

# Review for Test 3

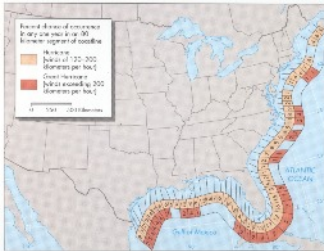
Dale Easley  
University of Dubuque



# Risk=Probability of a hazardous event X cost if it occurs

## Historical data

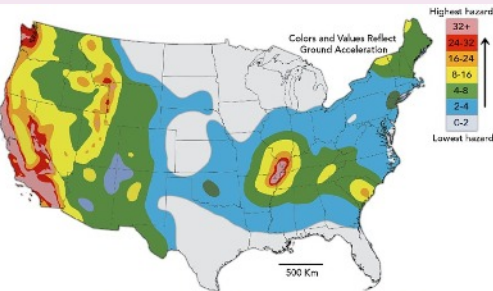
Hurricane probability in a given year [Council on Environmental Quality, 1981]



## Measurements of physical system

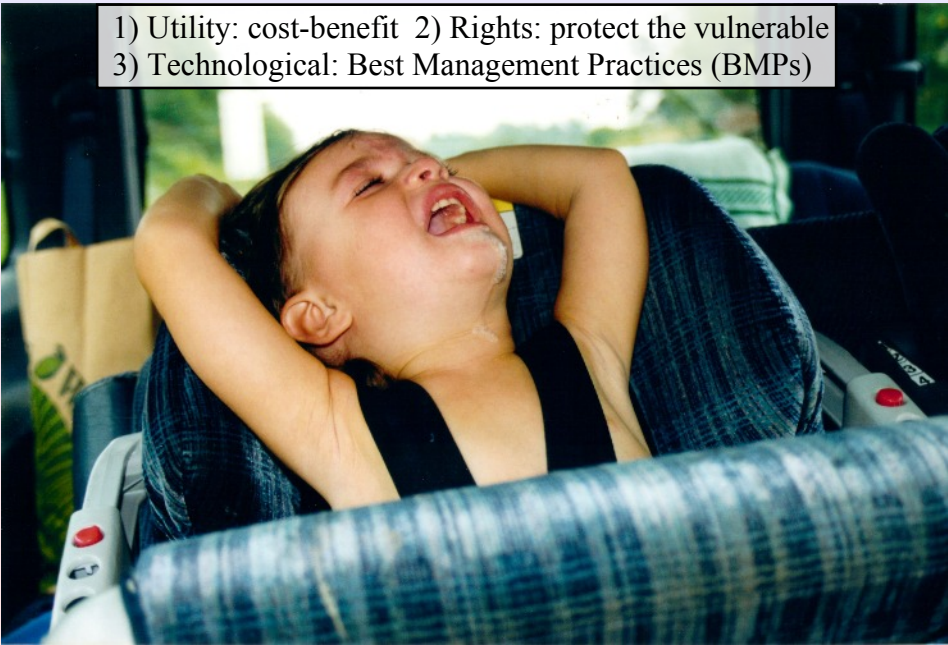


Cost

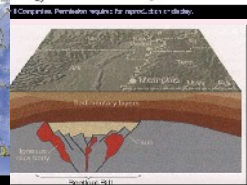
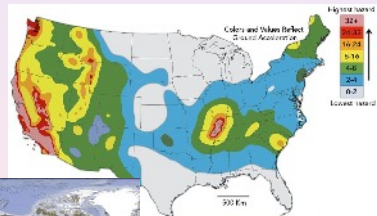
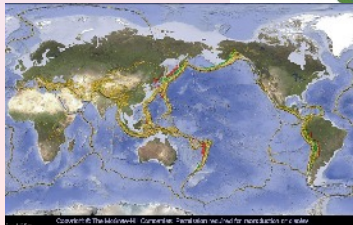
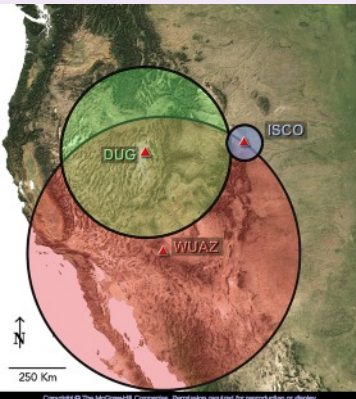
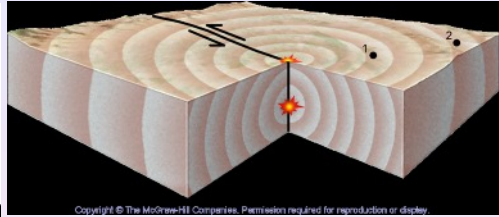
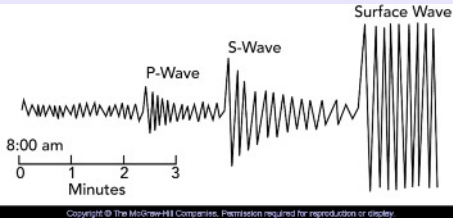


# Reasons to adjust risk

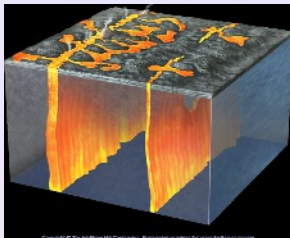
- 1) Utility: cost-benefit
- 2) Rights: protect the vulnerable
- 3) Technological: Best Management Practices (BMPs)



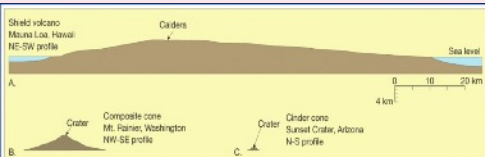
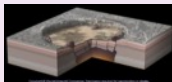
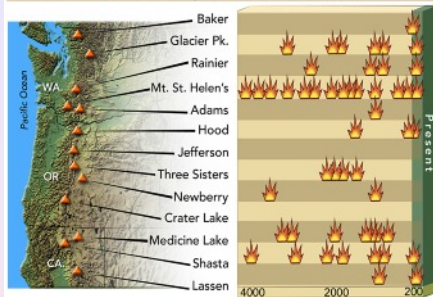
# Earthquakes



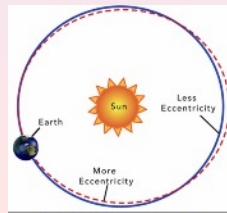
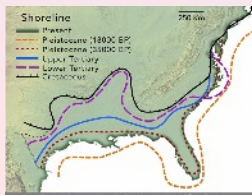
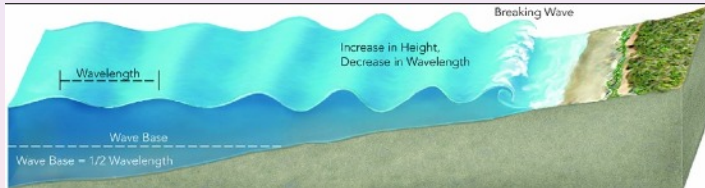
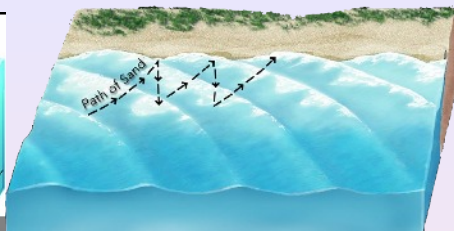
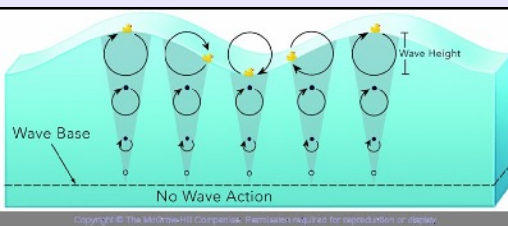
# Volcanoes



## Cascade Eruptions During The Past 4,000 Years

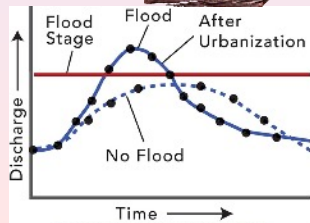
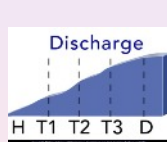
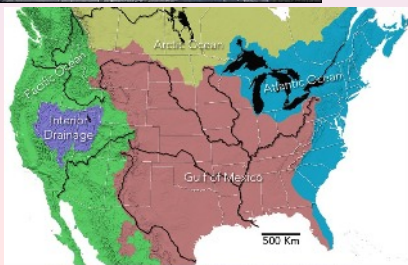
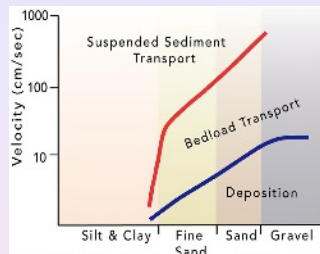
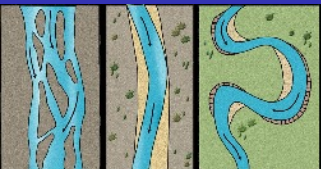


# Tides, waves, and sea level





# Streams and Floods



# Videos and stories: Pensacola, Oetzi, Fatal Flood, Katrina

