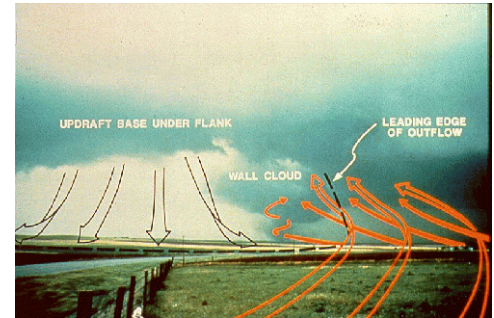
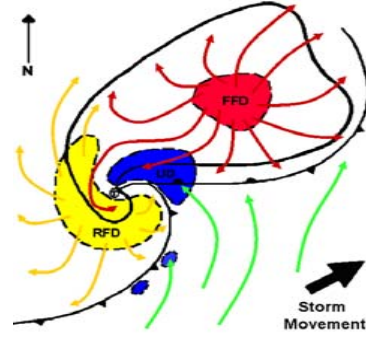
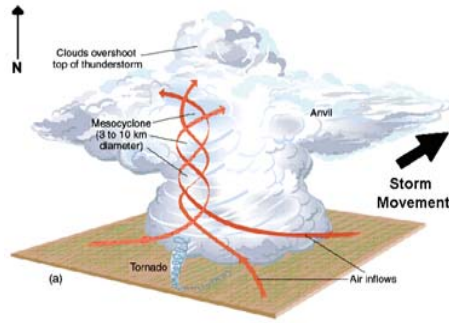
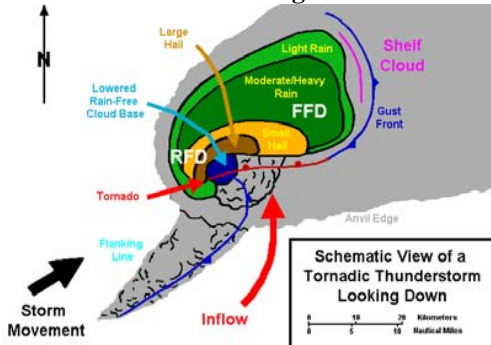


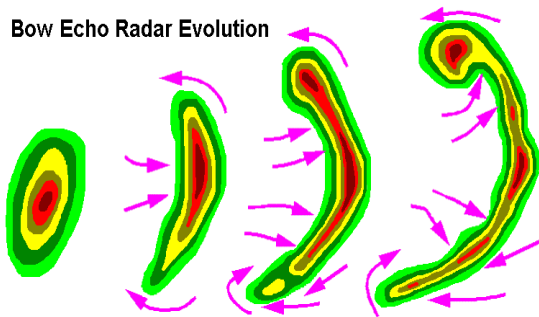
Tornado Diagrams:



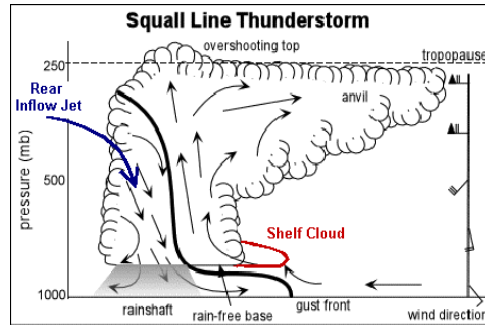
Tornado on backside of the storm relative to storm motion. Surface wind flow near tornado. RFD flow on left. Inflow on right. Tornado/wall cloud in middle.

Straight-line Wind / Downburst Diagrams:

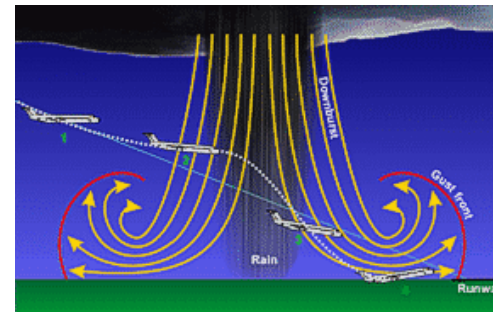
Bow Echo Radar Evolution



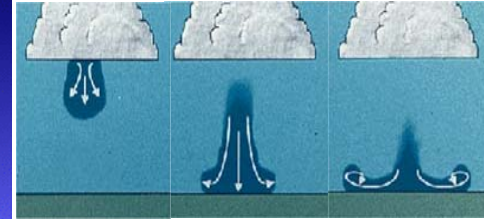
Moves to right. Arrows : surface winds. At apex : downburst.



Squall line moving right. Shelf Cloud on leading edge.



Microburst. Plane: headwind/lift, then downward tailwind.



Evolution of a microburst.

Pictures:



Wall cloud w/ beaver tail. Moving right. They change shape, size, color often.



Striation marks on updraft indicate Rotation (mesocyclone).



Well developed mesocyclone with extreme rotation on vertical axis at cloud base.



Tornado formation? No! Shelf cloud with trailing rain on the right. Storm moving left.



A wet microburst (cold air descending with torrential rain) about to hit the ground.



Shelf cloud : leading edge of storm outflow. Gusty winds behind. Storm moving to left.



Low hanging scud – may look like a funnel cloud. If no rotation, no funnel cld.



Mammatus clouds – descending bubbles of cloud material...not funnel clouds!



Funnel cloud – no ground circulation.



Note circulation ground-affects...rotating dirt/debris proves it is a tornado! The funnel isn't the tornado! Amazing!!!