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Office of Science
and Technology

National Science Activities

Updates on SSC-Relevant Topics

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August 16, 2022

Fisheries Integrated Modeling System

*A flexible suite of software
tools to support sustainable
fishery management*

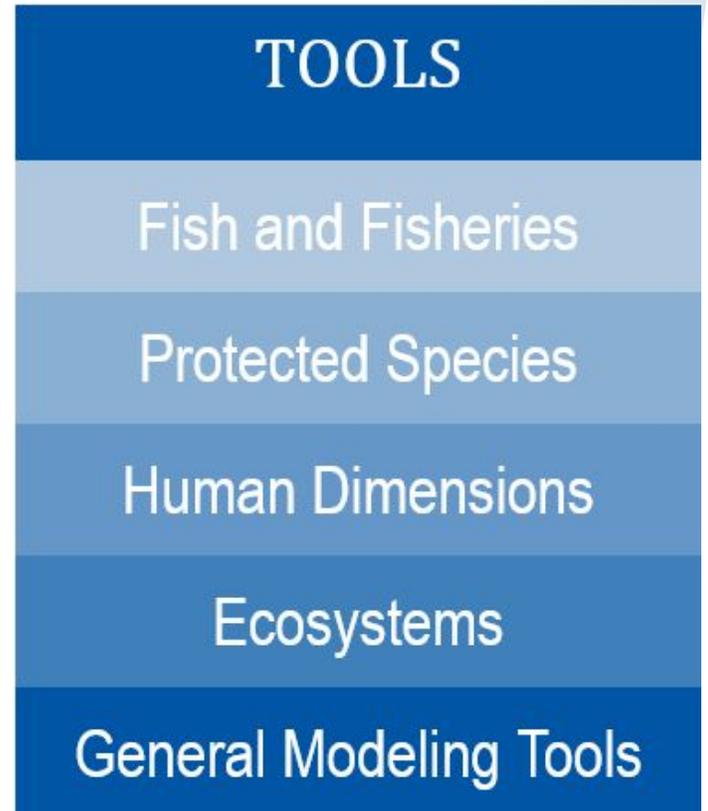
What is FIMS?

- A suite of software tools
- Stock assessment at core
- Connects to ecosystem, climate, and economic models/data
- Very flexible for innovative future modeling work
- Collaborative community effort



NOAA Fisheries Integrated Toolbox

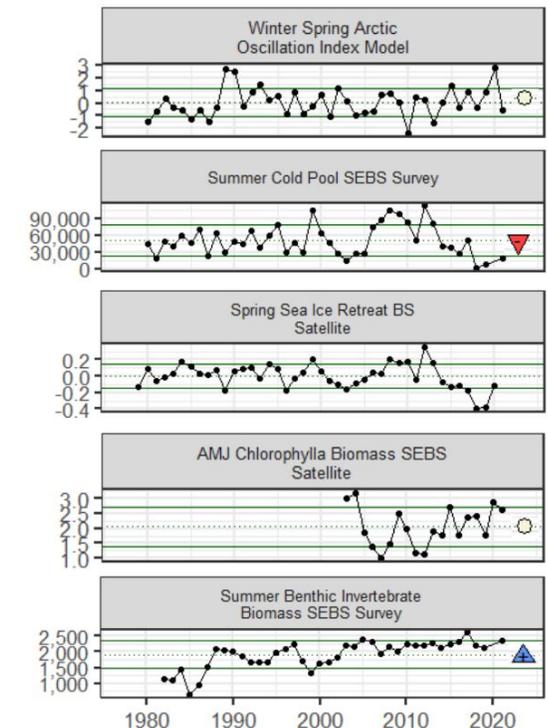
- Interdisciplinary collection of operational tools
- Facilitates advanced analyses
- Provides a testing ground for taking tools from research to operational



Ecosystem and Socioeconomic Profiles (ESPs)

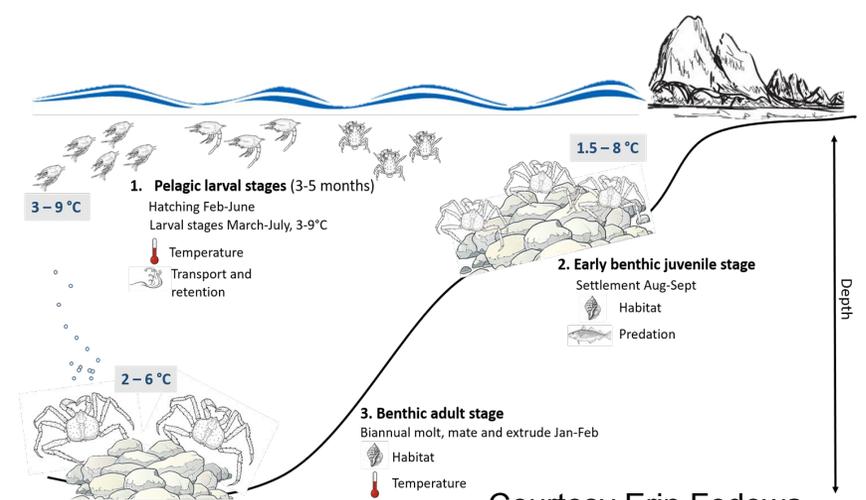
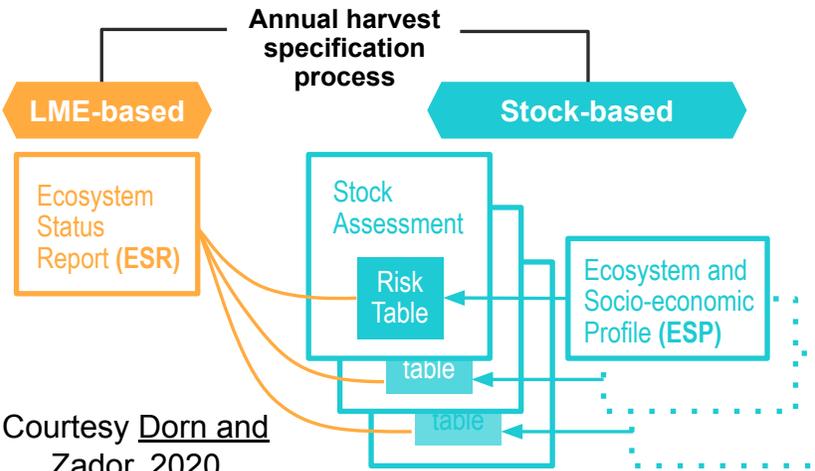
A standardized framework to facilitate the integration of ecosystem and socioeconomic factors within the stock assessment process

Rebuilding & TAC



Risk Tables

Linkages



Courtesy Erin Fedewa

Courtesy Dorn and Zador, 2020



Assessment Good Practices

CAPAM Good Practices Workshop

- October 2022
- Finale in series of “Good Practices in Stock Assessment Modeling” workshops organized by CAPAM
- Goal is development of a *Good Practices Guide*

U.S. Assessment Model Diagnostics

- Document developed by national working group in NOAA Fisheries
- Documents model diagnostics currently used, describes regional differences, and provides recommendations for best practices

Distribution Mapping and Analysis WG

- Working to advance the development, delivery, and use of species distribution information and tools
- Currently working to make species distribution model climate scenario forecasts for key species broadly accessible

National Stock Assessment Workshop

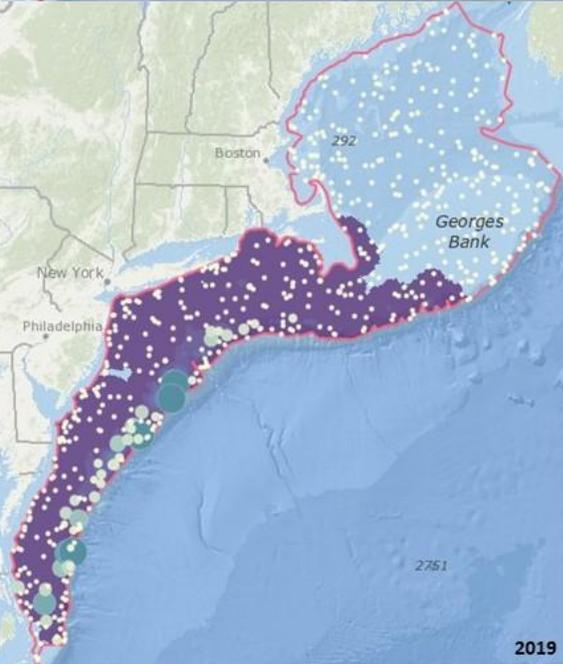
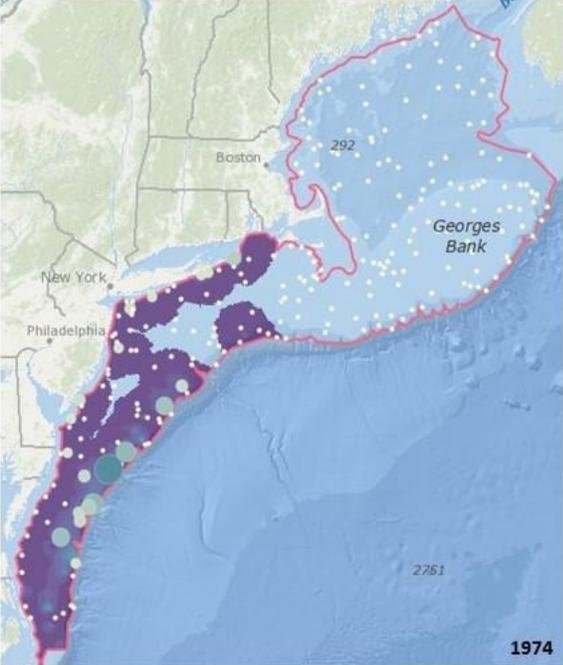
- Planned for May 2023
- Theme: Spatial Modeling
- Goals: Allow NOAA Fisheries assessment scientists to collaborate, identify emerging priorities, and establish good practices for stock assessment methods



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Distribution Mapping and Analysis Portal (DisMAP)

- Provides tools to visualize, analyze species distributions over time
- Access distribution info for 900+ marine species
- Builds on OceanAdapt effort
- Supports spatial decision making



National Standard 1 Tech Guidance

1. **Status Determination Criteria**

Status: Initial internal reviews

Next Steps: Presentation to the CCC in October, 2022; opportunity for Council review of document to follow

2. **Carry-Over and Phase-In Provisions**

Status: [Published](#)

3. **Data-Limited ACL Alternative Approaches**

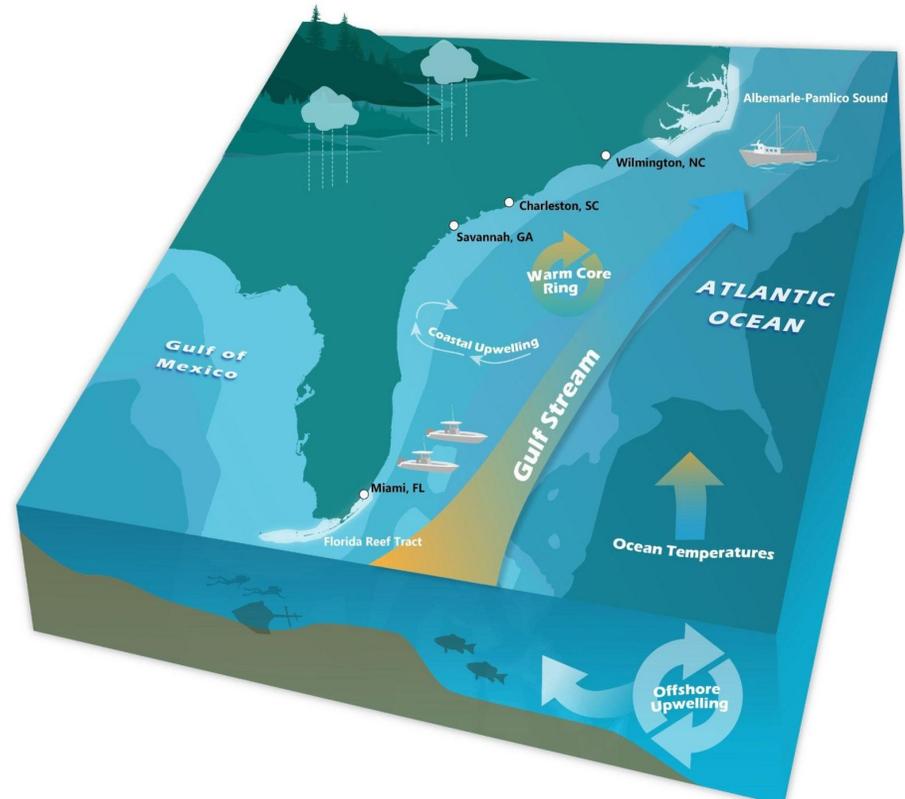
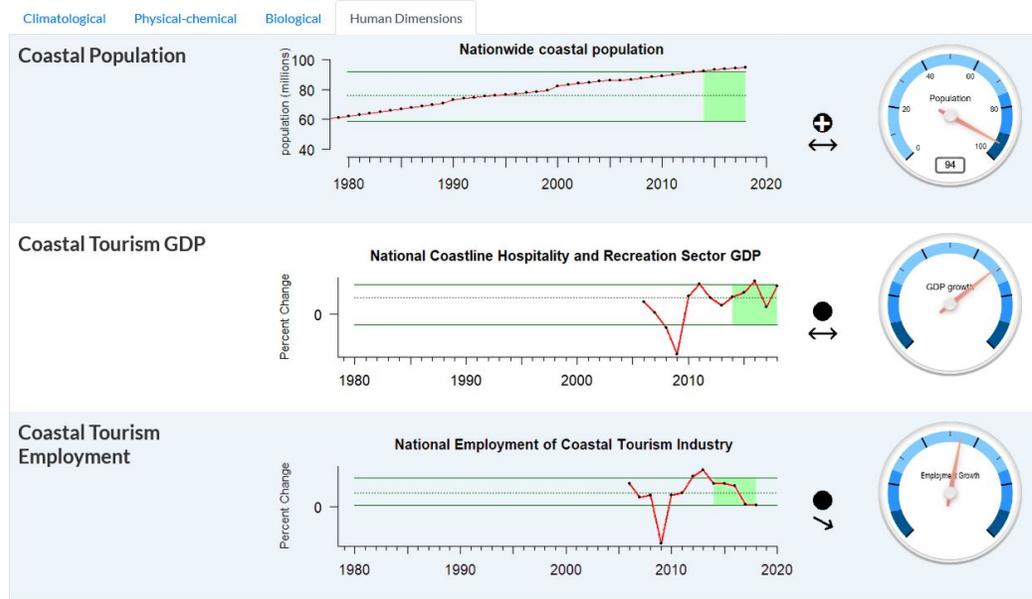
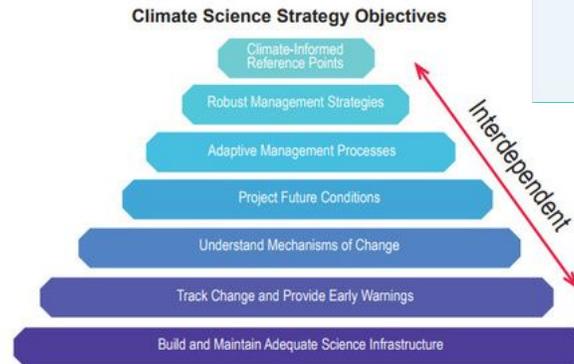
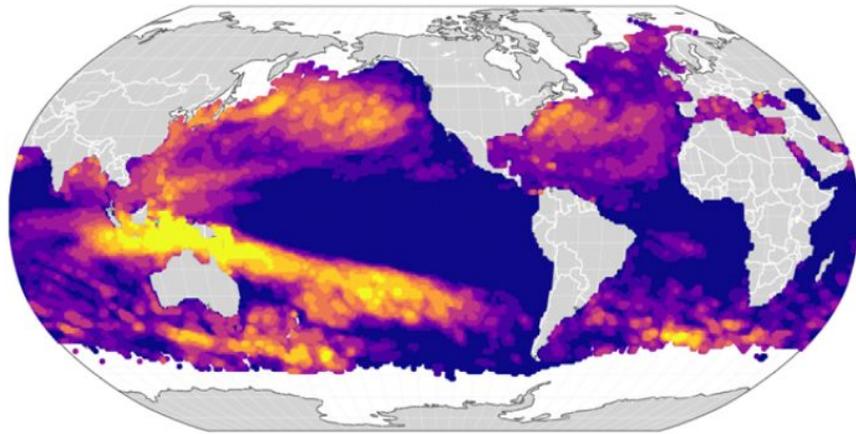
Status: Final clearance

Next steps: Publication anticipated by end of year

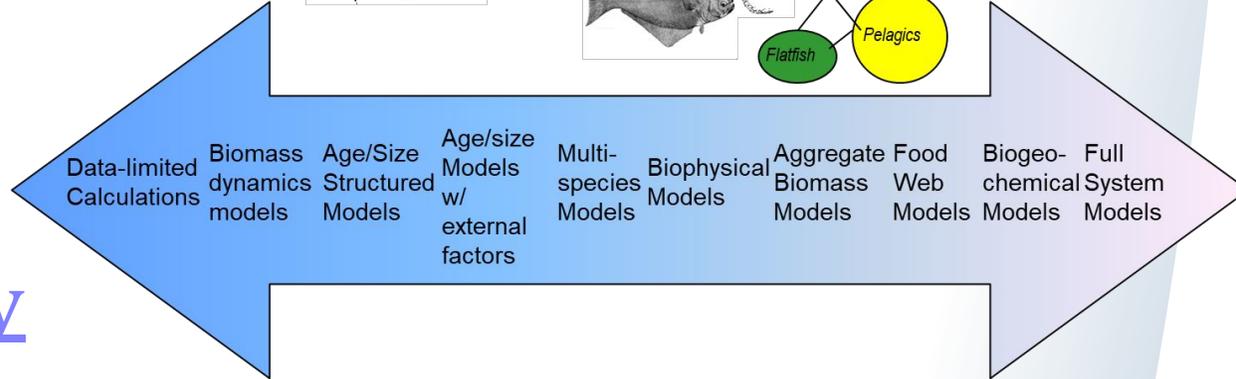
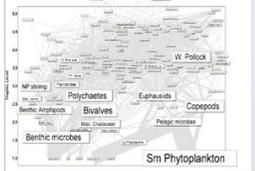
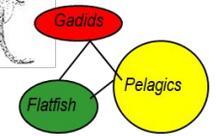
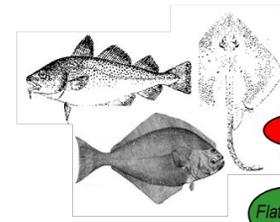
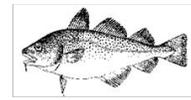
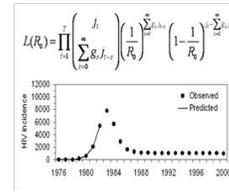


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Applied Climate Science



Ecosystem Modeling



- Ecosystem Modeling Strategy
- Applying ecosystem modeling to living marine resource management
- Multispecies modeling investigations

