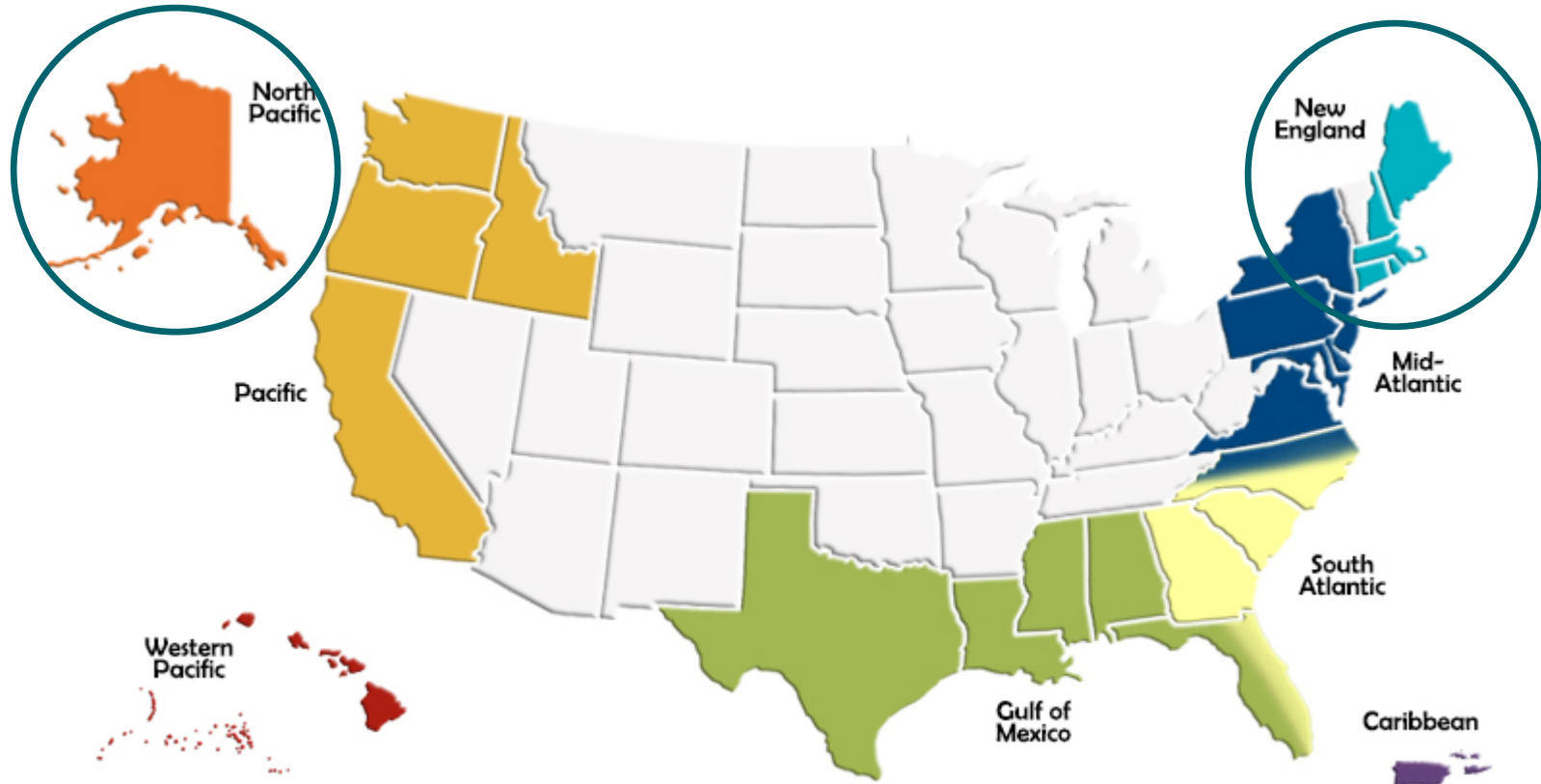# Electronic Monitoring Data and Stock Assessments

Tara Trinko Lake
Deputy Chief, Resource Evaluation & Assessment Division

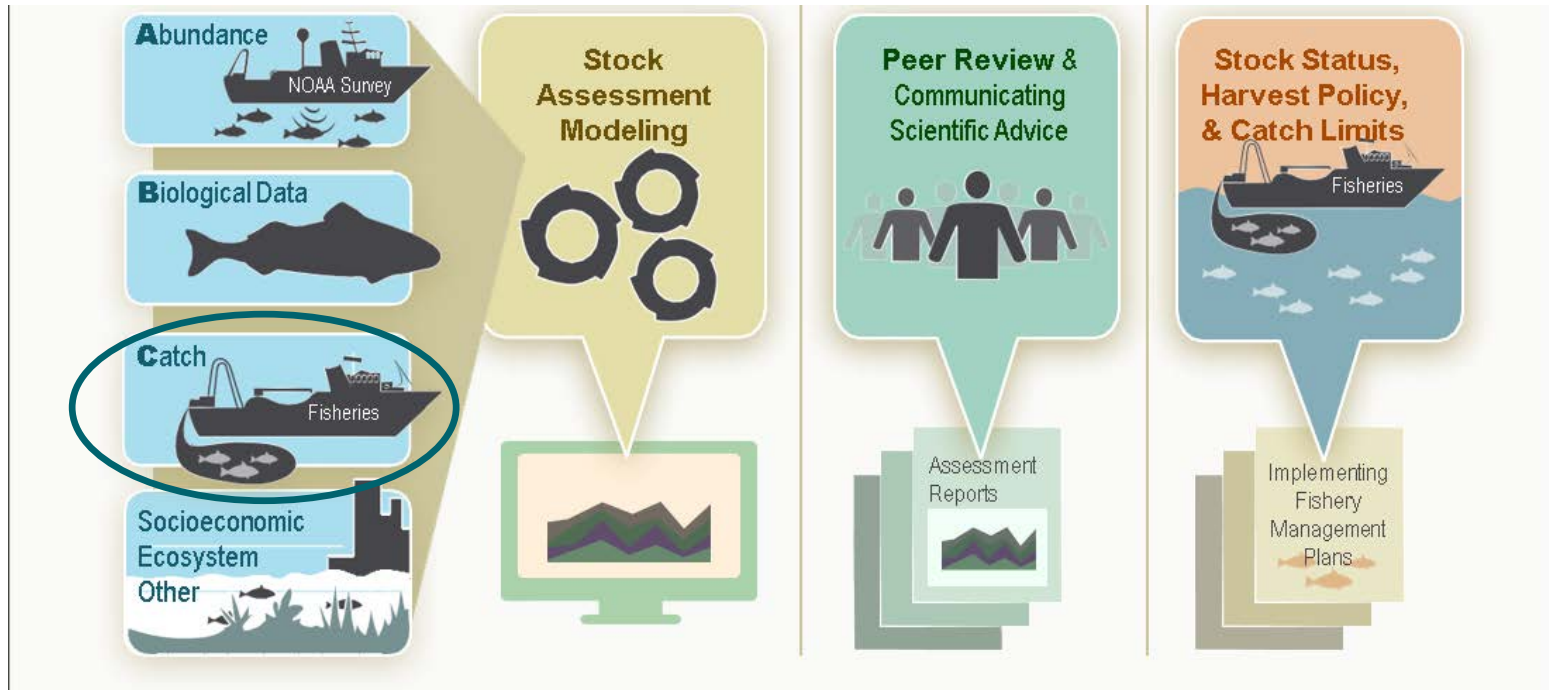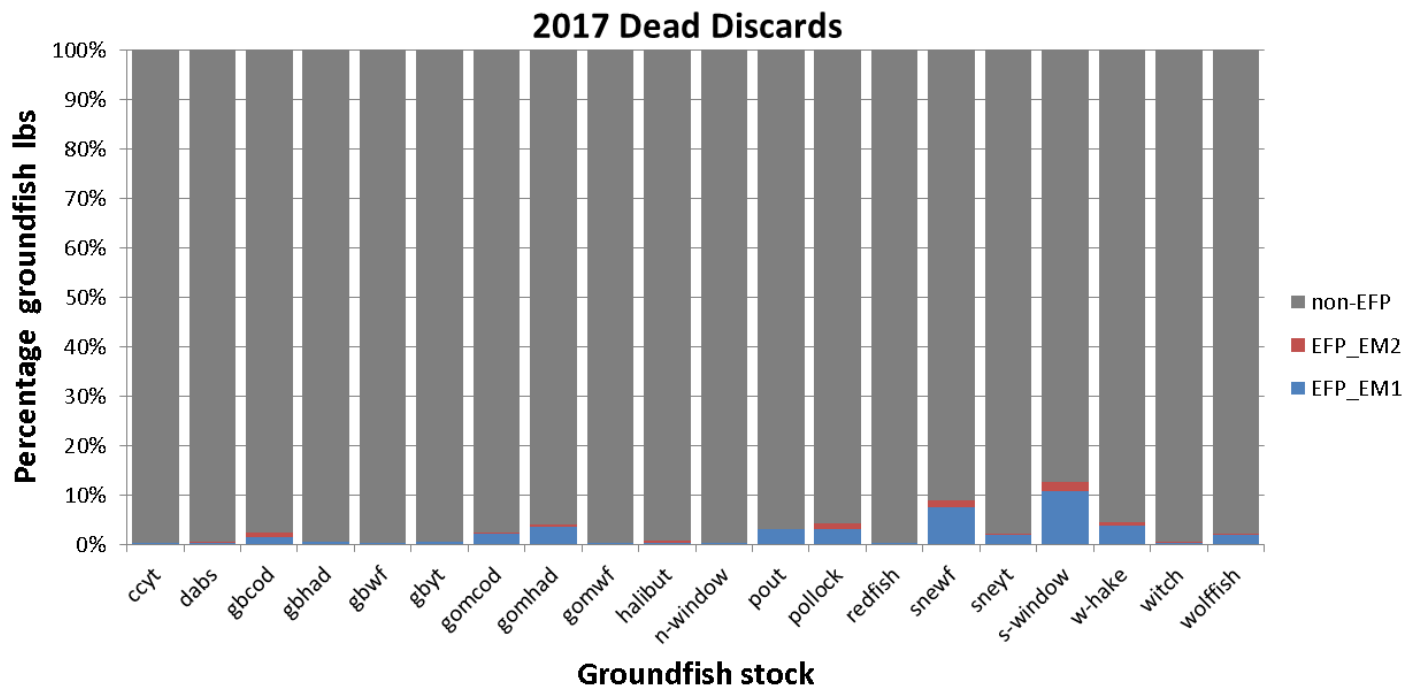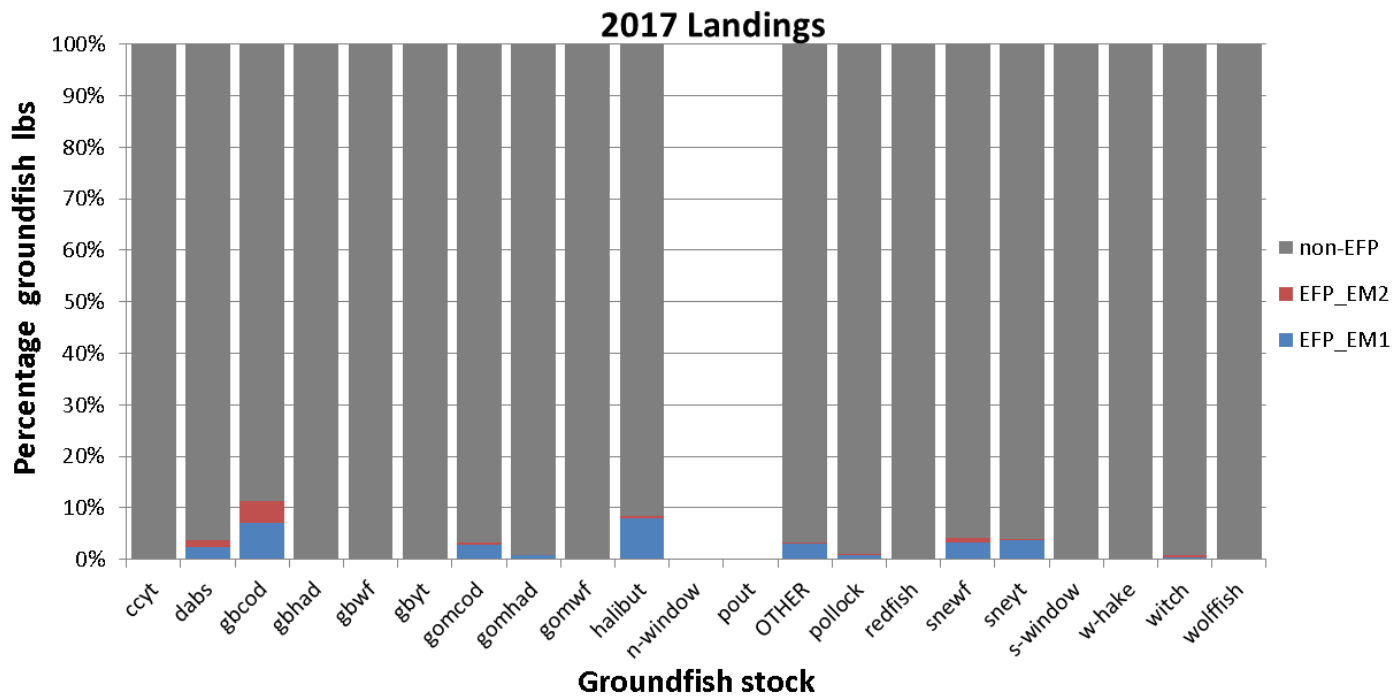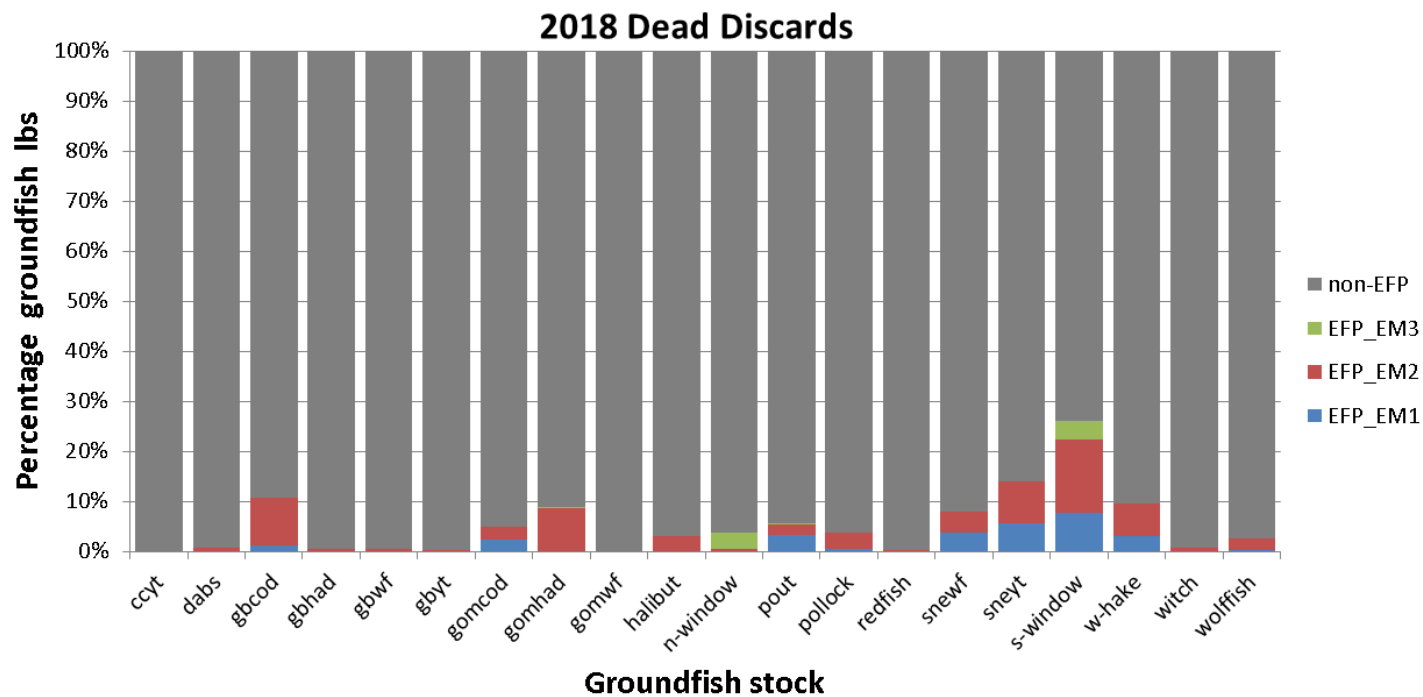# National Use of Electronic Monitoring Data in Stock Assessments

Where is EM used in stock assessments?

2017 Landings

Percentage groundfish lbs vs Groundfish stock

Legend: non-EFP, EFP_EM2, EFP_EM1

Stocks: ccyt, dabs, gbcod, gbhad, gbwf, gbyt, gomcod, gomhad, gomwf, halibut, n-window, pout, OTHER, pollock, redfish, snewf, sneyt, s-window, w-hake, witch, wolffish

2017 Dead Discards

Percentage groundfish lbs vs Groundfish stock

Legend: non-EFP, EFP_EM2, EFP_EM1

Stocks: ccyt, dabs, gbcod, gbhad, gbwf, gbyt, gomcod, gomhad, gomwf, halibut, n-window, pout, pollock, redfish, snewf, sneyt, s-window, w-hake, witch, wolffish

2018 Landings

2018 Dead Discards

How we used data from EM trips in the NE

- Stocks: CC/GOM and SNE/MA yellowtail stocks, American plaice, pollock, GOM cod and haddock
- Landings data were used from all trips
- Max retention EM project trips required some work
  - Age-length key from the fall survey was used to age the small (sub-legal) fish landed
  - Resulting age-length distribution was applied to the small fish on those trips
  - Standard age-length distribution applied to legal fish on those trips

NOAA FISHERIES

What we learned from exploring data streams

- Technical challenges in integrating EM databases with our assessment databases

- Coordinating EM efforts across two catch data systems (GARFO quota monitoring, NEFSC assessment) adds to these challenges

NOAA FISHERIES

Our Intent

- To develop a fully functional EM system, from soup to nuts – as EM use expands in the region

This is an assessment. You can tell by the monocle.

What's needed next for EM?

- Continuity of data streams

- Image recognition expansion beyond groundfish

- QA/QC EM methods with traditional assessment methods

  - Similar to testing with a new survey vessel