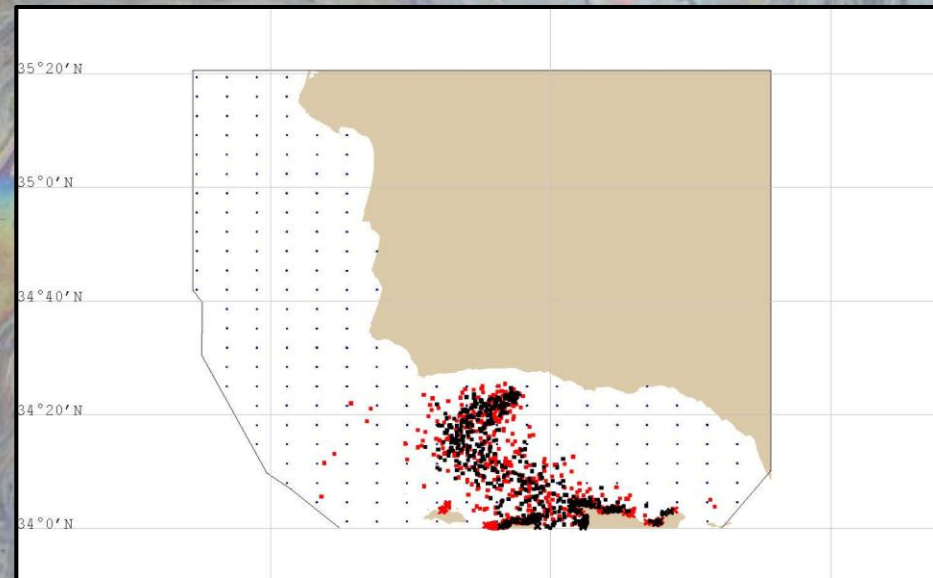


Supporting Conventional Energy - 2013

Discipline	Title	Rank
PO	<u>Expansion of West Coast Oceanographic Modeling Capability</u>	8
Needed now for worst case discharge analyses		

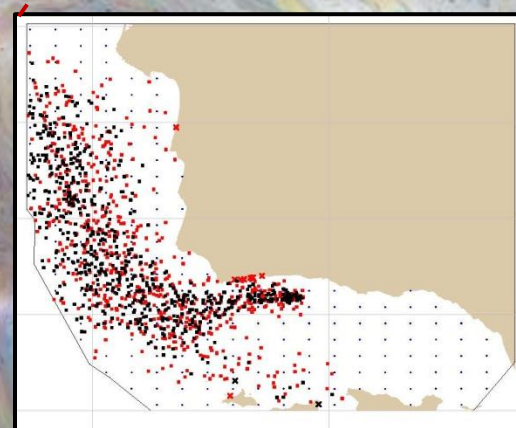
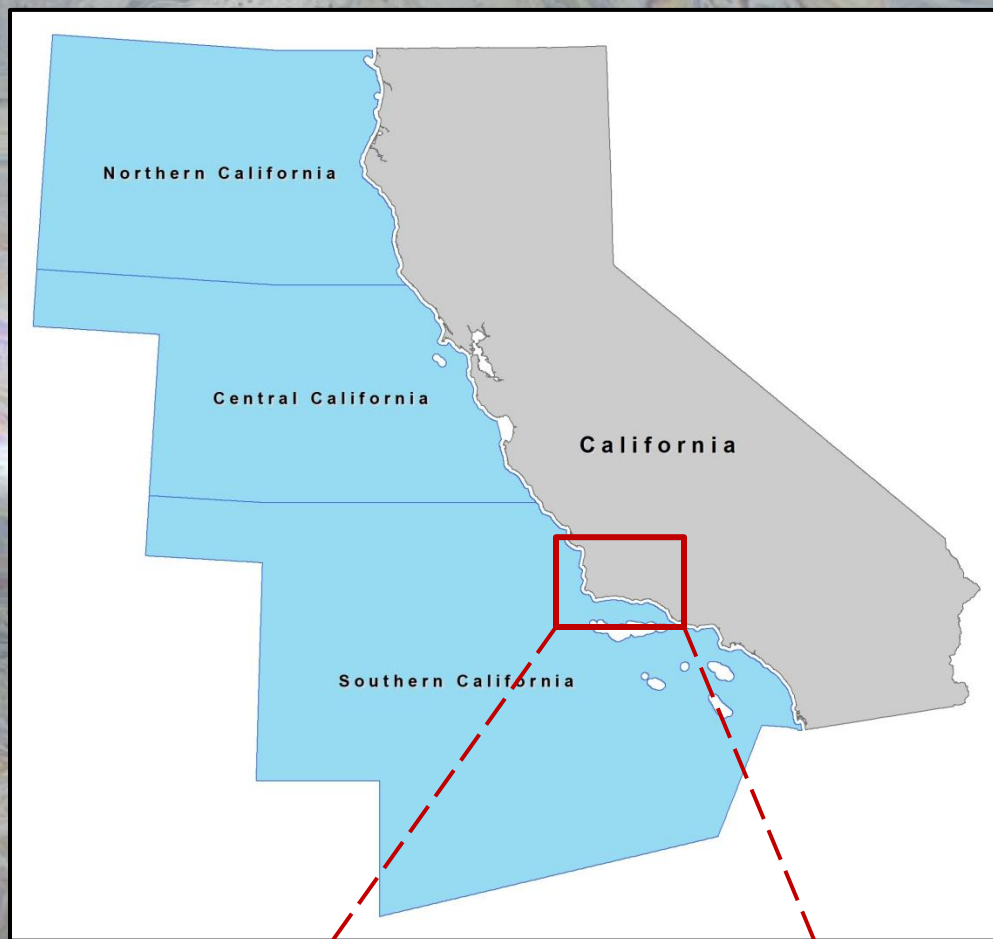


BOEM Information Need:

Expanding oceanographic modeling capability for oil and gas across southern California would increase the precision of oil spill modeling and risk analyses.

Relationship to Previous BOEM-Supported Research:

Updates and adds to the Santa Barbara Channel Circulation studies from the 1980's & 1990's.



OBJECTIVES

- 1) Expand the geographic area that BOEM Pacific Region is able to examine for oil and gas risk analyses
- 2) Provide more up-to-date and accurate data for oil spill models

METHODS

- 1) Run a multi-year hindcast re-analysis of winds, waves and currents along the coast of California;
- 2) Winds: calculated at high horizontal and temporal resolution and validated using existing data sets;
- 3) Waves: forced by the wind model results and validated through in situ measurements;
- 4) Circulation: run at high resolution. Includes: temperature, salinity, currents, in situ data and forced by hindcast wind model results.