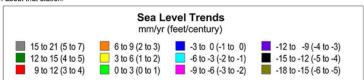


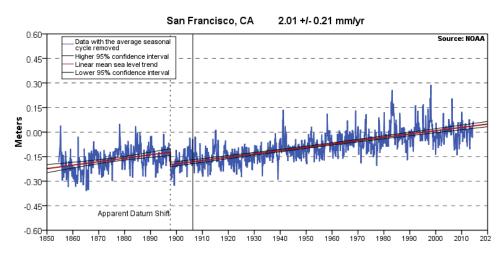




The map above illustrates regional trends in sea level, with arrows representing the direction and magnitude of change. Click on an arrow to access additional information about that station.

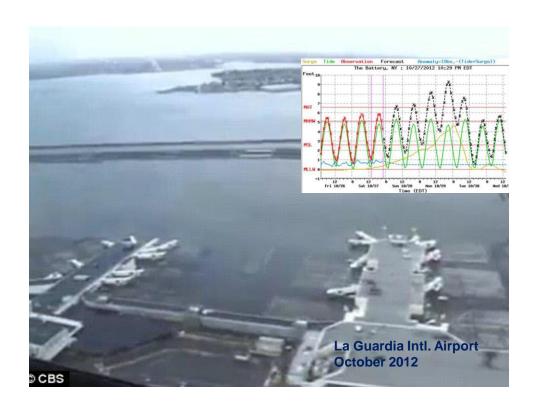


Mean Sea Level Trend 9414290 San Francisco, California

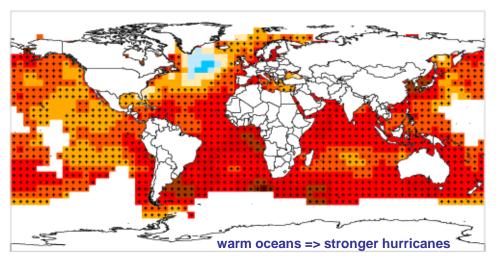


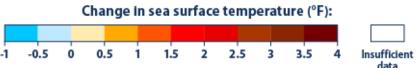
rs/year with a 95% confidence interval of +/- 0.21 mm/yr based on monthly mean sea level data from 1897 to 2006 which a 100 years.

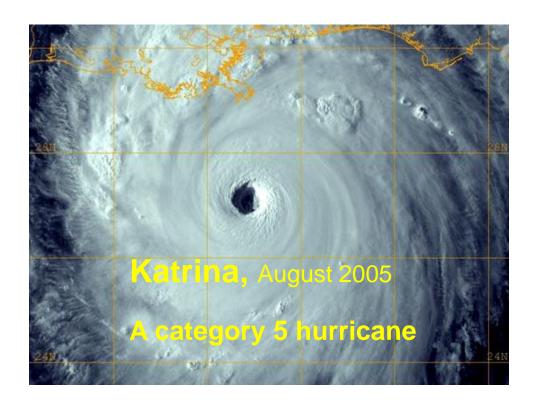
From P. O'Brien, USACE





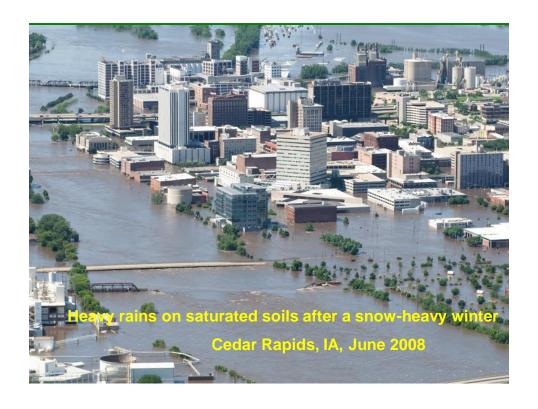




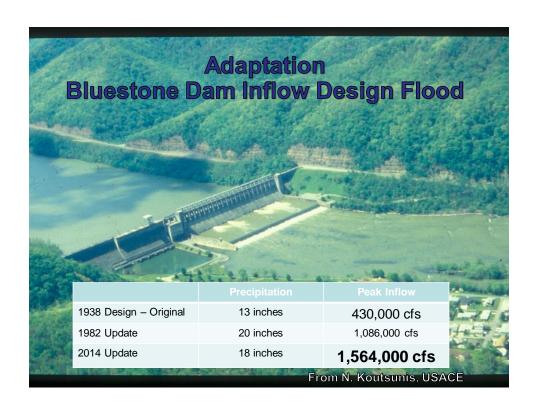












Structural Measures at a Glance

GENERAL COASTAL RISK REDUCTION PERFORMANCE FACTORS: STORM SURGE AND WAVE HEIGHT/PERIOD, WATER LEVEL







Seawalls and

Revetments

Benefits/Processes

Reduce flooding

Reduce wave

overtopping





Benefits/Processes

Surge and Wave attenuation and/or dissipation Reduce Flooding Risk Reduction for vulnerable areas

Performance Factors

Levee height, crest

width, and slope

Wave height and

period

Water level

Barriers Benefits/Processes Surge and Wave

Performance Factors

Barrier height

Wave height

Wave period

Water level

Storm Surge

attenuation Reduced Salinity Intrusion

Shoreline stabilization

behind structure **Performance Factors** Wave height Wave period Water level

Benefits/Processes Shoreline stabilization

Performance Factors Groin length, height, orientation, permeability and spacing Depth at seaward end

Wave height Water level Longshore transportation rates and distribution

Detached Breakwaters Benefits/Processes

Shoreline stabilization behind structure Wave attenuation

Performance Factors Breakwater height and

Breakwater permeability, proximity to shoreline, orientation and spacing

From K. White, USACE, ETL 1100-2-1 https://corpsclimate.us

Scour protection

Impact of Katrina on wetlands





