CeNCOOS and SCCOOS Expression Of Interest Submission Form

Advancing California's Ocean Observing Systems (2021-2026)

Submission Deadline: July 8, 2020

* Required

1. Email *

2. 1. Project Title or Field of research *

3. 2. Lead Principal Investigator (Name, Affiliation, Email Address, Phone Number) *

4. 3. Co-investigators and collaborators (Names and Affiliations) *

5. 4. Geographic scope: What is the geographic region of your research? (select one) *

Check all that apply.

- [ ] Central and Northern California Ocean Observing System (CeNCOOS)
- [ ] Southern California Coastal Ocean Observing System (SCCOOS)
- [ ] State of California (CeNCOOS and SCCOOS)
- [ ] California Current System (West Coast)
- [ ] Other: _____

6. 5. Societal application: Which science or societal theme(s) are addressed by this project? (select all that apply) *

Check all that apply.

- [ ] Aquaculture and Fisheries
- [ ] Biodiversity and Ecosystem Health
- [ ] Climate Change and Variability
- [ ] Data Management and Cyberinfrastructure (DMAC)
- [ ] Education and Outreach
- [ ] Harmful Algal Blooms
- [ ] Information Products and Solutions (e.g. data dashboards, ocean health indicators, curated data views, bulletins)
- [ ] Modeling and Analysis
- [ ] Navigation and Commerce
- [ ] Ocean Acidification and Hypoxia
- [ ] Water quality (e.g. Pollution, Nutrients, Disease)
- [ ] Other: _____

7. 6. Infrastructure/Technology: What technology/infrastructure does your project use? (select all that apply) *

Check all that apply.

- [ ] Acoustics
- [ ] Animal-borne tags or sensors
- [ ] Autonomous Underwater Vehicle (AUV)
- [ ] Buoys and Moorings
- [ ] High-Frequency Radar (HFR)
- [ ] Imaging or Video
- [ ] LiDAR
- [ ] Models: Forecasts, Nowcasts, and Hindcasts
- [ ] Omics
- [ ] Optical sensors (Biogeochemistry)
- [ ] Profiling Floats or Drifters
- [ ] Remotely Operated Vehicles (ROV)
- [ ] Satellites (remote sensing)
- [ ] Ship-Based
- [ ] Shore Stations
- [ ] Unmanned Aerial Vehicles (UAV)
- [ ] Unmanned Surface Vehicles (USV)

Other: ☐ _____

8. 7. IOOS Core Variables: IOOS identified 34 core variables that represent the key properties and processes that should be measured at a national scale. What core variables does your project observe? (select all that apply) *

Check all that apply.

- [ ] Bathymetry
- [ ] Bottom character
- [ ] Currents
- [ ] Heat flux
- [ ] Ice distribution
- [ ] Salinity
- [ ] Sea level
- [ ] Surface waves
- [ ] Stream flow
- [ ] Temperature
- [ ] Wind speed and direction
- [ ] Acidity
- [ ] Colored dissolved organic matter
- [ ] Contaminants
- [ ] Dissolved nutrients
- [ ] Dissolved Oxygen
- [ ] Ocean color
- [ ] Optical properties
- [ ] Pathogens
- [ ] Partial pressure of CO2
- [ ] Total suspended matter
- [ ] Biological vital rates
- [ ] Coral species and abundance
- [ ] Fish species/abundance
- [ ] Invertebrate species and abundance
- [ ] Marine mammal species/abundance
- [ ] Microbial species/abundance/activity
- [ ] Nekton diet
- [ ] Phytoplankton species/abundance
- [ ] Sea birds species/abundance
- [ ] Sea turtles species/abundance
- [ ] Submerged aquatic vegetation species/abundance
- [ ] Sound
- [ ] Zooplankton species/abundance

Other: ☐ _____

9. 8. The Issue: What is/are the important oceanographic or societal challenge(s) being addressed by this work? How will this work improve understanding and response to these processes, drivers, and environmental changes? (1500 characters) *

10. 9. Meeting End-user Needs: Who are the stakeholders and end-users for this effort? Identify key users and explain how the data and/or product(s) will be made useful/usable for stakeholders. (1500 characters) *

11. 10. Goals and Methods: What are you proposing to do? How will the issue be addressed and what are the high-level goals? (1500 characters) *

12. 11. Objectives, outcomes, and deliverables: Describe your project aims and objectives. Use SMART (specific, measurable, achievable, realistic, and time-bound) objectives when possible. Provide a timeline or Gantt chart if possible. (3000 characters) *

Note: You can upload additional documents at the end of the submission form.

13. 12. Data Management and Cyberinfrastructure (DMAC) Plan: How will the data and information generated from the project be managed to ensure the data are FAIR (findable, accessible, interoperable, and reusable), timely, and high-quality? What DMAC requirements might be associated with the efforts you are proposing? Will this require additional DMAC investment? (3000 characters) *

14. 13. New Initiatives: If you are an existing PI please list any new initiatives you'd like to achieve in the next five-year award. This could include consideration of: (1) aging infrastructure; (2) advancing technologies; (3) product delivery (4) potential for leveraging and improving efficiencies. This can include a reference to additional PIs, institutions/NGOs, industry sectors, technologies/platforms, PIs, geographic scope, end-user applications, etc. (3000 characters)

    Note: You have the option to submit an additional EOI for new initiatives. If you are proposing a build-out, recapitalization, or significant expansion of one or more sub-systems (i.e. observations, DMAC, models, or products) please submit a separate EOI form

15. 14. Funding Request: What is your estimated annual funding request? At this time we do not need a detailed budget or budget justifications but are requesting how much you anticipate you will need annually to support your project. There is no funding cap for a single EOI, but keep in mind that RAs generally do not fund projects in excess of $300,000. Budgets that are statewide or cover a major subsystem can be higher. (1500 characters) *

16. 15. Additional: Any additional supporting information you'd like to include (e.g. references, other needs, partners).

17. Please upload additional documents here (e.g., Gantt chart, figures, tables).

    Files submitted: