

# ANNUAL STATE OF THE CALIFORNIA CURRENT REPORT

The California Current Integrated Ecosystem Assessment (CCIEA) team and the Pacific Fisheries Management Council's Ecosystem Plan Development Team (EPDT) prepared a report on the state of the California Current and submitted the report at the Council's request for its November 2012 meeting. The document summarized and synthesized key environmental, biological and socio-economic indicators in the California Current Ecosystem (CCE). These indicators represented information and data commonly and widely associated with changes in physical and biological conditions throughout the CCE, and within the North Pacific more generally, and were based on the best available scientific research. They were intended to be informative with respect to environmental or socio-economic conditions that affect the productivity or distribution of managed fish populations and their associated fisheries

## Basin-Scale Climate Indicators

- Multivariate El Niño/Southern Oscillation (ENSO) Index (MEI)
- Pacific Decadal Oscillation (PDO)
- North Pacific Gyre Oscillation (NPGO)

## Regional Climate and Lower Trophic Level

- Regional upwelling anomalies
- Dissolved oxygen levels and hypoxic events
- Northern copepod biomass anomaly
- Copepod species richness off Washington and Oregon

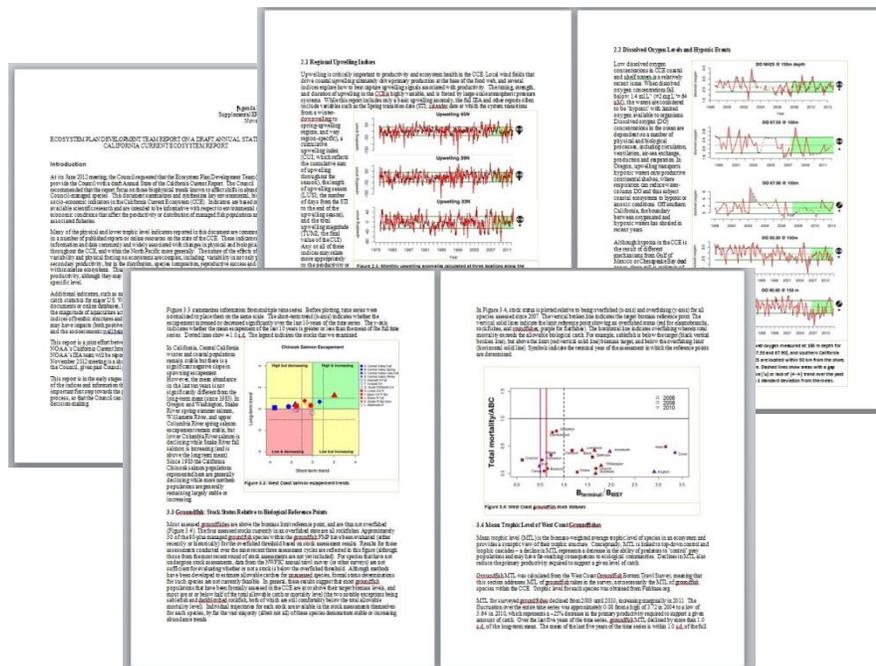
## Regional Biological Higher Trophic Level

- Coastal pelagic species: anchovy, sardine, and forage diversity
- Chinook salmon abundance
- Groundfish stock status relative to biological reference points
- Mean Trophic Level of West coast groundfishes
- California sea lion pup production

## Human Dimension

- Total landings by major fisheries
- Aquaculture production and seafood demand trends
- Fleet diversity indices
- Trends in benthic structures, shipping activity, nutrient input and offshore oil and gas activity

For 2014 and beyond, the Council requested that the CCIEA team continue to submit similar reports on an annual basis (prior to their March meetings) as way to advance ecosystem-based fishery management in the Council process by better understanding the key environmental, biological, and socio-economic indicators and drivers in the California Current



from Annual State of the California Current Report (2012), Agenda Item K.3.a. Supplemental EPDT Report November 2012