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## TASK FORCE CONVENED ON FISHERIES AND ECOSYSTEMS

For more than a decade, scientists have recognized that fisheries management should consider the interconnections between fishing, fished species, humans, and the well-being of the larger marine environment. There is strong support for this approach, known as ecosystem-based fisheries management, but no clear path to implementation.

Recognizing this, the Lenfest Ocean Program has charged a team of scientists with creating a practical blueprint that managers can use to make ecosystem-based fisheries management operational. The Fishery Ecosystem Task Force will hold a series of meetings and provide recommendations in 2016.

### Ecosystem-Based Fisheries Management

U.S. fisheries management is organized around Fishery Management Plans (FMPs), traditionally focused on a single species or an associated group of species. Fisheries science has in the past been similarly oriented, so the most well-developed methods focus on maintaining individual species at sustainable levels.

Ecosystem-based fisheries management builds on single-species management by accounting for the relationships among all ecosystem components—marine organisms, humans, and the environment—in a holistic, synthetic, integrated fashion. To begin implementing this approach, some regional fishery councils have adopted or are drafting fishery ecosystem plans (FEPs) as a parallel to FMPs. But the plans differ substantially, and there is no standard for what they should contain.

### Task Force Charge

The Task Force's main output will be an outline of the components of effective FEPs. It will provide a set of specific questions that every FEP should address and a set of recommendations for how each question can be answered. The goal is for managers to be

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Tim Essington, Task Force Chair

able to do so using existing data and in a way that is useful for their specific management contexts, ecological dynamics, and socioeconomic circumstances.

The group will focus on guidance for U.S. fishery management councils but will also provide a framework that can be adapted by other management bodies. It will meet four times over a two-year period in four regions around the U.S.

## Leadership

The Task Force is led by Timothy Essington, Professor in the School of Aquatic & Fishery Sciences at the University of Washington, and will bring together natural and social scientists. Phil Levin, an ecologist and Senior Scientist for the National Oceanic and Atmospheric Administration (NOAA) will co-chair the Task Force and chair an advisory panel of managers and NOAA scientists.

## Task Force Members

- Timothy Essington, Chair, University of Washington
- Phillip Levin, Co-Chair, NOAA Northwest Fisheries Science Center
- Lee Anderson, University of Delaware
- Alida Bundy, Bedford Institute of Oceanography
- Courtney Carothers, University of Alaska Fairbanks
- Felicia Coleman, Florida State University
- Leah Gerber, Arizona State University
- Jonathan Grabowski, Northeastern University
- Edward Houde, University of Maryland Center for Environmental Science
- Olaf Jensen, Rutgers University
- Christian Möllmann, University of Hamburg
- Kenneth Rose, Louisiana State University
- James Sanchirico, University of California Davis
- Tony Smith, CSIRO Australia

## Advisory Panel

The Task Force will work closely with an advisory panel to ensure its recommendations are in line with existing data and management structures. This panel will be made up of fishery management council members, fisheries managers, and fisheries scientists.

- Phillip Levin, Chair of Advisory Panel, NOAA Northwest Fisheries Science Center
- Michele Culver, Washington Department of Fish and Wildlife
- Mark Dickey-Collas, International Council for Exploration of the Sea
- Michelle Duval, North Carolina Department of Environment and Natural Resources
- John Henderschedt, Fisheries Leadership & Sustainability Forum
- Jason Link, NOAA Fisheries
- Douglas Lipton, NOAA Fisheries
- Richard Methot, NOAA Fisheries
- Julie Morris, New College of Florida
- Galen Tromble, NOAA Fisheries
- Michael Fogarty, NOAA Northeast Fisheries Science Center

**" WE ARE GOING TO EXAMINE FISHERY ECOSYSTEM PLANS AND SIMILAR DOCUMENTS FROM AROUND THE GLOBE. THERE HAS BEEN A LOT OF INNOVATION IN THE U.S. AND BEYOND, AND WE WILL STAND ON THE SHOULDERS OF THIS COLLECTIVE WISDOM."**

Phil Levin, Task Force Co-Chair

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