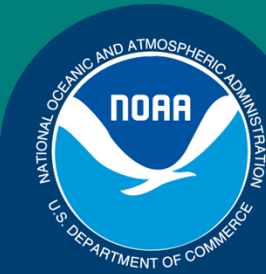


Science, Service, Stewardship

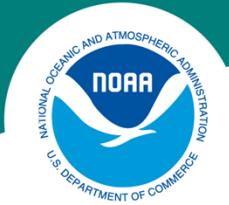
Northeast Fisheries Science Center Science Strategic Planning



**NOAA
FISHERIES
SERVICE**

August 2012

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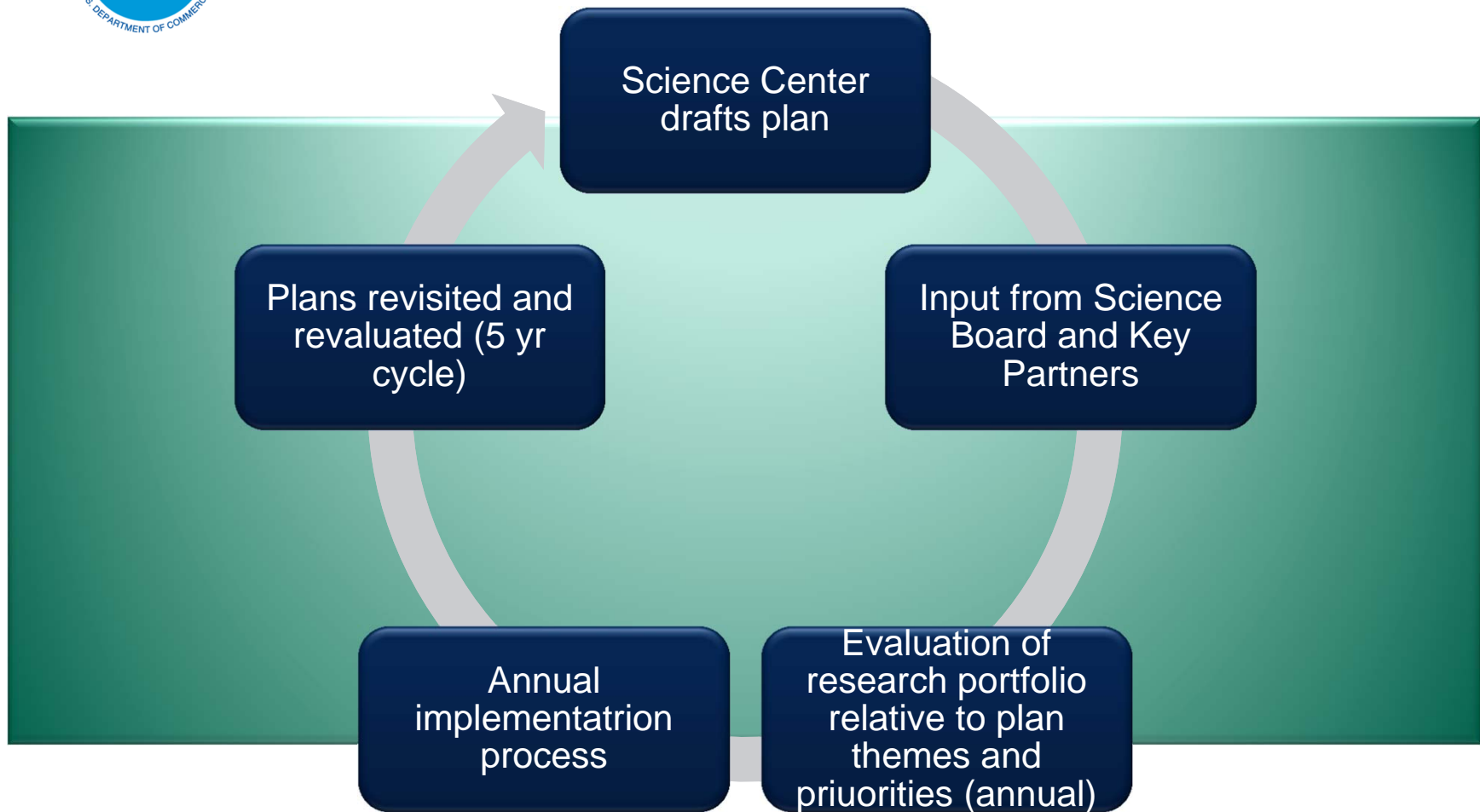


NOAA Fisheries Science Strategic Planning

- **Exercise by all five science centers and the Office of Science & Technology**
- **Position the center and the agency to document and prioritize science programs, to evaluate key synergies and to address budget challenges**
- **Importance of input from NERIO, Councils, ASMFC and other key partners**



Our Planning Process



**NOAA
FISHERIES
SERVICE**



Northeast Fisheries Science Center

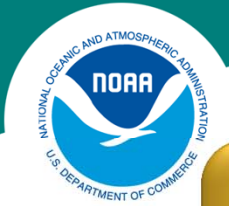
Employment

About 500 people
(FTEs+Contractors)

Locations

5 states and the
District of Columbia





The Big Picture

Framework for NEFSC Strategic Plan



**Continue
core
activities &
deliver core
products**



**Document
range of
work,
capabilities,
and
collections**



**Transition
science
program
toward
integrated
ecosystem
assessment**



Core Activities



Maintain data and sample collection and processing, and analytical capabilities to support single-species, multispecies, and ecosystem assessments for fish, invertebrates, marine mammals, sea turtles and human activities



Provide data, analyses, assessments, information, and scientific support to NMFS, its partner federal agencies, fishery management councils and commissions, and international treaty organizations



Four Research Themes



Monitor, value, and assess fish, invertebrate, and marine mammal populations, fisheries, marine ecosystems, and the natural and human communities associated with them



Understand, forecast, and mitigate effects of environmental change (including climate change) on marine ecosystems, coastal communities, and economies



Describe and assess the role of habitats in ensuring healthy marine ecosystems; healthy populations of fish, invertebrates, marine mammals, and sea turtles; and resilient coastal communities and economies



Understand the anthropogenic, ecological, and biological factors affecting development of sustainable marine aquaculture on the Northeast continental shelf

Monitor, value, and assess fish, invertebrate, and marine mammal populations, fisheries, marine ecosystems, and the natural and human communities associated with them



Maintain data and sample collection, processing, and analytical capabilities for fish, invertebrates, marine mammals, sea turtles, and human activities to support single-species, multispecies, and ecosystem assessments (Core Activity)



Provide data, analyses, information, and scientific support to information needs of NMFS, its partner federal agencies, fishery management councils and commissions, and international treaty organizations (Core Activity)



Improve, enhance, or expand fish, invertebrate, sea turtle, and marine mammal stock assessments and/or impact analyses, and biological and socioeconomic data collections to meet regulatory requirements; implement integrated ecosystem monitoring program



Conduct single species, multispecies, and integrated ecosystem assessments, and support ecosystem –based management within the Northeast LME to meet emerging management needs and mandates

Understand, forecast, and mitigate effects of environmental change (including climate change) on marine ecosystems, coastal communities, and economies



Monitor and understand the effects of multiple and cumulative anthropogenic and natural changes on marine ecosystems and develop mitigation measures or tools where appropriate



Forecast effects of environmental change on fish, invertebrate, marine mammal, sea turtle species, and human communities



Conduct research on the culture of filter feeding organisms as a means of removing excess nutrients from eutrophied waters.

Describe and assess the role of habitats in ensuring healthy marine ecosystems; healthy populations of fish, invertebrates, marine mammals, and sea turtles; and resilient coastal communities and economies



Assess and evaluate the importance of specific habitat types for populations of fish, invertebrate, turtle, marine mammal, and seabirds



Evaluate and forecast impacts of human activities including fishing on habitats of fish, invertebrates, marine mammals, and sea turtles.



Provide information and analyses to support coastal planning

Understand the anthropogenic, ecological, and biological factors affecting development of sustainable marine aquaculture on the Northeast continental shelf



Apply the contemporary tools of biotechnology and the biomedical field to applied research on the health of aquacultured organisms and their interactions with the environments in which they are cultured



Conduct research on developing aquacultural methods for marine mollusks and finfish



Conduct research on the culture and grow-out potential of integrated multitrophic mariculture in relation to optimizing carrying capacity at multiple spatial scales.



How do you provide input?

Councils / Commissions

- Formal engagement in the process

Stakeholders/ Public

- Draft Science Strategic Plan is available on our website
- Comment period extended until October 31st