

## ALEX HARPER

Central and Northern California Ocean Observing System  
California Polytechnic State University - Humboldt  
Phone: (707) 826-3703

### EDUCATION

- 2016 Ph.D. Chemical Oceanography, Florida State University  
Department of Earth, Ocean, and Atmospheric Sciences  
Dissertation: *Mercury Cycling in the Northern Gulf of Mexico*
- 2012 M.S. Aquatic Environmental Science, Florida State University  
Department of Earth, Ocean, and Atmospheric Sciences  
Thesis: *Methylmercury Bioaccumulation Pathways in Florida Big Bend Seagrass Habitats.*
- 2006 B.A. Public Policy Studies, American University, Washington, DC

### PROFESSIONAL EXPERIENCE

- Deputy Director, Central and Northern California Ocean Observing System 2024  
California Polytechnic State University Humboldt
- Climate Resilience Specialist 2023  
California Sea Grant  
University of California, San Diego
- Program Manager, Central and Northern California Ocean Observing System 2018  
Monterey Bay Aquarium Research Institute
- Program Analyst, U.S. Integrated Ocean Observing System 2017  
National Oceanic and Atmospheric Administration
- National Sea Grant Knauss Marine Policy Fellow 2016  
National Oceanic and Atmospheric Administration
- Research Assistant, National High Magnetic Field Laboratory 2012  
National Science Foundation
- Research Associate, Water Science Center 2010  
United State Geological Survey

### PEER REVIEWED PUBLICATIONS

Ruhl HA, Brown JA, **Harper AR**, Hazen E, deWitt L, Daniel P, DeVogelaere A, Kudela RM, Ryan JP, Fischer AD, Chavez FP, and Muller-Karger FE (2020) Integrating biodiversity and environmental observations in support of National Marine Sanctuary and Large Marine Ecosystem assessments. *Oceanography. In review.*

Snowden J, Hernandez D, Quintrell J, **Harper A**, Morrison R, Morell J and Leonard L (2019) The U.S. Integrated Ocean Observing System: Governance Milestones and Lessons From Two Decades of Growth. *Front. Mar. Sci.* 6:242. doi: 10.3389/fmars.2019.00242

Cross JN, Turner JA, Cooley SR, Newton JA, Azetsu-Scott K, Chambers RC, Dugan D, Goldsmith K, Gurney-Smith H, **Harper AR**, ... (2019) Building the Knowledge-to-Action Pipeline in North America: Connecting Ocean Acidification Research and Actionable Decision Support. *Front. Mar. Sci.* 6:356. doi: 10.3389/fmars.2019.00356

**Harper, A,** Landing, W & Chanton, JP. Estuaries and Coasts (2018) Controls on the Variation of Methylmercury Concentration in Seagrass Bed Consumer Organisms of the Big Bend, Florida, USA. 41: 1486. <https://doi.org/10.1007/s12237-017-0355-6>

**Harper, A,** Perrot, V, Chanton, J., Landing, W, Salter, V (2015) Using mercury (Hg) stable isotopic composition to investigate the Deepwater Horizon oil spill impact on Hg levels of Greater Amberjack (*Seriola dumerili*) and two species of eels (*Ophichthus rex* and *Synaphobranchus oregoni*) in the Northern Gulf of Mexico. *MagLab Reports*, 22:2, 43-45.

#### **MARINE POLICY PUBLICATIONS**

Advancing Ocean Observation in Central and Northern California: CeNCOOS Strategic Plan (2020-25). Moss Landing, CA, November 2020.

U.S. IOOS Enterprise Strategic Plan (2018-22). Approved by the U.S. Department of Commerce. Silver Spring, MD, February 2018.

Fourth Report on Federally Funded Ocean Acidification Research and Monitoring Activities. Product of the National Science and Technology Council. Washington, D.C., December 2016.

#### **PRESENTATIONS – SELECTED EXAMPLES**

Ocean Observations for Integrated Ecosystem Assessments: A Regional Collaborative, 2020 SACNAS. Remote.

Advancements in Ocean, Coastal and Estuarine Observations in Central and Northern California, 2020 PICES. Remote.

Understanding Aquaculture Impacts and Stakeholder Needs in a Changing Ocean, 2019 Moss Landing Marine Laboratories Aquaculture Seminar. Moss Landing, CA.

Integrating Biological, Ecological, and Biogeochemical Observations in Central and Northern California, 2018 PICES. Yokohama, Japan.

Economic Risks & Benefits to California Aquaculture Expansion Informed by Ocean Acidification and Hypoxia Monitoring, 2018 Pacific Coast Shellfish Growers Association. Blaine, WA.

A New Strategy for the U.S. Integrated Ocean Observing System: Charting a Path for the IOOS Enterprise. 2017 IOOS Association Spring Meeting. Washington, DC.

#### **MEMBERSHIPS**

IOOS Equitable Service Delivery, National coordination team  
Climate Friendly Fisheries, Advisor  
OCB mCDR Node – California Current System, Co-lead  
California Current Acidification Network (C-CAN), Coordinator  
PICES Monitor and NPCOOS Technical Expert Group Member  
West Coast Ocean Alliance/Ocean Data Portal  
U.S. West Coast Integrated OAH Monitoring Task Force  
National HAB Observing Network  
Alaska Ocean Acidification Network  
Women’s Aquatic Network (WAN)

#### **Awards/Acknowledgements**

- John A. Knauss Marine Policy Fellowship/NOAA Sea Grant
- Gulf of Mexico Research Initiative Scholar/ GOMRI Research Board
- Graduate Research Award/Florida State University