

Agenda Item H.3.a Supplemental NMFS Presentation 1 November 2019

NMFS Report

Implementation of the Pacific Coast Groundfish EM Program November 17, 2019

Council Action

- Final recommendations on revised guidelines and draft program manual
- Consider video review auditing approach options, and
- Provide guidance on EM Program implementation



EM Program Guidelines

- EM Service Plan Guidelines
- Vessel Monitoring Plan (VMP) Guidelines



EM Service Plan and VMP Guidelines

- H.3.a NMFS Reports 1 and 2
- First drafts presented in September
- Updates made to differentiate requirements in regulation from best practices
- Plan to further refine considering November advisory bodies and Council recommendations
- Final guidelines will be posted online this winter



EM Program Manual

EM service providers: EM equipment and review services



EM Program Manual

• H.3.a NMFS Report 3

Draft document

- Focus on the components which can aid potential service providers and fishers in projecting costs
 - Review protocols
 - Sampling rates
- Incomplete components noted in italics
- Final version will also be posted online

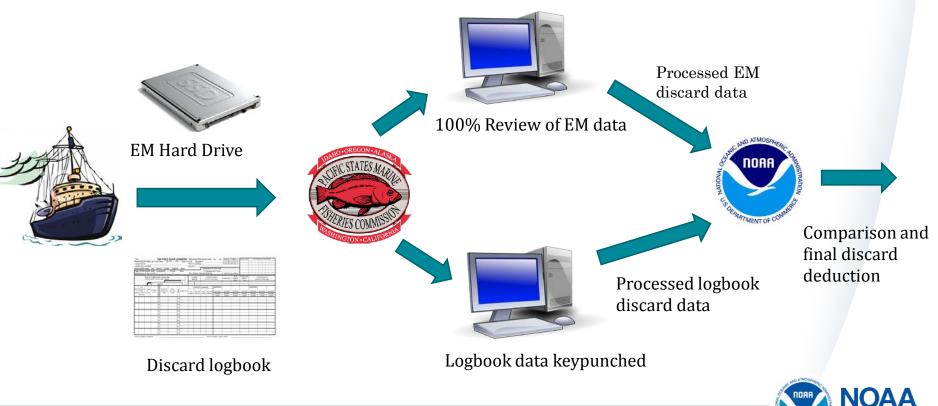


EM Program Manual Components

- Program overview
- EM service provider responsibilities
 - Field and Technical Support
 - Data Services
- Logbook audit model
- NMFS' role in assessing data quality and service providers



Current practices for data submission and review, under exempted fishing permits (EFP) for all gear types:





Logbook Audit Model

- Incentivized potential for less than 100% review, where level of review could be a cost-driver
- Every trip reviewed
- Sampling unit = 1 haul, with a minimum of 1 haul per trip reviewed
- If logbook reported discards do not pass the EM comparison (within 10%), triggers full review



Logbook Audit Model

Proposed review rates:

- Shorebased whiting, MS/CV, other maximized retention- 100%
- Bottom trawl, other optimized retention 25% of hauls
- Fixed gear 25% of hauls
- Random review of steam times



Logbook Audit Model

Why **100%** review for maximized retention?

- Industry supports 100% (status quo)
- Fast review already, negligible time and cost savings (H.3 PSMFC Report 1)
- Few hauls per shorebased trip a lower sampling rate may still result in high review
 - Example, if review 25% of 2 hauls, you still review 1 complete haul, resulting in 50%



Logbook Audit Model

Why **25%** review for optimized retention bottom trawl, optimized retention midwater, and fixed gear?

• PSMFC analysis

- Examined the effect of different review rates and business rules on the number of trips that would pass the logbook audit, length of video review (\$), and resulting discard estimates
- Found in general that stringent business rules and higher review rates result in more triggers to 100% review, compared to liberal thresholds with low review rates, but fewer false passes (missed errors) and closer alignment of discards overall



Logbook Audit Model

Why **25%** review for optimized retention bottom trawl, optimized retention midwater, and fixed gear?

- Current review rate by PSMFC is 100% and paid for by NMFS under the EFP program, so captains don't have a true incentive to match logbook discards with EM
- Some vessels perform better than others in the EFP, indicating training and effort can improve performance over time, avoiding 100% review triggers and ultimately reducing costs



Logbook Audit Model

Why **25%** review for optimized retention bottom trawl, optimized retention midwater, and fixed gear?

- Majority of IFQ species are retained, minimizing management concerns when hauls reviewed at random (radar-trap)
- Average hauls per trip support subsampling
 - Bottom trawl average 8 hauls per trip (1-2 hauls reviewed)
 - Pot trap gear average of 14 hauls (3-4 hauls reviewed)



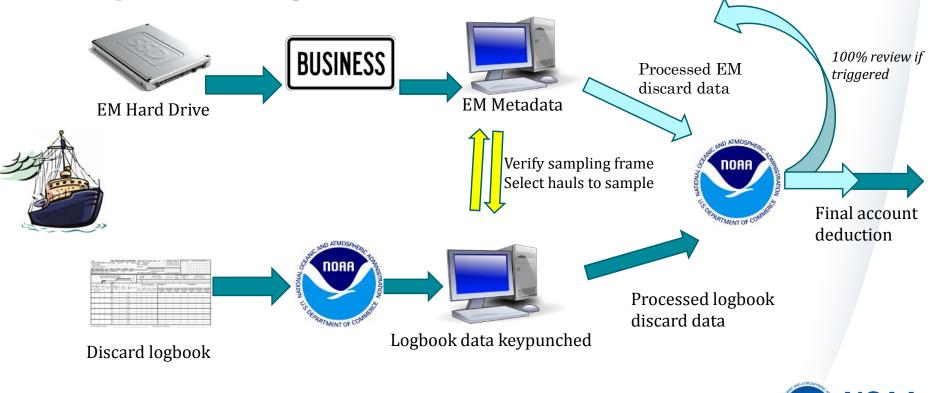
Logbook Audit Model

- NMFS receives and keypunches **logbook data**
- Service provider checks for **trip/haul level data** on drive (number of trips and the number of hauls for each trip)
- The two are compared, and if they match, the sampling frame is created and the units to sample are selected



Changes to EM Review data flow

New (2021) review data flow incorporates the third party service provider and logbook audit model:



Changes to EM Review data flow

NMFS Debriefing

- Called the "NMFS audit" in draft documentation and in the NMFS reports, which can be misleading
- WCGOP will review a subsample of vessel EM data for the purpose of QA/QC



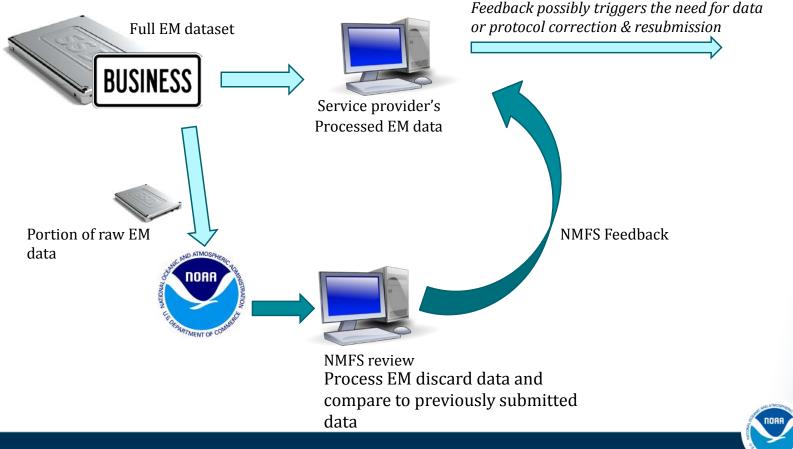
Changes to EM Review data flow

NMFS Debriefing

- NMFS requests portion of raw data (low rate target 10% of trips per vessel)
- Service provider submits requested data
- NMFS conducts review using same business rules and review protocols as SP
- Feedback given to service provider, which may include further review or correction of previously submitted data



NMFS Debriefing:



Cost Estimates

- NMFS Report 6
- Past and future costs and funding sources
- Table 1 Total costs to NMFS (incl. PSMFC) and industry
- Table 2 Cost recovery fee estimates
- Table 3 Detailed industry estimates
 - Based on PSMFC costs
 - Cost multipliers that providers and vessel owners can use to estimate own costs

