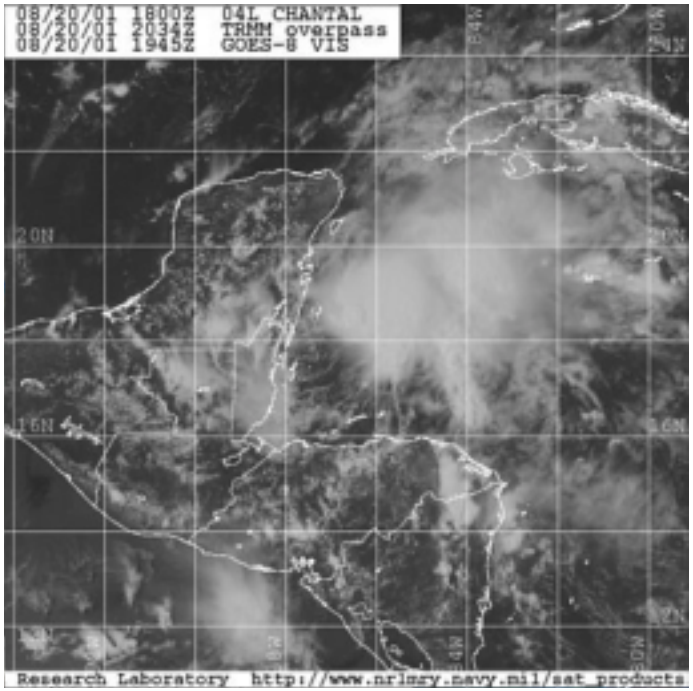
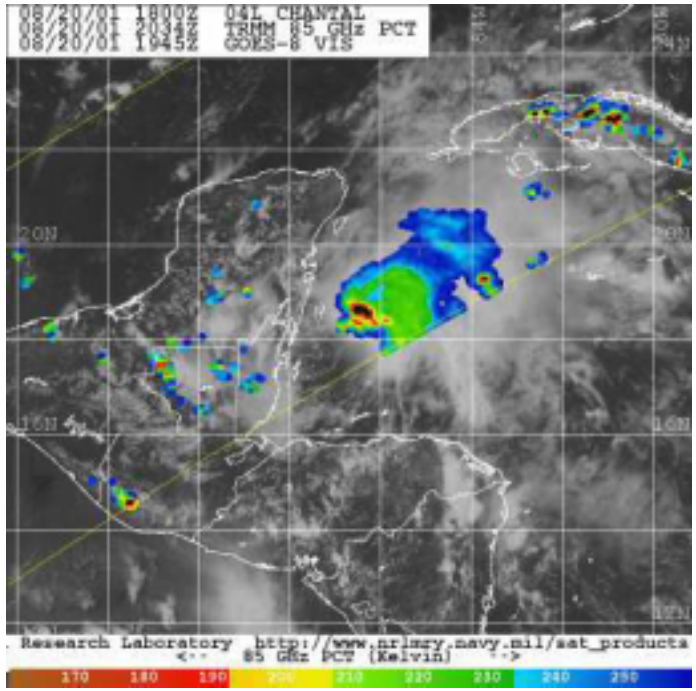
# The structural changes of tropical cyclones upon interaction with vertical wind shear

E. A. Ritchie and R. L. Elsberry




GOES-8 VIS 20/8/01 1945Z



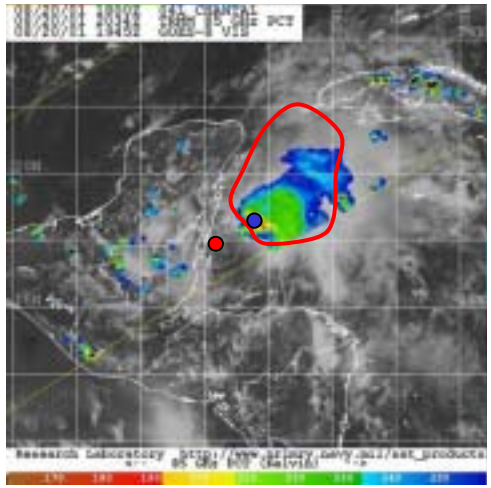

TRMM 85 GHz PCT
20/8/01 2034Z

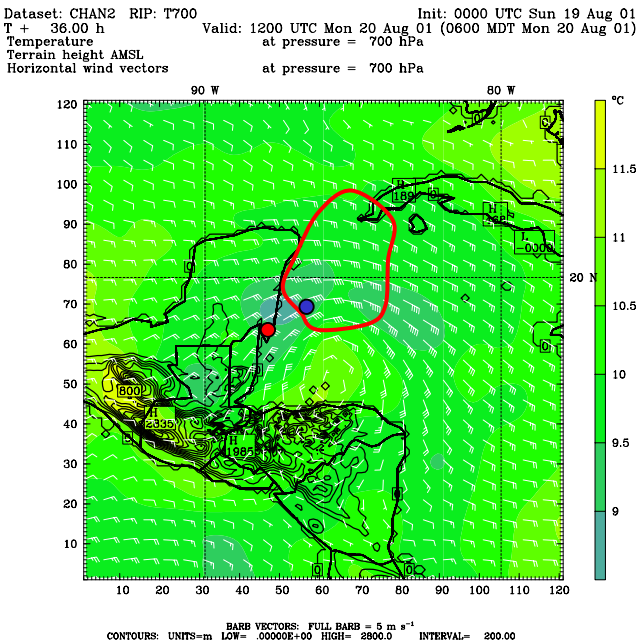
A study sponsored by NASA CAMEX-4

# TS Chantal – Cressman reanalysis

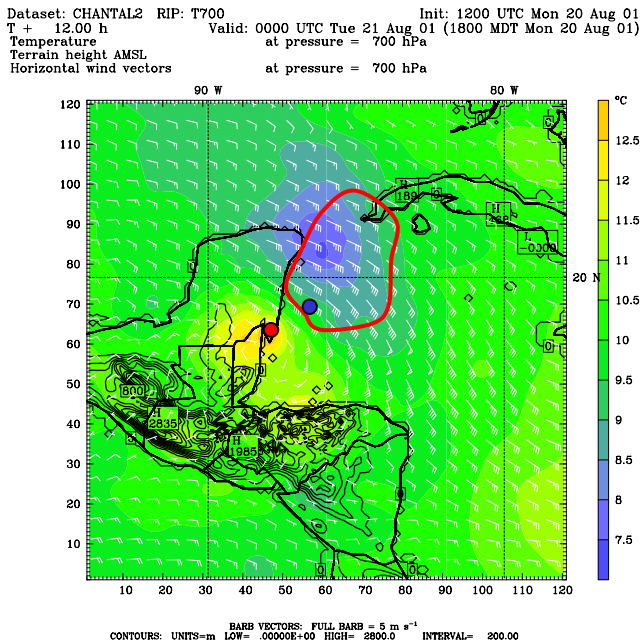
## OBS: DC-8 + P3

Sfce – 650 mb: 26 obs
600 mb: 6 obs
550 mb: 5 obs
500 mb: 5 obs
450 mb: 4 obs
400 – 300 mb: 1 ob



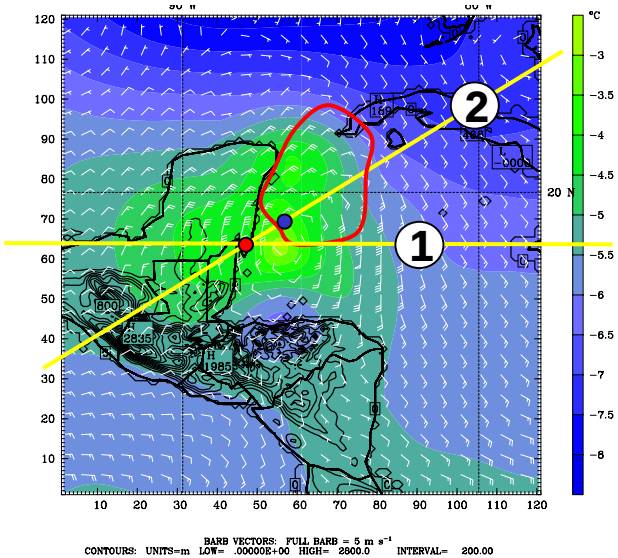



**700 mb - NOGAPS**

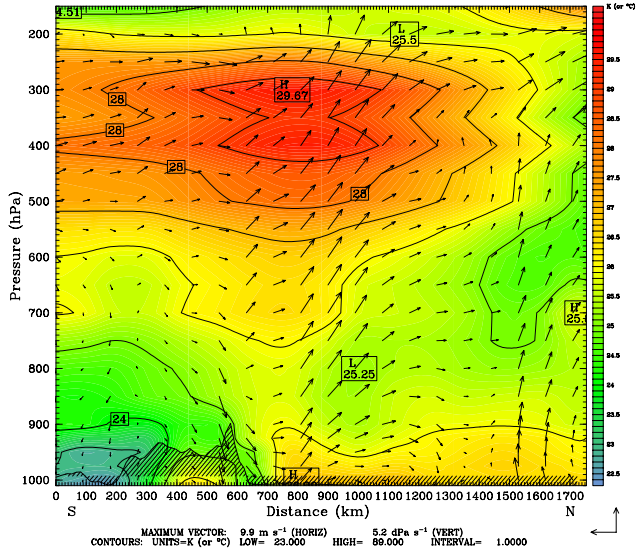



**700 mb – reanalysis**

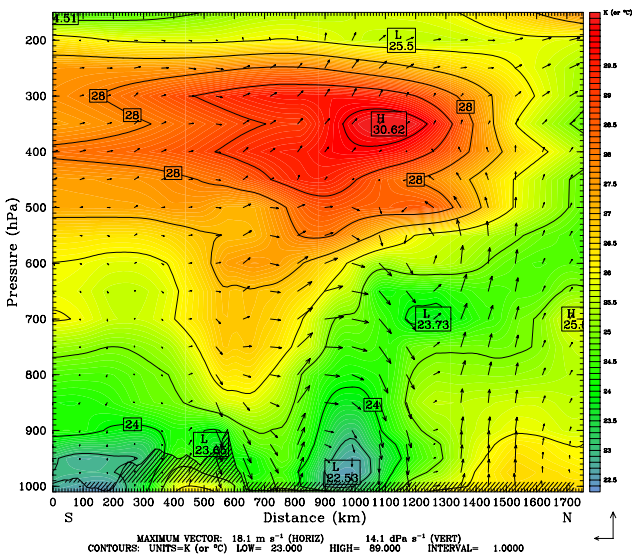
# 500 mb T reanalysis



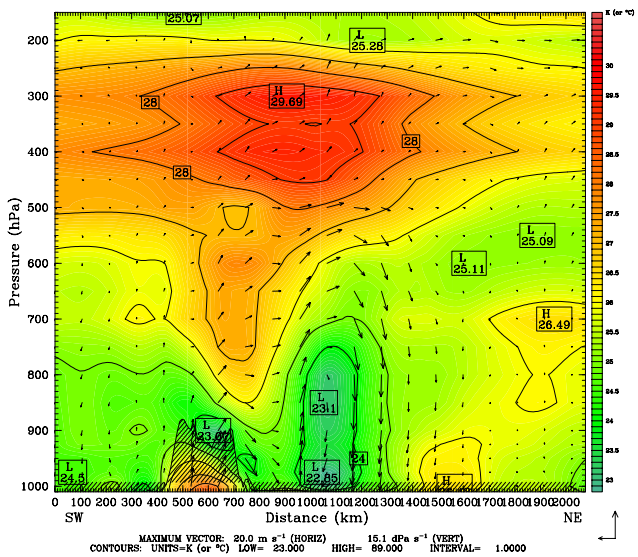

# Untouched NOGAPS field



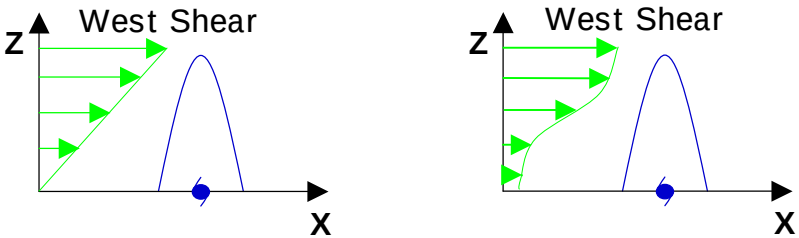

# T reanalysis

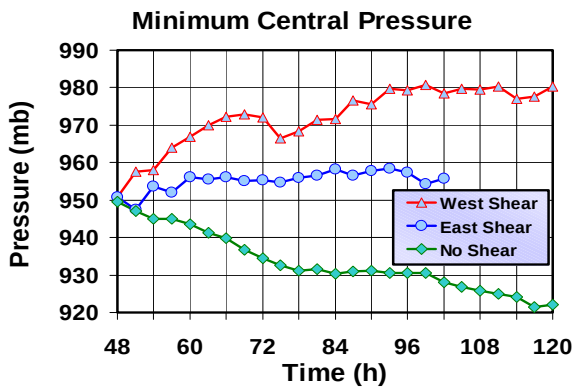



# T reanalysis

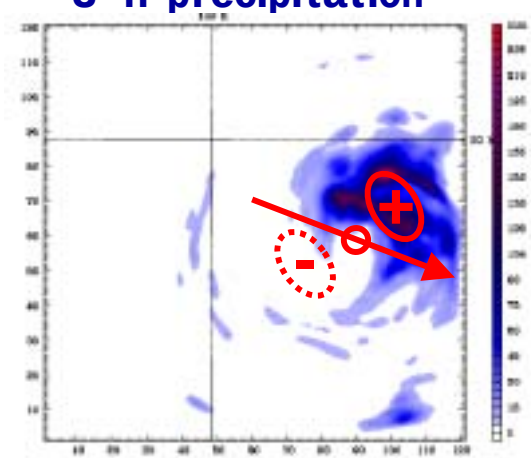


# Idealised Profiles

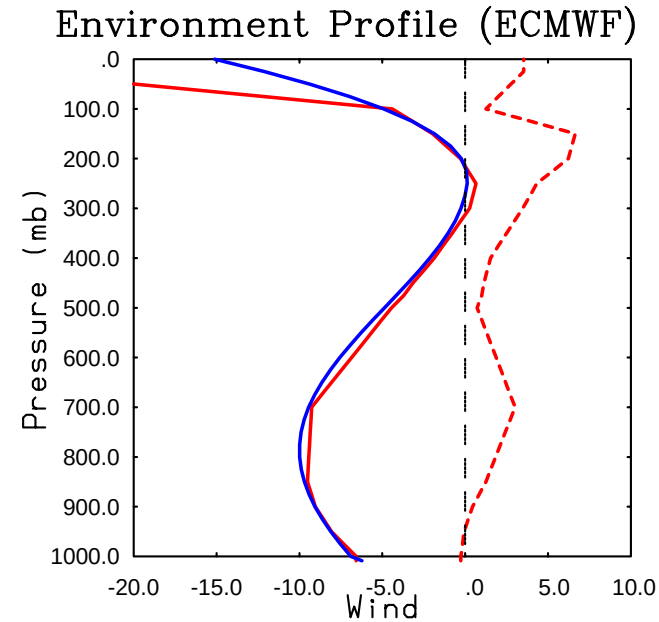


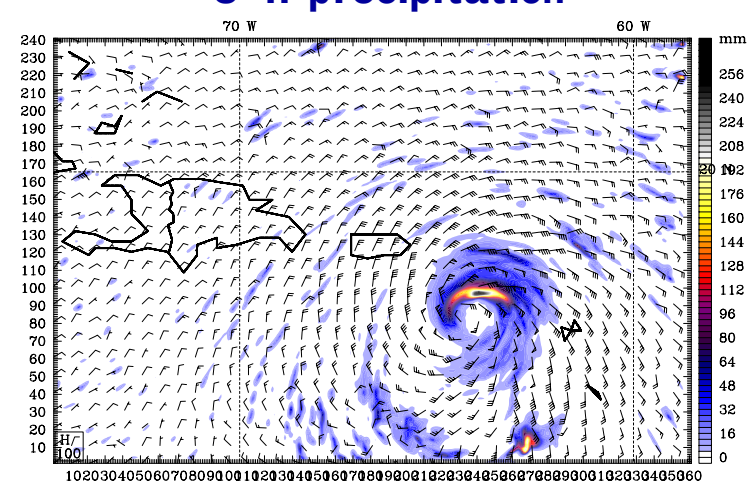




## 3-h precipitation



# TS Chantal (2001)




## 3-h precipitation