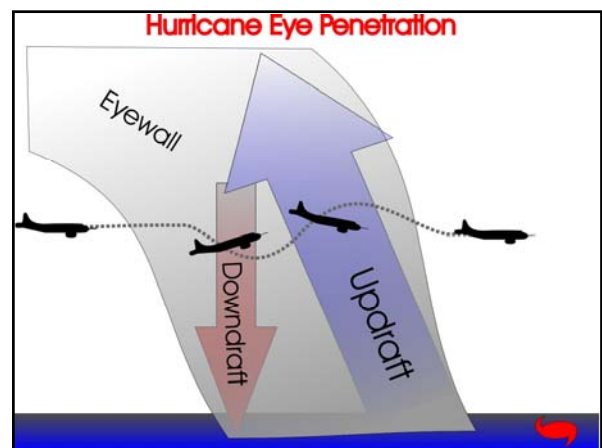
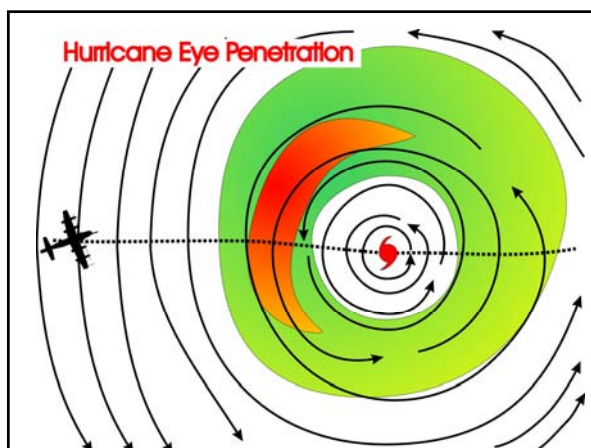
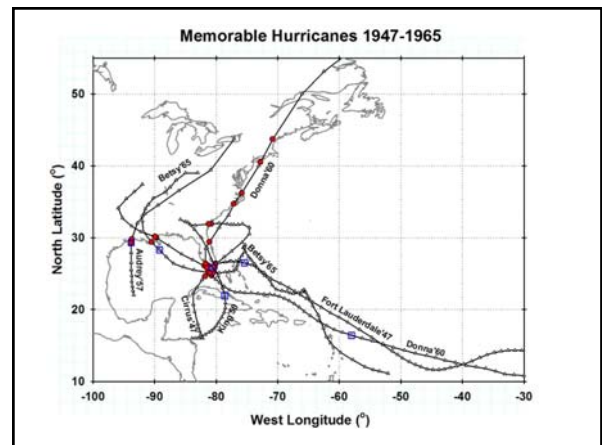
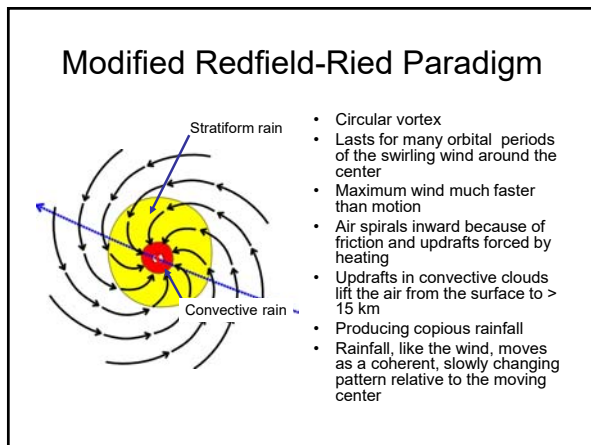
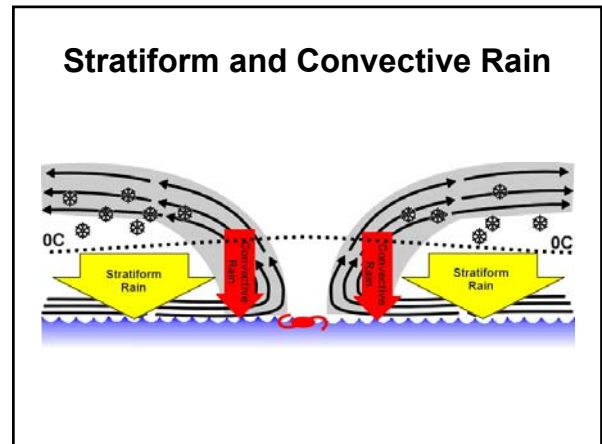
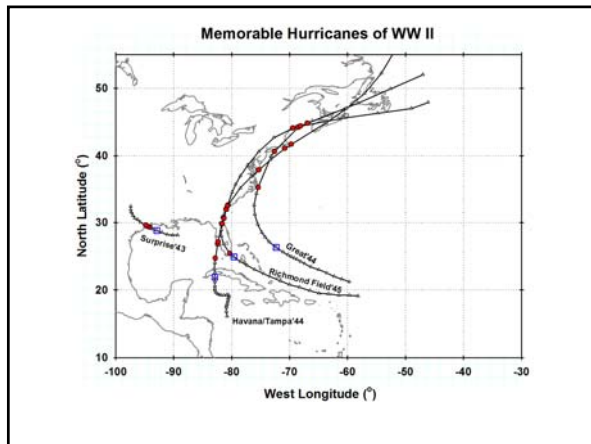


How Do We Use SLOSH?

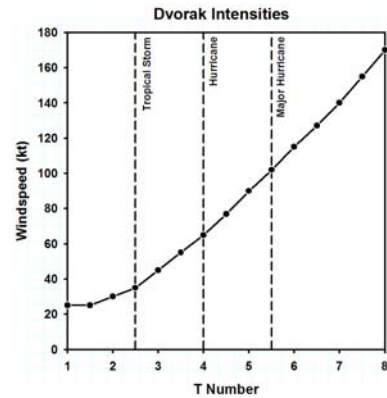
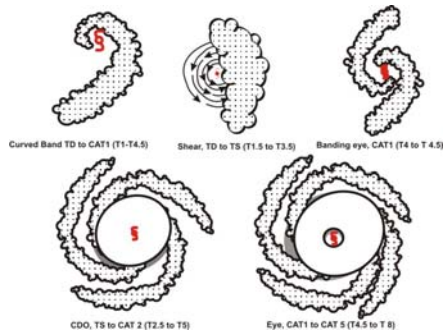
- Make many runs for all possible tracks, sizes, intensities...
- Retain greatest extent of inundation for any run
- This defines the Maximum Envelope of Water (MEOW)
- Evacuation-zone boundaries are defined in terms of recognizable landmarks and include the MEOWs for any storm, nonmajor, and major hurricanes.
- Has to be simple, because evacuation is chaotic no matter what.

A map showing the Hurricane Storm Surge Evacuation Zones for the Gulf of Mexico and Caribbean Sea. The map includes latitude and longitude coordinates. The zones are defined in terms of recognizable landmarks and include the MEOWs for any storm, nonmajor, and major hurricanes.



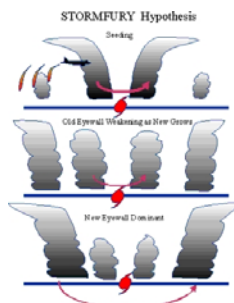


Dvorak Scene Types

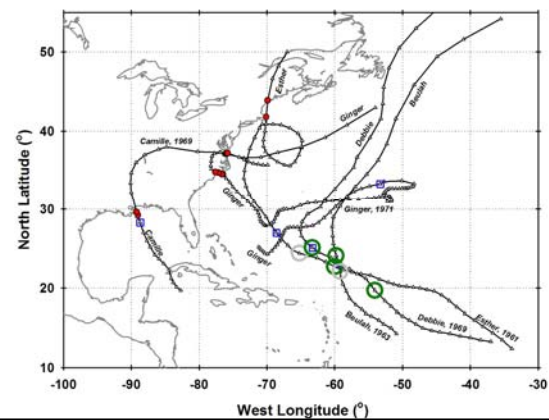


Revised STORMFURY Hypothesis

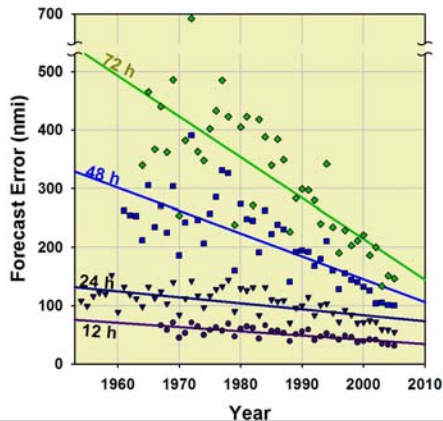
- Target intense hurricanes with small eyes
- Seed the first rainband outside the eye
- Build a new eyewall around the old
- New eyewall strangles the old



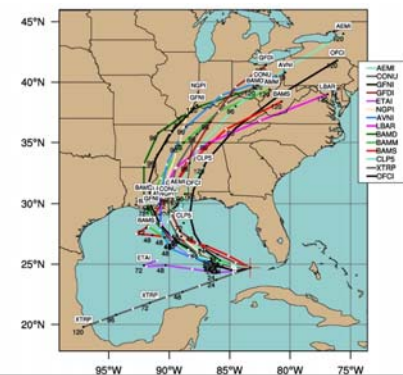
STORMFURY Hurricanes

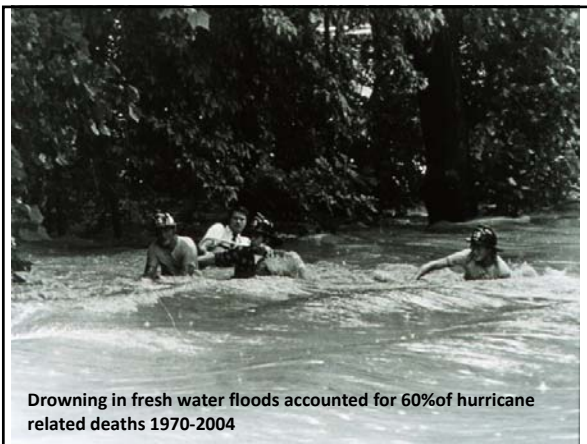


Track Forecast Errors 1954-2005

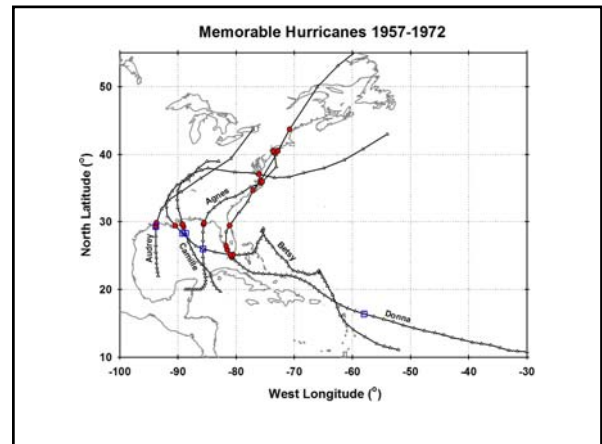


NHC Track Guidance 00Z 27AUG05






Drowning in fresh water floods accounted for 60% of hurricane related deaths 1970-2004





CAMILLE

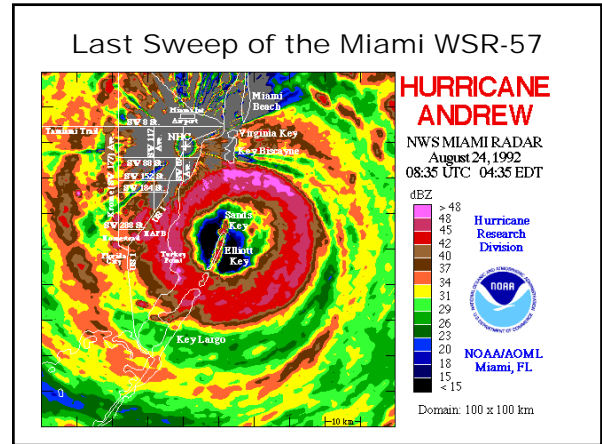
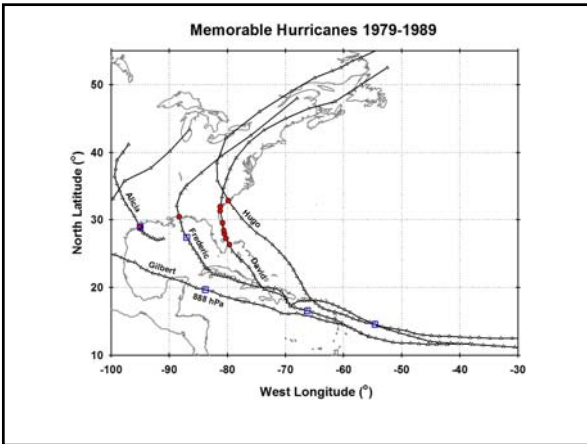


- Formed in the W Caribbean
- Tracked northward
- Intensified rapidly over the Northern Gulf (over the loop current?)
- Struck Mississippi coast as a CAT5
- Killed 259 (half by fresh-water flooding in VA)
- Damage \$1.42 B (1969 \$)
- Notorious Richelleu Manor Apartments Hurricane party is apparently a cyclostrophic legend and Mary Ann Gerlach was not the sole survivor of 21 revelers
- Only 8 residents (of 23 who stayed) perished, although the slab was washed clean

Cyclone Tracy

- Formed on 20DEC74, 500 km NE of Darwin
- Became visible on Darwin Radar on the 22nd as a 50 m/s cyclone
- Slowed and tracked around Bathurst Is
- Moved over shallow warm water
- Intensified and turned toward Darwin late on the 23rd and 24th
- Landfall Christmas morning



Impacts

- **Damage in S. Florida \$25 B**
- **Homes**
 - 25,524 destroyed
 - 101,241 damaged
- **Damage in Louisiana: \$1B**
- **Deaths**
 - Bahamas: 3 direct, 1 indirect (4)
 - Florida: 15 direct, 26 indirect (41)
 - Louisiana: 8 direct, 9 indirect (17)
 - Total 26 direct, 36 indirect (62)
- **Closure of Homestead AFB**

EXAM #2 WEDNESDAY, 15NOV17

- 60% short answer, multiple choice or matching;
- 40% short essay, draw and explain, or problems.
- You will have some extra time if nobody has to leave right at 11:50.
- We will begin promptly at 11:00 and end at\ a bit after noon.
- Bring pencils and a calculator.