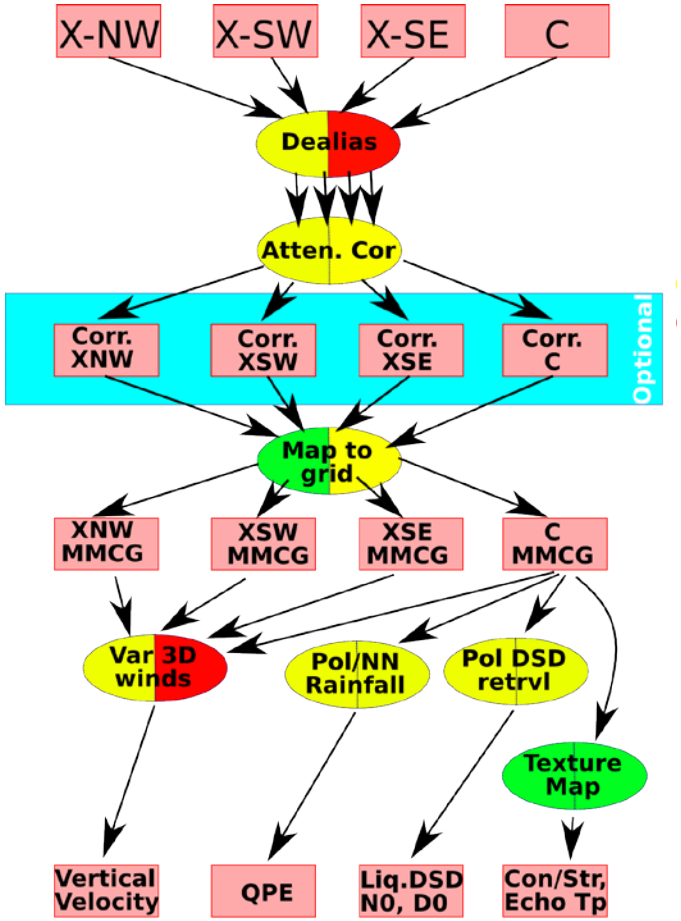
State of precipitation radar VAPs related to CStAT



Var 3D winds: Variational 3D wind retrievals

Pol DSD retrvl: Polarimetric Drop size retrieval in warm rain

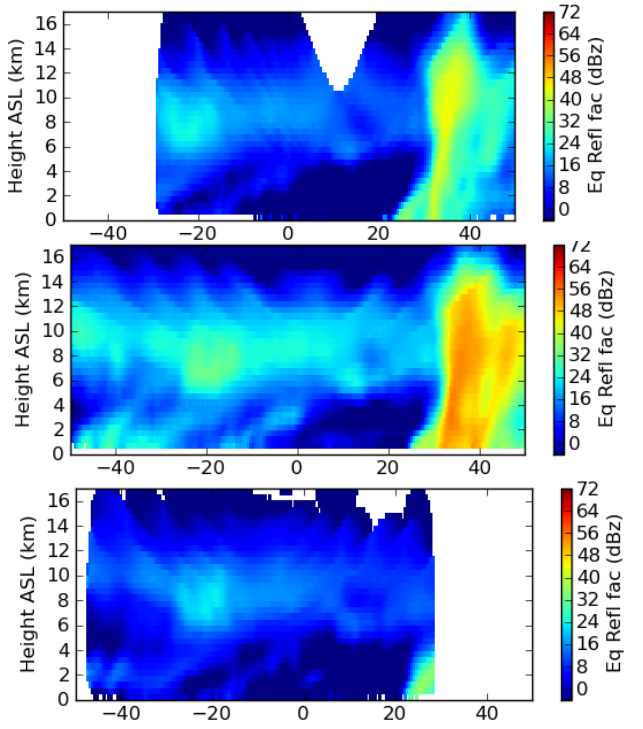
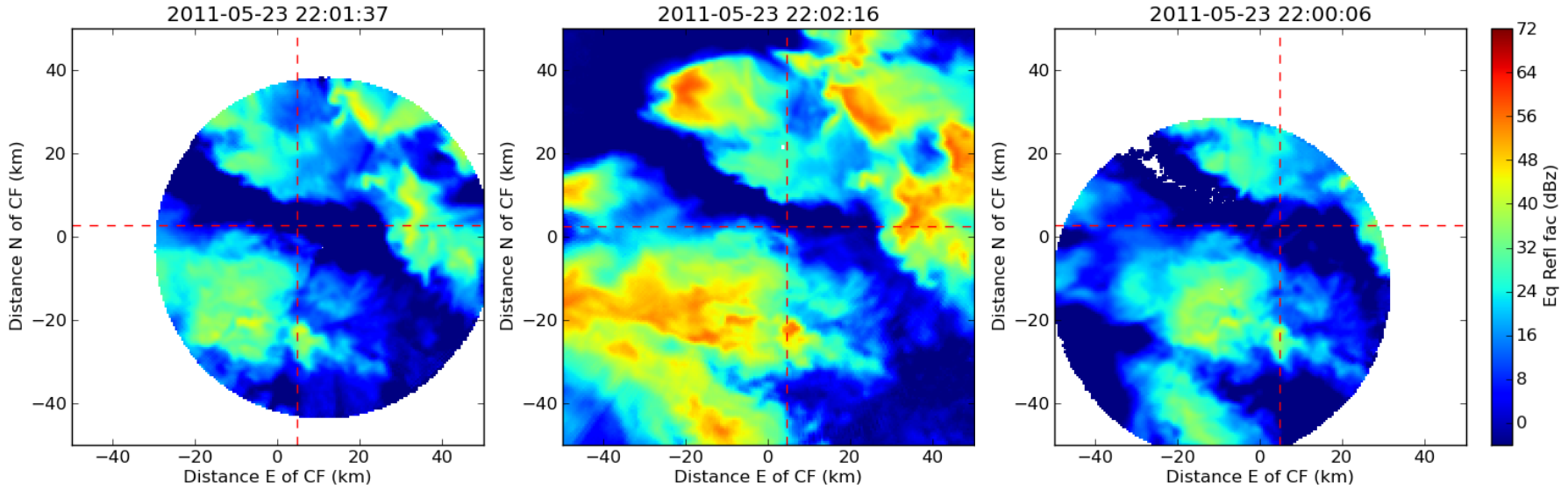
Pol/NN Rainfall: Polarimetric or Neural Network based rainfall retrieval

Texture Map: Stiener based convective stratiform classification. echo top detection

Map to grid: Balltree based Barnes filter

Dealias: U Washington 4DD velocity unfolding

Atten. Cor: PhiDP based attenuation and differential attenuation correction.

- Easy, Algorithm essentially done
- Moderate development work required
- Significant development work required, or further science needed.

- First VAP from the ARM radars.
- Mapped Moments to a Cartesian Grid.
- At the SGP this includes inner and outer grids.
- Outer grid is CSAPR on a 240x240kmx17km grid.
- Inner grid is all radars on a 100x100x17km grid.