

The State of Electronic Reporting in Atlantic Coast Fisheries

*Our vision is to be the principal source of fisheries-dependent information
on the Atlantic coast through the cooperation of all program partners.*

Why Electronic Reporting?



- **Benefits**

- Electronic forms address:
 - Human error
 - Legibility issues
 - Reduce recall bias
 - Increase timeliness of submission
- Near real time data are available
- In season data sets more complete
- Post season data available more rapidly

Better data = better understanding of species, more accurate models, informed management decisions

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Why Electronic Reporting?



- Who?
 - Commercial dealers
 - Commercial fishermen
 - For-hire captains
 - Biological Samplers
 - At-Sea Observers

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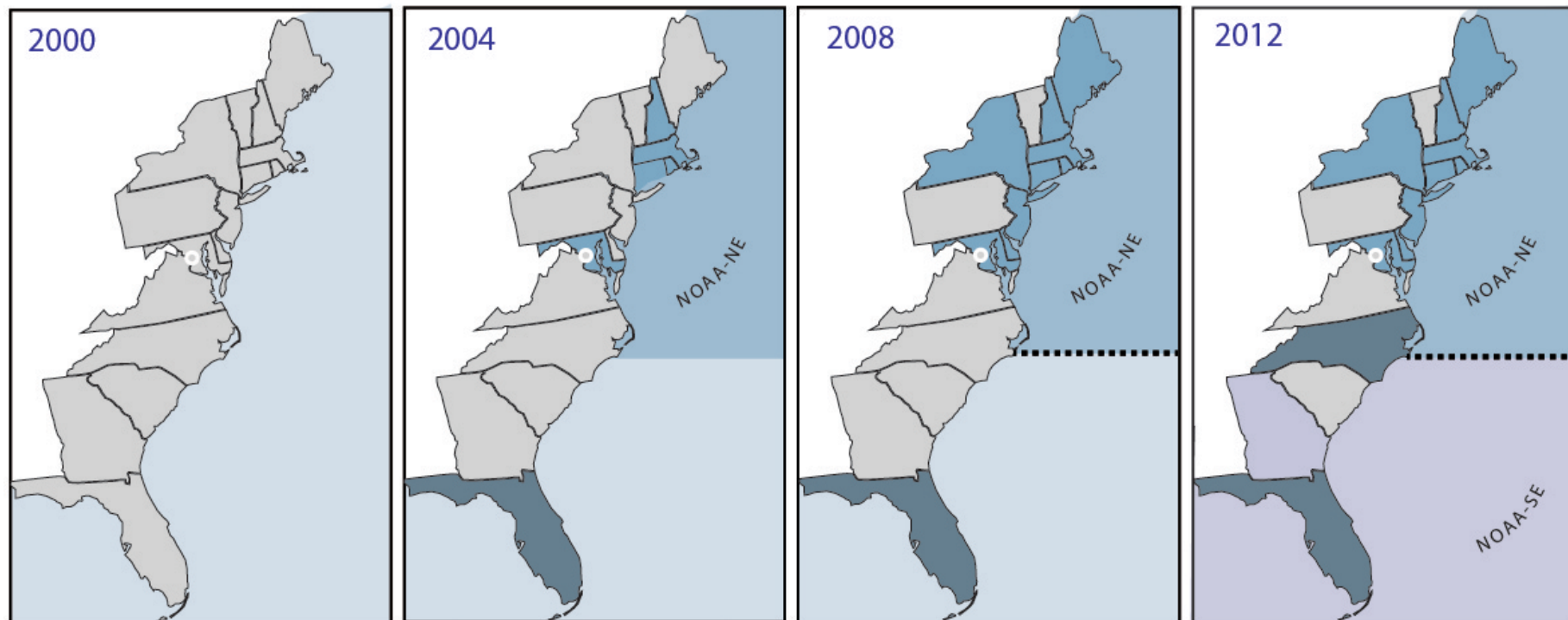


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Dealer Reporting

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Electronic Reporting for Dealers



Electronic only: GARFO, SEFSC, NH, RI, CT, NY, NJ, DE, HMS

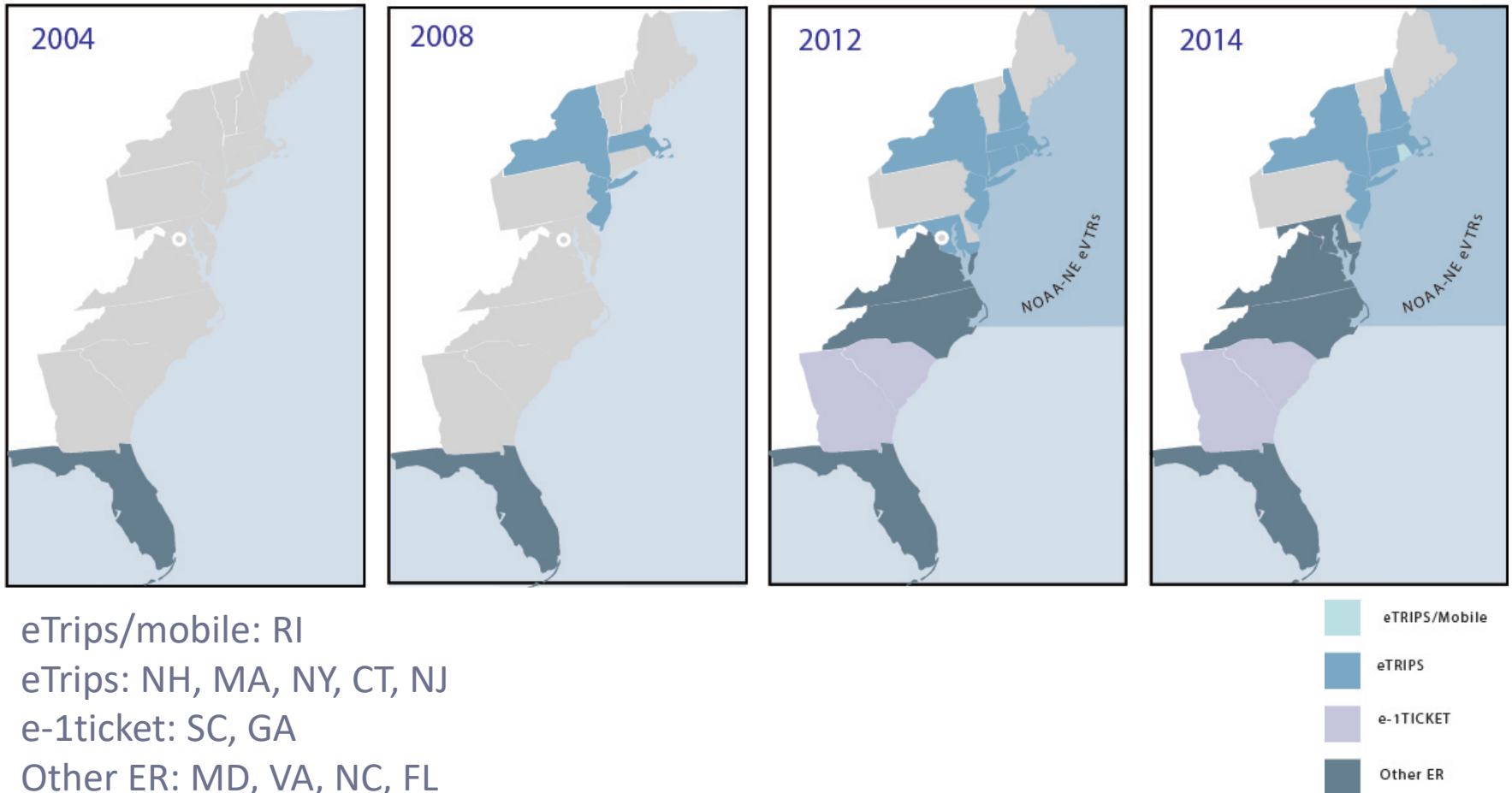
Electronic or paper: ME, MA, MD, VA(specific quota species), NC, SC, GA, FL

Dealers have been reporting landings electronically for years.

Commercial Harvesters Reporting

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Electronic Reporting for Fishermen



The transition to electronic reporting for commercial fishermen has been slower and more fragmented.

Federal Vessel Trip Reporting



- **GARFO**

- Paper or electronic VTRs
- Submit weekly or monthly (depending on species)
- Authorized electronic applications:
 - SAFIS eTrips/mobile,
 - FACTS
 - FLDRs
 - Ecotrust Canada Electronic Logbook
 - Dynamic Data Logger

- **SEFSC**

- Currently paper VTRs only
- Will accept eVTRs for NE permits
- Submit weekly

NE issues permits for:

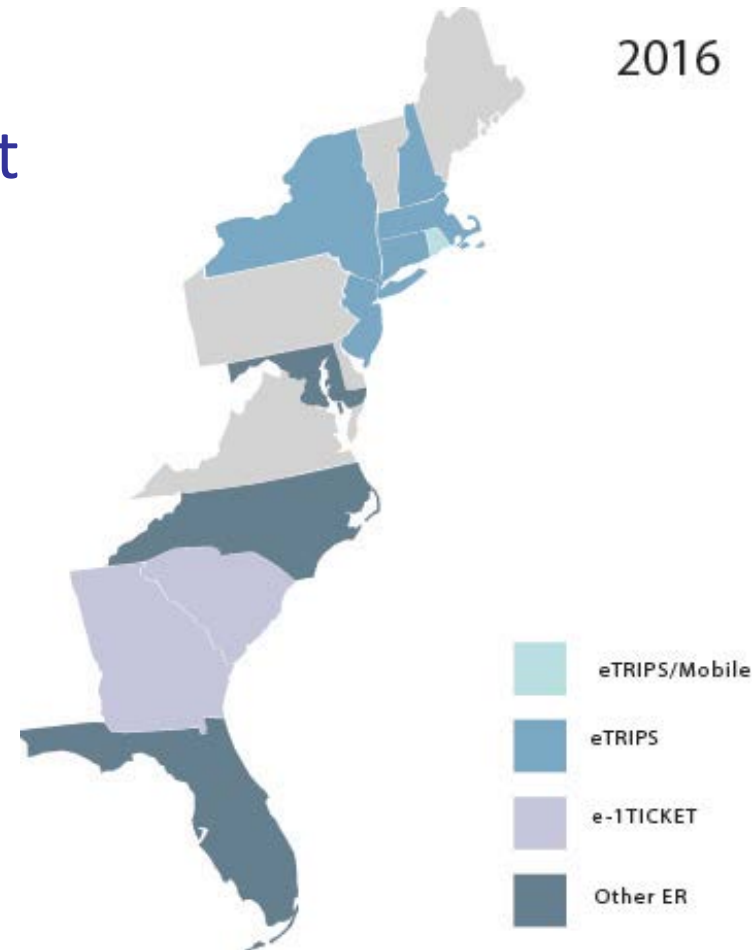
- American lobster
- Atlantic herring
- Atlantic deep sea red crab
- Atlantic salmon
- Atlantic sea scallop
- Atlantic sturgeon
- Black sea bass
- Bluefish
- Mackerel/squid/butterfish
- Monkfish
- NE Multispecies
- Red crab
- River herring
- Scup
- Skate
- Spiny dogfish
- Summer flounder
- Surfclam/ocean quahog
- Tilefish
- Whiting

SE issues permits for:

- South Atlantic Snapper-grouper
- GoM Reef Fish
- Sharks
- Mackerel (King & Spanish)
- Atlantic dolphin/wahoo
- South Atlantic wreckfish

State Trip Reporting

- Based on fisherman's permit
- Frequency of reporting dependent on state, species, and season
 - Generally trip-level, submitted on monthly basis
 - More frequent for quota-managed species
- Mode of reporting
 - Electronic or paper: RI, MA, CT, NY, NJ, NH* (eTrips); MD (FACTS)
 - Paper only: VA**, ME
 - Dealers report all data: SC, GA (e-1ticket); NC, FL (State trip tickets)



* NH uses eTrips for lobsters

** VA has electronic harvester reporting system, 10% of reports submitted annually are electronic.

For-hire Reporting

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Federal For-hire Reporting Methods

Mixed

- HMS

- Report swordfish, billfish, bluefin tuna within 24 hours of landing.
- Electronic.

- GARFO

- Submit paper or electronic VTRs monthly.
- Surveyed through MRIP.
- MRIP uses VTR data in recalculation at end of year.

- SEFSC

- Headboats submit trip-level reports electronically, weekly.
- Charter vessels surveyed through MRIP.
 - Intercepts and for-hire telephone survey

Federal for-hire permits granted in Northeast for:

- northeast groundfish
- summer flounder
- scup
- black sea bass
- squid/mackerel/butterfish
- tilefish
- bluefish

Federal for-hire permits granted in Southeast for:

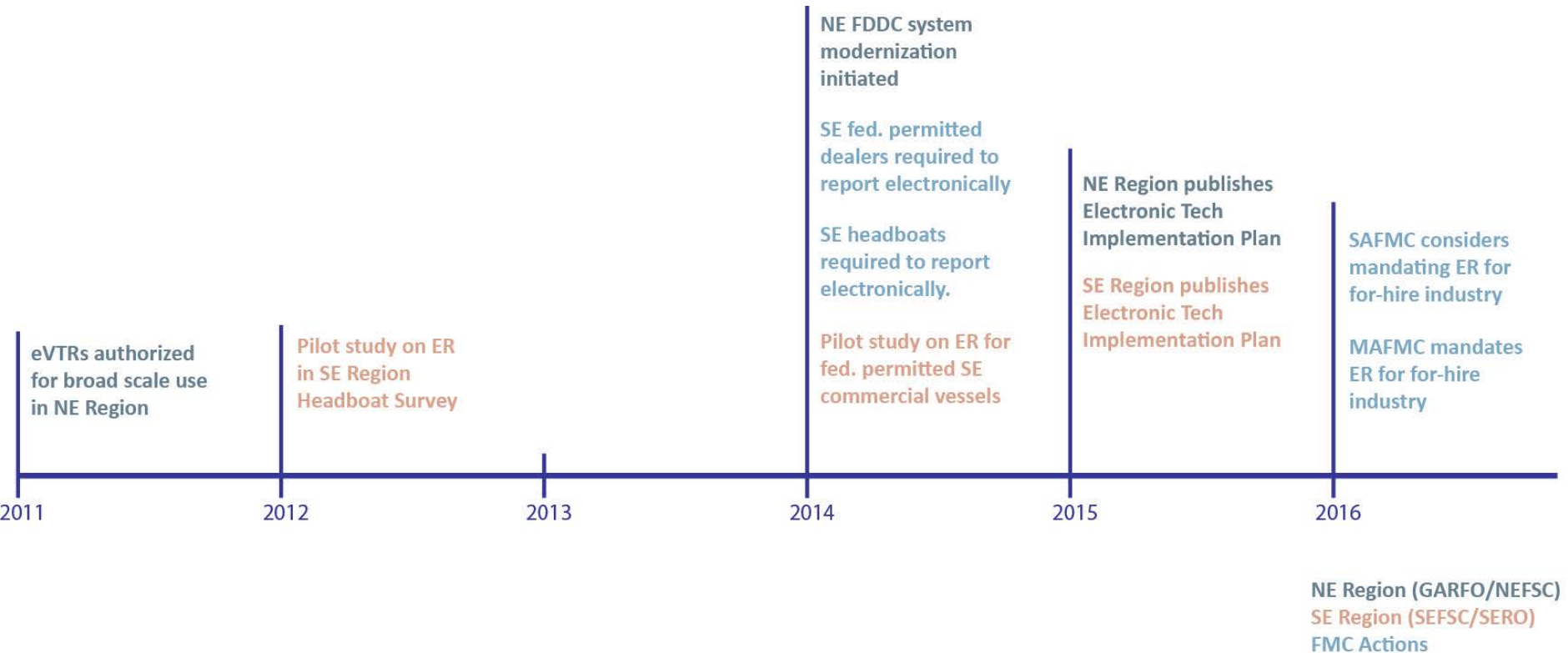
- dolphin/wahoo
- coastal migratory pelagics
- snapper-grouper

State for-hire reporting varies widely.



- No mandatory reporting:
 - ME, MA, DE, NC, GA, FL
- Paper or electronic reporting:
 - CT (black sea bass), NY, MD, VA (striped bass), SC
- Paper reporting only:
 - NJ (striped bass bonus program)
- Mandatory electronic reporting:
 - RI

Recent Electronic Reporting Efforts



What is the Role of ACCSP?



- **Consistent standard**
 - Allows for universal data transmission and translation
- **Collaborative community**
 - We solve the problems together
- **Support new initiatives**
 - Projects both by the Program and Partners

What is the Role of ACCSP?



- **Data Collection**

- SAFIS Dealer Reporting (eDR, eDR/Mobile, File Upload)
 - Near universal use in Federal reporting
 - In use in many states
 - Serves as the collection point and home for HMS eDealer
- SAFIS Trip Reporting (eTrips, eTrips/Mobile)
 - In use in many states
 - Mobile tool approved for GARFO VTRs

SAFIS Dealer Reporting



- eDR
 - Conventional on-line interface
 - Very flexible, designed to be agency aware
- eDR/Mobile
 - Tablet interface
 - Has swipe card capabilities
 - Works on all three major operating systems
- eDR/Upload
 - Utilizes upload capabilities from other systems.

SAFIS Trip Reporting



- eTrips
 - In production for over a decade
 - Used in many states as a data entry tool
 - Very flexible, agency aware
 - Voluntary use by harvesters

SAFIS Trip Reporting



- eTrips Mobile
 - Allows users to complete and submit trip reports on a mobile device.
 - Works on tablet, independent of internet connection.
 - Satisfies federal VTR reporting requirements in the Greater Atlantic Region.
 - Authorized by GARFO in 2016.
 - Users MAY still need to report to their state as well-dependent on state and species harvested.
 - Commercial and For-Hire
 - Inputs landings data into SAFIS in real time

What is the Role of ACCSP?



- **Data Warehousing**

- Dealer and trip reporting feeds established from all partners
- SAFIS data available in near real time
- Limited biological data

- **Data Distribution**

- Partners utilize query interface for quota and compliance monitoring
 - Near real time feed from SAFIS
- New query interface deployed
 - Includes prior year back to the 1950s for some species

Future Directions



- Electronic trip reporting will expand
 - Ongoing pilots in SC, MA and the SE Region
 - Mandatory reporting in select fisheries next year
- SAFIS will be rebuilt
 - Integrated reporting
 - Workgroup forming after the New Year
 - Additional modules
 - Biological
 - At-Sea/Bycatch sampling

Next steps: planning for mandatory trip reporting



- Need to establish roles and responsibilities
 - Where do the regional councils and state agencies fit in?
 - Who will provide training and support?
- Conduct outreach and training to ease transition
 - Where to focus efforts? i.e. charter boat associations.
 - How? In-person workshops, webinars, etc.
 - Who should be present at workshops? Federal and state representatives?
- Provide ongoing technical support
 - Helpdesks
 - Support from port agents
 - Grace period for new users

ACCSP will provide eTrips/mobile outreach and technical support to users.



- Series of in-person training workshops
 - Work with charter boat associations to organize.
- Webinars
- 24-hour Helpdesk
 - through Harbor Light Software
- Resources on website
 - Decision tree
 - FAQs
 - Video tutorials



Questions?



Federal Authorities and Species Managed

NEFMC

- NE Multispecies
- Sea scallop
- Monkfish (joint)
- Herring
- Skates
- Whiting (small mesh multispecies?)
- Red crab
- Spiny dogfish (joint)
- Atlantic salmon

MAFMC

- Summer flounder, scup, black sea bass
- Mackerel, squid, butterfish
- Surfclams/ocean quahog
- Bluefish
- Tilefish
- Spiny dogfish (joint)
- Monkfish (joint)

SAFMC

- Snapper grouper complex
- Coastal migratory pelagics (cobia, king mackerel, Spanish mackerel)
- Dolphin wahoo
- Golden crab
- Shrimp
- Spiny lobster
- Sargassum

HMS Species

- Atl sharks
- Swordfish
- Bigeye, albacore, yellowfin, skipjack tunas
- Bluefin tuna

Northeast Region Species

- American lobster
- Atlantic herring
- Atlantic deep sea red crab
- Atlantic salmon
- Atlantic sea scallop
- Atlantic sturgeon
- Black sea bass
- Bluefish
- Mackerel/squid/butterfish
- Monkfish
- NE Multispecies
- River herring
- Scup
- Skate
- Spiny dogfish
- Summer flounder
- Surfclam/ocean quahog
- Tilefish
- Whiting

Southeast Region Species

- Atlantic dolphin/wahoo
- South Atlantic golden crab
- GoM Reef Fish
- Spiny Lobster
- South Atlantic Snapper-grouper
- South Atlantic wreckfish
- South Atlantic rock shrimp
- Mackerel

State Authorities and Species Managed via ASMFC's ISFMP

State Agencies

- Maine Department of Marine Resources
- New Hampshire Fish and Game Department
- Massachusetts Division of Marine Fisheries
- Rhode Island Division of Fish and Wildlife
- Connecticut Department of Energy and Environmental Protection
- New York State Department of Environmental Conservation
- New Jersey Division of Fish and Wildlife
- Pennsylvania Fish and Boat Commission
- Delaware Division of Fish and Wildlife
- Maryland Department of Natural Resources
- District of Columbia Fisheries and Wildlife Division
- Virginia Marine Resources Commission
- North Carolina Division of Marine Fisheries
- South Carolina Department of Natural Resources
- Georgia Department of Natural Resources
- Florida Fish and Wildlife Conservation Commission

Coastal Fish Species Managed via ISFMP

- American eel
- American lobster
- Atlantic croaker
- Atlantic Herring
- Atlantic menhaden
- Atlantic striped bass
- Atlantic sturgeon
- Black drum
- Black sea bass
- Bluefish
- Coastal sharks
- Horseshoe crab
- Jonah crab
- Northern shrimp
- Red drum
- Scup
- Shad & river herring
- Spanish mackerel
- Spiny dogfish
- Spot
- Spotted seatrout
- Summer flounder
- Tautog
- Weakfish
- Winter flounder