STRAWMAN – STANDARD CONFIGURATION CAMERA WITH INTEGRATED TOOLS
Preliminary document for discussion at September 2014 EM Workgroup meeting

Alternative X--Proposed integrated monitoring approach using Standard EM equipment for the longline, sablefish, halibut, and P cod fisheries

Element 1: Implementation Vehicle

Option 1: Regulations

Option 2: EFP

Option 3: Other

Element 2: Available Funds (Analysis to consider these benchmarks as funding thresholds for just EM and/or whole fixed gear integrated program as appropriate---see element 3 below)

Option 1: $600,000/yr.—represents approx. ½ budget for at sea monitoring of VS pool

Option 2: $1.2 million—represents approx. budget for at sea monitoring of VS pool

Option 3: $3.4 million—represents approx. value of 1.25% of fixed gear catch.

Option 4: $5 million—represents approx. value of 2% of fixed gear catch

Element 3: Participating vessels

Option 1: All fixed gear catcher vessels

Option 2: Longline and pot vessels <57.5' where taking an observer is problematic

Option 3: Phased implementation with initial priority for Option 2 vessels; next priority for Option 1 vessels where EM reduces costs and/or improves quality.

Element 4: Vessel selection method/sampling design

Option 1: Vessels opt into EM strata on annual basis, random selection of vessels that opt in;

Option 2: Vessels apply to be in EM strata on annual basis; NMFS determines which vessels cannot take observer and move into EM strata on annual basis.

Option 3: Vessels opt into EM for long term basis

Element 5: Duration of EM coverage

Option 1: vessels carry EM for entire year; subset of trips randomly sampled.

Option 2: vessels carry EM for 2-6 month periods; all or a subset of trips randomly sampled.

Option 3: for vessels that opt into EM for long term basis; trips randomly selected and vessel notified to turn EM on for those trips.

Element 6: Human observer coverage level

A): Maintain human observer coverage at levels sufficient to collect biological samples and spatially and temporally specific data on species length, weight, and sex composition to support the use of EM data and other purposes.

a) Option 1: For <57.5' stratum

b) Option 2: for all fixed gear vessels (single stratum)

B) Use dockside monitoring to obtain necessary biological samples.

Element 7: Weight estimation

Option 1: Weight of retained catch would be based on landings information; piece counts of drop-offs and discards would be derived from video review and converted to weight estimates based on average PRR weights.

Option 2: Weight of retained catch would be based on landings information; piece counts of drop-offs and discards would be derived from video review and converted to weight estimates based on temporally and spatially similar observer or survey data.

Element 8: Onboard handling procedures to improve accuracy for priority species (Priority species based on AFSC Feb, 13, 2014 letter)

A) Vessel specific monitoring plan identifying operator and crew duties needed to provide sufficient data quality.

B) Rockfish species:

a. Option 1: allow rockfish discards

b. Option 2: full retention of all rockfish with a validation process to ensure compliance; species Id and weight derived dockside

C) Discards of Sablefish, Halibut, P cod, Skate, Grenadiers, dogfish, and sharks must occur in full view of the EM system.

D) Halibut release size, method, injury code

Element 9: Logbooks:

Option 1: Logbook data used to provide set specific effort data including hook size, hook spacing, skate length, and number of skates/set.

Option 2: For P cod longline fishery, vessel operator maintains logbook piece counts for all halibut released to improve turn-around time for halibut PSC estimates.

Element 10: Data review services:

A) All discards and drop-off identified to lowest taxonomic level.

a. Option 1: Allow Species Groupings:

B) Sets/trips manually reviewed following census or estimation protocols as determined appropriate.

a. Option 1: census—100% video review of all sets from all trips

b. Option 2: subsample

Element 11: Dockside monitoring

Option 1: no dockside monitoring

Option 2: dockside monitoring supports QA/QC and hard drive/logbook collection (IPHC model)

Option 3: Dockside monitoring supports collection of biological samples (IPHC model)

Option 4: Dockside monitoring support validation of retained species ID. (Canadian model)

Element 12: Field Services:

Element 14: Incentives:

a) vessel report card
b) monetary incentives
c) removal from EM pool

Element 15: Sea birds