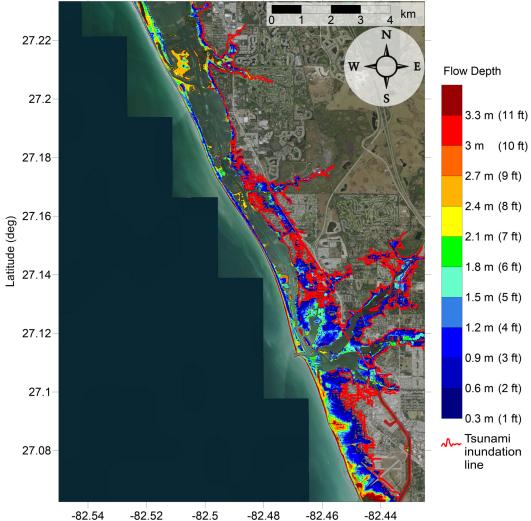
## **Tsunami Inundation Map Osprey-Venice**



-82.52 -82.5 -82.48 -82.46 Longitude (deg)

# MAXIMUM ESTIMATED **TSUNAMI INUNDATION**

### State of Florida - Osprey-Venice

## METHOD OF PREPARATION

**DETACD OF PREPARATION** Tsynami modeling was performed by the Tsynami Research Group at Texas A&M University at Galveston, funded by the National Tsynami Hazard Mit-ford TSUNAMISD (Horrillo et al., 2013) to model landslide-generated tsynamics, cou-generation phase (TSUNAMISD) used a 15 arc-second (~450m) resolution grid with bathymetry obtained from the National Oceanic and Atmospheric Administration (NOAA) National Geophysical data Center (NGC) Coasta Galding Mathematical (NEWAYE) (Some State of the State and State (TSUNAMISD) used a 15 arc-second (~450m) resolution prior (State State) (NoAMISD) used a 15 arc-second (~450m) resolution for find form 15 arc-second (~400m) tesolution. The propaga-tion/inundation modeling phase (NEOWAYE) consisted of a series of nested prids from 15 arc-second (~450m) to 1/3 arc-second (~450m) resolution prids were obtained from NOAA NGDC CRM. Near-shore grids with a 3 arc-field Model (DERM) with 3 arc-second (~450m) resolution prids were obtained from NOAA NGDC CRM. Near-shore grids with a 3 arc-field model to Bate I Elevation Models (DEW) with 1/3 arc-second (~450m) resolution and were adjusted to 'Mean High Water' sea level conditions, and mundation Digital Elevation Models (DEW) with 1/3 arc-second (~450m) resolution and were adjusted to 'Mean High Water' sea level conditions, and near the second second to the second second (mean High Water') sea level conditions and mean and the second (mean High Water') sea level conditions, and near the second second to 'Mean High Water') sea level conditions, and mean the second second to 'Mean High Water') sea level conditions, and the second (mean High Water') sea level conditions, and mean the second second to 'Mean High Water') sea level conditions, and mean the second to 'Mean High Water') sea level conditions, and the second to 'Mean High Water' sea level conditions, and the second to 'Mean High Water') sea level conditions, and the second to 'Mean High Water') sea level conditions, and the second to 'Mean High Water') sea level

Local submarine landslides are considered to be the primary potential source of tsunami generation in the Gulf of Mexico (ten Brink et al., 2009). A suite of nine tsunami source events was used for tsunami modeling, including five identified ancient events (ten Brink et al., 2009 and Chaytor et al., 2016) and four synthetic probabilistic submarine landslides (PSL-A, PSL-B1, PSL-B2, PSL-C) which represent the maximum credible events that could occur in specific regions in the Gulf of Mexico according to the local bathymetry, seafloro slope, and sediment information (Pampell-Manis et al., 2016). The location of these sources is indicated in the adjacent table.

The accuracy of the flow depth and inundation line shown on this map is sub-ject to limitations including accuracy of available bathymetry/topography data, tsunami source information, and the current scientific understanding of tsunami generation and propagation as expressed in the models. This map represents the composite maximum inundation from all nine tsunami sources considered here and does not represent inundation from a single tsunami event.

#### REFERENCES

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Tsunami Sources Modeled for the Osprey-Venice coastline

LOCAL LANDSLIDE SOURCES GULF OF MEXICO		LOCATION (Deg)
Historical	East Breaks	Long: -95.68 Lat: 27.70
	Mississippi Canyon	Long: -90.00 Lat: 28.60
	West Florida	Long: -84.75 Lat: 25.95
	Yucatan #3	Long: -90.07 Lat: 23.00
	Yucatan #5	Long: -89.80 Lat: 23.54
Probabilistic	PSL-A	Long: -94.30 Lat: 27.98
	PSL-B1	Long: -91.56 Lat: 28.05
	PSL-B2	Long: -91.01 Lat: 26.17
	PSL-C	Long: -87.20 Lat: 28.62





#### INTENDED USE

This tsunami inundation map was prepared to assist lo-cal emergency management in identifying their tsunami hazard. It is intended for local jurisdictional, coastal evac-uation planning uses only. This map is not intended for site-specific or land-use purposes or regulations.

This inundation map has been compiled with the best currently available scientific information. The inundation line represents the maximum considered tsunami runup from a number of maximum credible tsunami sources, thus all of the inundation seen in a particular area will not likely be inundated during a single tsunami event. However, actual conditions during a tsunami may vary, so the accuracy of the inundation shown here cannot be guaranteed. Although an attempt has been made to iden-tify a credible upper bound to inundation at any location along the coastline, it remains possible that actual inun-dation could be greater in a major tsunami event. This map is intended to portray the worst case scenario and does not provide any further information about the re-turn periods of the events studied here. Interpretation of this tsunami inundation map by qualified individuals is strongly recommended.

#### MAP BASE

Topographic base map obtained from the ArcGIS World Imagery database, exported with a resolution of approximately 1/3 arc-seconds ( ${\sim}10{\rm m})$ . Tsunami inundation line boundaries may reflect updated digital topographic data that can differ significantly from contours shown on the base map

#### DISCLAIMER

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