

# Maximum Erosion Hazard Potential Due To Catastrophic Events

Cape Lookout State Park  
Core Development Area

Adapted From DOGAMI Open File Report O-01-03



Nature  
History  
Discovery



Date of Aerial Photo 2005

### High Hazard - 50-Year Storm:

- 47.6 ft. significant wave height.
- 17 second peak wave period.
- 7.55 ft. mean higher high tide.
- 1.31 ft. monthly mean water level.
- 3.28 ft. storm surge.

### Moderate Hazard - 100-Year Storm:

- 52.5 ft. significant wave height.
- 20 second peak wave period.
- 7.55 ft. mean higher high tide.
- 1.31 ft. monthly mean water level.
- 5.58 ft. storm surge.
- 1.31 ft. sea level rise.

### Low Hazard - 100-Year Storm + earthquake:

- 52.5 ft. significant wave height.
- 20 second peak wave period.
- 7.55 ft. mean higher high tide.
- 1.31 ft. monthly mean water level.
- 5.58 ft. storm surge.
- 1.31 ft. sea level rise.
- 3.28 ft. lowering of coast due to earthquake.



0 100 250 Feet



### LEGEND

- 2009 shoreline
- Lines representing maximum expansion of active erosion hazard zone triggered by catastrophic event:
- High Hazard - 50 year storm
- Moderate Hazard - 100 year storm
- Low Hazard - 100 year storm + earthquake