



**NOAA
FISHERIES**

NOAA Fisheries Science Update

Dr. Ned Cyr

Council Coordination Committee
Meeting

February 25, 2016

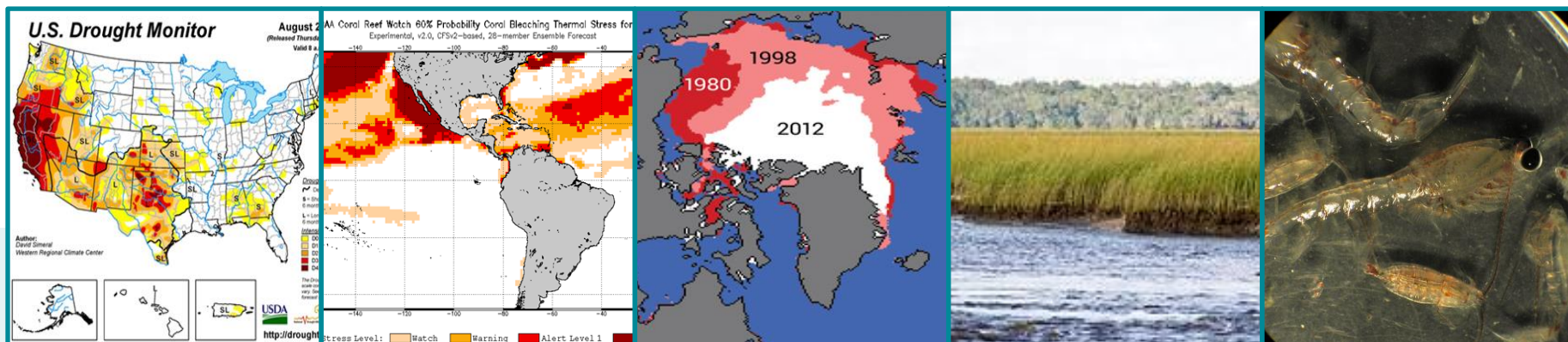


NOAA FISHERIES

Update: NOAA Fisheries Climate Science Strategy and Regional Action Plans



Growing Challenges for Effective Management



Droughts

Warming
Oceans

Loss of Sea Ice

Rising Seas

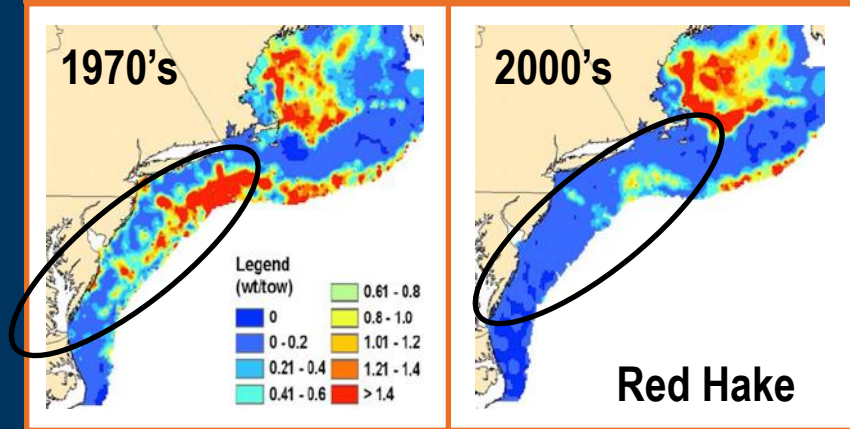
Ocean
Acidification



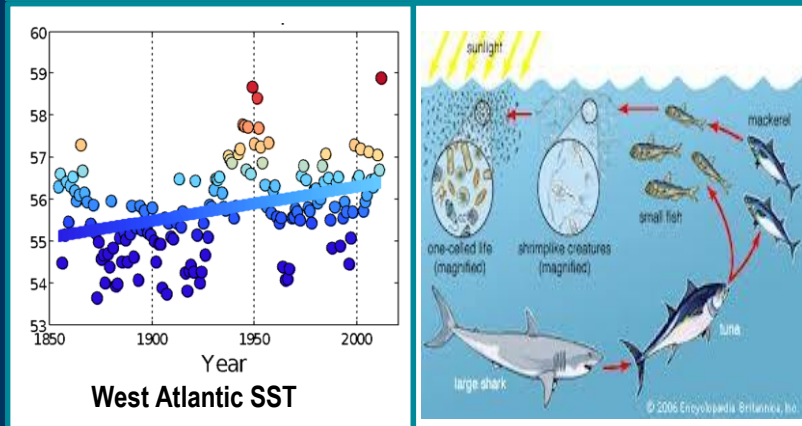
NOAA FISHERIES

Growing Demands for Information

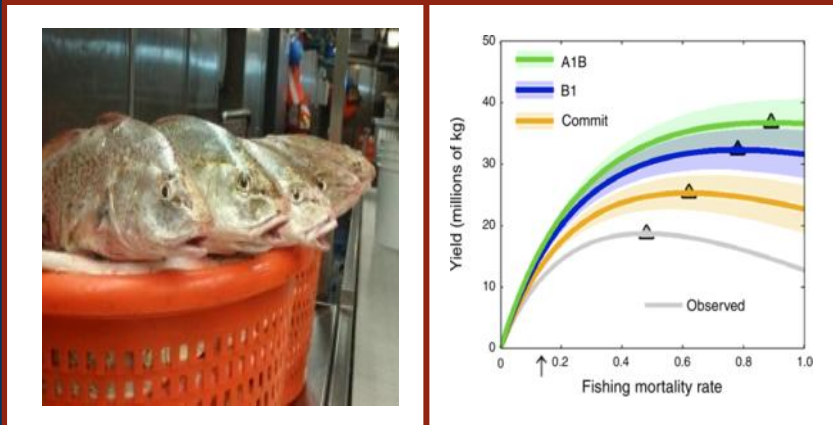
WHAT IS CHANGING?



WHY IS IT CHANGING?

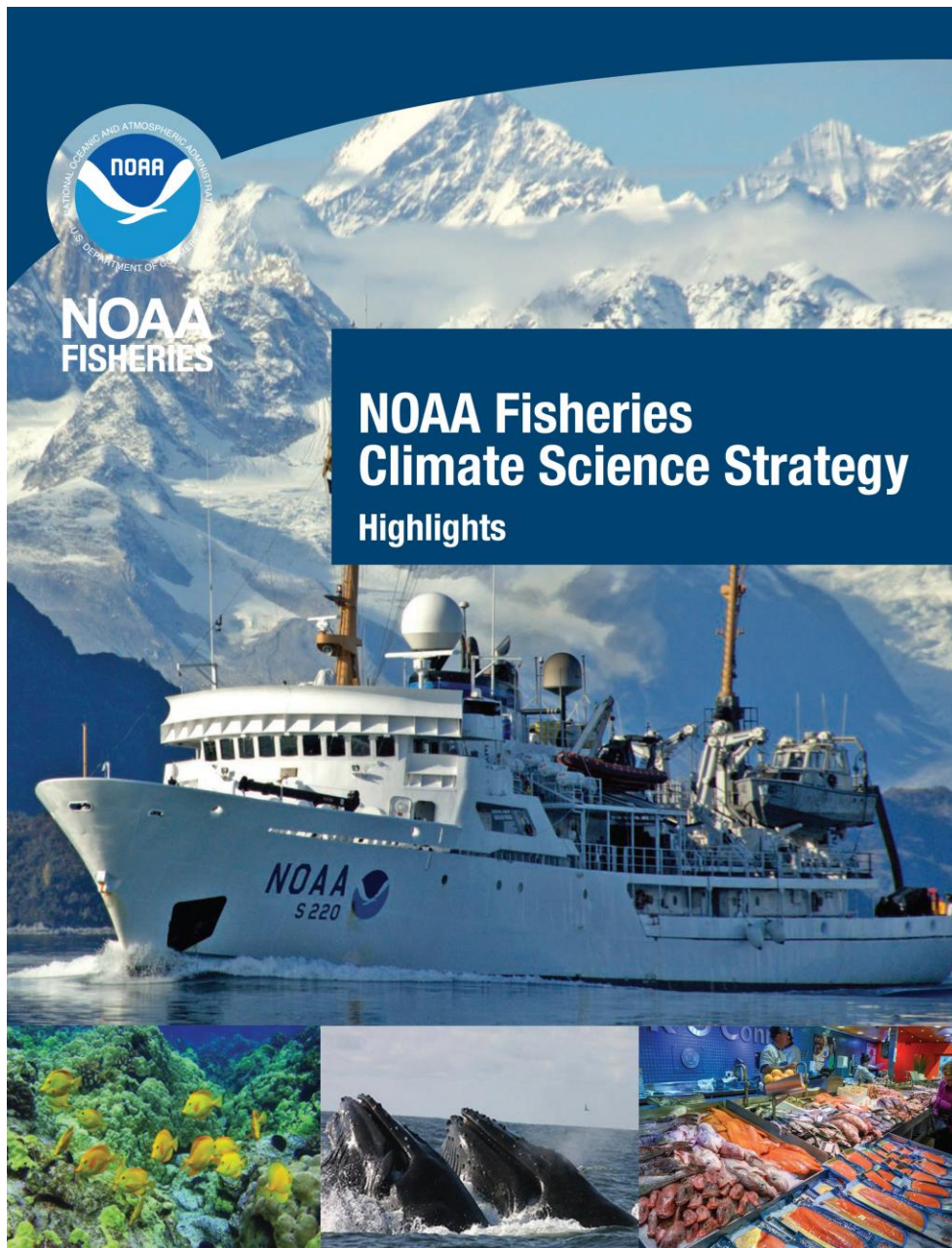


HOW WILL IT CHANGE?



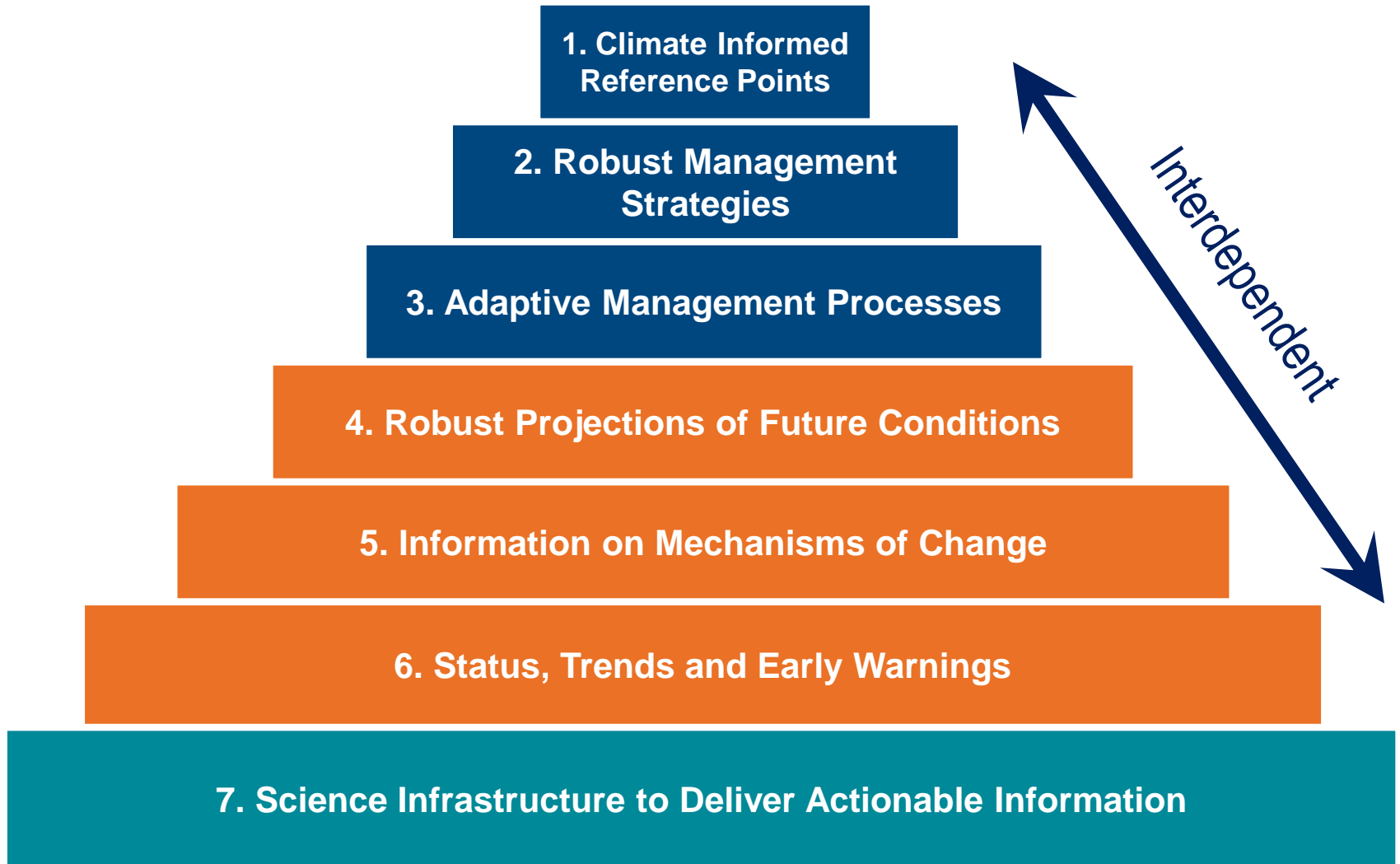
HOW TO RESPOND?





Goal:
**Increase the
production,
delivery and use
of climate-related
information
In fulfilling
NOAA Fisheries
mandates**

NOAA Fisheries Climate Science Strategy



Expected Results

- ***Better tracking*** of ecosystem changes that provide early warnings of climate-related changes.
- ***Increased understanding*** of what's vulnerable and the mechanisms of change.
- ***Near and long term forecasts*** of ocean and resource conditions.
- ***Climate sensitive*** resource assessments and biological reference points.
- ***Robust management scenarios.***
- ***Reduced impacts and increased resilience.***

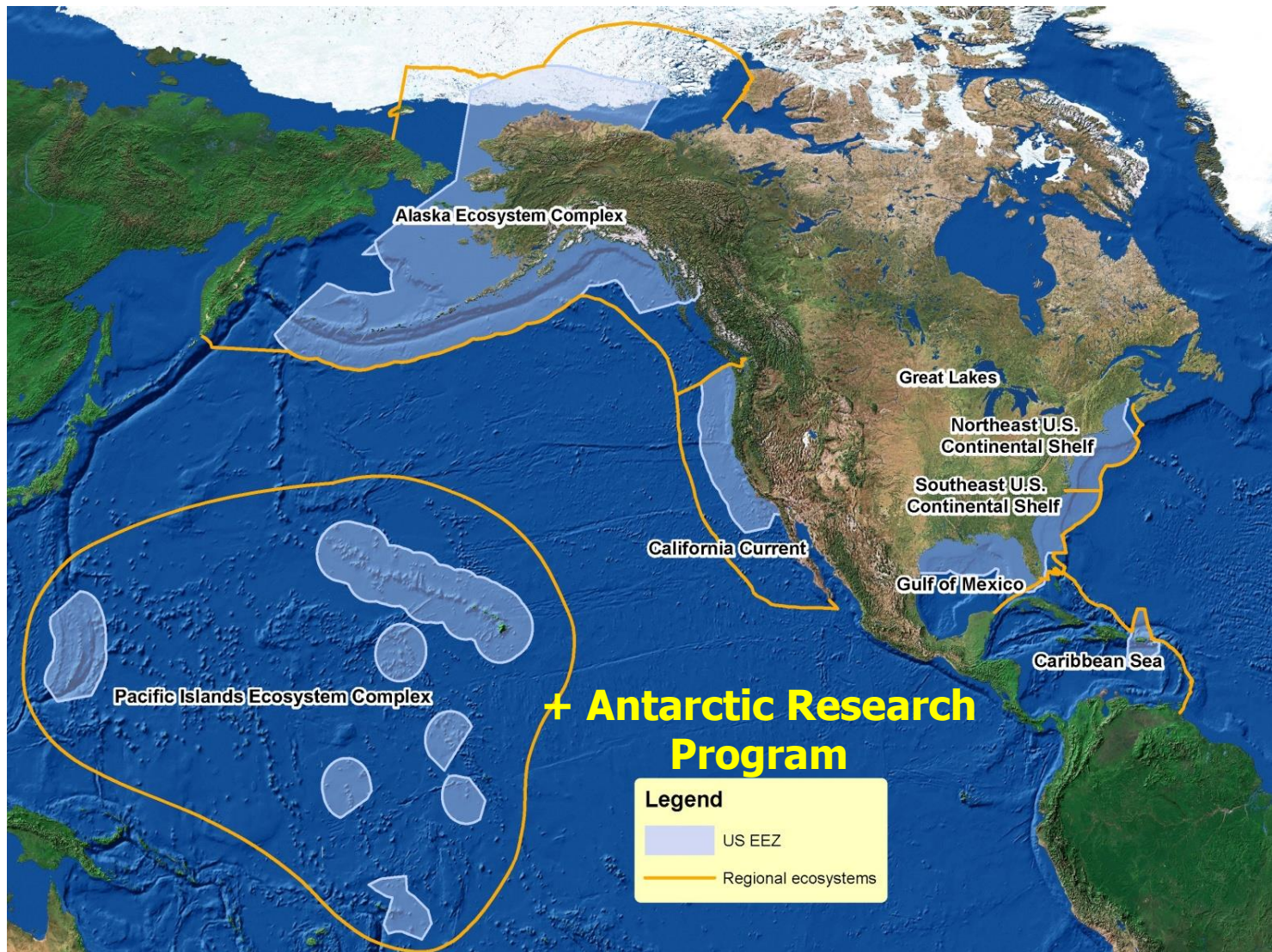


Regional Action Plans

- Customize implementation of the NCSS in each region.
- Inform future agency planning and budgeting.
- Develop with Councils and other key partners.
- Build and expand partnerships.
- Leverage resources.
- Seeking input now thru summer 2016.
- Finalize all regional plans by October 1, 2016.



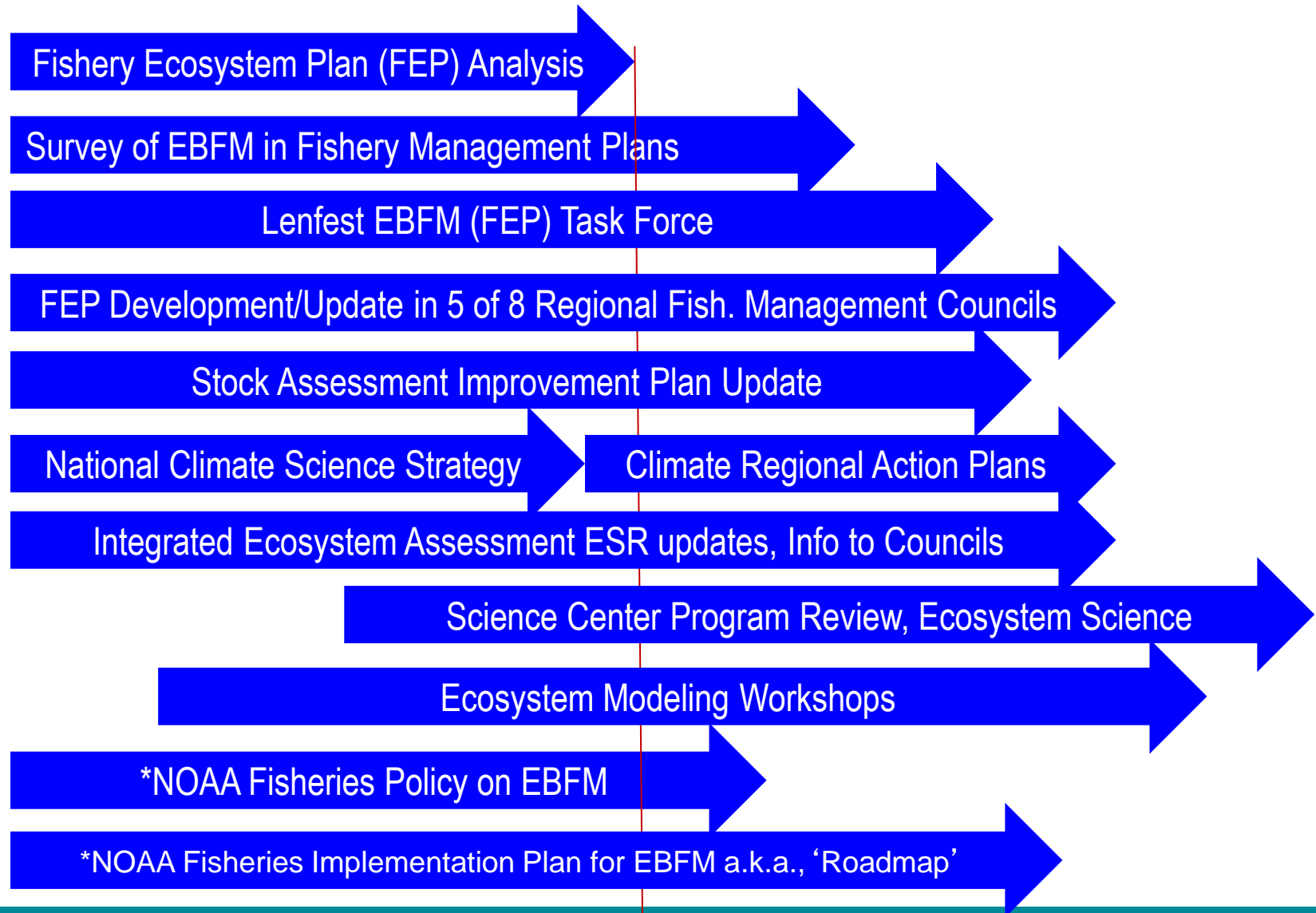
Regional Action Plans Underway



Update: Ecosystem-based Fisheries Management



Ongoing EBFM-related efforts



Status of EBFM Policy

- Draft Policy open for public comment Sept-Dec 2015
- Comments from Councils, 30 Organizations and Individuals.
- Main Comments Received:
 - NMFS should provide more guidance on OY
 - What are the budget/resource implications of EBFM?
 - What is the geographic scale and scope of EBFM?
- We are analyzing comments and incorporating them into the final Policy and EBFM Roadmap
- Hope to finalize the Policy in Spring 2016



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Why an EBFM Road Map?



- Guides implementation of the Final EBFM Policy
- Incorporates the menu of options for implementation and benchmarks for NMFS

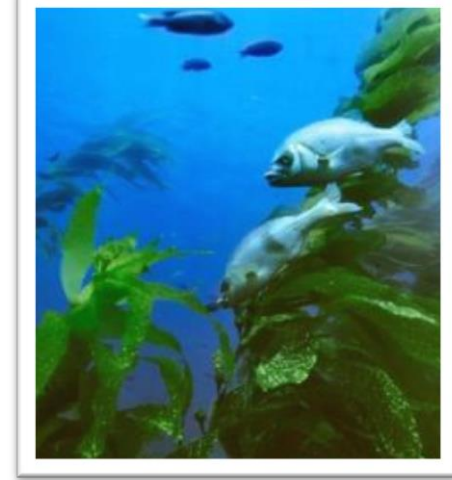
Key Questions:

- What does successful EBFM look like?
- What do we need for successful implementation of EBFM?
- How do we measure completion and success of EBFM?





EBFM Summary



- NOAA Fisheries is committed to EBFM
- The Roadmap serves as a guide for implementation of the EBFM Policy
- This guide will help us meet our EBFM mission more effectively
- We, in partnership with you, are already doing ~20-30% of the EBFM elements
- We want to continue dialogue with Councils and other interested public
- Draft Roadmap released for public comment likely in Spring 2016

Update: Implementing Stock Assessment Prioritization



Refresher: Stock Assessment Prioritization

- Response to budget inquiries
- Goal: Support sustainable fisheries
- Implement on regional basis
- Ranks provide objective advice

Prioritization Steps in Each Region



Regional Engagement for Assessment Prioritization

Council	Actions
NPFMC	<p>September 2015 – Discuss with Plan Teams</p> <p>February 2016 – Discuss with SSC, Advisory Panel, and Council members</p> <p>Fall 2016 – Tentative presentation of results to Plan Teams for consideration in asmt planning</p>
PFMC	<p>November 2015 – Initial discussion with CPS Advisors (continue after groundfish concludes)</p> <p>Winter 2016 – Work with GMT, GAP, and SSC to develop scores for groundfish stocks</p> <p>April 2016 – Present preliminary scores to Council members; discuss weighting approach</p> <p>June 2016 – Consider prioritization guidance in discussions for FY17 assessments</p>
WPFMC	<p>October 2015 – Discuss with SSC</p> <p>Winter/Spring 2016 – Continuing discussions re: Incorporating into existing WPSAR process</p>
SEDAR <ul style="list-style-type: none"> • SAFMC • GMFMC • CFMC 	<p>September 2015 - Initial discussion with SEDAR Steering Committee</p> <p>Late 2015 – Discussions with SAFMC SSC and Council members</p> <p>January 2016 – Discussions with GMFMC SSC</p> <p>March 2016 – Discussion with CFMC</p> <p>May 2016 – SAFMC SSC to review initial scores</p> <p>Late Spring 2016 – Revisit with SEDAR Steering Committee</p>
NRCC <ul style="list-style-type: none"> • NEFMC • MAFMC 	<p>May 2015 – Initial discussions on process</p> <p>Spring 2016 – Continue discussion re: Incorporating prioritization into regional planning process</p>