Coastal Hazard Model Results
for Southern California

These coastal hazard modeling results were developed to help communities identify vulnerabilities and support planning decisions for impacts associated with sea level rise, storm surge, and coastal flooding. Models account for local conditions and project impacts which are downscaled to the regional and local level. Results may be used to support updates to local coastal land use plans, hazard mitigation plans, general plans, climate action and adaptation plans, and other related adaptation or implementation projects.

Coastal Storm Modeling System, CoSMoS 3.0
Prepared by U.S. Geological Survey

- 40 combinations of sea level rise and storm scenarios to visualize flooding extent, depth, duration, and elevation, waves, currents, shoreline change, cliff erosion, and uncertainty.

Range:
Southern California

How to Access Results:

GIS Shapefiles:
https://www.sciencebase.gov/catalog/item/5633fea2e4b048076347f1cf

Interactive mapping tool on Our Coast, Our Future
by Point Blue Conservation Science:
http://beta.ourcoastourfuture.org/apps/ocof/cms/

Hazard Modeling and Vulnerability Assessment
Prepared by Environmental Science Associates

- Hazard zone assessments for sandy shoreline erosion, cliff erosion, coastal storm flooding, and extreme monthly tidal flooding.
- Vulnerability assessment of ecosystem and infrastructure assets potentially exposed to coastal hazards.

Shoreline Change Projections
Prepared by TerraCosta Consulting Group

- Short-term shoreline position change driven by waves and long-term shoreline position change driven by sea level rise.

Range:
Los Angeles County

How to Access Results:

Final Reports and GIS Shapefiles:
http://dornsife.usc.edu/uscseagrant/adaptla/

Interactive mapping tool on Climate-Smart Cities
by The Trust for Public Land:
https://web.tplgis.org/LosAngeles_CSC/secure/viewer/

- Username: AdaptLa
- Passcode: AdaptLaPass123