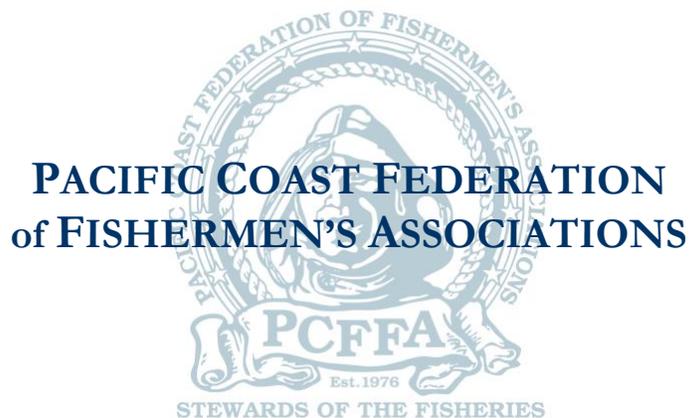


George Bradshaw  
*President*  
Larry Collins  
*Vice-President*  
Lorne Edwards  
*Secretary*  
Lori French  
*Treasurer*



Noah Oppenheim  
*Executive Director*  
Glen H. Spain  
*Northwest Regional Director*  
Vivian Helliwell  
*Watershed Conservation Director*  
**In Memoriam:**  
Nathaniel S. Bingham  
Harold C. Christensen  
W.F. "Zeke" Grader, Jr.

**Please Respond to:**

**California Office**

P.O. Box 29370  
San Francisco, CA 94129-0370  
Tel: (415) 561-5080  
Fax: (415) 561-5464

[www.pcffa.org](http://www.pcffa.org)

February 7, 2020

**Northwest Office**

P.O. Box 11170  
Eugene, OR 97440-3370  
Tel: (541) 689-2000  
Fax: (541) 689-2500

TO: Dr. Anderson and Dr. Ruhl  
California's Ocean Observing Systems  
*Southern California Coastal Ocean Observing System*  
*Central and Northern California Ocean Observing System*

RE: Support for SCCOOS & CeNCOOS programs

Dear Dr. Anderson & Dr. Ruhl:

On behalf of the Pacific Coast Federation of Fishermen's Associations (PCFFA), I enthusiastically endorse the valuable data and services provided by the Southern California Coastal Ocean Observing System (SCCOOS) at the Scripps Institution of Oceanography, University of California San Diego and the Central and Northern California Ocean Observing System (CeNCOOS), at the Monterey Bay Aquarium Research Institute (MBARI).

PCFFA is a 501(c)(5) nonprofit trade association representing the commercial fishermen and women of the West Coast, advancing on their behalf the sustainability of the fishing way of life and the resources on which they depend. Our members rely on the data generated by SCCOOS and CeNCOOS every day to inform their fishing operations and improve the safety of their operations. The precise weather and oceanographic data generated by these programs as well as the research programs they lead provide a high degree of value as we explore the impacts of ocean warming to fisheries, including the factors that lead to harmful algal blooms that can close crustacean fisheries.

As a science-based decision support program, the California Ocean Observing Systems collaborate with local, state and federal agencies, resource managers, industry, policy makers, educators, scientists, tribes and the general public to provide data, models and products that advance our understanding of the current and future state of our coastal and global ocean. SCCOOS and CeNCOOS focus on high-priority regional requirements to provide the information necessary to address issues marine operations, coastal hazards, climate variability and change, and ecosystems, fisheries, and water quality.

I understand that SCCOOS and CeNCOOS are funded primarily by the National Oceanic Atmospheric Administration (NOAA). Sustained funding for SCCOOS and CeNCOOS is crucial to the maintenance of the region's ocean observing network and to the continuity of the important

data products and services that these observing systems enable. Please feel free to contact me if you have any questions.

Sincerely,

A handwritten signature in black ink, appearing to read 'Noah Oppenheim', with a stylized flourish at the end.

Noah Oppenheim  
Executive Director