



## 2022 Marine and Estuarine Grant Opportunities at Point Reyes National Seashore and Tomales Bay

### Applications due May 2, 2022

Each year, approximately 100 independent research projects are conducted within the boundaries of Point Reyes National Seashore and Tomales Bay. While these areas provide a natural laboratory for ecological and other scientific research, many of these projects also provide key information for the conservation and informed management of natural and cultural resources. We are pleased to [offer two grant competitions](#) this year to encourage partnerships with the research community, and support National Park Service (NPS) and Tomales Bay Watershed Council (TBWC) information needs:

1. **The Neubacher Fund for Marine Science at Point Reyes National Seashore** (PRNS) accepts requests of up to \$5,000 for marine research conducted in the immediate vicinity of PRNS and Tomales Bay (Between Bolinas and Tomales Point and up to ~5 km from shore). Studies that strive to understand long-term changes and patterns in marine and estuarine ecosystems are encouraged. We anticipate awarding two grants in 2022.
2. **The Tomales Bay Watershed Council Science Fund** will provide up to \$5,000 for proposals that addresses or advances one of the [Watershed Council's top 4 science priorities](#) which are (1) Understanding human use patterns in Tomales Bay, (2) Sea level rise mitigation, planning and management, (3) Understanding coho salmon habitat use in Tomales Bay, and (4) Long-term monitoring of eelgrass habitats. We will award 1-2 grants in 2022.

#### Proposals will be rated on the following factors:

- The proposal is sound and feasible in terms of time frame, access to National Park or natural area resources, and personnel.
- The proposal advances scientific knowledge of the region. TBWC proposals should address one of the 4 priority research areas listed above.
- The project deliverables are clearly articulated and appropriate in scope.

- The applicant is well qualified to undertake the proposed research. Graduate students, post-doctoral researchers, faculty, and other professional scientists are eligible to apply.
- The proposal is clearly written and complete.
- The budget appropriately maps onto project objectives and tasks.
- The proposed research addresses conservation or management needs.
- Educational opportunities for students and the public.
- Researcher will present findings at an appropriate local meeting or conference.

Prior to submitting a proposal, researchers should inquire with [ben.becker@nps.gov](mailto:ben.becker@nps.gov) about research needs, logistics, permitting, and subject matter contacts within NPS or the Tomales Bay Watershed Council. There is reasonable overlap in subject area for both grants, therefore you may use a single proposal to apply to both grant sources. We do not anticipate awarding more than one grant to a single project, unless the project is unusually compelling and comprehensive.

## **APPLICATION INTRUCTIONS**

**APPLICATION DEADLINE: May 2, 2022**

**PLANNED ANNOUNCEMENT OF AWARDS: May 20, 2022**

### **SUBMISSION INSTRUCTIONS**

A completed proposal and all supporting materials (and questions) should be emailed to **[ben.becker@nps.gov](mailto:ben.becker@nps.gov)**. A single PDF of all documents is preferred, but not required.

### **APPLICATION GUIDELINES**

The application should have 4 sections: (1) Applicant information, (2) Project Description, (3) Budget, and (4) Curriculum Vitae. If possible, the overall package should not exceed 7 pages.

- Use the formatting from numbers 1-4 below to create application (Ideally PDF).
- Font size must be 11 point or higher.
- For Students and Post-docs only – One short note of support that your advisor supports the project. The note may be submitted by email to [ben.becker@nps.gov](mailto:ben.becker@nps.gov) or attached to the application as an additional page.

#### **1. APPLICANT INFORMATION (ONE PAGE)**

Which grant(s) you are applying for (*Neubacher Fund* or *Tomales Bay Watershed Council Science Fund*):

Name:

Project Title:

Present position or degree being sought:

Institution:

Mailing address:

Telephone number:

E-Mail address:

Research advisor (if applicable):

Who letter of support will be submitted by (if applicable):

NPS Staff or Watershed Council members you have discussed your research with:

## 2. PROJECT DESCRIPTION (**THREE PAGE LIMIT**)

The project description should have the following sections:

A. Title.

B. Introduction.

Briefly state the problem/questions to be studied, and current status of knowledge.

C. Research Description.

Briefly describe the research, include hypotheses and general experimental design. Address sample sizes and statistical approaches when necessary. Description of field methods and study site(s). Include a general timeline of the project.

E. Describe the significance of the proposed work and benefits to park and local management and, if applicable, to the [TBWC Science Priorities](#).

F. Anticipated scientific and popular publications.

G. Describe potential educational opportunities for local students (i.e., talk to a local school, field trip). We can help plan this or suggest opportunities.

D. Collecting/research or other permits:

Include a statement as to their status. NPS Research Permits can be applied for at: [irma.nps.gov/rprs/](http://irma.nps.gov/rprs/) (It is not required to apply for a permit prior to submitting this grant application). Projects in Tomales Bay may require permits from the Greater Farallones National Marine Sanctuary and the State of California.

H. Literature Cited (may be short or compact format).

## 3. PROJECT BUDGET (**ONE PAGE LIMIT**). *To reduce paperwork complexities for these small grants, we strongly prefer to grant funds directly to the awardee rather than the institution.*

Place the Project Budget on a separate page in table format. It can be simple but should include the following:

A. Total projected costs of the entire research project broken down into salaries/stipends, supplies & equipment, travel, and other. The budget should specify potential and secured sources of additional funding (or in-kind match) and costs requested from this grant source.

- i. *If travel by personal automobile is required, an allowance of up to \$0.585 per mile may be used.*
- ii. *The following budget items ARE GENERALLY NOT supported: overhead/indirect costs greater than 5% (we prefer these small grants be paid directly to awardees rather than institutions), conference or meeting costs in excess of 5% of budget.*

B. Brief budget justification for any expenses that are not obvious. (< 250 words).

## 4. CURRICULUM VITAE (**TWO PAGE LIMIT**)

## APPENDIX: Past Grants Awarded

### NEUBACHER MARINE SCIENCE FUND GRANTS: 2013 - 2021

- **Does Epigenetic Variation Help *Pisaster Ochraceus* (Ochre Sea Star) Survive During Mass Mortality?**
  - UC Davis
- **Reconstructing Coho Salmon (*Oncorhynchus Kisutch*) Provenance and Use of Tomales Bay via Microchemical Analyses of Salmon Otoliths: A Pilot Study**
  - UC Berkeley
- **Physiological and Behavioral Responses of Northern Elephant Seals to Global Change**
  - UC Berkeley
- **Understanding the Consequences of Burrowing Crabs for Plant Community Composition and Restoration in Northern California**
  - UC Davis
- **Developing a Baseline Food Web of Coastal Ecosystems in Point Reyes National Seashore Prior to Top Predator Recovery**
  - Sonoma State University
- **The Eelgrass Filter: Effects of Habitat Structure and Predation on Nonnative Species**
  - UC Davis
- **Seasonal Food Habits of The North American River Otter (*Lontra Canadensis*) in Tomales Bay and Drakes Bay, California.**
  - River Otter Ecology Project and Marin Academy
- **Population Ecology of White Sharks (*Carcharodon Carcharias*) off Central California**
  - Montana State University
- **Rapid Large-Scale Eelgrass Monitoring Using High-Resolution Remote Sensing**
  - UC Santa Barbara and University of Virginia
- **Local Adaptation and the Future of Kelp in Point Reyes National Seashore**
  - UC Davis - Bodega Marine Laboratory
- **Restoration Genetics of the Endangered Tidewater Goby, *Eucyclogobius Newberryi*, in Support of Reintroduction and Recovery in and around Point Reyes National Seashore and Golden Gate National Recreation Area.**
  - UCLA
- **Understanding the Effects of Climate Change and Biological Invasions on Native Oysters in Tomales Bay**
  - UC Davis - Bodega Marine Laboratory
- **Seasonal Trends in Kelp-Herbivore Interactions at Point Reyes**
  - UC Berkeley

- **Does Tomales Bay Pacific Herring (*Clupea Pallasii*) Prefer Eelgrass (*Zostera Marina*) for Spawning?**
  - Sacramento State University
- **Self-Recruitment and Population Connectivity Along the Northern California Coast**
  - UC Davis - Bodega Marine Laboratory
- **Identifying Nursery Requirements for Leopard Shark Neonates in Drakes Estero**
  - Sonoma State University
- **Disease incidence and genetic connectivity of seagrass beds in Point Reyes**
  - San Francisco State University
- **Response of Resident North American River Otters (*Lontra canadensis*) to Wetland Restoration at Drakes Beach, Point Reyes National Seashore, California**
  - River Otter Ecology Project

**TOMALES BAY WATERSHED COUNCIL GRANTS: 2019 - 2021**

- **Long-term monitoring of Tomales Bay eelgrass to identify responses to oyster aquaculture**
  - UC Santa Cruz
- **Using eDNA and aerial (drone) imagery to characterize coastal fish communities in response to health and extent of eelgrass, *Zostera marina*, beds.**
  - UC Davis
- **Processes and Future Change in the Beaches of Tomales Bay**
  - UC Davis - Bodega Marine Laboratory
- **The Impacts of Climate Change on Biological Invasions in Estuarine Ecosystems**
  - UC Davis - Bodega Marine Laboratory
- **Assessing juvenile Dungeness crab habitat use to inform vulnerability to global change**
  - UC Santa Cruz