



LENFEST FISHERY  
ECOSYSTEM  
TASK FORCE



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ECOSYSTEM  
LENFEST FISHERY



- What would be valuable to you?
- How shall be best engage with you and the NPFMC moving forward?



In “Managing Our Nations Fisheries 3 and subsequent congressional testimony NOAA Fisheries and regional Fishery Management Councils identified:

- a need to advance ecosystem-based decision-making, and
- overcome impediments to ecosystem-based fisheries management.



Bridge the  
G a p  
Between  
B e s t Practices  
And  
A c t u a l Practice



# Task Force

- Tim Essington, Chair, UW
- Phillip Levin, Co-Chair, NOAA Fisheries
- Kristin Marshall, Project Manager, UW
- Lee Anderson, U Delaware
- Alida Bundy, DFO Canada
- Courtney Caruthers, U AK
- Felicia Coleman , FSU
- Leah Gerber, ASU
- Jonathan Grabowski, Northeastern Univ
- Ed Houde , U MD
- Olaf Jensen, Rutgers
- Christian Möllmann, U Hamburg, Germany
- Kenny Rose, LSU
- Jim Sanchirico, UC Davis
- Tony Smith CSIRO
- Laura Koehn, UW Graduate Student



# Advisory Panel

- Phillip Levin, Chair, NOAA Fisheries
- Michele Culver, PFMFC
- Mark Dickey-Collas, ICES
- Michelle Duval, SAFMFC
- Mike Fogarty, NOAA Fisheries
- ~~John Henderschedt, NPFMFC~~
- Peter Kendall, NEFMC
- Jason Link, NOAA Fisheries
- Doug Lipton, NOAA Fisheries
- Rick Methot, NOAA Fisheries
- Julie Morris, New College of FL, GCFMFC (ret.)



# Our Charge

- *How can regional fisheries bodies better incorporate ecosystem principles into management and develop Fishery Ecosystem Plans?*

*This forces us to address four key questions:*

- What are the key principles of EBFM that should be included in a fisheries ecosystem plan,
- What is the current status of fisheries management that incorporates these principles?
- What are the gaps between ecosystem knowledge and fishery ecosystem planning?
- What are new approaches that can be used to fill these gaps?



# Key principles of EBFM and gap analysis

## Key Principles of Ecosystem-based Fisheries Management

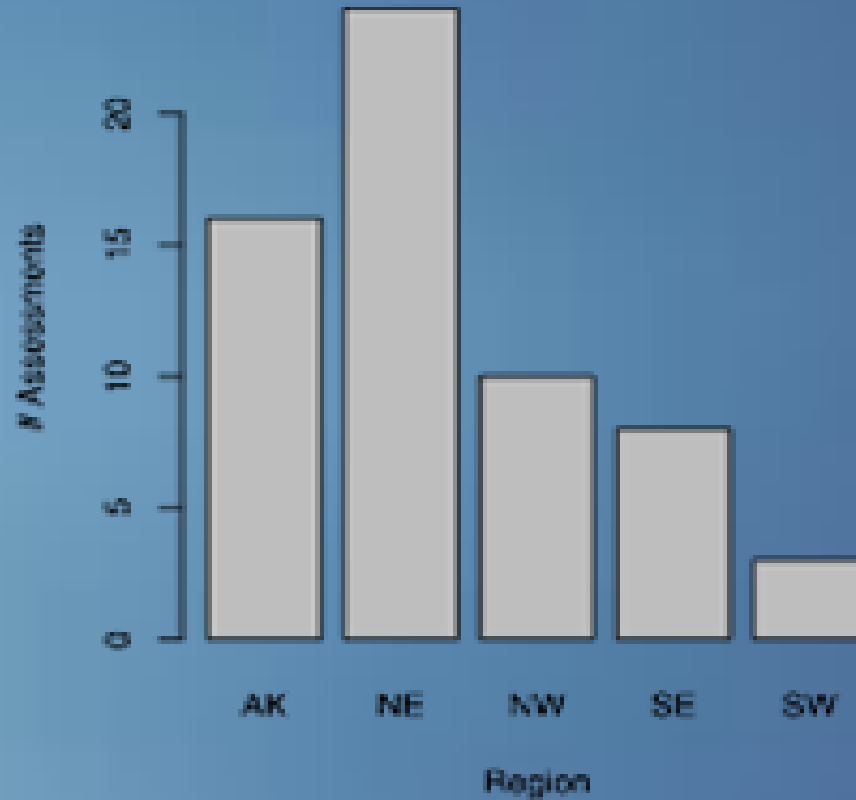
- A review of the social and natural science literature
- Analysis of the content provided by invited speakers at Task Force Meetings
- A review of existing FEPs, **ecosystem information included in stock assessments**, and essential fish habitat evaluations
- An evaluation of a series of U.S. and global case studies of fisheries where EBFM would benefit decision making





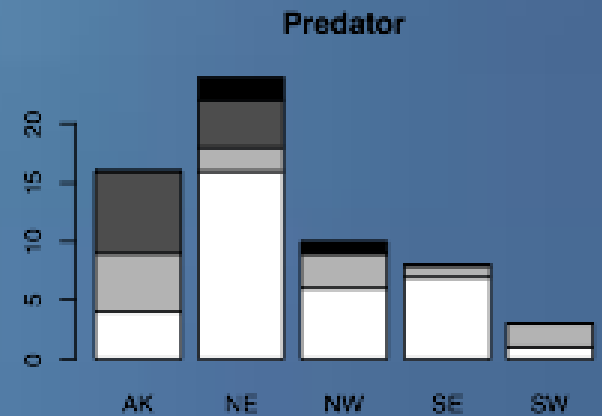
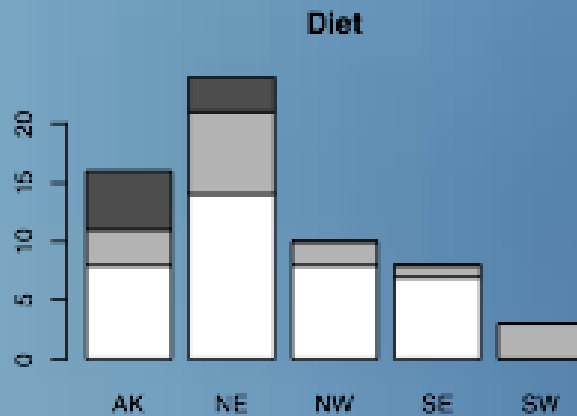
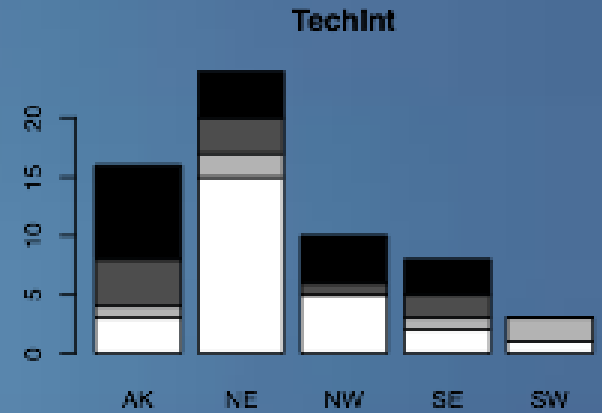
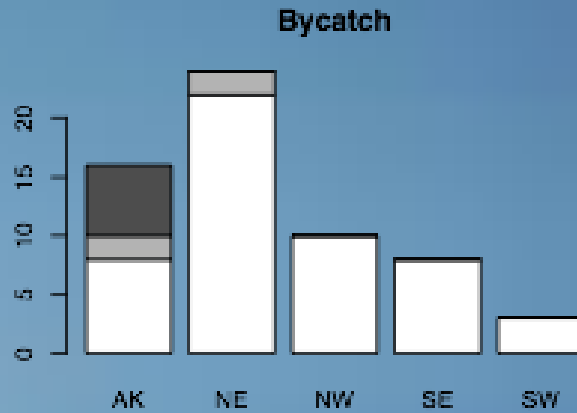
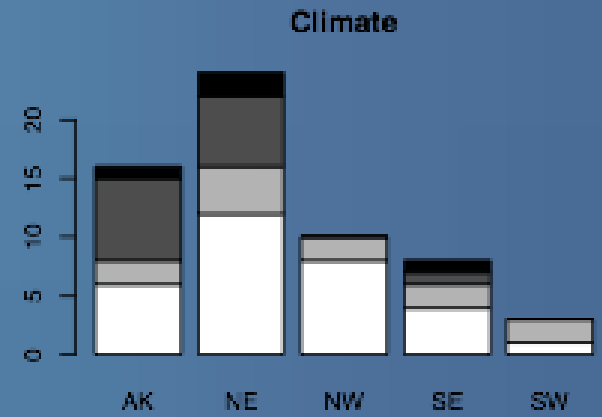
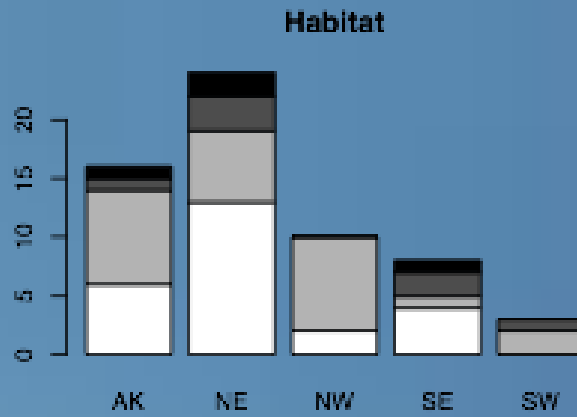
# Ecosystem information in stock assessments

67/111  
assessments  
examined to date





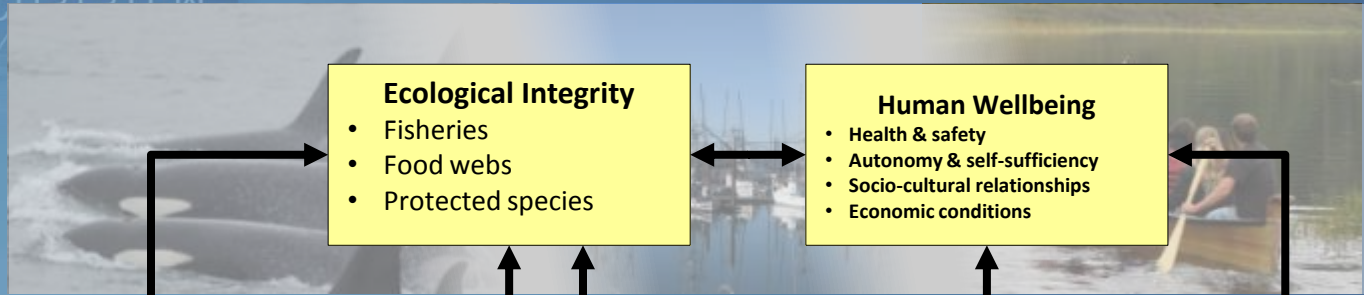
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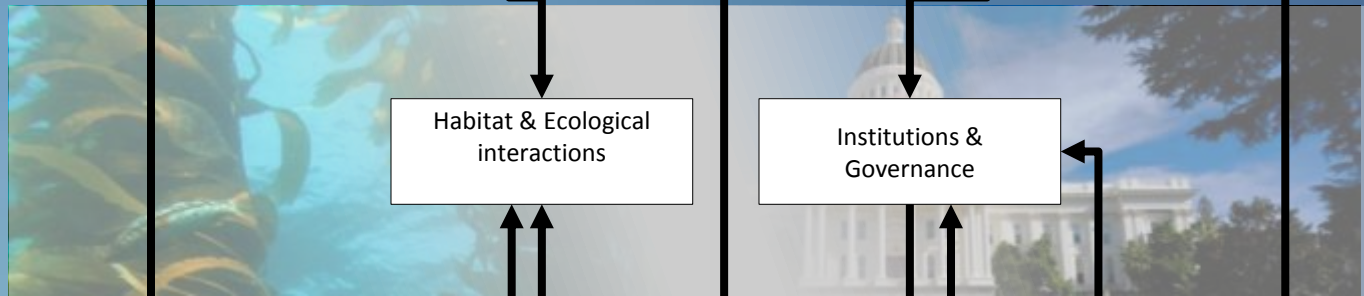


# Gaps between ecosystem knowledge and fishery ecosystem planning

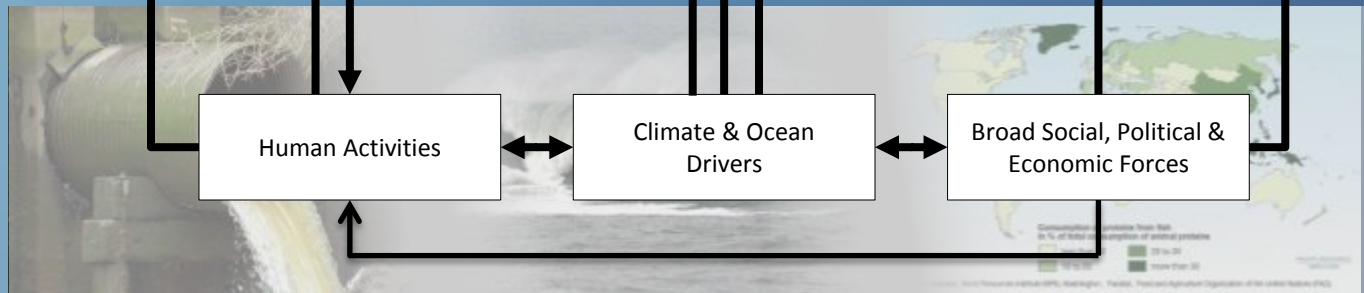
Focal Ecosystem Components



Mediating Components



Drivers and Pressures





# Case Studies and Tool Development

- Lobster – Herring Fisheries in New England
- Menhaden in Mid Atlantic
- Butterfish-squid in Mid Atlantic
- Gag grouper and habitat – Gulf of Mexico
- Crab-rockfish fishery interactions, California current
- Indigenous use of salmon, food security – Alaska
- Groundfish Scotian Shelf Canada
- Baltic sea cod-herring-sprat



# Case Studies and Tool Development

- Policy Instruments (examples)
  - Risk pools (sablefish)
  - CDQ's (halibut)
  - Species equivalence in multi-species ITQs (Iceland)
  - Quota Baskets (New Zealand)
  - TURFs
  - etc



# SYNTHESIS: A BLUEPRINT FOR FISHERY ECOSYSTEM PLANNING

- Task Force and Advisory Panel meet in
  - May 2015, Portland ME
  - Fall 2015, Annapolis MD
- Council presentations
  - Begin in March 2015 (North Pacific, Pacific, New England, so far)
- Final products
  - Spring 2016