



EM/ER Regional Update
PFMC Presentation
May 2016

ELECTRONIC MONITORING UPDATE FOR THE PACIFIC COUNCIL

Council Coordination Committee

St. Thomas, USVI

May 26, 2016



Pacific Council Electronic Technology Projects

- Camera-based Electronic Monitoring systems to reduce costs or supplement current levels of monitoring.
 - Jan 1, 2017 implementation for whiting mid-water trawl and IFQ fixed gear
 - IFQ bottom trawl and Non-whiting mid-water trawl ongoing
 - HMS Drift Gillnet fisheries in planning stage
- Expansion of State and Tribal Electronic Fish Ticket capabilities
- Exploring Electronic Logbooks to Improve Inseason Management
 - Groundfish Whiting and Shorebased Trawl IFQ
 - Other groundfish commercial sectors
 - HMS Drift Gillnet
 - HMS Commercial passenger fishing vessel fleet (CPFV; party/charter vessels)



Pacific Council Electronic Technology Projects

- Numerous Crosscutting Implementation Issues
 - Standards/Type approval rulemaking for third-party providers of ET products and service
 - Cost responsibilities of government, industry, and other parties
 - Update confidentiality, IT security, data storage, and data sharing policies
 - Integration of EFT, EL, and VMS data with existing State and Federal reporting and permit systems





Purpose of the Groundfish Catch Share Electronic Monitoring Regulatory Program

- Reduce total fleet monitoring costs
- Reduce observer costs for low volume vessels
- Maintain monitoring capabilities in small ports
- Increase national net economic value
- Decrease incentives for fishing in unsafe conditions
- Use suitable and cost effective technology
- Reduce the intrusiveness of observer presence

Form

Species:

Length (cm):

Estimated weight (lbs):

Notes:

INC Life Status:

Timestamp:

0.25x 4x



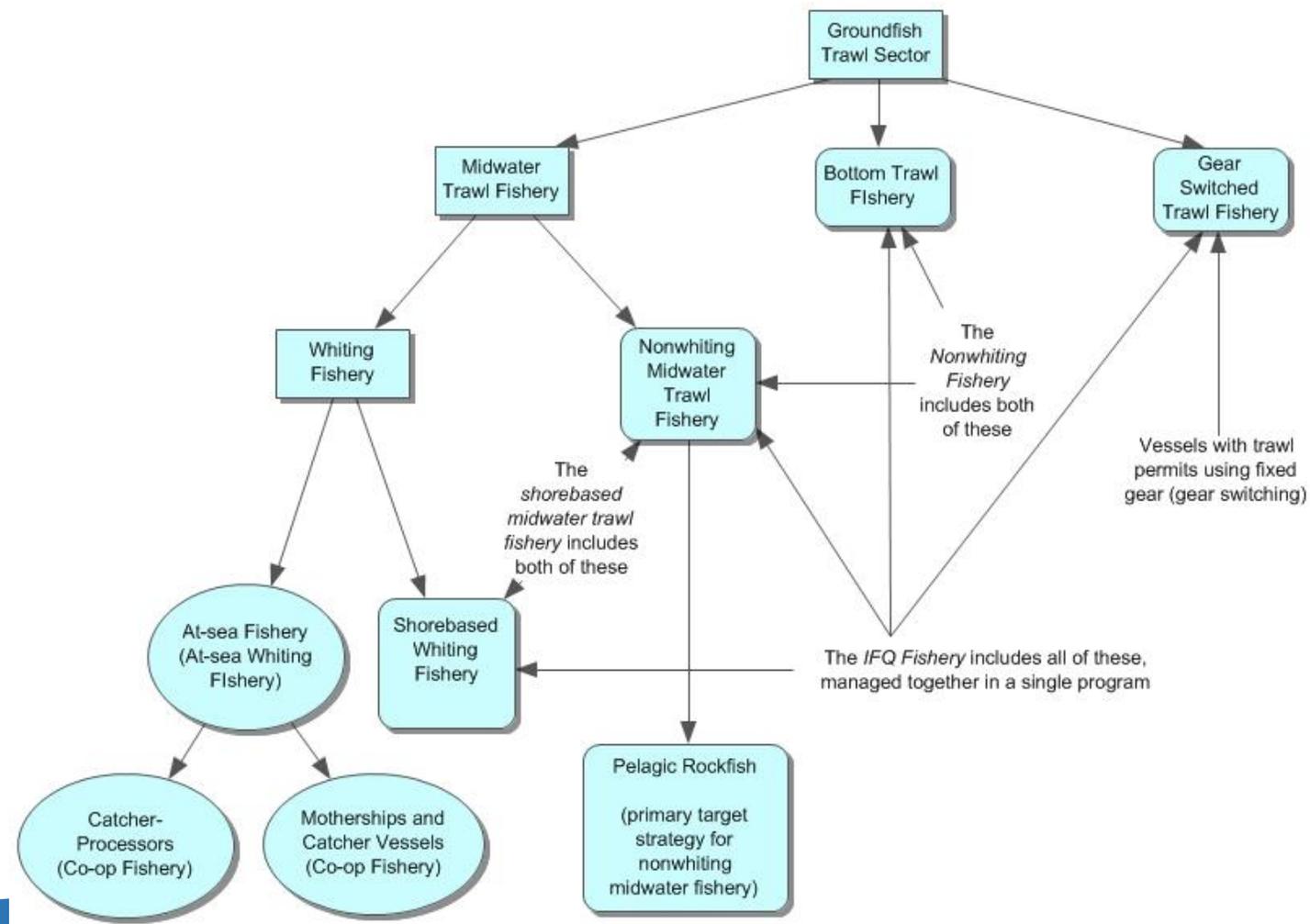
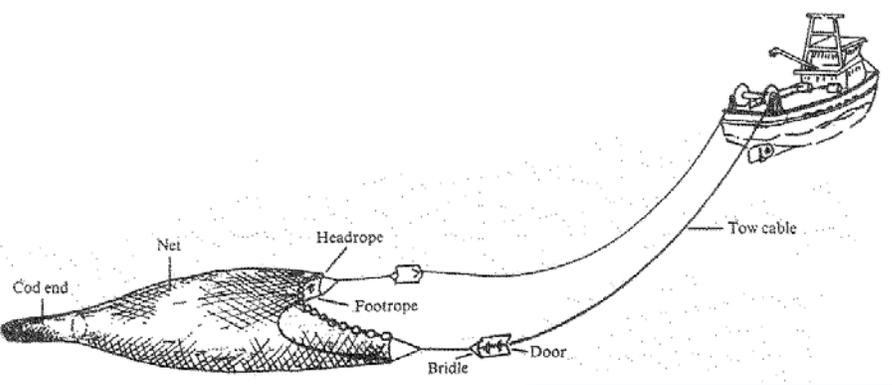
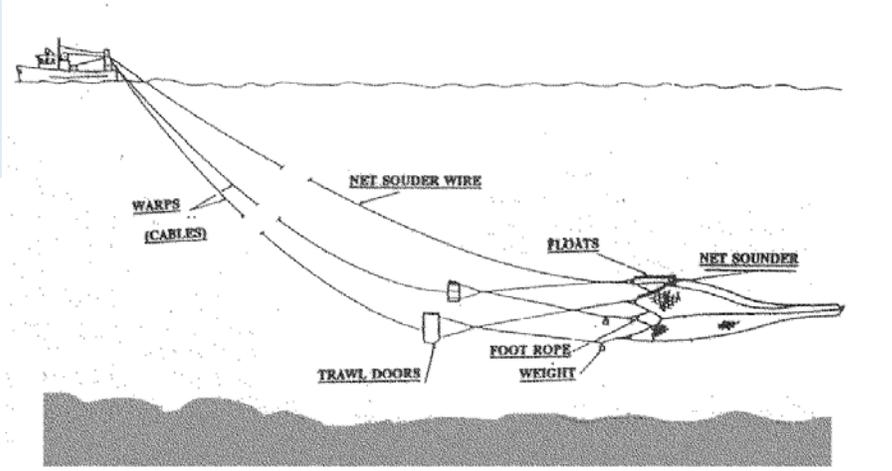


Purpose of the Groundfish Catch Share Electronic Monitoring Regulatory Program

- EM program for compliance monitoring of Catch Share program
- Monitor discard events of IFQ species and catch allocations
- EM used to audit logbooks for accuracy and debit IFQ accounts
- Program was **not** created to estimate total mortality of all discard species and protected species interactions

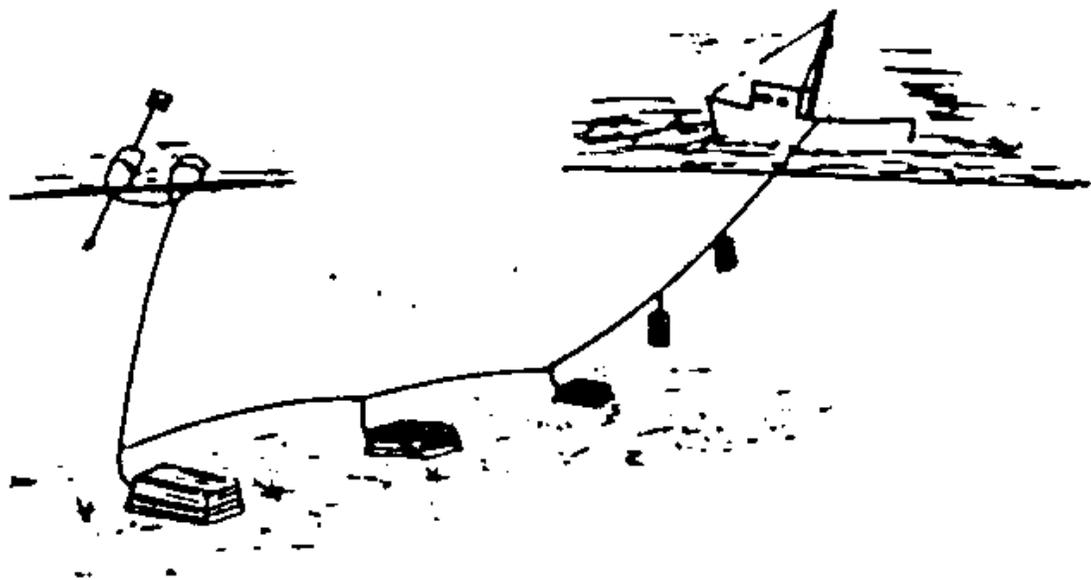


Pacific Groundfish Trawl Sectors



Additional Gear Types in Trawl Fishery

- Fixed gear endorsement for LE trawl permit
 - longline
 - pots





Electronic Monitoring Regulation Timeline

- Feb 2013 - EM workshop
- June 2013 - Council established policy (GEMPAC) and technical (GEMTAC) Committees
- May 2014 - GEMPAC/GEMTAC and Enforcement Consultants develop alternatives
- June 2014 - Council reviewed analysis and modified Alternatives
 - Recommended EFPs for whiting and non-whiting mid-water trawl, bottom Trawl, and fixed gear
- Sept 2014 - Final preferred alternatives (FPA) for all groundfish catch share fisheries
- Nov 2015 - Revised whiting fishery FPA added FG for implementation in 2017.
- April 2016 - Revised FG FPA
 - Deemed regulations for whiting and FG fishery
- Summer 2016 - Transmittal of whiting and FG regulations this summer
- Mid-2017 - Non-whiting mid-water and bottom trawl- final action

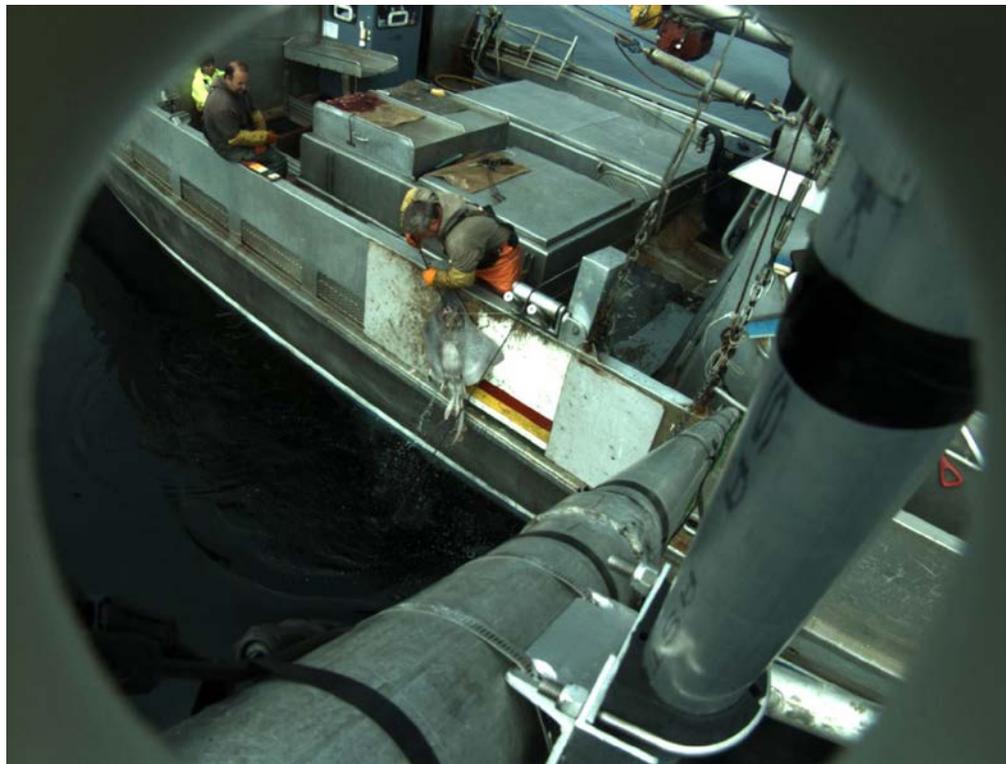


Projected Impacts of EM Program

- Estimated cost is \$10-\$12K to install and maintain an EM camera system
 - Depends if you lease or buy the system
 - How field service costs are distributed among the fleet
- Cost savings to fleet compared to human observers
 - Expected but no estimates
- Additional trips for small ports that don't have observers stationed there
- Added cost to Agency for new program;
 - Region may recover some expenses through the Cost Recovery Program
- Increased cost for West Coast Groundfish Observer Program
 - Will now have to pay for at-sea catch sampling on EM vessels
- Shoreside monitoring program
 - No double duty for at-sea observer serving as shoreside monitor
- No Biological Impacts Expected

Lessons Learned

- EFPs can help and hinder
- Technology limitations
- Not for everybody





Next Steps

- Implementation in January 1, 2017 for whiting and fixed gear
- Bottom & non-whiting mid-water trawl schedules
 - Development of business rules for discard/discrepancies
 - Catch handling/species identification
 - Potential implementation in late 2018
- Consider shoreside monitoring, other potential applications