

**MODEL PREDICTIONS OF GULF AND ATLANTIC COAST TSUNAMI
IMPACTS FROM A DISTRIBUTION OF SOURCES**

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ABSTRACT

The West Coast and Alaska Tsunami Warning Center now issues tsunami warnings for the Gulf and Atlantic coasts. Because there is less historical data for these regions than for the Pacific, numerical models have been used to make predictions of wave amplitudes, travel time, and “reach”. Hypothetical wave sources have been placed in the Atlantic, the Gulf of Mexico and in the Caribbean; with the resulting waves modeled twelve to twenty-four hours forward in time. Model results will be discussed with regard to development of tsunami warning procedures. A natural separation of tsunami warnings into Gulf and US/Canadian Atlantic coast procedures is described.