



NOAA
FISHERIES
Headquarters

Ecosystem-Based Fisheries Management

Dr. Jason Link

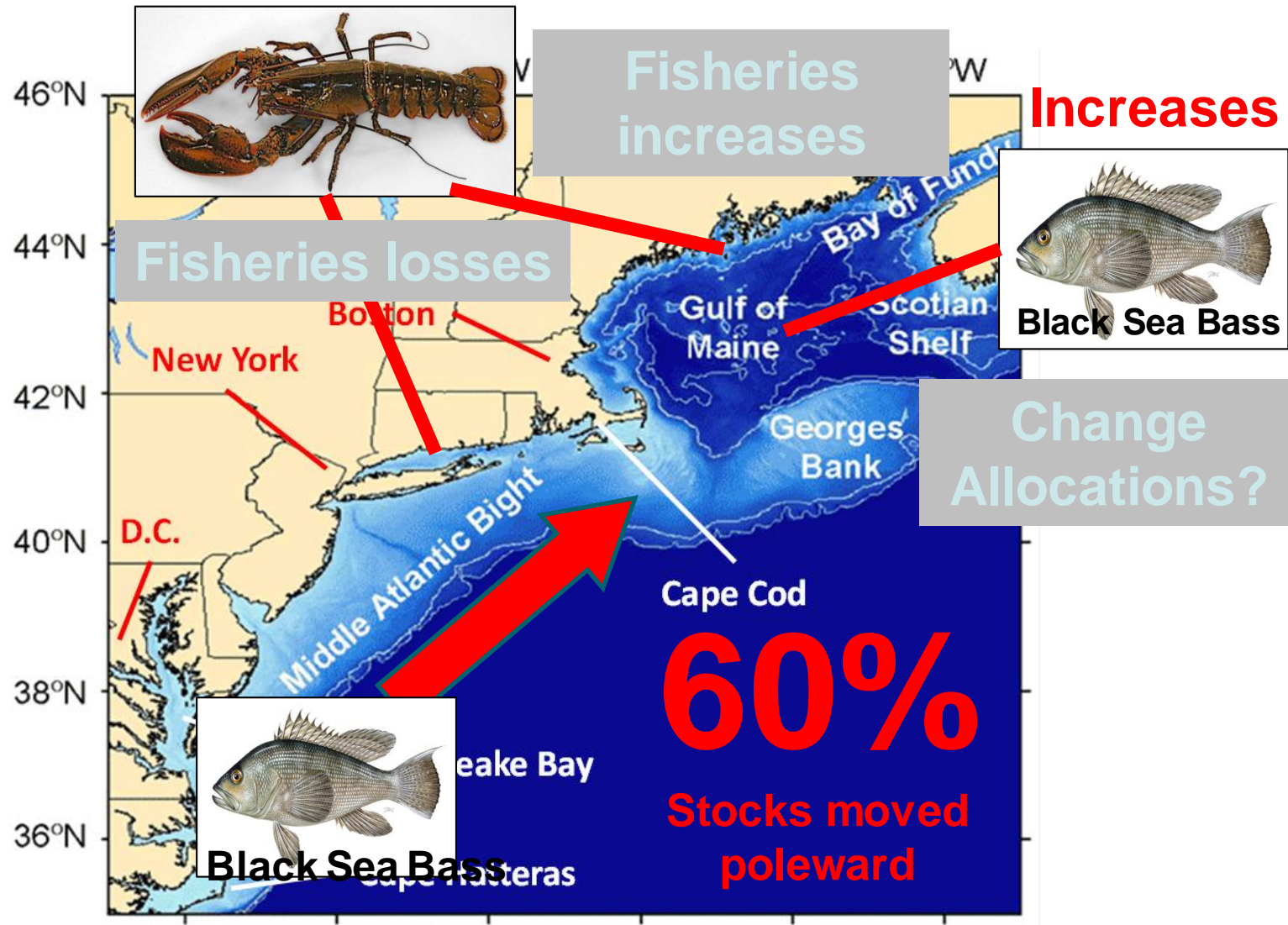
New England Fisheries Management Council: October 1, 2015

Take Aways

- NOAA Fisheries needs to, can and is committed to doing EBFM
- There are many benefits of doing EBFM
- NOAA Fisheries aim is to provide a menu of analytical options to address
- Making EBFM operational remains a key challenge, but is one we are up for in partnership with you!

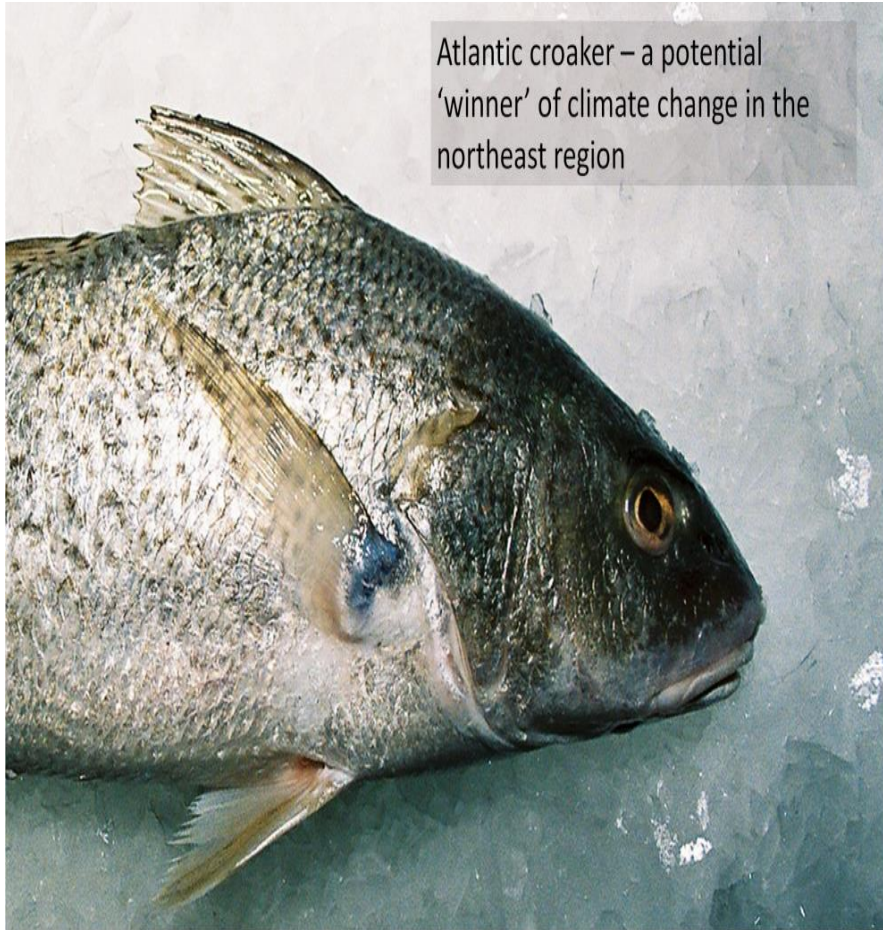
Warming & Fisheries Distribution

Declines & Increases

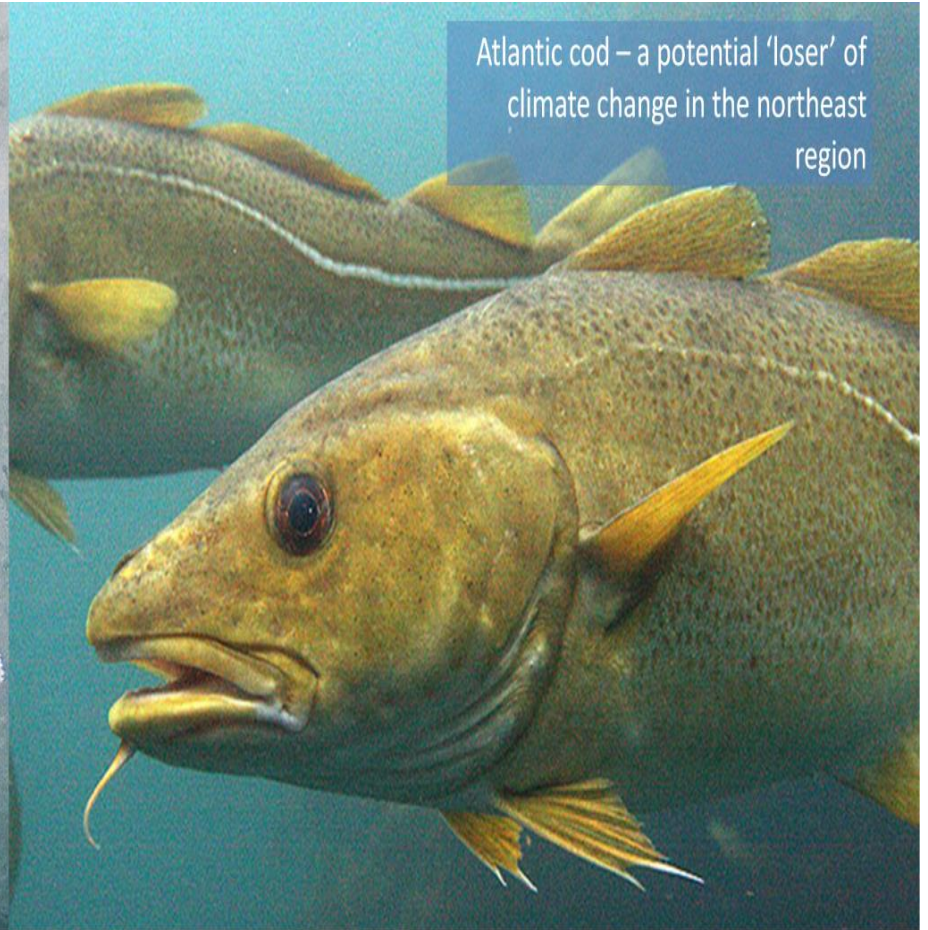


Planning for Climate Related Changes on Stocks

Atlantic croaker – a potential
'winner' of climate change in the
northeast region

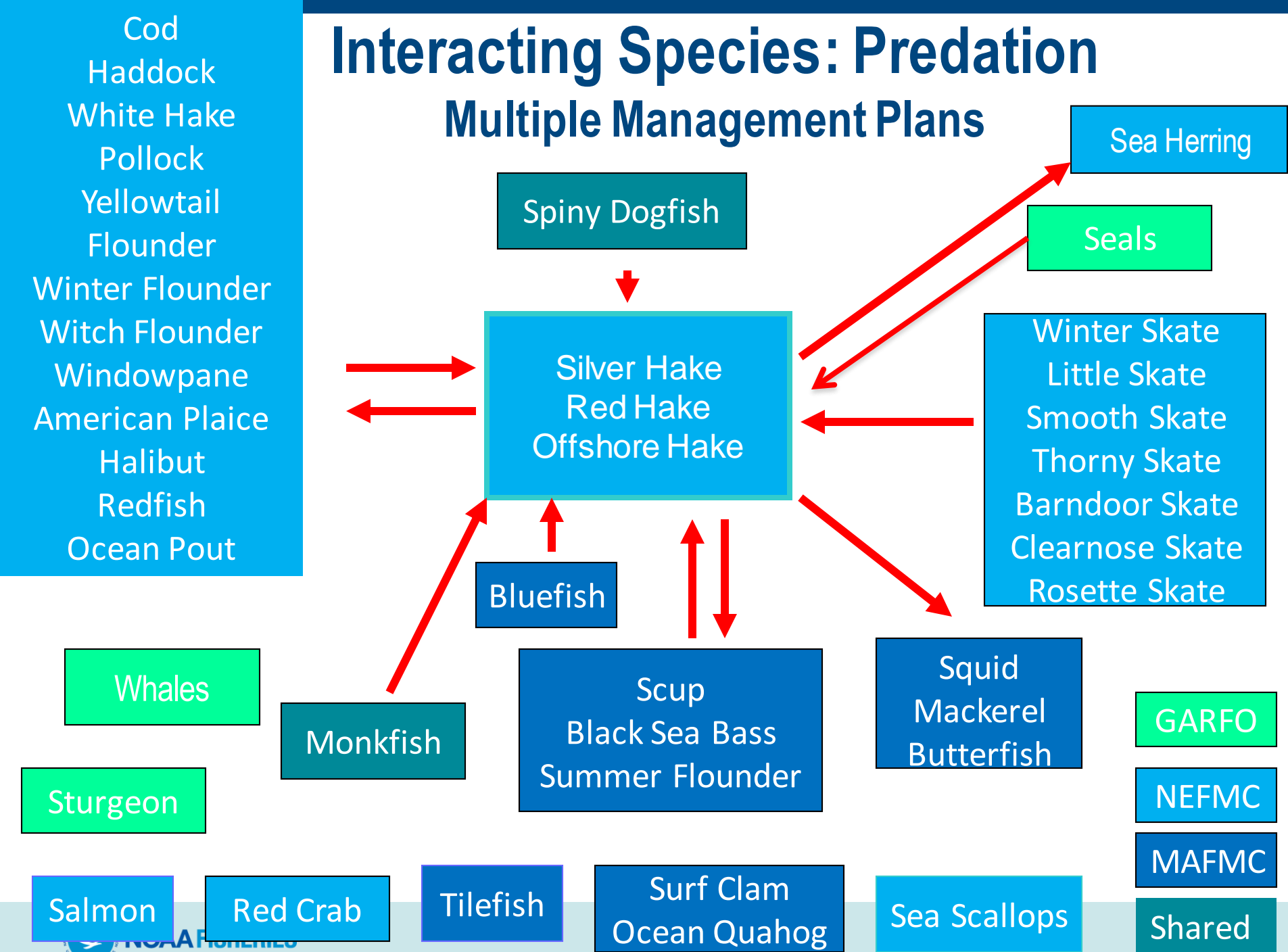


Atlantic cod – a potential 'loser' of
climate change in the northeast
region



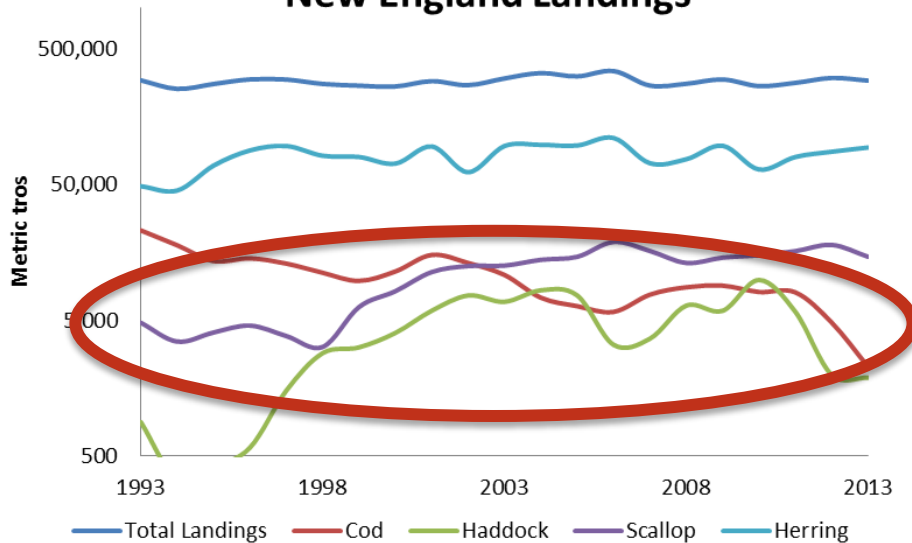
Interacting Species: Predation

Multiple Management Plans

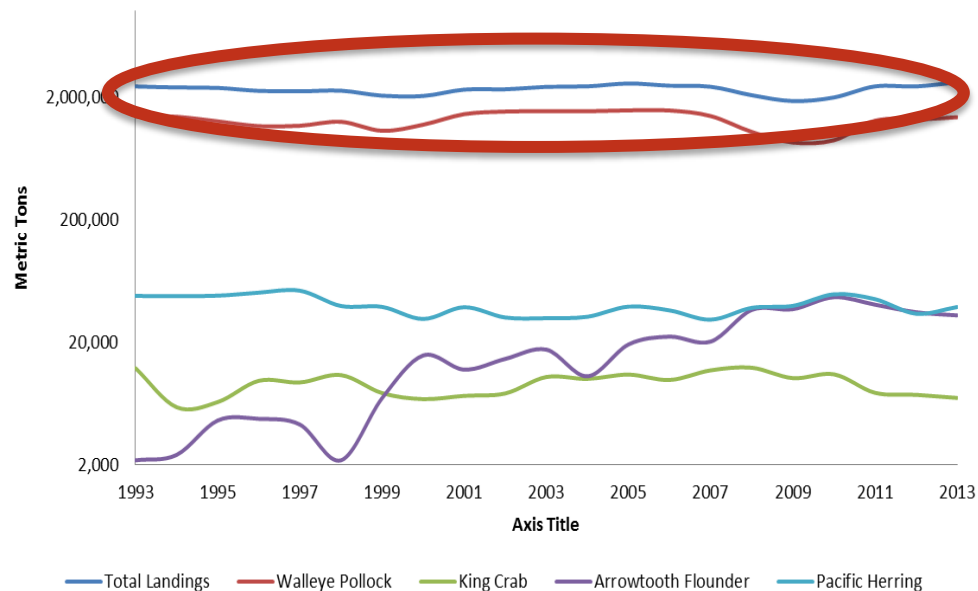


Managing Mutual Funds or Chasing the Hot Stock?

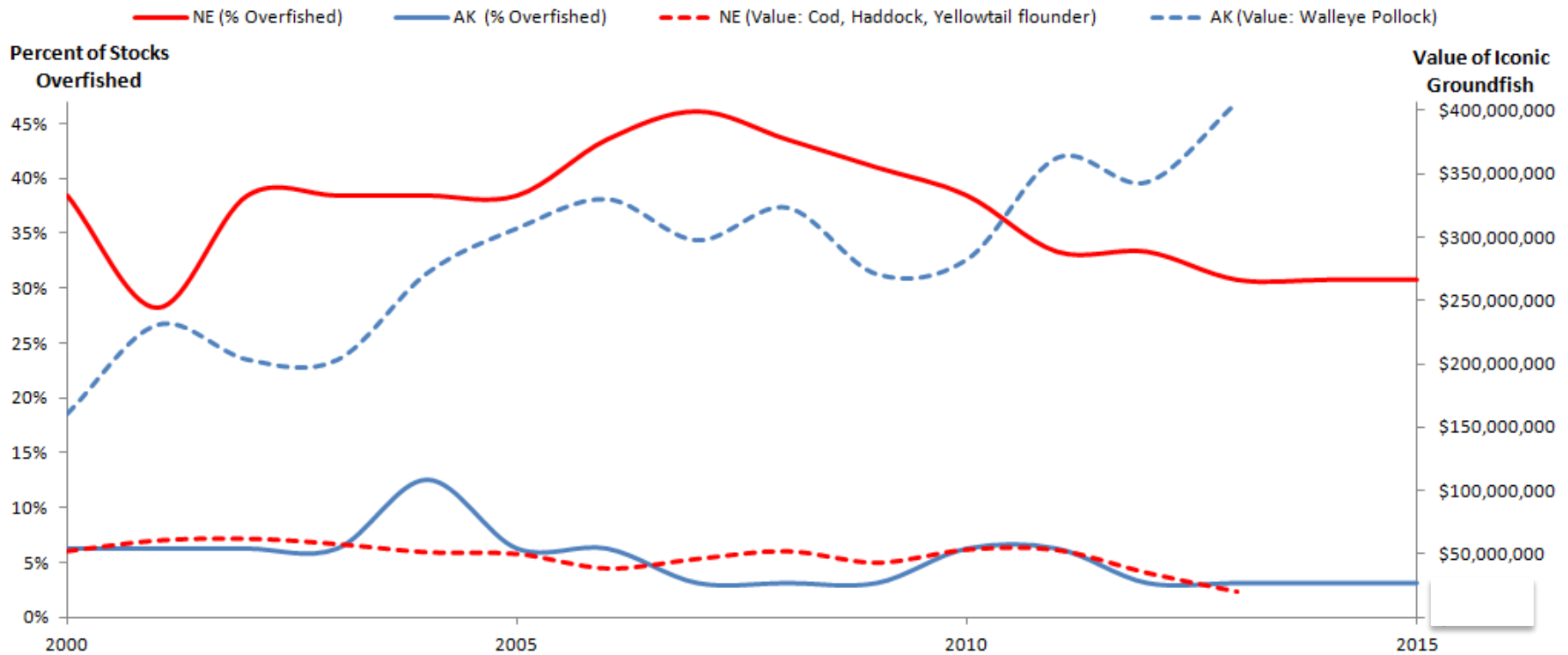
New England Landings

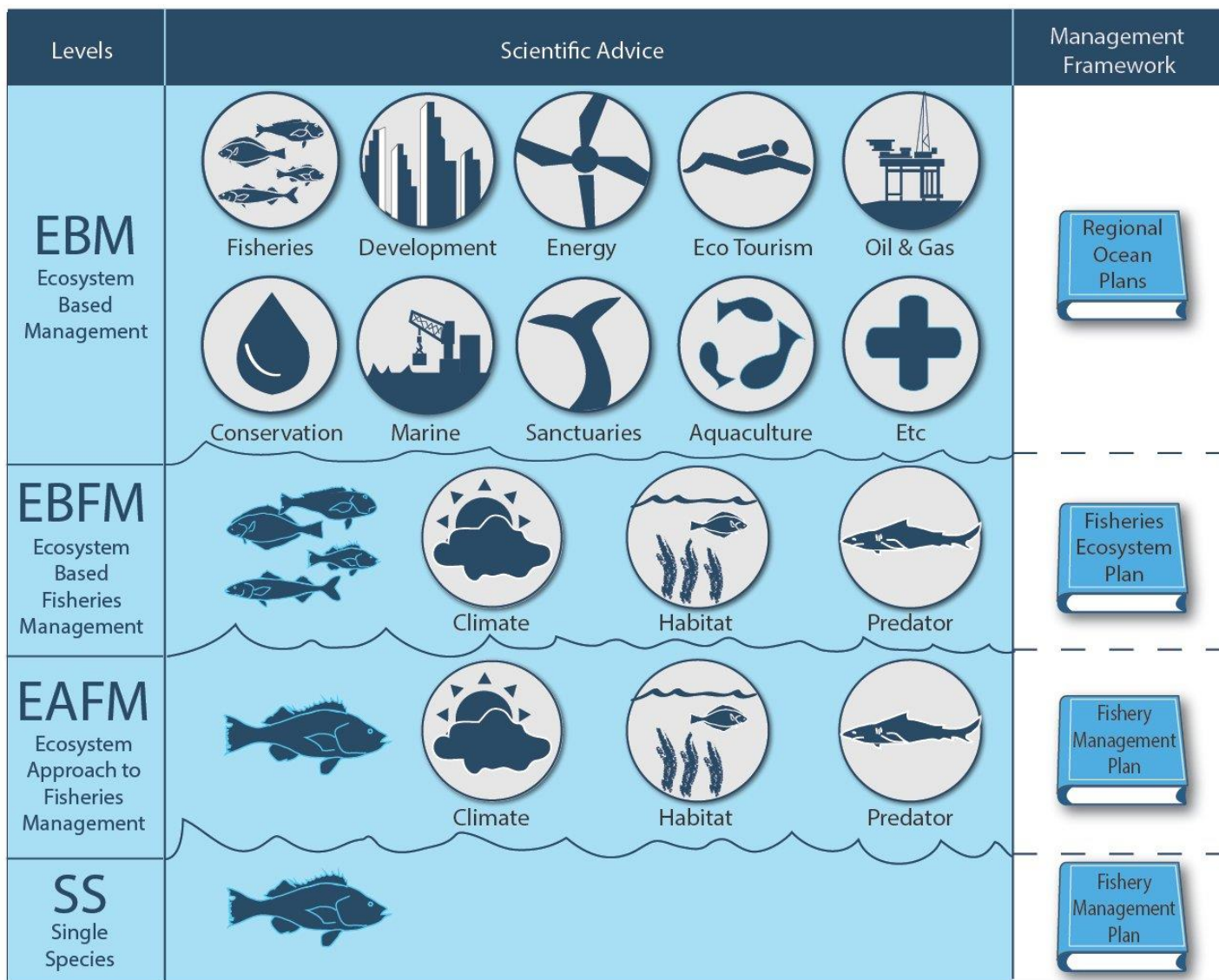


Alaska Landings



Managing Mutual Funds or Chasing the Hot Stock?





<http://www.st.nmfs.noaa.gov/ecosystems/ebfm/index>

Policy Components

- Policy Statement
- Background
- Purpose of and Need for Policy
- Definition of EBFM
- Context of EBFM
- Benefits
- Guiding Principles
- Legal Authorities and Mandates
- NOAA Fisheries Responsibilities



Policy Statement

NOAA Fisheries strongly supports the implementation of Ecosystem-Based Fisheries Management (EBFM), to better inform decisions and help achieve and optimize the benefits from marine fisheries by evaluating trade-offs among and between fisheries (commercial, recreational, and subsistence), aquaculture, protected species, biodiversity, and habitats, while maintaining resilient and productive ecosystems.

Policy Defines EBFM as:

A systematic approach to fisheries management in a geographically specified area that ensures the resilience and sustainability of the ecosystem ; recognizes the physical, biological, economic, and social interactions among the affected components of the ecosystem, including humans; and seeks to optimize benefits among a diverse set of societal goals.

EBFM Guiding Principles

Outcome

6. Maintain Resilient Ecosystems

What is our advice?

5. Incorporate ecosystem considerations into management advice

What are our options?

4. Explore and address trade-offs within an ecosystem

What are our priorities?

3. Prioritize vulnerabilities and risks of ecosystems and their components

What are our objectives?

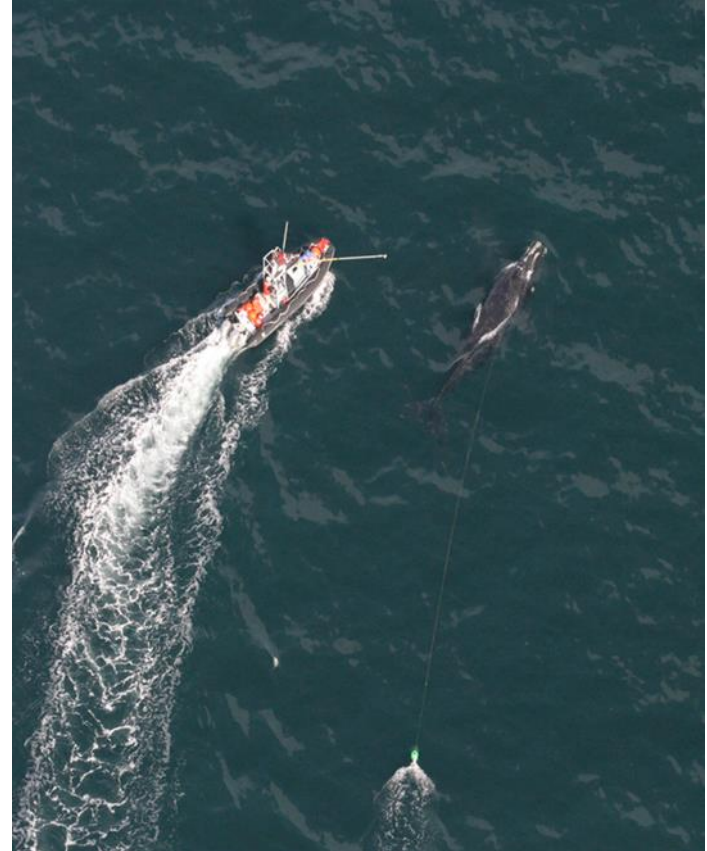
2. Implement ecosystem-level planning

What is the foundational science we need?

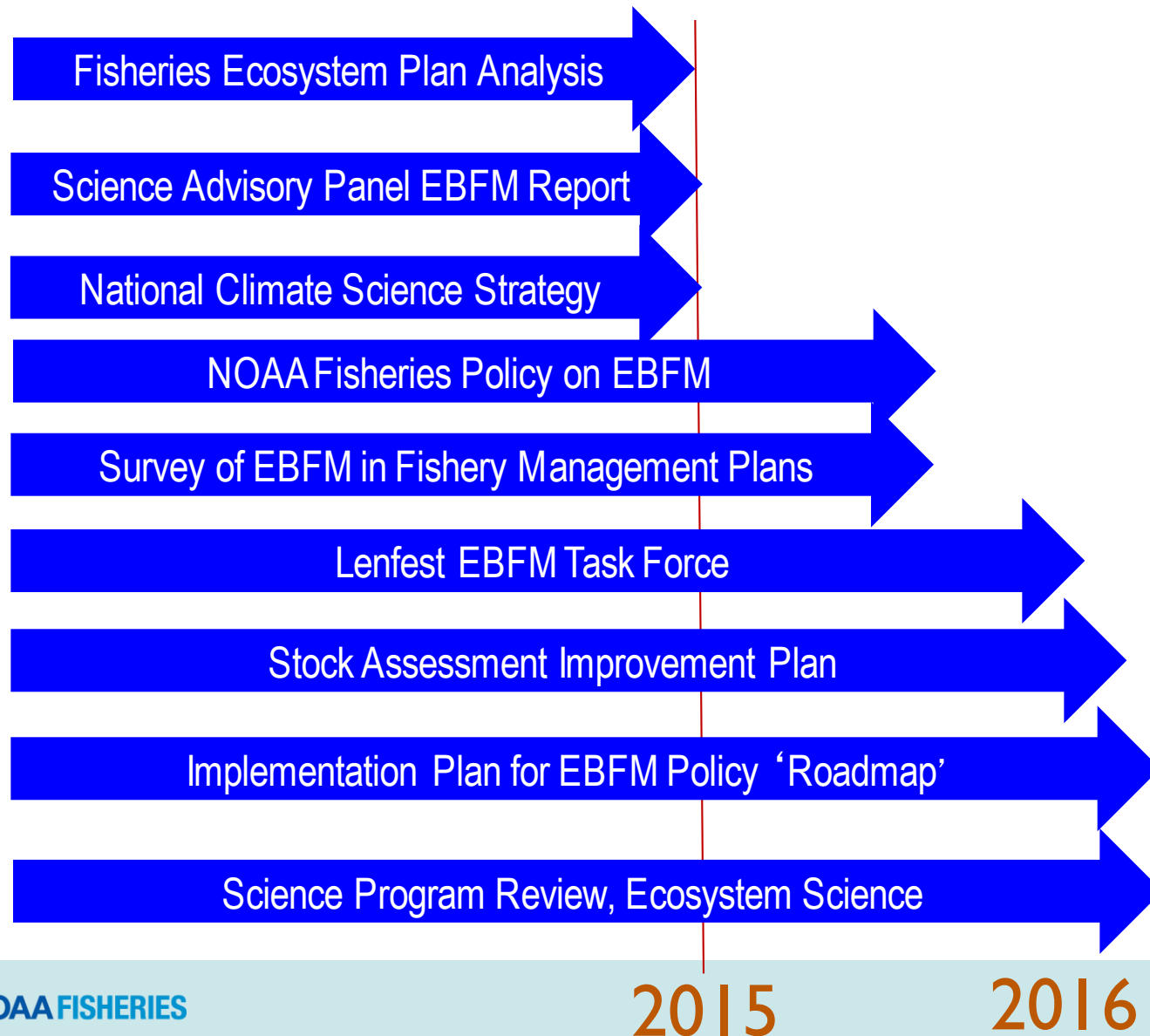
1. Advance our understanding of ecosystem processes

Next Steps for Policy

- Will be open for informal comment through Dec 16, 2015
- Dialogue @ Council Meetings throughout the fall
- Developing associated EBFM Road Map
- Hope to finalize in early 2016



Ecosystem-related Efforts



Questions?

<http://www.st.nmfs.noaa.gov/ecosystems/ebfm/creating-an-ebfm-management-policy>

