

## **Appendix: Shrimp Futures Project**



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# Shrimp futures and NMFS role in supporting sustainable shrimp fisheries

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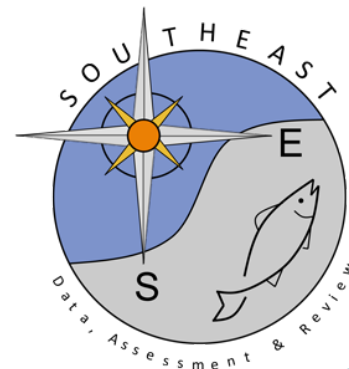


***NOAA Fisheries SEFSC and Gulf States Marine Fisheries Commission***

U.S. Department of Commerce | National Oceanic and Atmospheric Administration | National Marine Fisheries Service

# NMFS Role in Supporting Sustainable Shrimp Fisheries through Management

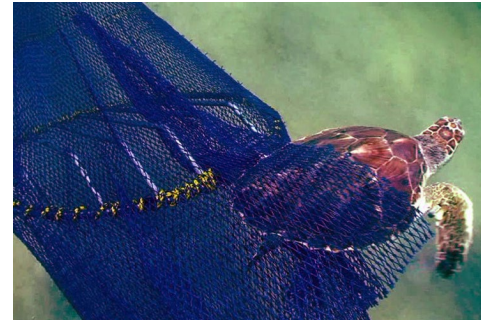
- **Stock assessments**
  - **Historic**
  - **On-going (SEDAR 87)**
- **Surveys / Data collection**
  - **Port agents/logbooks - fishery dependent**
  - **SEAMAP - fishery independent**
  - **Observer program**
  - **Catch, Effort and economics data**
- **Fishery Management Plans**
  - **Gulf of Mexico and South Atlantic Fishery Management Councils**



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# NMFS Role in Supporting Sustainable Shrimp Fisheries through Management (cont)

- **Bycatch reduction engineering and technology transfer**
  - **Turtle Excluder Devices**
  - **Bycatch Reduction Devices**
- **Section 609 inspections**
- **Conservation for endangered and protected species**



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# NMFS Role in Supporting Sustainable Shrimp Fisheries in the Supply Chain

- Seafood Inspection Program **program (for exported seafood)**
- Seafood Import monitoring program **(to monitor imported seafood)**
- **National Seafood Strategy**

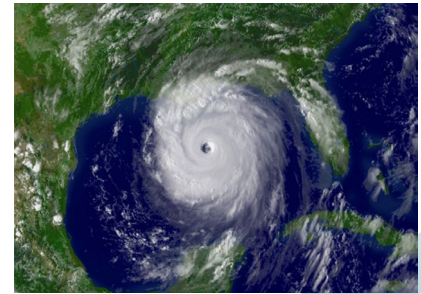


# 'Shrimp Futures' Project Objectives

- Characterize current state and major challenges
- Develop a short (2025), medium (2030) and long-term (2050) vision for the fishery
- Identify and address the major pathways, impediments and uncertainties towards achieving the visions



<https://www.keylargofisheries.com>



# 'Shrimp Futures' Project Actions

1. **Conceptual modeling:** encompassing economic, social, biophysical, and regulatory factors impacting the Southeastern US shrimp industry. This model will serve as the foundation for subsequent discussions.
1. **Vision Identification:** *"E.g. Profitable, sustainable, industry consisting of a diversified portfolio of wild-capture and aquaculture production, supporting the US economy and providing healthy seafood for the domestic consumers and a global market."*
1. **Key action Analysis:** Identify key actions that could achieve the vision
1. **Scenario Planning:** Future forecasts of:
  - The shrimp resource
  - The communities, human demographics and associated economics
  - Contrast status quo, no action alternative vs societal actions outlined above

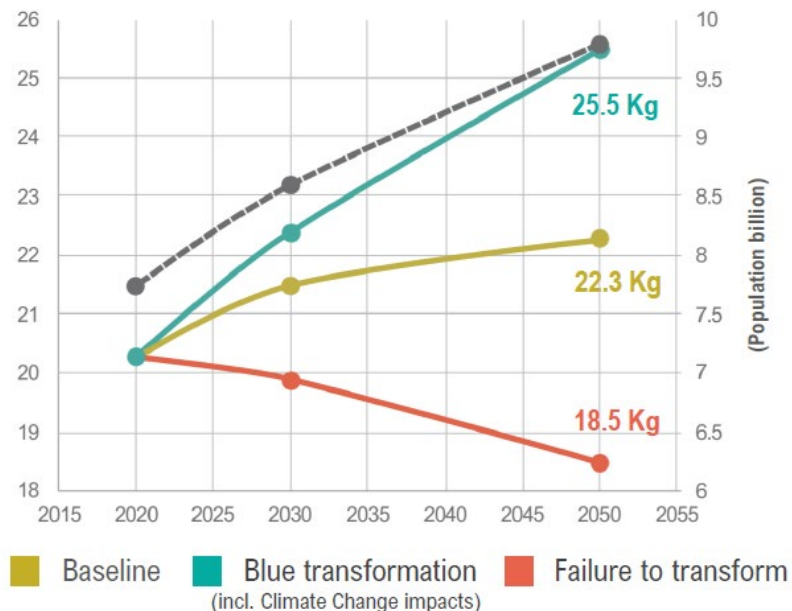


# Shrimp Futures



Raw shrimp plate,  
Osteria Donna Carmela  
Malta, 4/18/2024  
Ai Kimoto, photo credit

Per capita consumption (kg/yr)  
(Scenarios to 2050)



Growth of marine capture fisheries

Reduction in waste/bycatch

Sustainable aqua/mariculture



# key questions

## 1. Visioning

-Where does the shrimp industry (both the harvesting and processing sectors) want to be in 5 (2030), 10 (2035) and 25 (2050) years.

## 2. Conceptual mapping-

- Who and what is the 'industry': Harvesting, processing, wholesale, retail and restaurant sectors, and perhaps others. E.g. who do we need to include to get a complete mapping conceptual mapping

## 3. Scenario planning to inform Key Actions

- What are opportunities for the industry that we could partner with to meet its challenges.