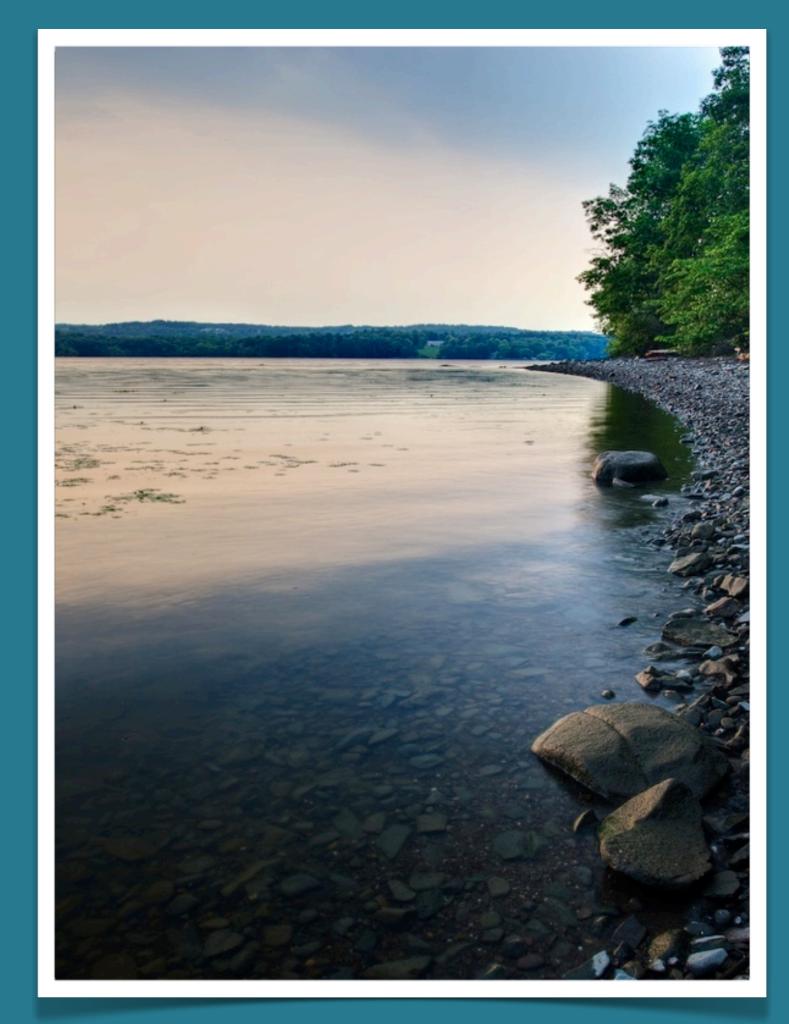




COASTAL HAZARDS AND CLIMATE CHANGE

THE HUDSON RIVER A COASTAL, TIDAL RIVER

- ► The Hudson River is an arm of the Atlantic Ocean
- The river tidal to the federal dam in Troy
- All of the Hudson's shorelines are subject to coastal hazards



COASTAL HAZARDS

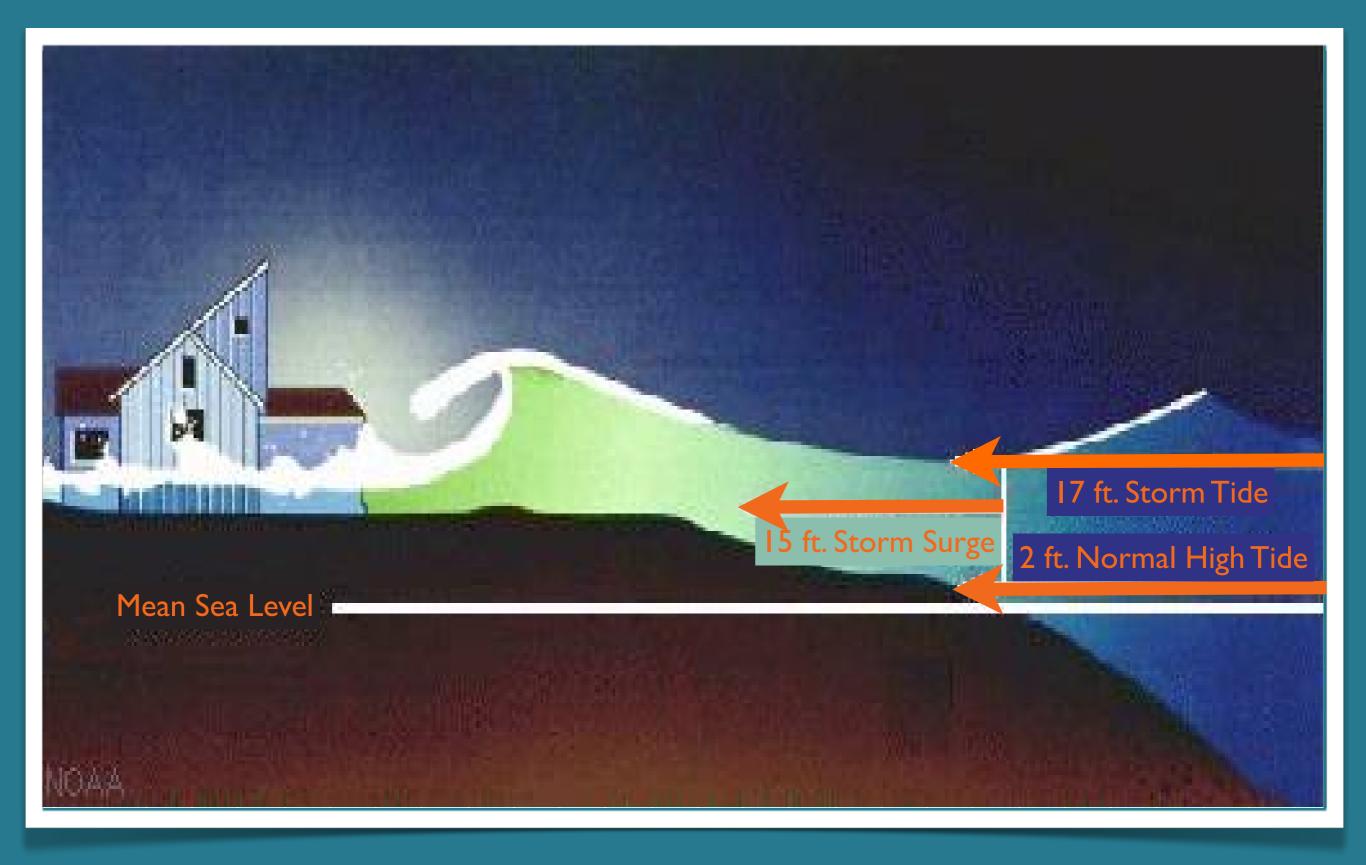
- ► INUNDATION
- ► EROSION
- ► FRESHWATER TRIBUTARY FLOODING







COASTAL HAZARD:Coastal Inundation



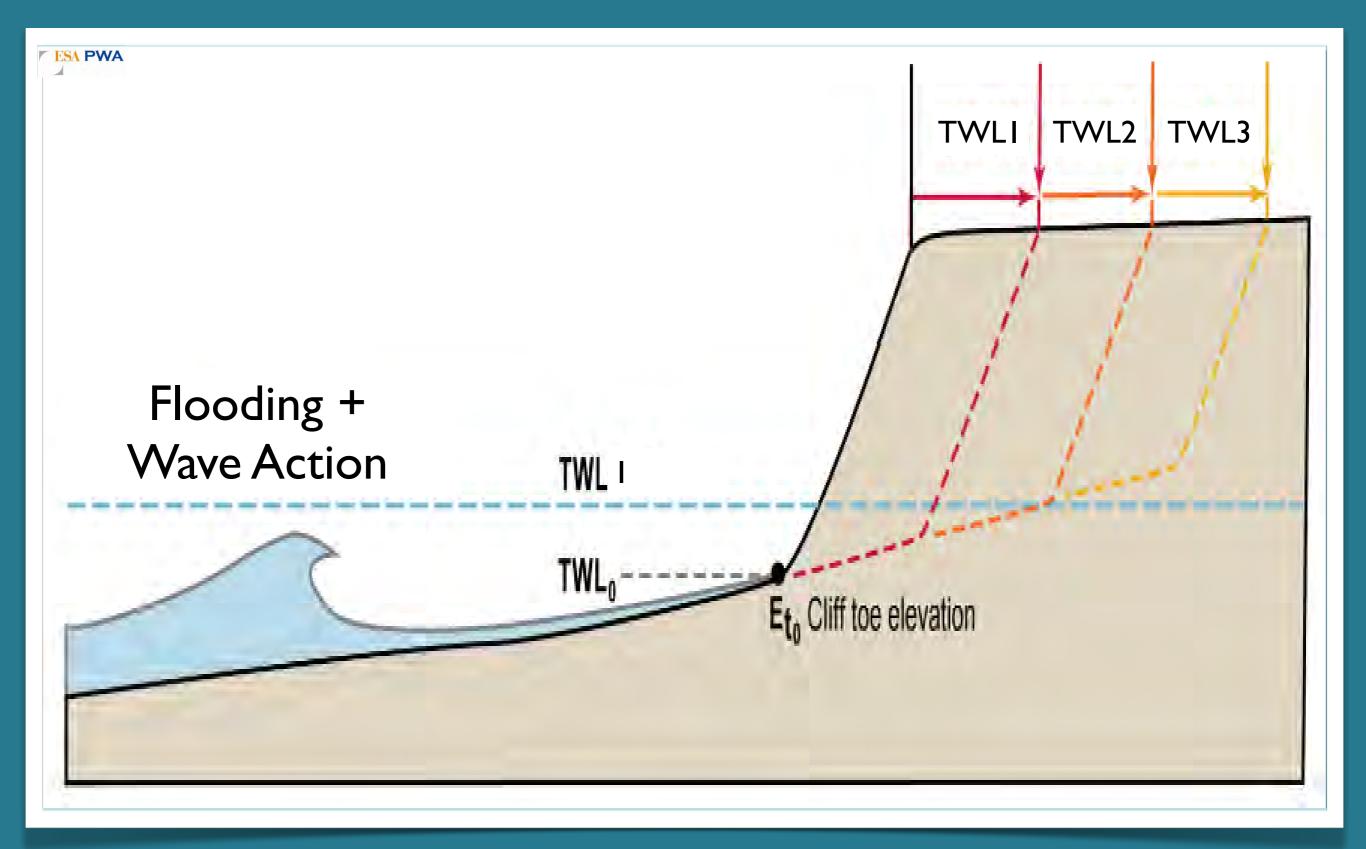


COASTAL HAZARD:Coastal Inundation





COASTAL HAZARD: Coastal Erosion





COASTAL HAZARD:Coastal Erosion





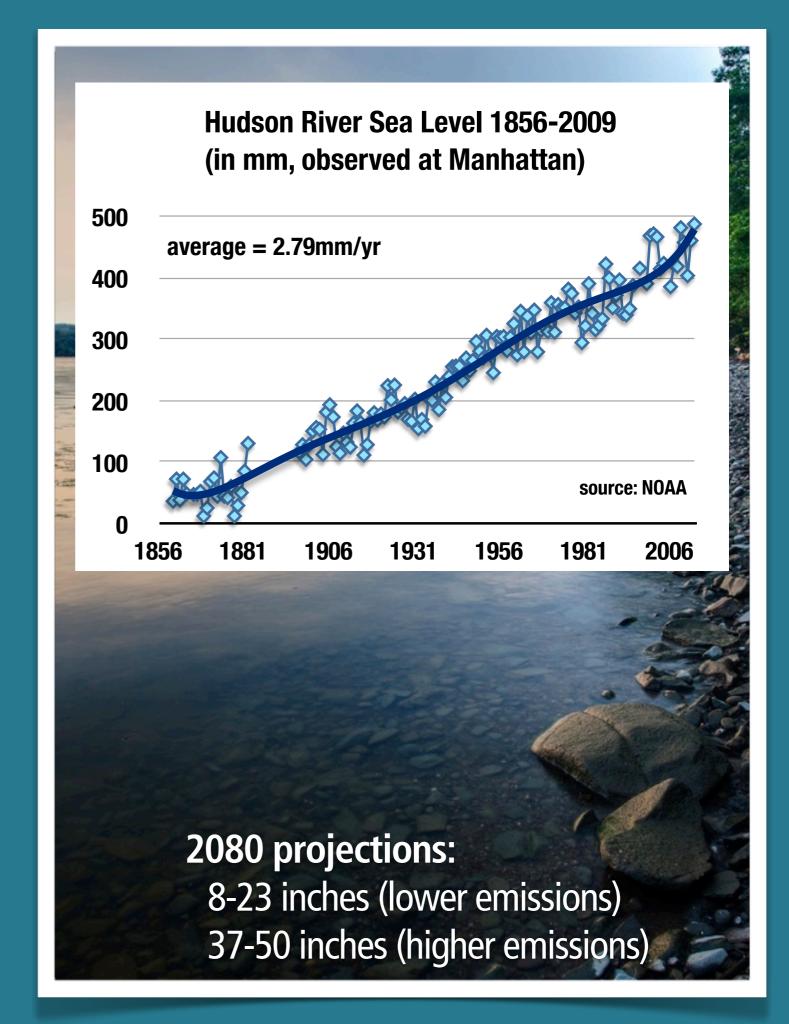
COASTAL HAZARD:Freshwater Tributary Flooding





CLIMATE CHANGESEA LEVEL RISE

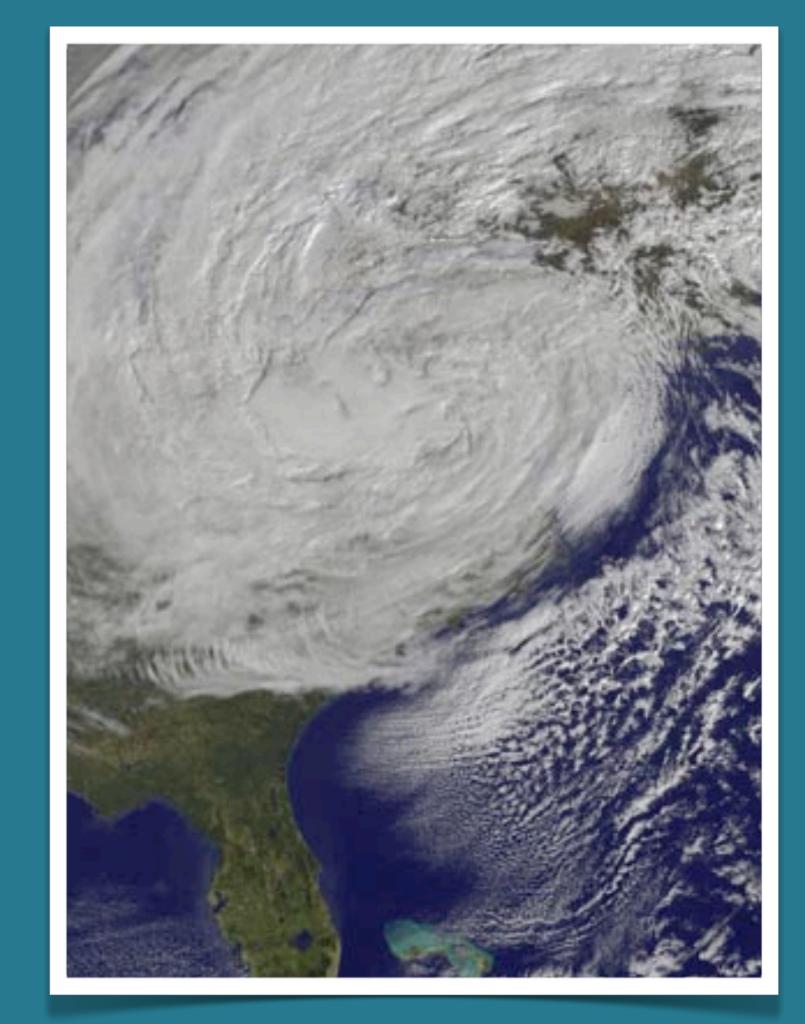
- Sea level is 1' higher than 100 years ago
- Rate of sea level rise is accelerating
- Up to 50 inches of sea-level rise by 2080





CLIMATE CHANGESTORM SURGE EVENTS

- Number or frequency of events: trend unclear
- Higher intensity events
- Greater frequency of surge events in warmer years



CLIMATE CHANGE PRECIPITATION REGIME

- Sea level is 1' higher than 100 years ago
- Rate of sea level rise is accelerating
- Up to 50 inches of sea-level rise by 2080

OUR WORK IN A CHANGING CLIMATE

changing, "flashier" moist regime



