

REQUEST FOR PRE-PROPOSALS FOR FIELD RESEARCH:

BIODIVERSITY CONSERVATION ACTION

We live in a world of loss. Currently we are in the Sixth Extinction, with 35 percent of the world's species predicted to become extinct the year 2050, and 50 percent by 2200, attributed to climate change and other anthropogenic factors.

* In response, Earthwatch Institute seeks to fund projects that involve citizen scientists in doing science that takes direct, measurable action to conserve ecosystems and protect the life they contain from extinction.

Biodiversity plays a fundamental role in ensuring human health and wellbeing, because species-rich ecosystems produce basic things that humans need to survive, such as food and medicine. In 2010, the UN created the Strategic Plan for Biodiversity 2010-2020 and the Aichi Biodiversity Targets. We see to fund projects that address the Aichi Strategic Goals (<https://www.cbd.int/sp/targets/default.shtml>), specifically, Goal B: Reduce the direct pressures on biodiversity and promote sustainable use; Goal C: Improve the status of biodiversity by safeguarding ecosystems, species, and genetic diversity; and Goal E: Enhance implementation via participatory planning, knowledge management, and capacity building.

We are seeking pre-proposals from scientists for projects that will take measurable action to address global change and loss of biodiversity by:

- Increasing scientific knowledge and public awareness of environmental challenges to ecosystems, while providing locally relevant solutions;
- Increasing partnerships with local people, communities, governmental and non-governmental organizations (NGOs) at local and international levels; and
- Informing management plans and environmental policies.

All pre-proposals must be hypothesis-driven, have quantifiable goals, measurable direct impacts, and an overarching research theme directly related to taking action to address extinction and loss of biodiversity. Because meeting these challenges requires a whole-ecosystem approach, we are specifically interested in contributions that incorporate keystone species to address biodiversity loss. In Indigenous communities, pre-proposals must incorporate *Traditional Ecological Knowledge* (TEK), defined as a cumulative body of knowledge and beliefs, handed down through generations by cultural transmission, about the relationship of living beings (including humans) with one another and with their environment. We strongly welcome pre-proposals aligned with the UN Sustainable Development Goals that will improve human livelihoods and support scientists in emerging nations.

FOCAL *BIODIVERSITY CONSERVATION ACTION* RESEARCH TOPICS:

We invite pre-proposals for field-based research by qualified scientists on the following topics:

- Food-web relationships driven by apex predators and other keystone species and their effects on biodiversity and ecosystem productivity;
- Climate-change impacts on ecosystems and how they affect species and their habitat;
- Habitat connectivity for species and preserving capacity for climate-change induced range shifts;
- Species reintroductions and assisted migration, including maintenance of genetic diversity;
- Strategies to increase endangered species reproduction and survival;
- Human-wildlife coexistence;
- Conserving threatened critical habitats for focal species;
- TEK and biodiversity conservation; and
- Ecological restoration, to repair damaged ecosystems and improve their management.

**citation provided upon request.*

HARNESSING THE POWER OF CITIZEN SCIENCE TO TAKE ACTION TO ADDRESS GLOBAL CHANGE:

Since 1971, Earthwatch has funded scientists working with citizen-scientist volunteers to increase our understanding of ecosystems, find sustainable solutions to global change, and support scientific freedom. Project we fund produce rigorous, relevant, and impactful science. Incorporating participants in fieldwork increases the broader impacts of the research we fund, by giving citizen scientists a deeper awareness of science and greater commitment to conservation.

To fit our citizen-science model, all proposed projects must:

- Have quantifiable goals and measurable impacts of action taken on the project;
- Have a 3-year or longer duration (longer-term research may receive priority support);
- Incorporate field-based research;
- Have data gathered primarily by citizen-scientist participants recruited by Earthwatch;
- Field 4 to 10 teams per year, with 4-15 volunteers per team as needed for data collection;
- Have short (1-3 day) and/or long (7-14 day) duration teams (projects that enable both short and long duration teams will receive priority support);
- For 2-day + teams, provide reputable housing for volunteers within a 45-minute drive from site;
- For longer-duration teams, field adult, high school and college student, teacher, and corporate groups;
- Be run in English, with all communications and supporting documents in English;
- Educate each team of Earthwatch volunteers about the project's science and its relevance;
- Share project data with land managers and if possible contribute to open-source datasets.

GRANTS:

Annual grants cover project field expenses including: equipment, research permits, scientist transportation to the field, support staff, and food and housing while in the field. **Grants do not cover scientist salaries, student tuition, overhead, or capital equipment.**

Typical annual budgets for projects with long-duration teams range between US \$20,000 – \$80,000, with most of that covering volunteer and staff expenses while in the field. Final grants are provided on a per-capita basis based on the number of participants. Research projects are tenable for three years, subject to annual performance review, and may be eligible for renewal beyond that period.

PRINCIPAL INVESTIGATOR (PI) REQUIREMENTS:

All pre-proposals must be submitted by the PI. All PIs must have a PhD in the field of the proposed research and an affiliation with a university, government agency, or science-focused NGO. We strongly encourage graduate student participation on projects and are particularly interested in helping support early-career scientists and scientists local to the research nation.

SUBMITTING A PRE-PROPOSAL:

All pre-proposals and supporting documents must be in English. Earthwatch will select pre-proposals for development into full research proposals. Criteria for selection are: quality and relevance of the project proposed, PI qualifications, and goodness of fit for citizen science. Due to safety concerns, we are unable to support projects in the following areas: **Earthwatch No Go List**. To submit a pre-proposal, visit <http://earthwatch.org/research-funding/apply-for-funding>.

**PRE-PROPOSALS FOR PROJECTS STARTING IN 2020 WILL BE
ACCEPTED THROUGH 11:59 PM (EDT) SUNDAY, JUNE 10, 2018**

Please direct inquiries to: research@earthwatch.org