



Facing the challenge of Global Change

Global change is a defining issue of our times, with profound consequences for human society and the environment. Effective marine conservation and impending global change demand interdisciplinary understanding.

This NSF funded Integrative Graduate Education and Research Training (IGERT) award supports graduate training in Global Change, Marine Ecosystems and Society. Our program will produce a generation of scientists conversant in the biological, social, economic, cultural and political issues of marine conservation, equipped with management and communication skills. IGERT trains professionals who not only can identify the problems, but who can also find practical solutions within ecological, social and economic constraints.

For More Information

IGERT Project Coordinator
Scripps Institution of Oceanography
University of California, San Diego
9500 Gilman Drive
La Jolla, CA 92093-0202
(858) 822-2790
cmbc@ucsd.edu

Combining world -class climate research of

Scripps Institution of Oceanography

with the expertise from
UCSD Departments of:
Economics

History & Science Studies
Rady School of Management
Anthropology
Political Science
Climate Institute
Sustainability Solutions Institute
and

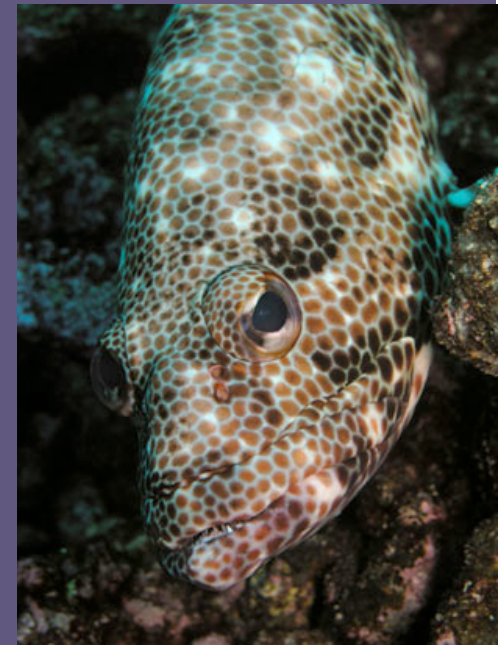
NOAA Southwest Fisheries Science Center
Environmental Law Institute



www.cmbc.ucsd.edu/Education/interdisciplinary_PhD/
<http://www/igert.org/projects/224>

IGERT

Global Change, Marine Ecosystems, and Society



Benefits of IGERT

Collaboration

A network of students and faculty in various disciplines

Funding

\$30,000 stipend plus education expenses, internship and research funding

Community

Broad access to multidisciplinary experts at UCSD and across the globe

Coursework

A diverse array of courses to add breadth to your PhD

Interdisciplinary approach



In the face of the complexity of environmental threats, traditional boundaries between disciplines have done more harm than good, and academic "business as usual" will be inadequate. Using an inter-disciplinary approach, SIO students work alongside social science Ph.D. students to learn how to have an impact on critical issues in a complex world. The result of these collaborative efforts will be creative solutions that overcome traditional problems arising from the lack of understanding between interest groups.

Major research themes to be explored

- 1) Global change effects of greenhouse gas drivers from the scientific, economic, legal and political perspectives
- 2) Ecosystem impacts of changes in temperature, sea level, runoff, and ocean acidification
- 3) Societal impacts of population dislocations, human health, sustainability of fisheries, transnational legal issues and impacts on tourism
- 4) Impact of climate change on public perception, communications strategies and public policy

Process Studies

These overarching themes are brought together in four "Process Studies" that unite perspectives of natural sciences, social sciences and humanities around a set of multidisciplinary studies. The process studies are focused in four geographic areas where research collaborations exist and where the major themes of this IGERT clearly coalesce.

- (1) Line Islands of the Central Pacific,
- (2) Gulf of California,
- (3) Eastern Pacific
- (4) Antarctic

