What is the OPC-SAT

The Ocean Protection Council Science Advisory Team (OPC-SAT) was established in 2008 and collectively provides the expertise needed to assist the OPC in meeting the purposes of the California Ocean Protection Act (COPA).

The OPC-SAT is composed of up to 27 esteemed interdisciplinary scientists along the West Coast and beyond, and offers a critical venue to bring state leaders and scientists together around pressing ocean and coastal challenges. The OPC-SAT takes on a range of topics with emphasis on state priorities to address issues impacting coastal and marine ecosystems in California.

The OPC calls upon Ocean Science Trust to coordinate the OPC-SAT in order to ensure the best available science is applied to the Council’s policy decisions and recommendations.

The OPC-SAT members engage in four principal work modes:

1. Expert Panel
2. Working Group
3. Advisory Committee
4. Review Team
5. Expert Task Forces
6. Individual SAT member engagement

Delivering the best available science

The OPC-SAT comes together as a whole at least once per year in an in-person workshop. These workshops bring together OPC-SAT members, and decision-makers across the spectrum to share information and updates, discuss priorities, launch new initiatives, or hold technical workshops on specific questions.
### Ocean Acidification and Hypoxia (OAH)

**2013-2016 / Expert Panel**

Documents produced:
- Executive Summary: "Major Findings and Recommendations"
- Appendices (9)
- Technical Guidance (4)
- Foundational Science (4)

The West Coast OAH Science Panel redefined the OAH issue, recognizing the multifaceted nature of the problem and solutions. In 2016, CA legislature passed AB 2139 & SB 1363 to implement the Panel’s recommendation and engage a new Science Task Force.

### Rising Seas in California

**2017 / Working Group**

"Rising Seas in California: an Update on Sea-Level Rise Science”

An update of the “State of California Sea-level Rise guidance document” (initially adopted in 2010 and updated in 2013), to reflect recent advances in ice loss science and projections of sea-level rise. The updated guidance was approved at OPC meeting in March 2018.

### Sustainable Fisheries

#### Climate Change and CA Fisheries

**2016 - 2017 / Working Group**

"Readying CA fisheries for climate change”

This working group provided scientific guidance to CDFW regarding the potential impacts of climate change on California fisheries and recommendations for building resilience to buffer climatic forces. This document served as a resource to inform the amendment of the Marine Life Management Act (MLMA) Master Plan.

#### Marine Protected Areas

**2017 / Working Group**

"A Framework for Informing Permitting Decisions on and Scientific activities in MPAs”

This report presented a quantitative, ecologically-based decision framework to estimate the impacts of scientific research with the goal of facilitating scientific permitting decisions in California’s newly established network of MPAs.

#### Review of Spiny Lobster FMP

**2015 / Review Team**

"Scientific review of the reference point thresholds prescribed in the draft Fishery Management Plan for California Spiny Lobster”

#### Red Abalone Review

**2014 / Review Team**

"Scientific and Technical Review of the Survey Design and Methods Used by the California Department of Fish and Wildlife to Estimate Red Abalone (Haliotis rufescens) Density”

### Impacts from the land on the coasts and ocean

#### Mitigation of CA coasts

**2015-2016 / Working Group**

This working group worked with local managers to explore mitigation strategies in response to a range of environmental disasters (e.g. oil spills) and coastal development activities (e.g. desalination plants and once-through cooling) and broader environmental impacts (such as climate change).

#### Harmful Algal Blooms (HABs)

**2016 -2017 / Working Group**

"Framing the Scientific Opportunities on Harmful Algal Blooms and California Fisheries: Scientific Insights, Recommendations and Guidance for California”

Produced in response to the 2015-16 domoic acid event on the West Coast that impacted major CA fisheries. This report highlighted several key characteristics of the 2015 Pseudo-nitzschia bloom as representative of a particularly high-impact HAB event.