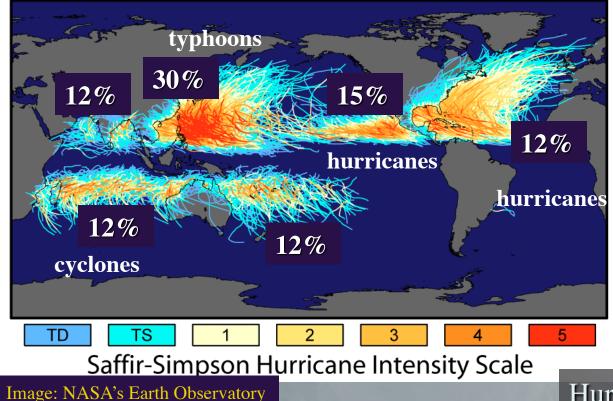
Where do Hurricanes Occur? Naming

Tracks and Intensity of All Tropical Storms

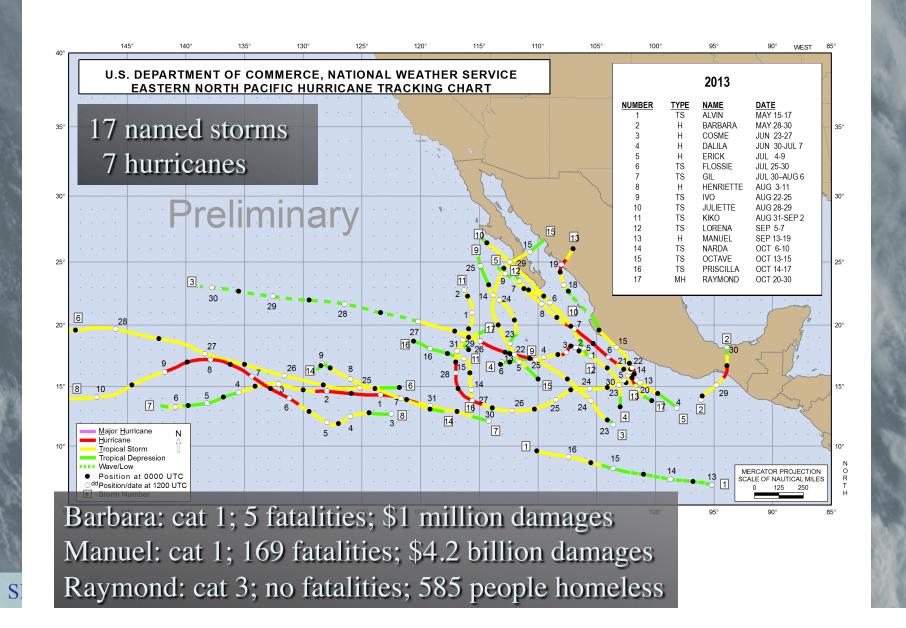


Hurricane paths: N hemisphere: clockw. S hemisphere: countercw. Hurricane winds: N HS: ccw S HS: cw

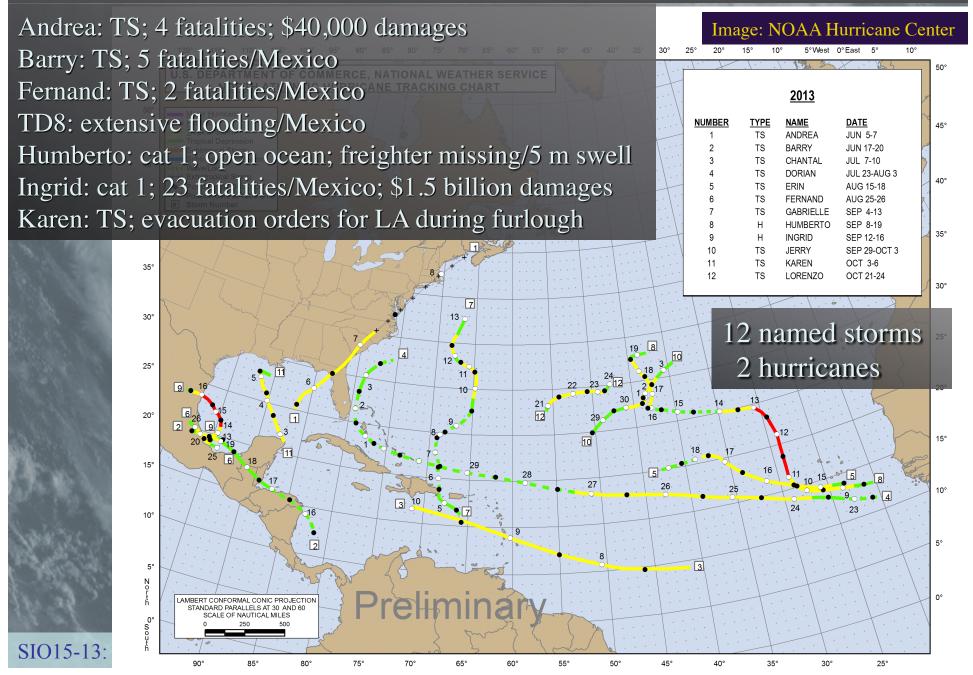
- most hurricanes in W. Pacific (typhoons)
 more hurricanes in E. Pacific than in Atlantic
- Indian Ocean: cyclones

2013 East Pacific Hurricanes

Image: NOAA Hurricane Center



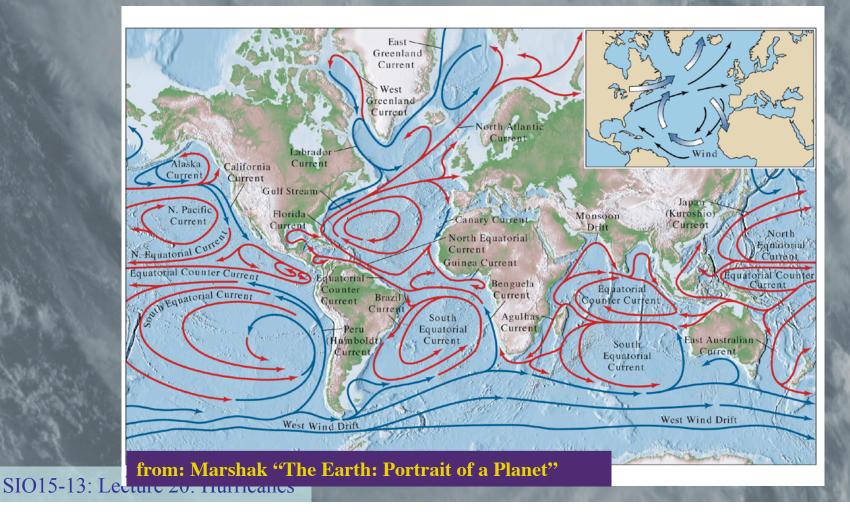
2013 Atlantic Hurricanes



Hurricanes in Southern California?

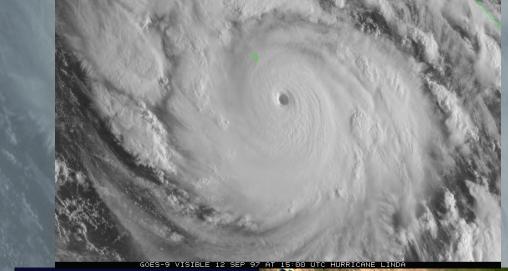
HURRICANES

- need warm water to grow/sustain
- cold California Current protects us
- "no hurricane has ever made landfall in SoCal"



Hurricanes close to home (Baja California)

1997: Cat 5 Hurricane Linda (strongest ever recorded in E.P.)



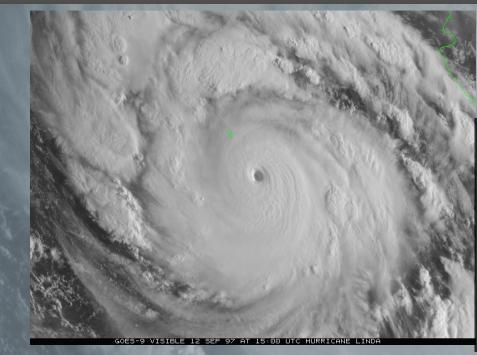


- sustained winds: 185mph
- ➢ gusts: 220mph
- pressure: 902 mbar
- no landfall but hit Socorro Island
- ➢ no fatalities but \$3.2Mio Damage

Aug 24: tropical wave off Africa undeveloped across Atl. crossed Central America convection increased Sep 10: tropical storm Sep 11: hurricane cat 5 within 30h Sep 17: dissipation

... sep 13: could landfall in So. Cal??

Hurricanes close to home (Baja California)



Linda and Mainland

cut power to met. station on Socorro
closed resorts in Baja
flooding in mainland Mexico
15ft surge in So. Cal.
5 people swept off jetty in Newport Beach
severe flooding and mudslides in So. Cal.
(destroyed 2 houses, damaged 77)

1997: Hurricane Linda category 5

S.D. Meteorological Observations

- > no hurricane ever made landfall in So. Cal.
- Iandfall of a tropical storm in 1939
 - (\$ 2Mio damage)
- > some came into SW but made landfall somewhere else
- meteorological records don't go back very far
- newspaper accounts -> Oct 2 1858 San Diego Hurricane
- > from winds speeds and pressure -> category 1/F2 winds
- ships blown ashore
- house completely destroyed
- > 1860 population of New San Diego county: 4325

Damage if such a hurricane would strike today: several \$100Mio

Hurricanes in Southern California?

HURRICANES

- need warm water to grow/sustain
- cold California Current protects us
- "no hurricane has ever made landfall in SoCal"
- global warming could shift currents

