











Extratropical Transition

When hurricanes move into middle latitudes, they interact with non-tropical cyclones and other systems that they encounter



















Summary

- Human & economic impacts at landfall
- Hurricane weakens exponentially inland 7-h halving time Fujiwhara dance: TC rotate around a common center of mass
- Vortex filamentation & merger: One for the price of two.
- "Perfect storm"
- Extratropical transition
 - Hurricane merges with front, which wraps into the storm circulation Or, hurricane triggers frontal instability, causing formation of a middle-latitude cyclone which filaments the hurricane Often major rain event, as in Hazel of 1955
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- Rainfall patterns shift Left of shear in TCs
 - Poleward (ahead) of frontal cyclones
 - Topographic enhancement
 - Can be very heavy
- TC rain is a major hazard to life FOR NEXT TIME: Hurricanes of the 1920s