

GRAPHICAL DEPICTION OF THE ECONOMIC EFFECTS OF FISHERY MANAGEMENT MEASURES

Monica Galligan, California State University Monterey Bay

This GIS-based interactive model is designed to increase fishery stakeholders' engagement and supports fishery managers' decisions by displaying long-term economic impacts of potential fishery regulations on fishing communities.

The product will advance managers' ability to adhere to federal law, specifically, to fulfill the parallel requirements of National Standard 8 of the Magnuson Stevens Fishery Conservation and Management Act, which mandates that conservation and management measures "minimize adverse economic impacts on [fishing] communities" to the extent practicable.

Based on trade data about the fishery sector and other industry sectors from local, national and international sources, the model applies economic and GIS methods to construct matrices connected to maps that depict likely short and long term economic effects of a suite of potential regulations under consideration along the west coast of the US by the National Marine Fisheries Service.

The model is built to accept updates to the underlying data, in order to maintain its utility on an ongoing basis.