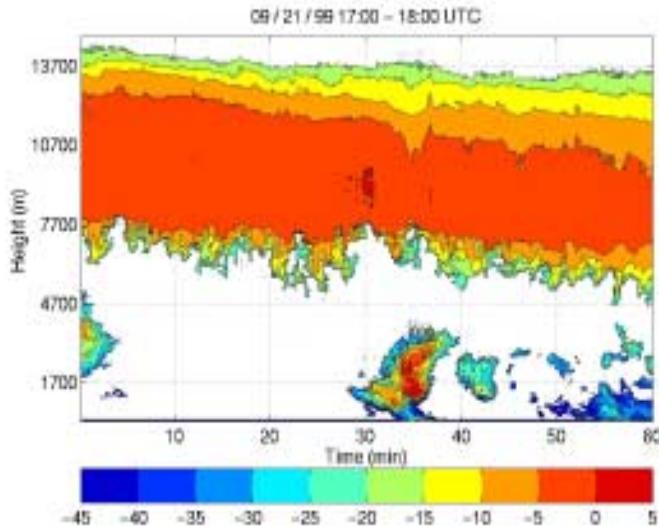


UM 94 GHz Doppler Radar

Albrecht&Kollias



1) Radar specifications:

- Sensitivity : -30 dBZ at 10 km
- Antenna beamwidth: 0.2°
- Vertical resolution : 60 m
- Temporal resolution : 2-3 sec

2) Data:

- Doppler moments
- 512-point Doppler spectra
- I/Q time series records (PSU)

Anvil Cloud Characterizations from 94 GHz Doppler Radar

- Identify and characterize large-eddy circulations
- Obtain vertical velocity statistics
- Estimate dissipation rates using w-spectra and Doppler spectra
- Examine detailed structure using raw Is and Qs
- Retrieve cloud ice water content and ice crystal effective size

