METHOD OF PREPARATION

Tsunami modeling was performed by the Tsunami Research Group at Texas A&M University at Galveston, funded by the National Tsunami Hazard Mitigation Program. The tsunami modeling process utilized the 3D model TSUNAMI3D (Horillo et al., 2013) to simulate 30 substantial tsunami sources, including nine historical tsunami sources and four synthetic probabilistic submarine landslides (PSL-A, PSL-B1, PSL-B2, PSL-C) which represent the maximum credible events identified in the Gulf of Mexico. These events were identified by the National Tsunami Hazard Mitigation Program (NTHMP) and Texas A&M University at Galveston. The tsunami modeling process utilized the 3D model TSUNAMI3D (Horillo et al., 2013) to model landslide-generated tsunamis, coupled with the 2D model NEOWAVE (Yamazaki et al., 2008) which calculates wave propagation and detailed runup for inundation mapping. The tsunami inundation map was compiled with the best available scientific information. The inundation map represents a credible upper bound to inundation at any location along the coastline, it remains possible that actual inundation 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 return periods of the events studied here. Interpretation of this tsunami inundation map by qualified individuals is strongly recommended.

INTENDED USE

This tsunami inundation map was prepared to assist local emergency management in identifying their tsunami hazard. It is intended for local jurisdictional, coastal evacuation 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 identify a credible upper bound to inundation at any location along the coastline, it remains possible that actual inundation 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 return periods of the events studied here. Interpretation of this tsunami inundation map by qualified individuals is strongly recommended.

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MAP BASE

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