

# **2011 IPHC Staff Catch Limit Recommendations**

**(revised for Area 2A correction)**

# Recommended Catch Limit Considerations

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- ❖ Commission's desire to achieve target harvest rates in all areas
- ❖ Recent high exploitation rates in Area 2
- ❖ Declining size at age and effect on Ebio
- ❖ Addressing inconsistencies in treatment of U32/O26 removals among different categories of removals. Options for direct deductions of both U32/O26 and U26 removals examined

# Apportionment Process

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- ❖ Adjustment factors used same as those in 2010
  - Hook competition
  - Survey timing
- ❖ Data averaging
  - Statistical analysis used Kalman filter approach to develop 75:20:5 reverse weighting for the past three years of survey data, most recent year's data weighted highest
- ❖ Final apportionment uses adjusted, reverse-weighted WPUE, and bottom areas (0-400 fm)

# Change to Slow Up Fast Down (SUFD)

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- ❖ SUFastD phases in changes asymmetrically
- ❖ EBio (x HR) -> TCEY (- OR) -> FCEY (SUFastD) -> CLR
- ❖ Fishery CEY adjustment termed “Slow Up Fast Down”
  - Option to modify to Slow Up Full Down (SUFullD)
- ❖ SUFastD has resulted in Coastwide quotas 9-14% over the Fishery CEY (FCEY) the last few years
  - Individual regulatory areas have been as much as 75% over FCEY
- ❖ Analysis shows that SUFastD does not work as well under conditions of:
  - Starting from catch levels well above FCEY
  - Continuing decline in size at age

# Commission Requested Analysis

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- ❖ Current treatment of U32/O26 removals is not consistent across all fishery types (commercial, sport, subsistence). Some is by direct deduction, some is by harvest rate adjustment.
- ❖ Commission requested that staff attempt to rationalize the treatment of such fish
- ❖ Staff developed method to directly deduct all such removals from Total CEY, in combination with a modified harvest rate
- ❖ Results indicate previous treatment was adequate but proposed method more apparent and consistent

# Scenarios Considered

Reg Area	Standard Deductions, All U32 BAWM in HR			Direct U32/O26 Deductions, All U26 BAWM in HR			Direct U32 Deductions, No U32 BAWM in HR		
	No SUFD	SUFD	SUFuIID	No SUFD	SUFD	SUFuIID	No SUFD	SUFD	SUFuIID
<b>2A</b>	1.13	0.92	0.92	0.95	0.91	0.91	0.97	0.92	0.92
<b>2B</b>	7.65	7.55	7.55	7.94	7.65	7.65	8.07	7.69	7.69
<b>2C</b>	2.27	3.34	2.27	2.33	3.36	2.33	2.41	3.40	2.41
<b>3A</b>	14.85	17.42	14.85	14.36	17.17	14.36	14.70	17.34	14.70
<b>3B</b>	8.08	8.99	8.08	7.51	8.70	7.51	7.47	8.69	7.47
<b>4A</b>	2.67	2.44	2.44	2.57	2.41	2.41	2.56	2.41	2.41
<b>4B</b>	2.14	2.15	2.14	2.21	2.18	2.18	2.20	2.17	2.17
<b>4CDE</b>	4.44	3.87	3.87	3.99	3.72	3.72	3.96	3.71	3.71
<b>Total</b>	43.22	46.67	42.11	41.85	46.10	41.07	42.34	46.33	41.48

All cases use Hook/Timing Adjustment Factors and reverse weighted averaging of survey WPUEs

# Staff Recommendation

	<b>Direct U32/O26 Deductions All U26 BAWM in HR</b>
<b>Reg Area</b>	<b>SUFuIID</b>
2A	<b>0.91</b>
2B	<b>7.65</b>
2C	<b>2.33</b>
3A	<b>14.36</b>
3B	<b>7.51</b>
4A	<b>2.41</b>
4B	<b>2.18</b>
4CDE	<b>3.72</b>
<b>Total</b>	<b>41.07</b>

Recommendations based on use of Hook/Timing adjustment factors and reverse weighting of survey WPUEs

## Coastwide Assessment: Hook Competition and Timing AFs, reverse averaging to Survey Apportionment, SUFullD, and Direct U32/O26 Deduction

Reg Area	Exploitable biomass	Harvest Rate	Total CEY	2010 Other Removals	2010 Catch Limit	2011 Fishery CEY	Slow Up-Full Down Adjustment	2011 Catch Limit Recomm.	
2A	6.63	21.5%	1.43	0.31	0.81	1.11	-0.20	0.91	1,3
2B	40.89	21.5%	8.79	0.85	7.50	7.94	-0.30	7.65	2,3
2C	25.05	21.5%	5.39	3.06	4.40	2.33	0.00	2.33	4
3A	109.39	21.5%	23.52	9.16	19.99	14.36	0.00	14.36	4
3B	57.32	16.1%	9.24	1.73	9.90	7.51	0.00	7.51	4
4A	21.25	16.1%	3.43	0.86	2.33	2.57	-0.16	2.41	3
4B	16.14	16.1%	2.60	0.39	2.16	2.21	-0.03	2.18	3
4CDE	40.32	16.1%	6.50	2.52	3.58	3.99	-0.27	3.72	3
<b>Total</b>	<b>317.00</b>	<b>19.2%</b>	<b>60.90</b>	<b>18.88</b>	<b>50.67</b>	<b>42.02</b>	<b>-0.95</b>	<b>41.07</b>	

Note: Exploitable biomass is coastwide assessment, survey partitioning; Hook & Timing Afs; Kalman wts

<sup>1</sup> Catch limits and Fishery CEY for 2A includes commercial, sport, and treaty subsistence catches

<sup>2</sup> Catch limits and Fishery CEY for 2B includes commercial and sport catch

<sup>3</sup> Calculated as 2010 catch limit plus 1/3 of the difference between  
2011 Fishery CEY and 2010 Catch Limit

<sup>4</sup> Calculated as 2011 Fishery CEY

Assumes GHL of 0.788 Mlb in Area 2C, 3.65 Mlb in Area 3A under Other Removals

Other removals for 2C and 3A are adding projected unguided harvest to the applicable GHL

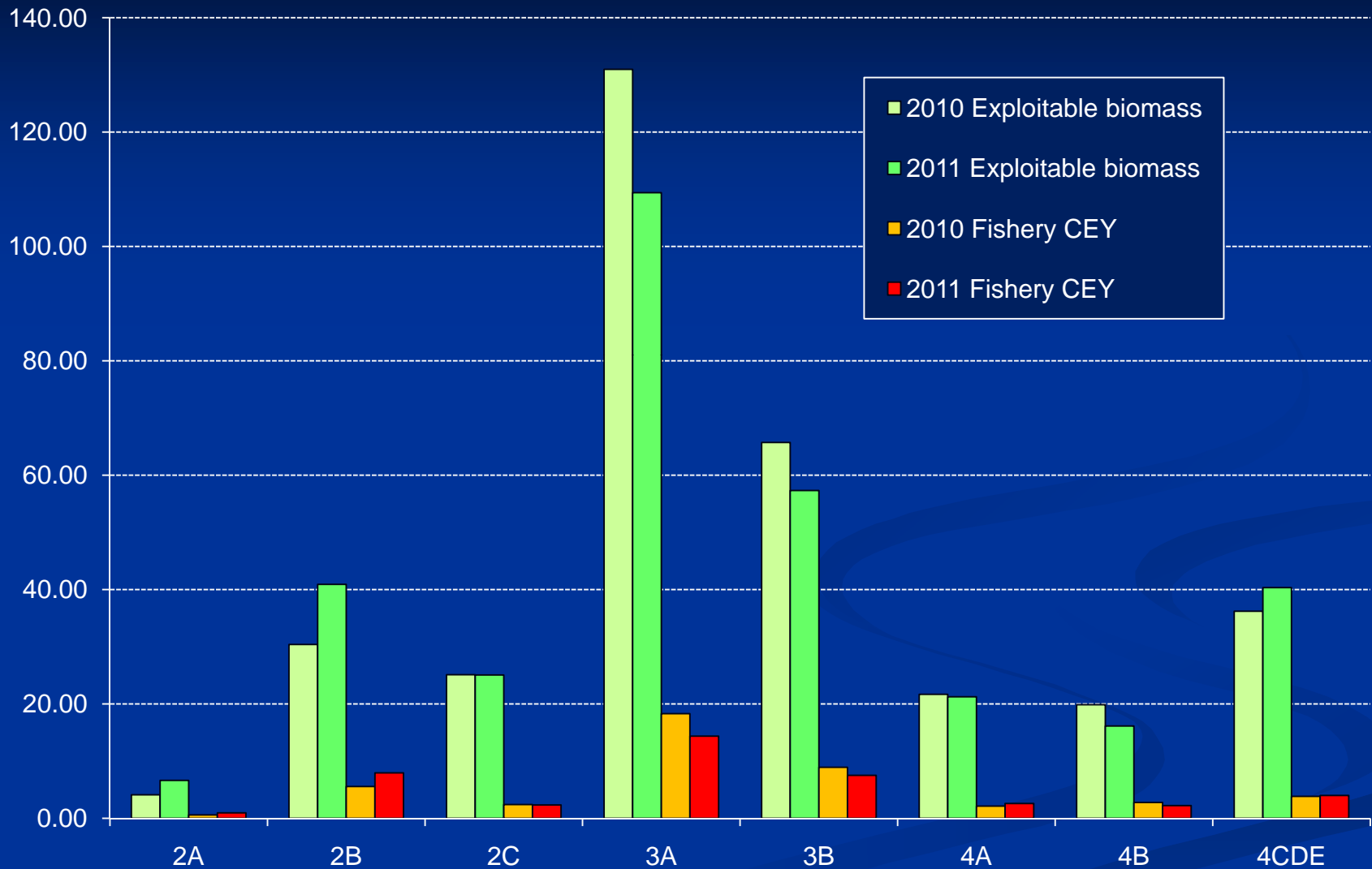


# 2010 vs. 2011 Comparison

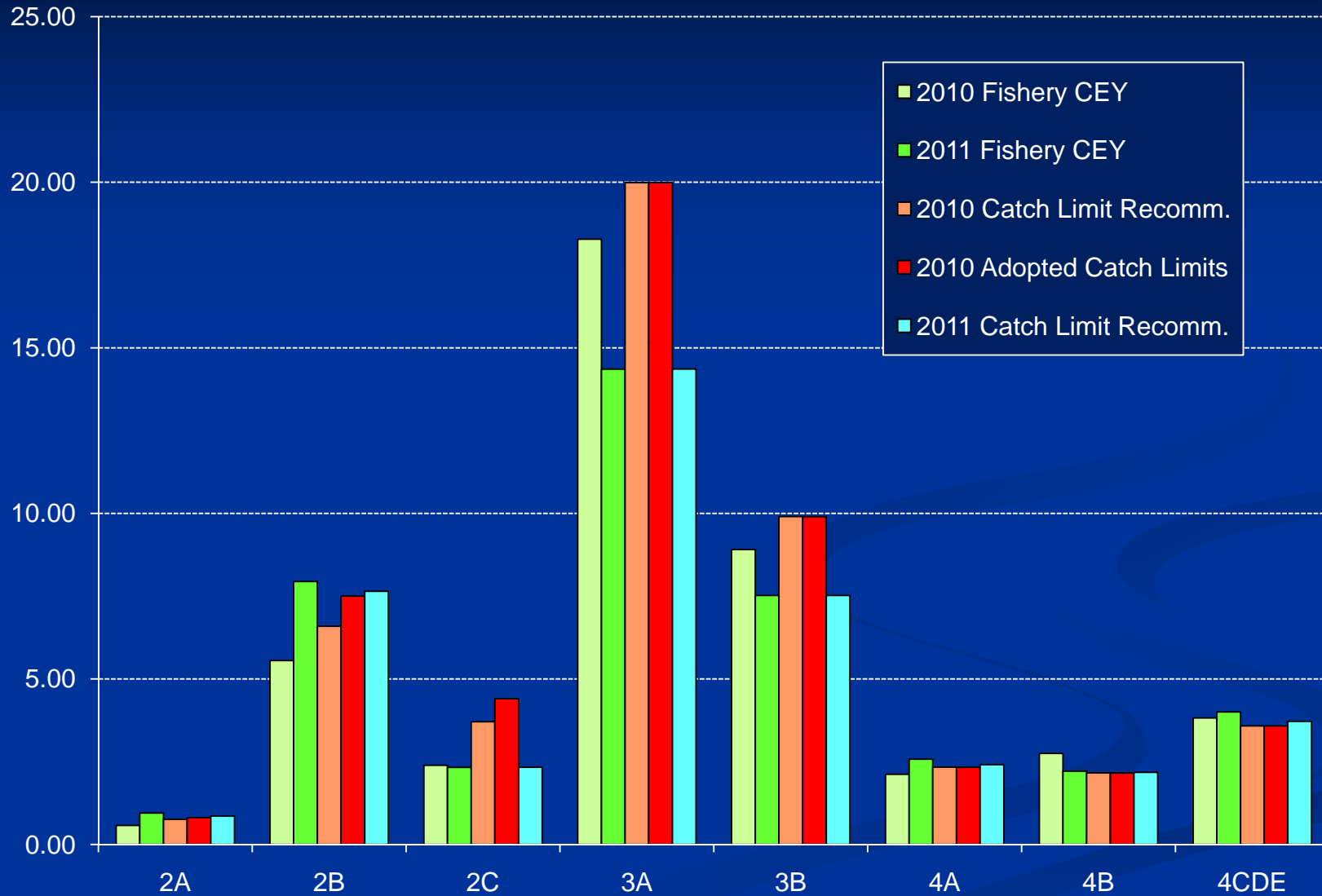
Reg Area	2010 Exploitable biomass	2011 Exploitable biomass	2010 Total CEY	2011 Total CEY	2010 Fishery CEY	2011 Fishery CEY	2010 Catch Limit Recomm	2010 Adopted Catch Limits	2011 Catch Limit Recomm
2A	4.09	6.63	0.82	1.43	0.57	1.11	0.76	0.81	0.91
2B	30.38	40.89	6.08	8.79	5.55	7.94	6.59	7.50	7.65
2C	25.10	25.05	5.02	5.39	2.39	2.33	3.71	4.40	2.33
3A	130.96	109.39	26.19	23.52	18.28	14.36	19.99	19.99	14.36
3B	65.72	57.32	9.86	9.24	8.91	7.51	9.90	9.90	7.51
4A	21.67	21.25	3.25	3.43	2.12	2.57	2.33	2.33	2.41
4B	19.86	16.14	2.98	2.60	2.75	2.21	2.16	2.16	2.18
4CDE	36.21	40.32	5.43	6.50	3.82	3.99	3.58	3.58	3.72
<b>Total</b>	<b>334.00</b>	<b>317.00</b>	<b>59.63</b>	<b>60.90</b>	<b>44.39</b>	<b>42.02</b>	<b>49.02</b>	<b>50.67</b>	<b>41.07</b>

Note: Ebio and FCEY values are directly comparable; TCEY uses different harvest rates in 2010 and 2011

# 2010 vs. 2011 Ebio and FCEY



# 2010 vs. 2011 FCEY and CLs



# Management Recommendations

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## Fishing periods and catch sharing

- ❖ Staff proposes March 15 - November 15 for quota share fisheries
- ❖ Area 2A commercial and treaty Indian fisheries should fall within adopted season
- ❖ In 2A, a series of 10-h periods starting June 29 for the directed fishery
- ❖ Endorse Management Councils' catch sharing plans for Areas 2A and 4CDE
- ❖ Endorse DFO commercial:sport allocation plan for Area 2B

# Regulatory Proposals

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## From Commission staff

Changing logbook regulation to remove the option for use of LORAN coordinates for fishing locations, due to decommissioning of the LORAN-C network

Industry Proposals are contained in material distributed to the Conference Board and the Processors Advisory Group for their consideration

# Alaskan Charter Fishery Control Measures Requested by the Commission

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- ❖ At 2010 Annual Meeting, Commission requested staff development of potential control measures for charter halibut fisheries, should the NPFMC Catch Sharing Plan not be implemented in a timely manner
- ❖ Staff worked with NMFS to develop a suite of potential control measures, largely based on existing analyses
- ❖ Measures will be considered by the Commission and Advisory bodies at this meeting. Measures in Blue Book, Appendix I, pp. 156-164

# Charter Control Options

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## Objectives

- Meet IPHC conservation goals
- Reduce harvest to GHL
- Minimize season disruption to the extent practicable
- Assure equity of access and applicability to all charter anglers
- Ensure measures result in enforceable accountability
- Simplify application by basing measures on previous analyses where possible

# Charter Control Options

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## Potential Measures

- Existing Catch Sharing Plan measures
- Maximum size limit
- Season limitation

## Longer term measure

- Restricted number of halibut tags, with licence and logbook recording





**...and that's all he wrote**