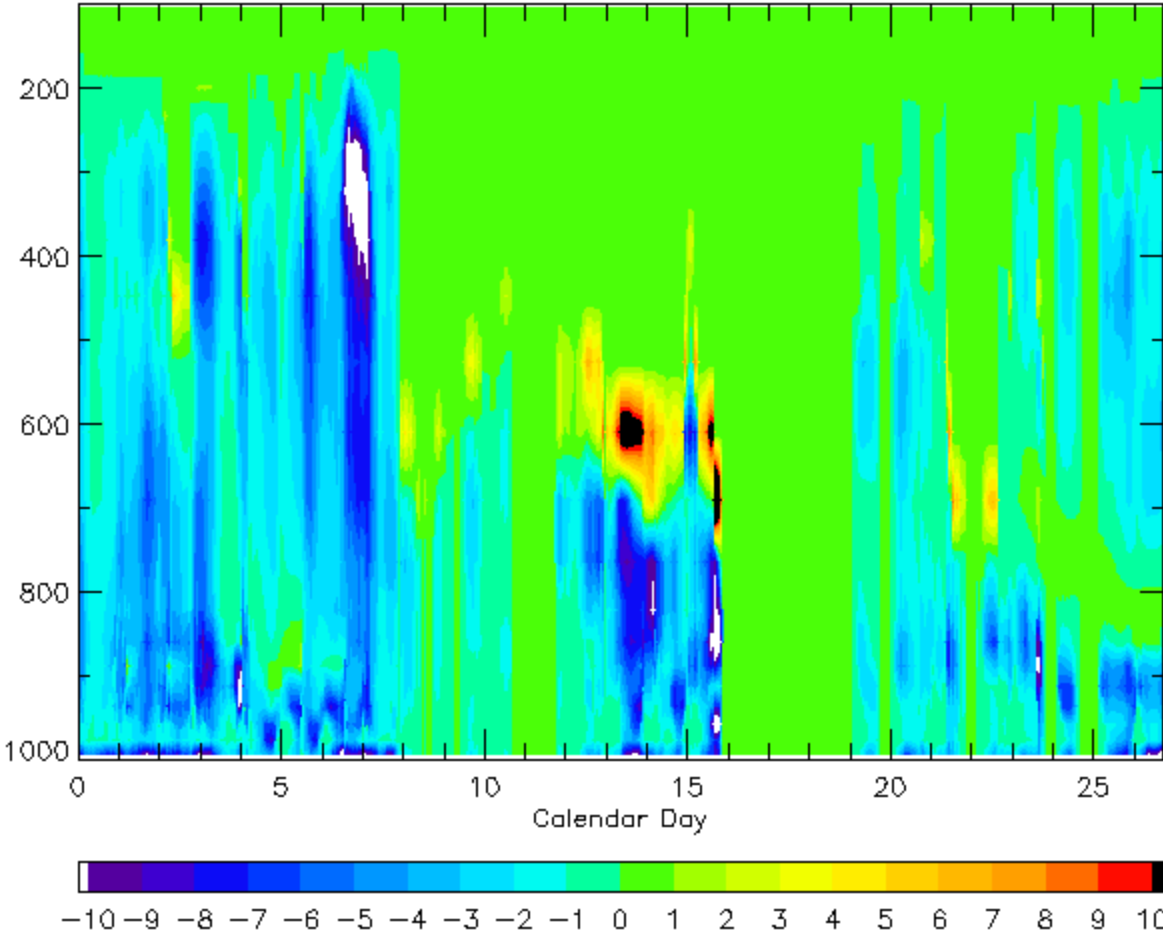
2006 TWP C3 Cloud

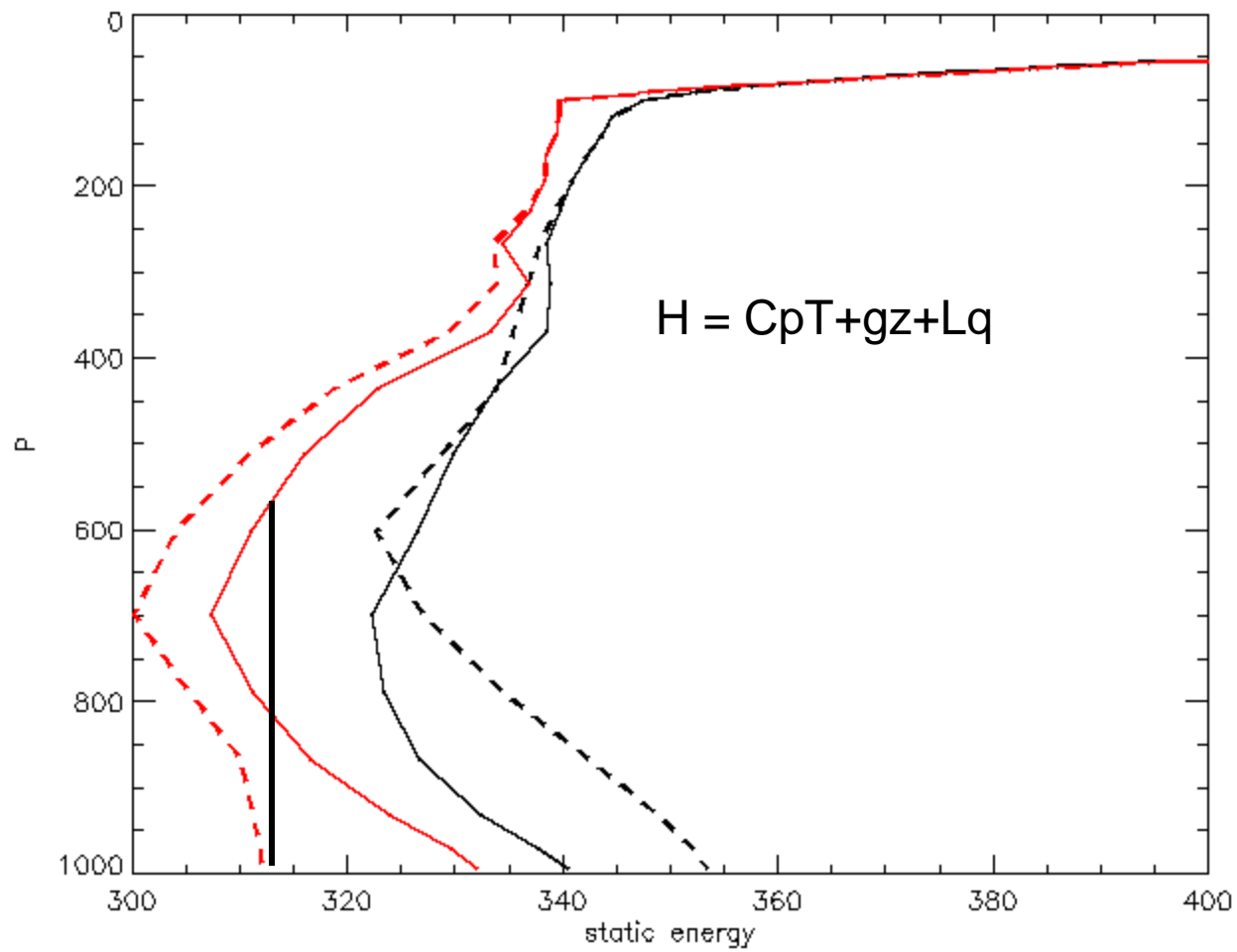


# CLOUD



2006 TWP-ICE cam4\_scm ZMDQ





## **Summary:**

**Detrainment from deep convection forms the middle clouds in the CAM**