



NOAA
FISHERIES

Office of
Science &
Technology

National Perspectives

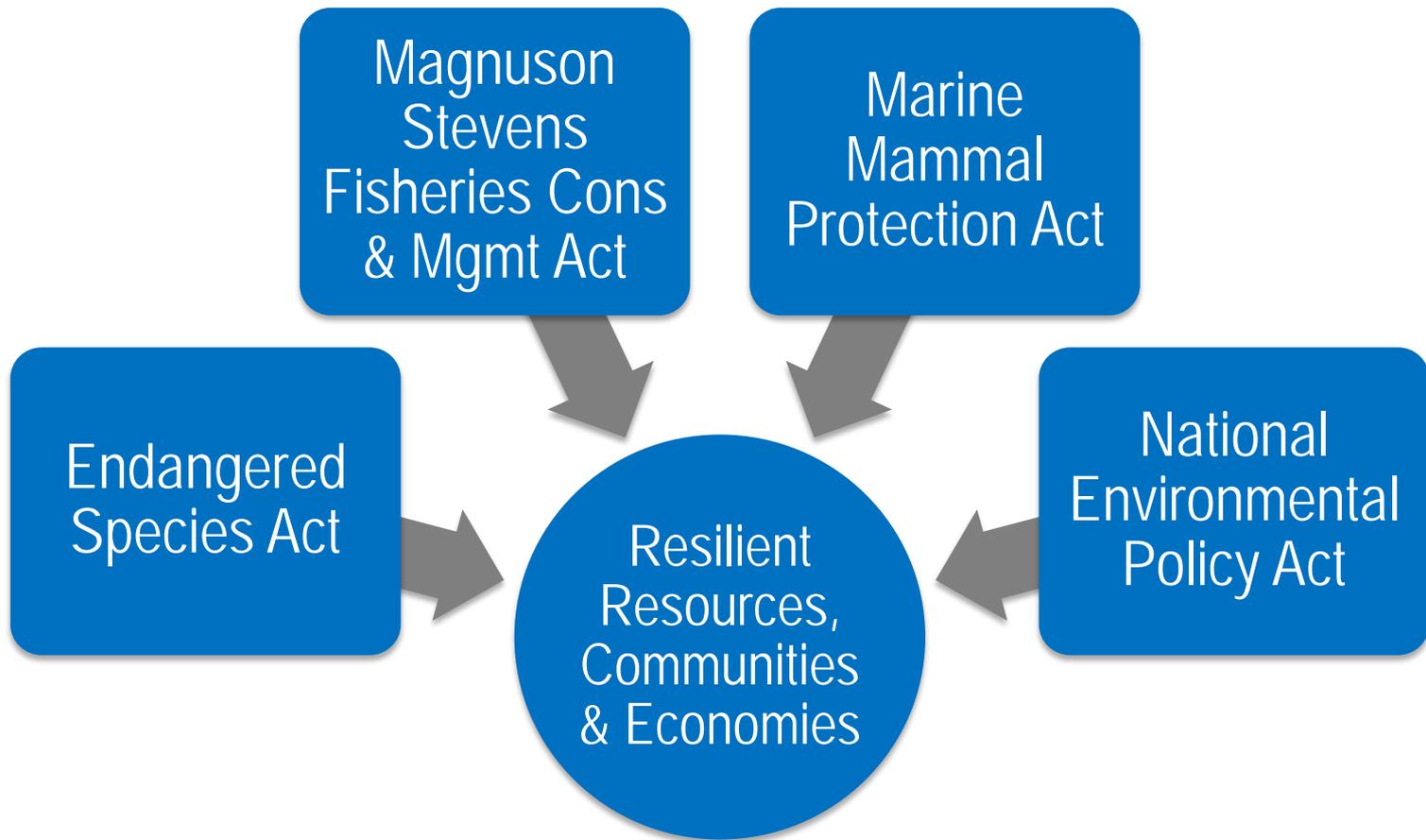
Kenric Osgood, Ph.D.
Chief, Marine Ecosystems Division

NEFSC Ecosystem and Climate Science Program Review
Leadership Roundtable Session

June 6, 2016

NOAA Fisheries Mission

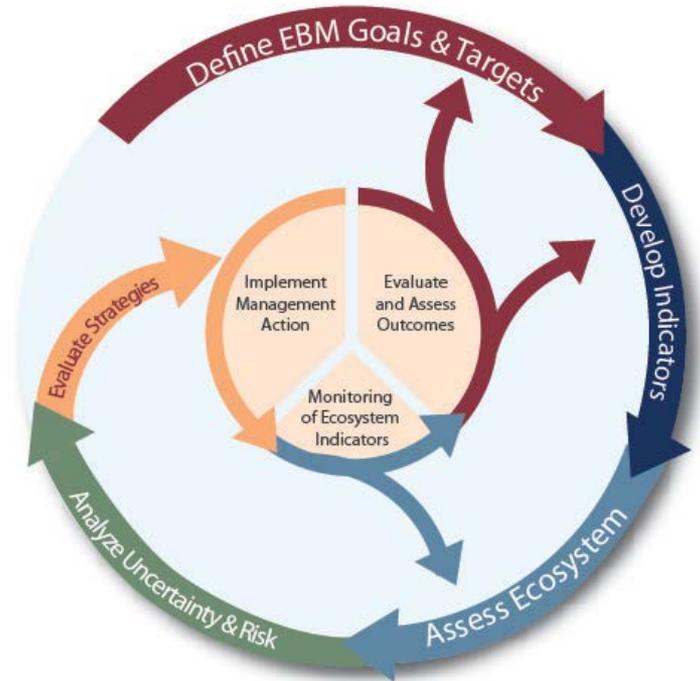
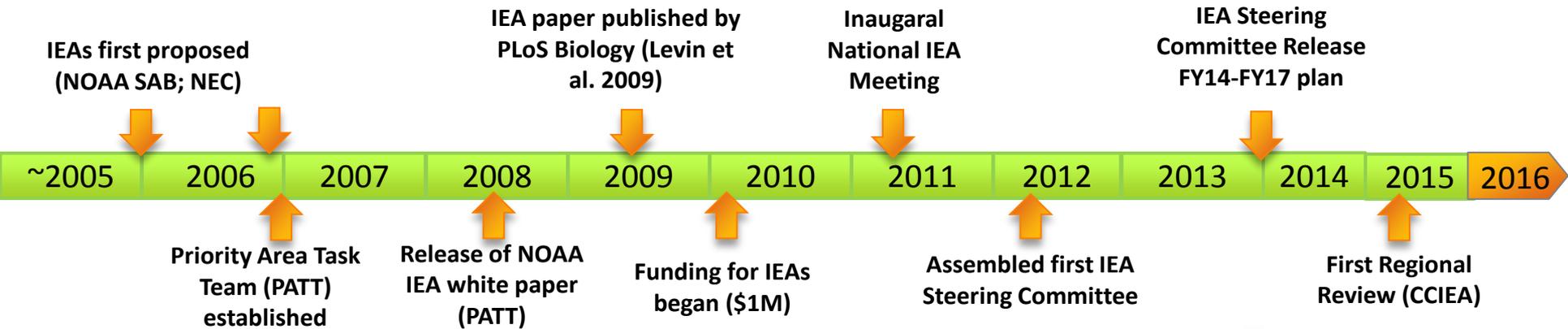
Science, Service, Stewardship



NOAA Integrated Ecosystem Assessments Origins

- NOAA SAB External Ecosystem Task Team report:
 - Oct 2006 - provided a report to NOAA with recommendations regarding challenges in meeting its ecosystem-related science requirements
 - A primary recommendation was for NOAA to undertake IEAs on a regional basis as a key product line
 - IEAs require collaboration among multiple LOs, with partners and clients
- NEC calls for IEAs:
 - Established IEA Priority Area Task Team (PATT)
 - 2008 Tech Memo – defined NOAA IEAs and their components

History - NOAA's IEA Program



NOAA IEA Program Structure

National IEA Steering Committee

Line Office members

NOS

NMFS

OAR

NESDIS

Regional members

CC

GoMX

NE

AK

PI

Advisory members

Climate

Socio-Econ

As needed

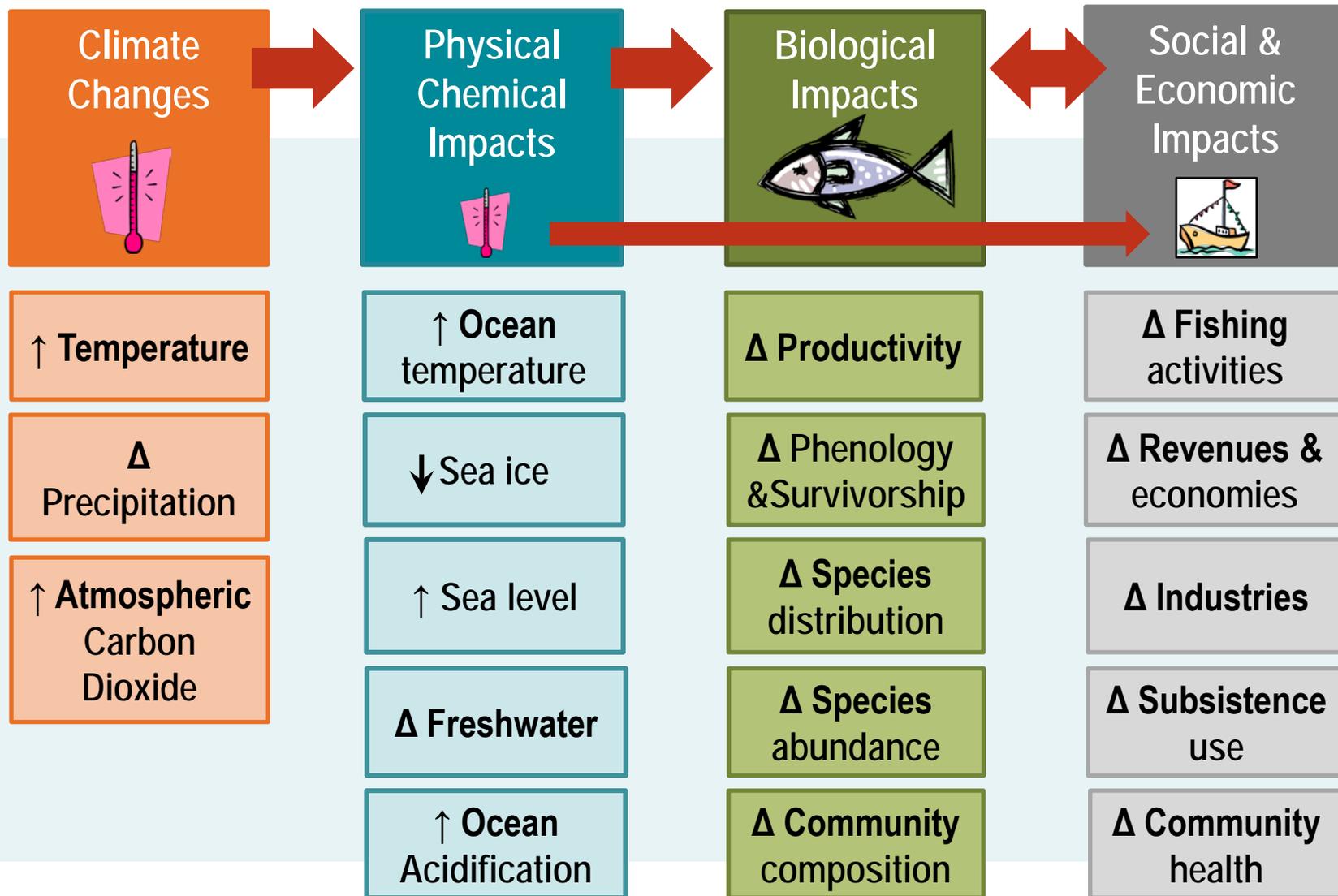
As needed

National IEA Program Office

IEA program manager



Climate Impacts in Marine Ecosystems



Marine Ecosystems and Climate

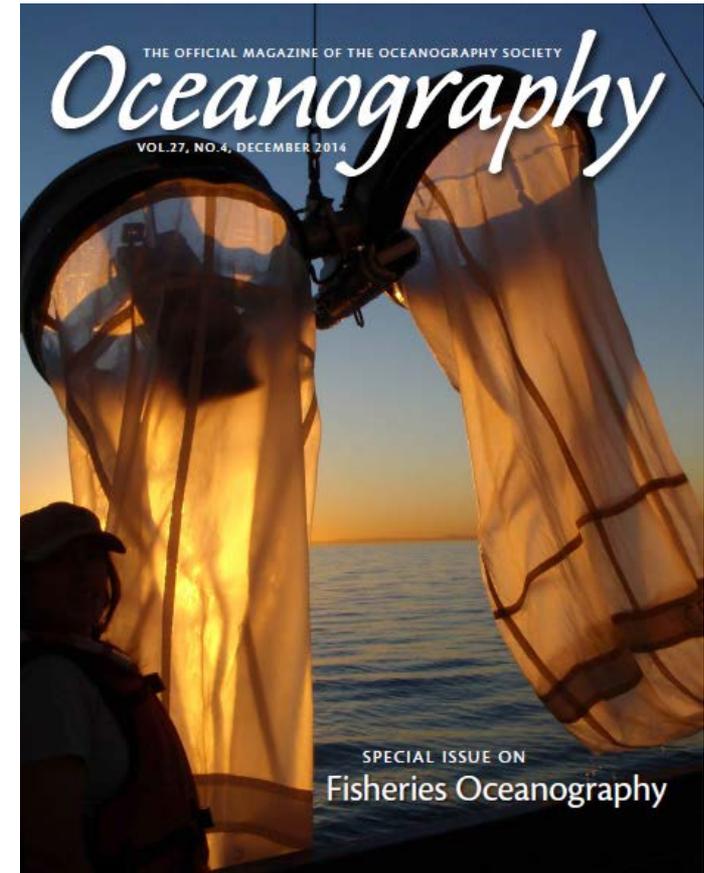
Goal: Provide leadership and support to increase the production, delivery and use of climate-related information to fulfill NMFS mandates

- Lead development and implementation of NMFS Climate Science Strategy
 - Regional Action Plans
- Support (fund) strategic science to understand and prepare for climate impacts on marine resources
 - Climate Vulnerability Assessments
 - Climate Impacts on Fish Stocks and Fisheries (NMFS-OAR)
- Develop partnerships to advance NMFS climate-related priorities

FATE: Fisheries And The Environment

Fisheries Oceanography

- Shifts in environment can have major impacts on fisheries productivity
- Knowledge of the linkage between environment and fisheries is critical
- Fisheries oceanography is an essential element of ecosystem approach to management

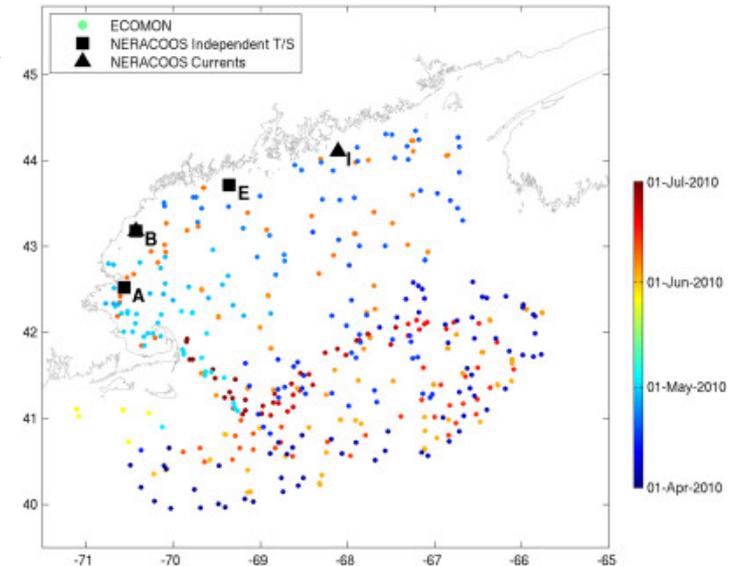


Advance the understanding of environmental impacts on living marine resources

- produce ecological and oceanographic products for improving fishery stock assessments, Ecosystem Status Reports, and IEAs

FATE: Fisheries And The Environment

- Provide research results to support scientific advice that drives EBFM through a tight tie to stock assessments, ESRs, IEAs
- Uses expertise of NMFS oceanographers and stock assessment scientists to advise the program
- FATE funds via a NMFS internal proposal process
- 8-12 projects per year funded; mostly 2-year projects; ~\$100 K per year
- NMFS Scientists are Lead PI; Numerous academic collaborators



Oceanographic transects, observation systems, and ecosystem monitoring are essential to fisheries oceanography