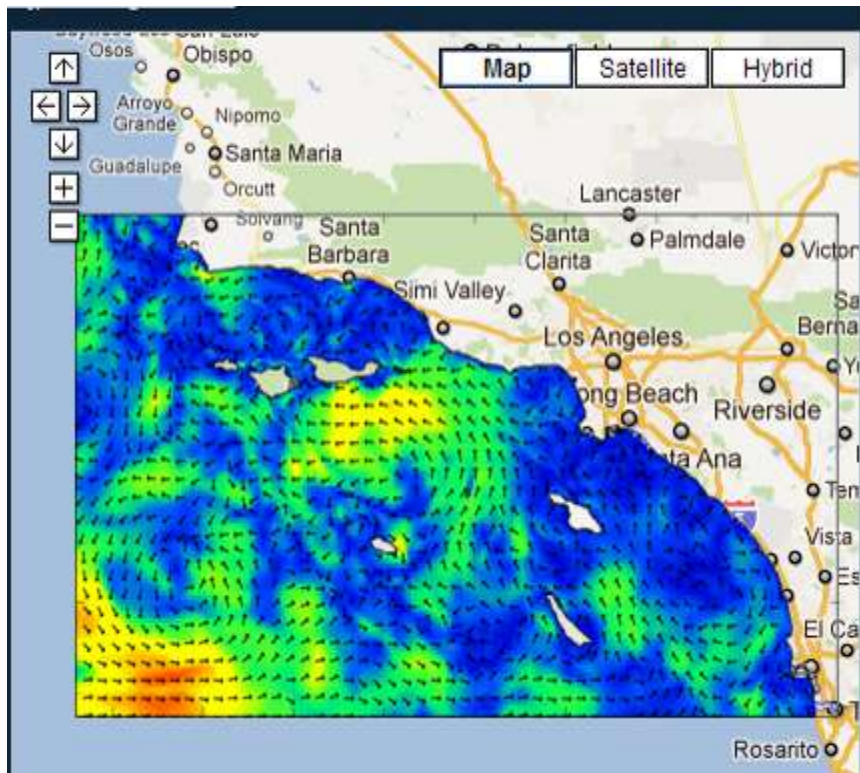


Models # FTEs	AO	CARI	CeN	GC	GLOS	MARA	NAN	NERA	PACI	SCC	SEC
Waves											
Ocean circulation											
Atmospheric											
NPZD / Fisheries / Ecosystem											
Inundation											
Water quality											
Sediment transport											
Hydrological											
Estuary											
STPS											
Rip currents											

Common Elements of Regional OOS: Models

Although listed separately here, many of these model types are now, or soon will be, coupled.



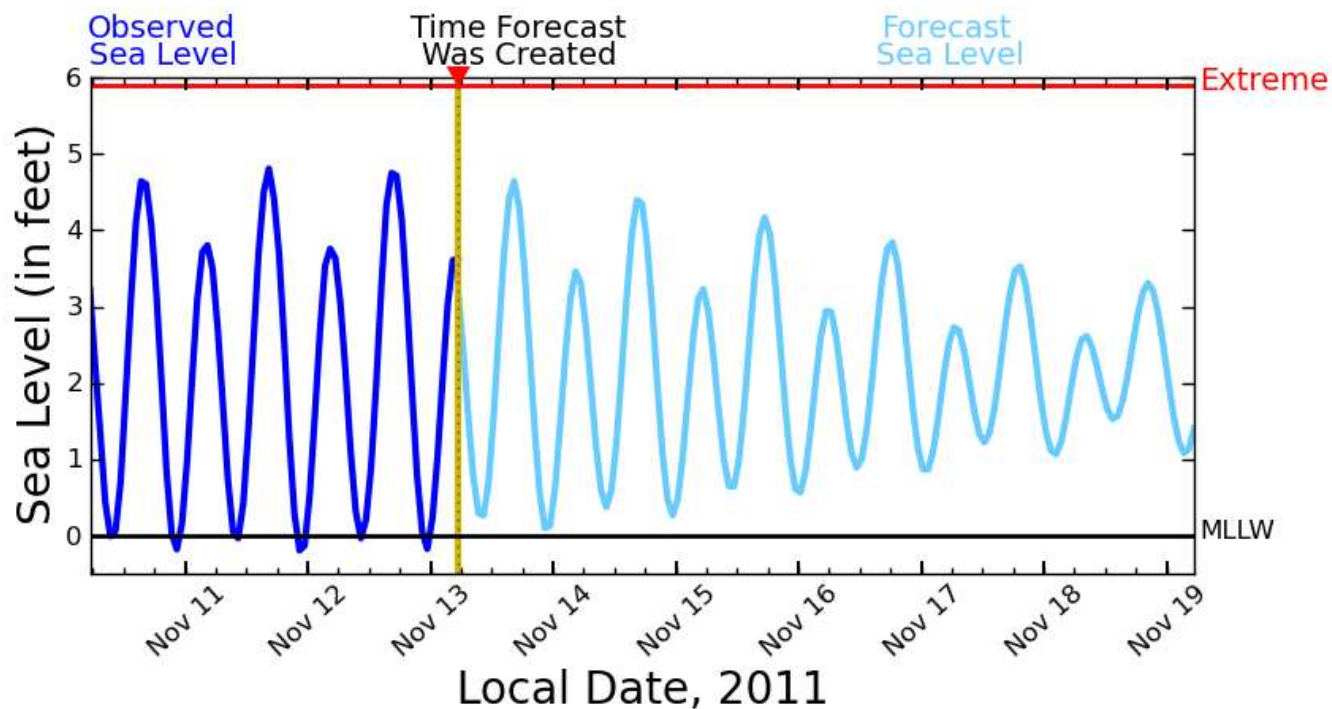
SCCOOS/JPL ROMS Surface Currents

11/11/11 0900

- Waves
- Circulation
 - currents, sea level height, temperature, salinity, density
- Atmospheric
- NPZD / Ecosystem
- Inundation
- Water Quality

Some Region-Specific Models

- AK: Ice trajectory forecasts
- GMex: Hurricane
- Pac: Tide
(maybe because NOS is doing this for the other regions?)



Tidal Sea Level
Forecast

Kwajalein Atoll,
Marshall Islands

Innovative/Uncommon Models

- GL: HABs – weekly forecast for Microcystis blooms
- NE: Hydrological – Gulf of Maine Watershed Information and Characterization System

Different Regional Approaches to Models

- Primarily use results from models run by other organizations
- Act primarily as a resource to model developers and operators
- Support regional model development, but transition “operational” models to other organizations
- Implement and operate models within the RCOOS
- Support research, development, and operation of models
- Different approaches might be used within one region for different size geographic domains, or different spatial scales

IOOS Coastal Modeling Testbed

- Goal: accelerate the transfer of research and development to improve *operational* coastal ocean modeling
- Primarily focused on the East and Gulf Coasts at this time
- Coastal Waves, Surge, and Inundation
- Shelf Hypoxia
- Estuarine Hypoxia
- Cyber Infrastructure

Discussion Questions

- What are the commonalities among the regions in terms of their modeling efforts?
- What should the role of RAs be in regional modeling, including their involvement in research and development, operations, and partnering with other organizations?
- Are there potential synergies among regional modeling efforts?
- What is the relationship between regional and national modeling efforts?
- How should models be addressed in the synthesis document?
- What are the next steps needed to move the synthesis forward?