

Severe Weather....

--Tornadoes & Hurricanes



© Original Artist
Reproduction rights obtainable from
www.CartoonStock.com

© Mike Sullivan / Cartoonist
7/2/01



Search ID: mban516

"That's the first time I've ever seen your mother let
go of her purse."

SO WHAT?



Well, yes I do suck
at whatever I do!
So what???



WWW.TOONDOO.COM

meerasapra

© Original Artist
Reproduction rights obtainable from
www.CartoonStock.com



Search ID: 260



(C) 1996 Katie Sullivan

Tornadoes....

- Tornadoes are the most violent storms on the surface of the Earth.
- 70% of all tornadoes on Earth occur in the Great Plains region of the United States.



© Copyright 2004 Eric Nguyen

Tornadoes....

- Air masses collide over tornado alley, causing rotation:
- Warm, moist air masses from the Gulf of Mexico
- fast-moving polar air masses from Canadian Rockies.





Tornadoes....

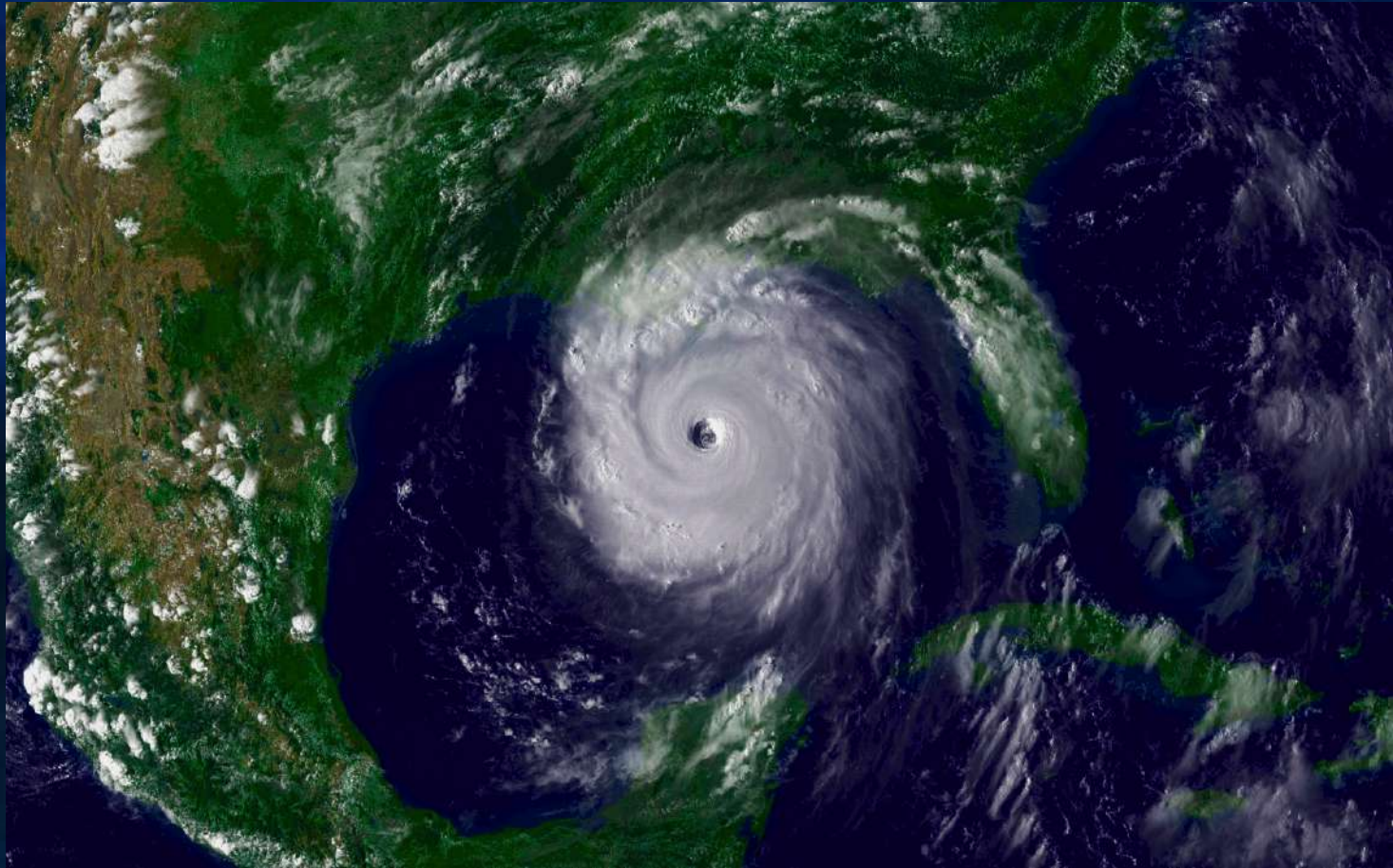
- Common in the late spring and early summer
- Low pressure systems, as are all storms
- Cause a lot of damage yet the majority average 200 meters in diameter & last less than 10 minutes.



Tornadoes....



Hurricanes....



Hurricanes....

- Largest storms on Earth & the only storms which are named.
- Different parts of the world have different names:
 - United States: Hurricanes
 - Indian Ocean: Cyclones
 - Western Pacific (Japan): Typhoons

Requirements for a hurricane:

- Water temperature has to be at least 80°F in the upper 200 feet of water
- Air Must be both warm & humid
- Form in 5° to 20° latitude

Formation of Hurricanes:

- Warm water in the equatorial region needs to transfer energy
- Does so by evaporating water molecules into the atmosphere (water cycle)
- Winds start forming--
 - **Counterclockwise in Northern Hemisphere
 - **Clockwise in the Southern Hemisphere
(Due to Coriolis Effect)

Wind Speeds...

Wind Speed

- Winds under 39 mph
- Winds 39-74 mph
- Winds over 74 mph

Storm Type

- **Tropical Depression
- **Tropical Storm
- **Hurricane

Hurricanes....

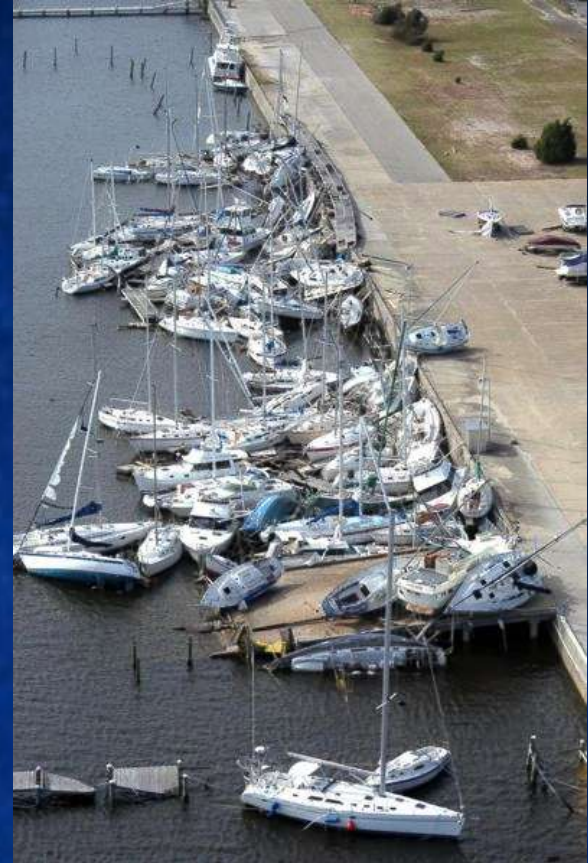
- Hurricane will strengthen as long as it is over warm water!
- Once hurricane reaches land it weakens because there is no more heat energy from the warm water to fuel it!





(C) 1996 Katie Sullivan

Hurricane Damage....



90% of all deaths from a hurricane occur in the storm surge!