EAST COAST CLIMATE CHANGE SCENARIO PLANNING (ECSP)

Update to SAFMC March 2022

Next Steps: Activities and Timings

Steps in this Multi-Year Initiative

Orientation: establish draft objectives, expected outcomes and project focus

Scoping: reach out to stakeholders to gather input on forces of change that could affect fisheries over the next 20 years

Exploration: analyze forces driving change in greater detail

Creation: conduct work-shop sessions to construct and discuss scenarios

Application: use scenarios to identify actions and recommen-dations

Monitoring: identify key indicators to monitor change and outline next steps

Drivers of Change webinars (February/March 2022)

Scenario creation workshop (April-June 2022)

Possible governance and management actions (July-December 2022)

Monitoring phase (January-March 2023)

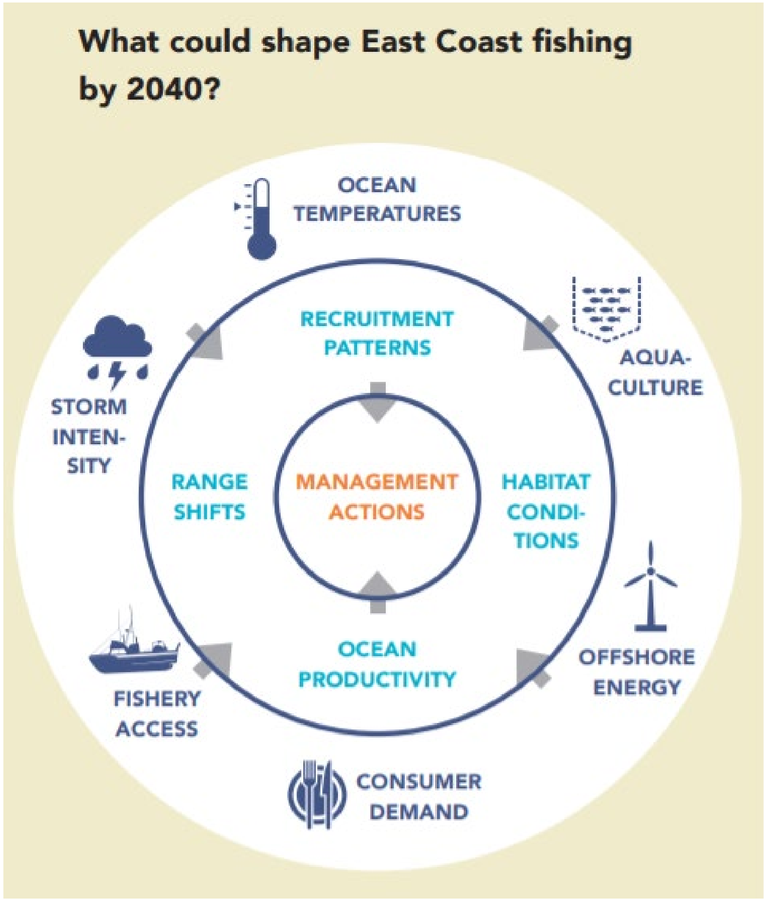
Exploration Phase: Drivers of Change Webinars

Purpose:

(1) Education: Share information about and discuss the key drivers of change that could shape East Coast fisheries over the next 20 years. These will become the "building blocks" for the next phase of this process: Scenario Creation.

(2) Engagement: Provide an update and opportunity for participants to re-engage with the material.

(3) Focus: Set the scene for the next phases, ensure participants know the focus is on changing stock availability & distribution, and that the overall goal is to identify what this means for fishery governance and management and how our system can best adapt.



Format:

One keynote presentation will summarize what is known and unknown. Handful of invited panelists will share additional perspectives. Opportunity for questions, comments and limited discussion.

Exploration Phase: Drivers of Change Webinars

Date	Topic	Example Drivers	Keynote
Monday, February 14 3-4:30pm ET	**Oceanographic**	Increasing ocean temperatures, sea level rise, ocean acidification, ocean currents	**Dr. Charles Stock** Research Oceanographer, NOAA/Geophysical Fluid Dynamics Laboratory at Princeton University
Wednesday, February 23 3-4:30pm ET	**Biological**	Changing spatial distributions, changing abundance and/or productivity of stocks, habitat loss, changes in predator/prey interactions, rate of ecosystem change	**Dr. Janet Nye** Associate Professor, University of North Carolina at Chapel Hill
Wednesday, March 2 3-4:30pm ET	**Social and Economic**	Competing ocean uses, community impacts, changing consumer demand, loss of working waterfronts	**Dr. Douglas Lipton** Senior Research Scientist for Economics, NOAA Fisheries, Headquarters

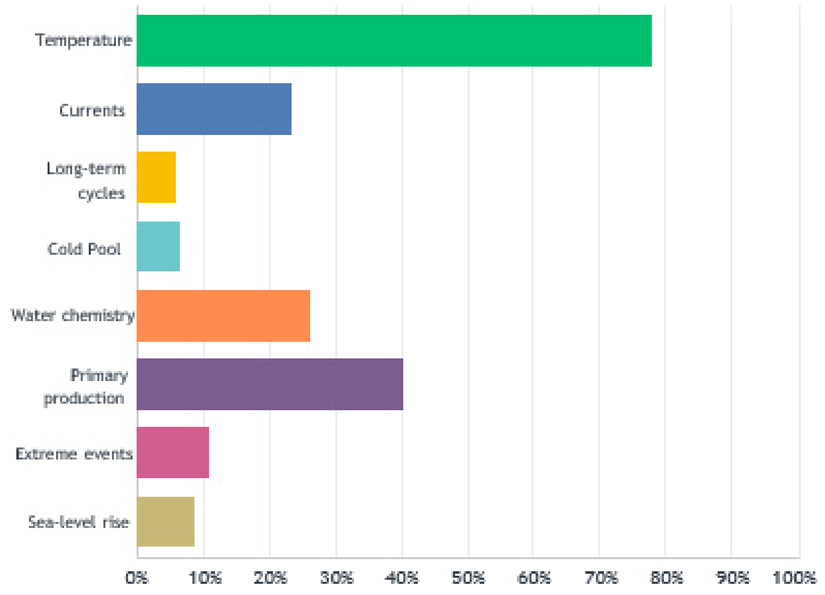
Exploration Phase: Drivers of Change Webinars

East Coast Climate Change Scenario Planning

Exploration Webinar #1: Oceanographic Drivers of Change
February 14, 2022

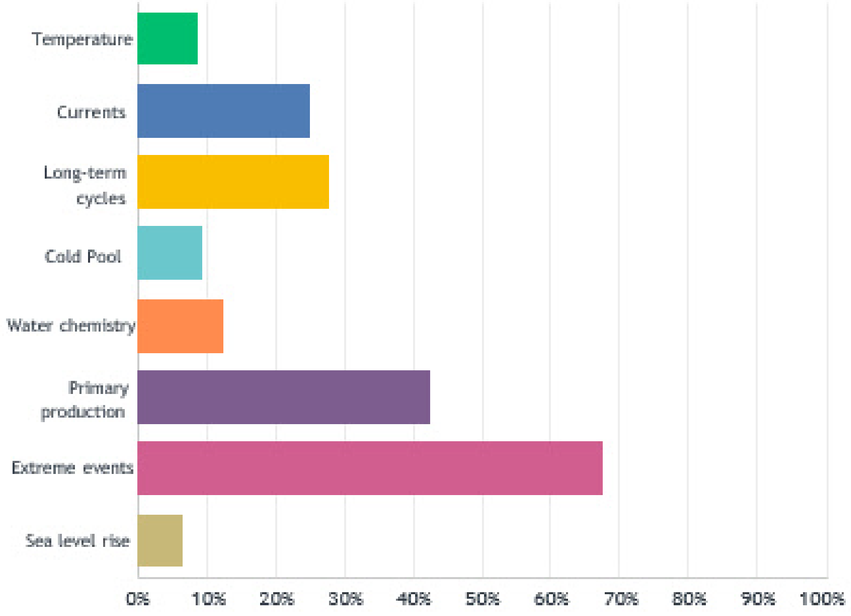
Q1 Of these oceanographic drivers of change, which do you feel will have the most impact on East Coast fisheries / your activities over the next 20 years?* (Please select TWO answers)

Answered: 136 Skipped: 0



Q2 Of these oceanographic drivers of change, which do you feel are the most unpredictable over the next 20 years? (Please select TWO answers)

Answered: 136 Skipped: 0

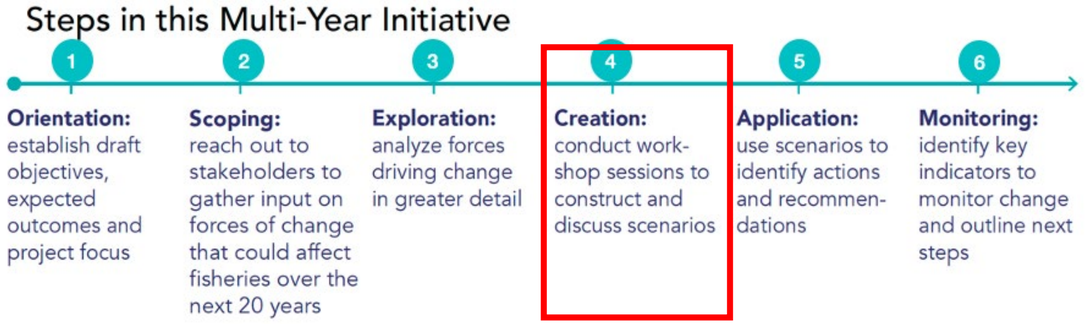


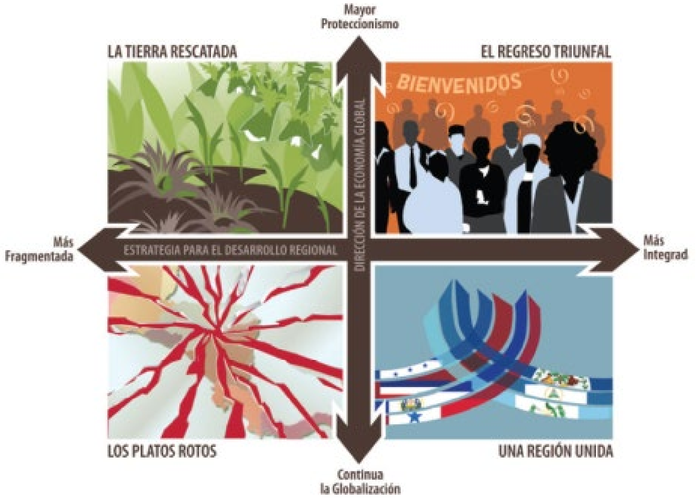
Scenario Creation Phase (Late Spring 2022)

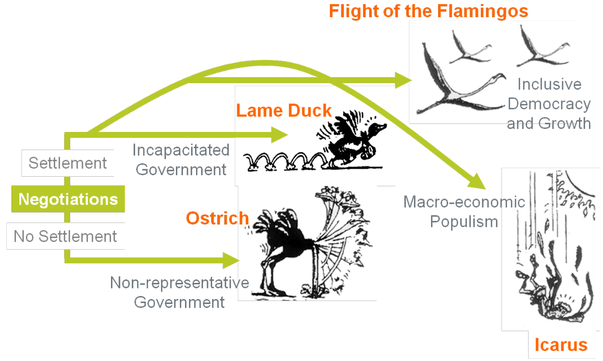
Participants in a scenario creation workshop will use the most important Drivers of Change to create 3-5 scenarios (stories) about how climate change might affect East Coast fisheries in the next 20 years.

Each scenario will describe a different way in which future oceanographic conditions might combine with future biological conditions and future social / economic conditions.

The scenarios will **not** be predictions. They will be plausible, challenging, relevant, memorable stories that describe what we **might** face over the next 20 years.



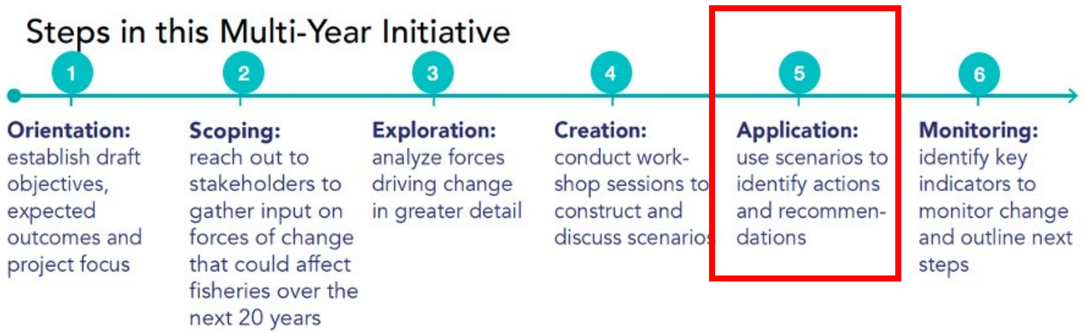




Application Phase (July – December 2022)

The 3-5 scenarios will be used a **platform** for important discussions about future fishery governance and management issues.

- Under each scenario, what are the particular challenges that fisheries governance and management would face?
- How well would our current fishery governance and management arrangements cope if these new scenario conditions were to occur?
- What needs to change in fisheries governance and management to prepare for these scenario possibilities?
- What are the tools and processes that need to be advanced <u>now</u> in order to ensure that fisheries are governed and managed effectively in an era of climate change?



Project Outputs

- ❑ **A set of scenarios** a few stories that describe – in qualitative terms – different ways in which a changing climate might affect the future of East Coast fisheries
- ❑ **A better understanding** of the challenges and opportunities facing fishery management in the future
- ❑ **A set of near-term and long-term management priorities** that help achieve fishery management objectives under a range of different future conditions
- ❑ **Policy recommendations** for broader governance changes that improve our ability to adapt to future scenarios
- ❑ **A list of** data gaps, research needs, and monitoring needs for changing conditions
- ❑ **A framework** for ongoing conversation and idea generation for all stakeholders to use