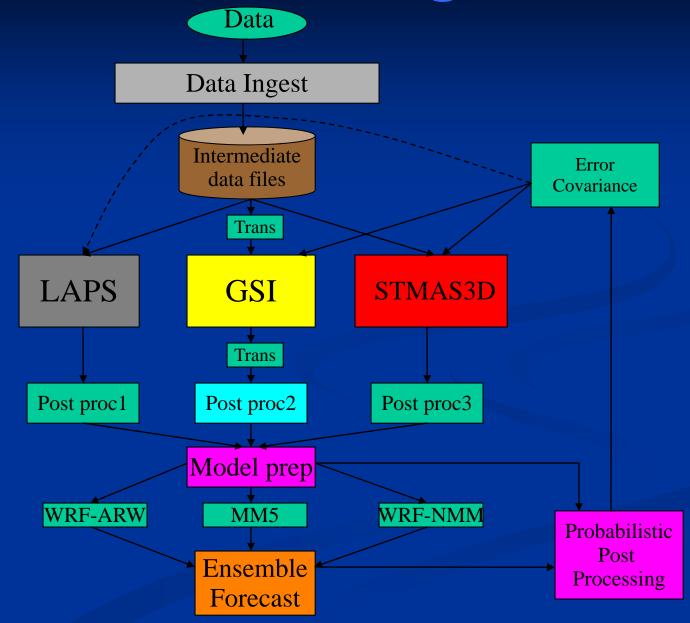
LAPS DA Configuration

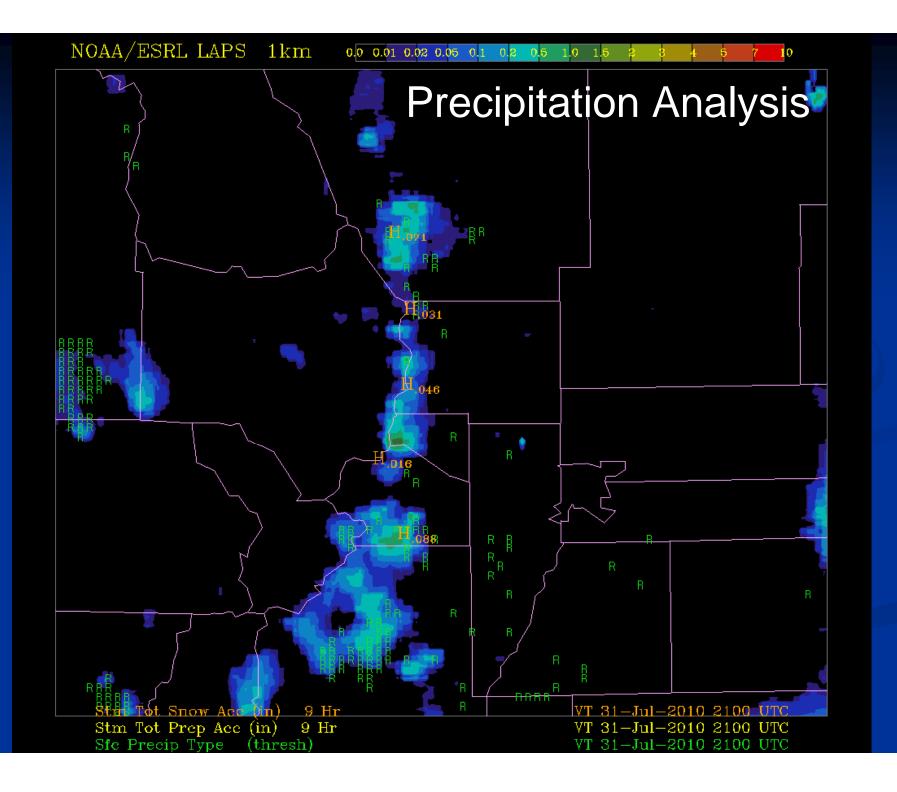


Precipitation Analysis Inputs

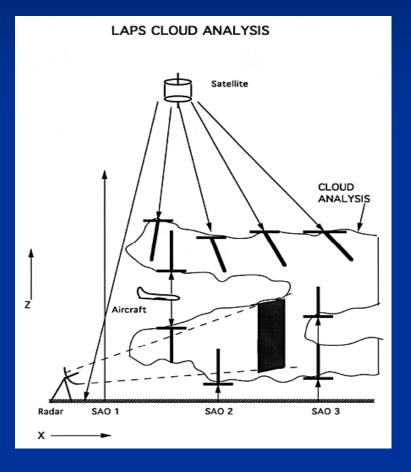
Radar Reflectivity

Rain Gauges

Model First Guess



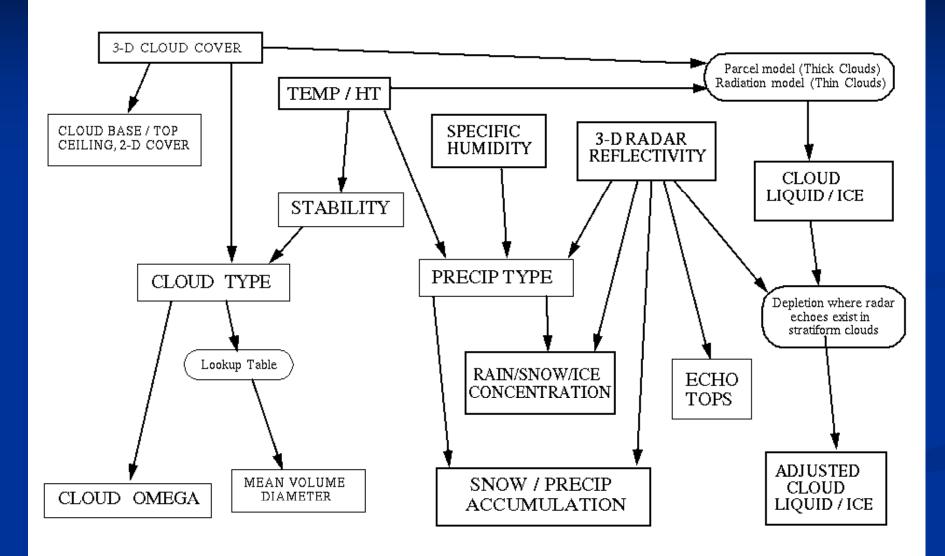
Cloud Analysis Scheme



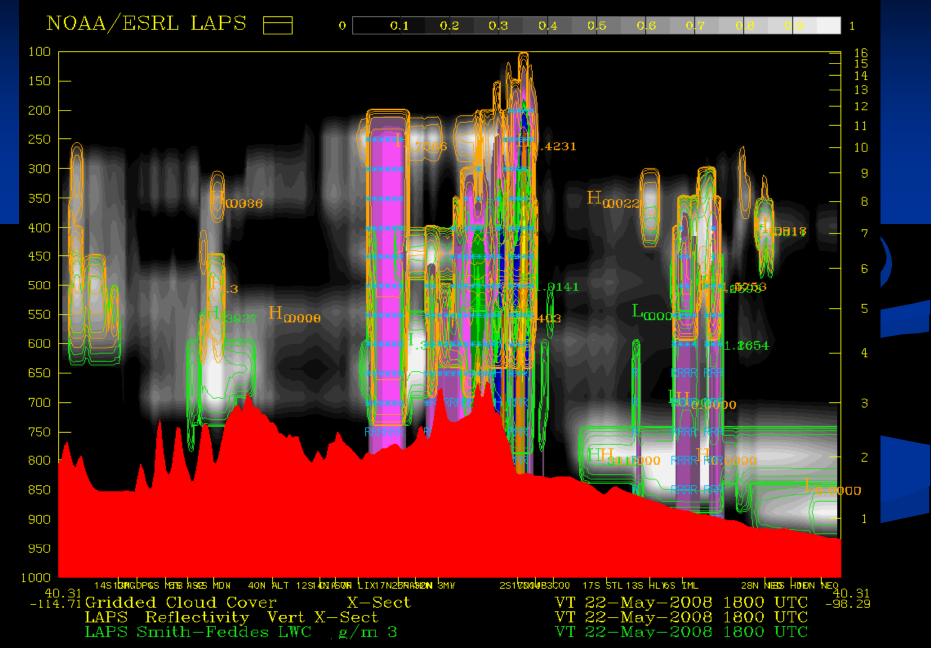
- Uses satellite Vis and IR
- Aircraft observations
- Surface observations
- Radar
- Interpolates cloud obs to grid with SCM
- Cloud feeds back into water vapor analysis

Derived products flow chart

LAPS DERIVED CLOUD / HYDROMETEOR FIELDS



Cloud/precip cross section



What FAB can do with GPM

Validation by comparing with 3-D radar & microphysical analysis

Development of forward models to bring GPM data into STMAS analysis and WRF model forecasts