

# Electronic Monitoring EFP Update

Pacific Fishery Management Council Meeting

NMFS Report for Agenda Item G.7

March 14, 2016

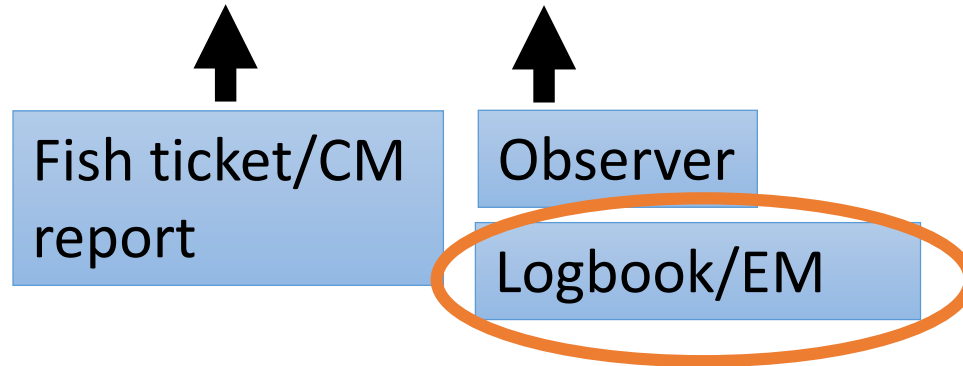
# EFP Activity

	Total # Vessels	Total # Trips
Bottom trawl	4	19
Fixed gear	7	57
Shoreside whiting	17	483
MS/CV	9	25

\*Data as of December 23, 2015

# Year-end 2015

$$\text{QP Balance} = \text{QP} - \text{retained} - \text{discard}$$



**Which to use?**

# What to do when EM $\neq$ LB?

## Principles:

1. Compare weights, rather than counts
2. Allow for some difference between logbook and EM estimates
3. Minimize uncertainty in discard estimates and consider different rules for overfished and non-overfished species
4. Be rigorous, but not unattainable

# What to do when EM $\neq$ LB?

## Business rules

1. 10% allowable discrepancy
  - Applied to total weight for whiting (not sorted)
  - Applied to species/group weight for non-whiting (sorted)
  - When >10% difference, use higher of the two
  - No allowable discrepancy for overfished species
2. If LB missing, use EM
3. If EM missing, use LB

What does this mean for vessel accounts?

	Bottom Trawl	Fixed Gear	Shorebased Whiting	MS/CV
<b>Original discards (lb)</b>	4,435	19,256	127,190	271,290
<b>Unchanged</b>				
<b>Amount (lb)</b>	3,657	13,172	87,740	178,856
<b># records</b>	28	86	112	236
<b>% records</b>	28%	47%	33%	52%
<b>EM&gt;0, LB=0</b>				
<b>New amount (lb)</b>	473	127	17,777	14,881
<b># records</b>	28	14	204	139
<b>% records</b>	34%	8%	59%	30%
<b>EM&gt;LB by 10%</b>				
<b>New amount (lb)</b>	1,324	10,487	129,429	243,344
<b># records</b>	32	83	28	83
<b>% records</b>	39%	45%	8%	18%
<b>New total discards (lb)</b>	5,454	23,786	234,946	437,081
<b>Difference (lb)</b>	1,018	4,529	107,756	165,790

	Bottom Trawl (lb)			Fixed Gear (lb)		
	Original	New	Difference	Original	New	Difference
<b>Arrowtooth Flounder</b>	63	145	82	60	135	75
<b>Bocaccio Rockfish</b>	-	8	8	-	-	-
<b>Chilipepper Rockfish</b>	-	27	27	-	-	-
<b>Darkblotched Rockfish</b>	-	-	-	2	3	2
<b>Dover Sole</b>	19	35	16	3	8	5
<b>English Sole</b>	420	813	393	-	-	-
<b>Lingcod</b>	4	11	7	160	290	130
<b>Longspine Thornyhead</b>	19	36	17	-	-	-
<b>Minor Shelf Rockfish</b>	3	3	-	-	-	-
<b>Minor Slope Rockfish</b>	49	54	5	13	24	11
<b>Other Flatfish</b>	1	73	72	-	-	-
<b>Pacific Hake</b>	162	299	138	3	12	9
<b>Pacific Halibut</b>	-	12	12	958	1,604	646
<b>Petrale Sole</b>	30	54	24	-	-	-
<b>Sablefish</b>	5	220	215	4,816	8,443	3,627
<b>Shortspine Thornyhead</b>	-	3	3	69	95	26
<b>Splitnose Rockfish</b>	4	4	-	-	-	-
<b>Grand Total</b>	779	1,797	1,018	6,085	10,614	4,529

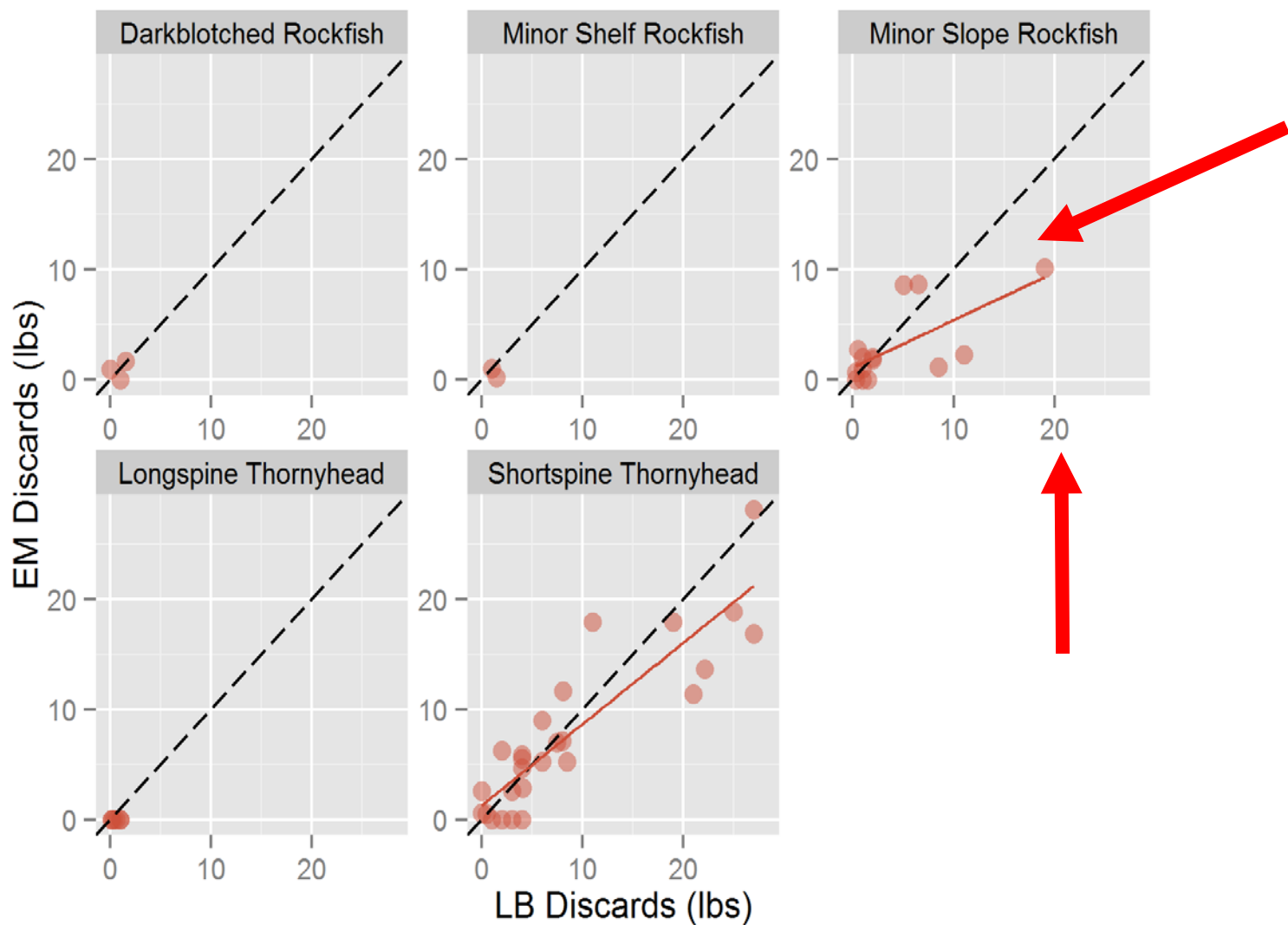
# Year-end 2015

- Updated vessel accounts December 23, 2015
- Some vessels had account deficits, a few large changes
- Working on programming changes to update regularly, and make all EM data visible
- MS/CV data updated in NORPAC January 8, 2016

How well did the EFPs do?



# Fixed Gear: Rockfish and Thornyheads Discards



# How often could fish not be identified to species?

	<b>Amount Unidentified (lb)</b>	<b>Total Discards (lb)</b>
<b>Thornyhead</b>	44	242
<b>Rockfish</b>	42	164
<b>Flatfish</b>	70	5,285
<b>Unknown fish</b>	49.5	
<b>Grand total</b>	206	

\*Data as of December 23, 2015

# How often was fish removed from camera view?

	# Trips with at least 1 Instance	Total # Instances on All Trips
Bottom trawl	0	0
Fixed gear	9	23
Shoreside whiting	0	0
MS/CV	1	1

\*Data as of December 23, 2015

# How many data gaps were there?

	Total # Vessels	Total # Trips	# Trips with Video Gaps	# Trips with Missing Haul	# Trips with No Video
Bottom trawl	4	19	6	0	0
Fixed gear	7	57	8	0	0
Shoreside whiting	17	483	14	3	1
MS/CV	9	25	3	2	0

\*Data as of December 23, 2015

# How well did the EFPs do?

- Results show the EFPs performed well
  - Mostly small discrepancies, few large ones
  - Few instances of unidentified fish or fish removed from camera view
  - Few instances of data gaps

# What does it all mean?

- Whiting ✓
- Fixed gear ✓
- Bottom trawl ?
- Non-whiting midwater trawl ?

# Recommendation

- Given that the current EFPs expire at the end of 2016, **we recommend that the Council extend the current EFPs through at least 2017.**

# Questions?

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