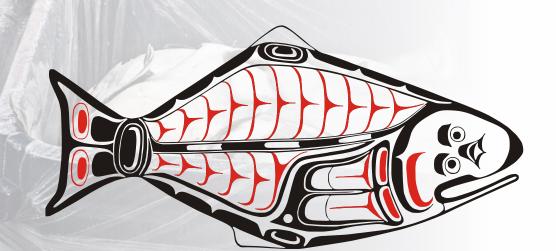


Summary of the 2016 IPHC Annual Meeting

NPFMC Meeting 3 February, 2016



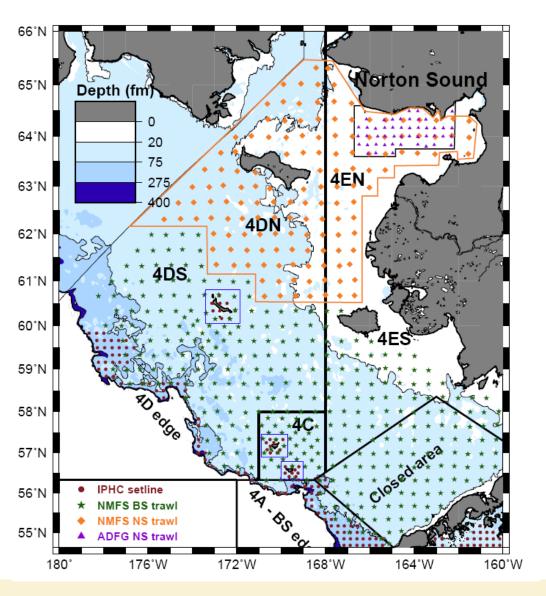
Outline

- Scientific results
 - Survey expansion
 - Stock assessment
- 2016 Catch limits
- Regulatory actions
- Other activity
 - MSAB
 - Staff directives



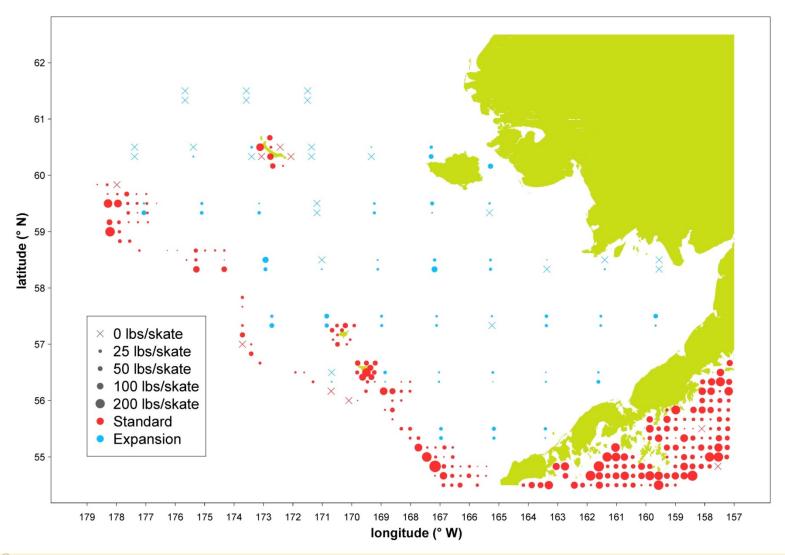
2015 Bering Sea NMFS trawl/setline calibration

 IPHC uses four primary surveys to estimate abundance in the Bering Sea



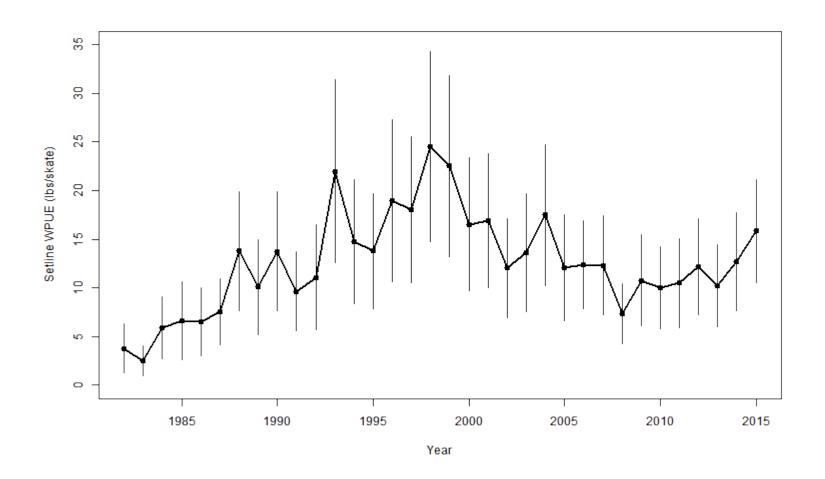


2015 Bering Sea NMFS trawl/setline re-calibration



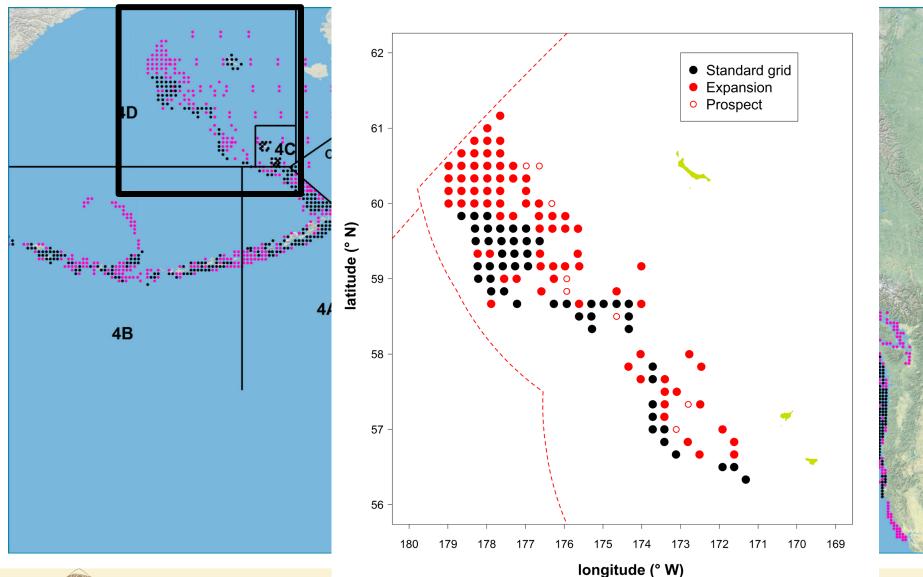


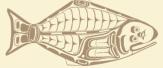
2015 O32 (legal-size) biomass on EBS shelf





2016 Northern Bering Sea edge



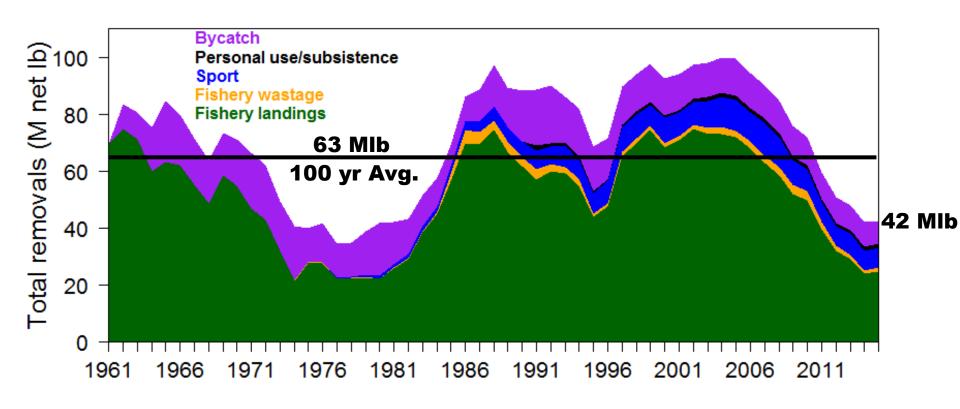


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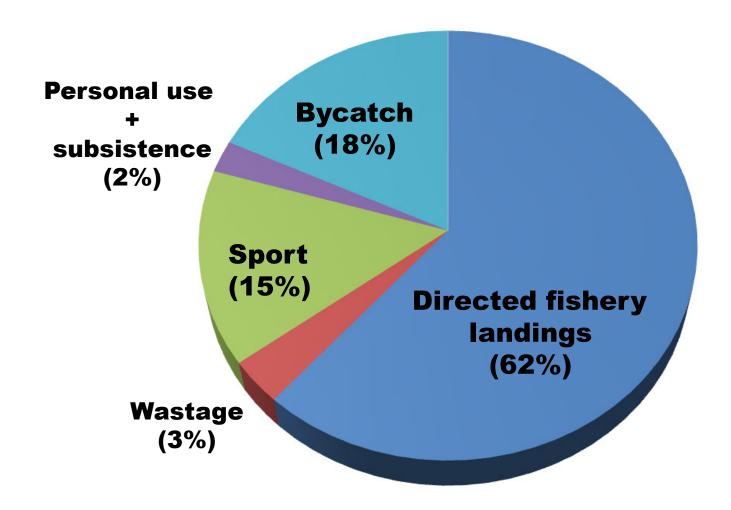


Estimated halibut mortality



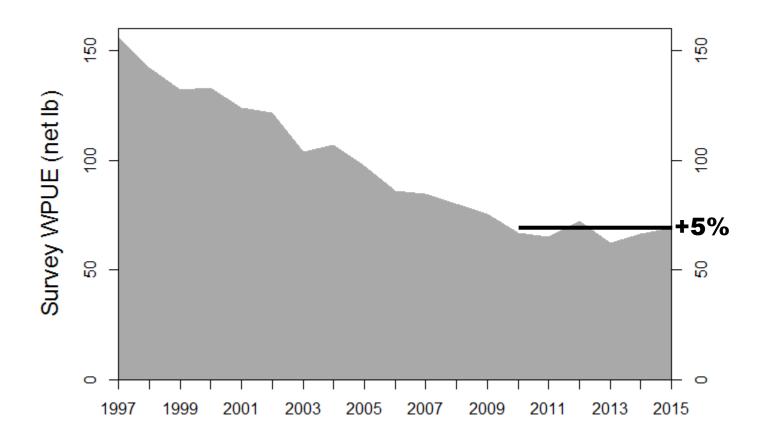


Distribution of the resource: 2011-2015 (pounds)



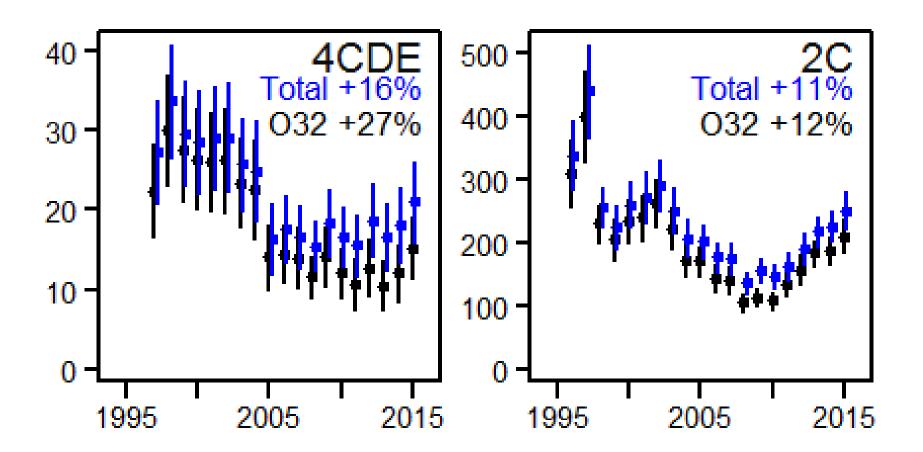


Survey coastwide Weight-Per-Unit-Effort





Survey Weight-Per-Unit-Effort

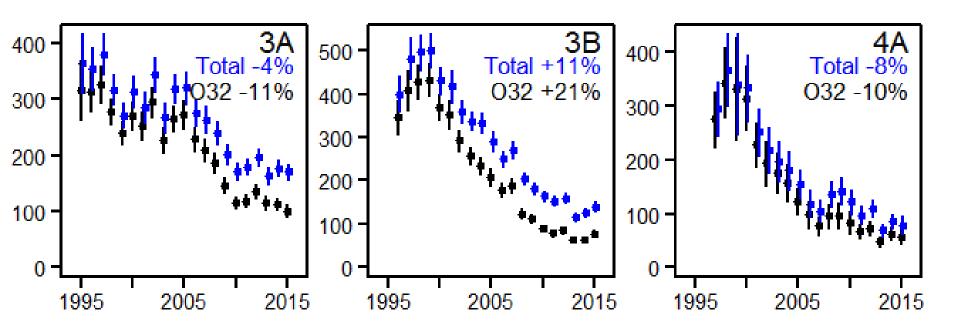




BB p. 82-83

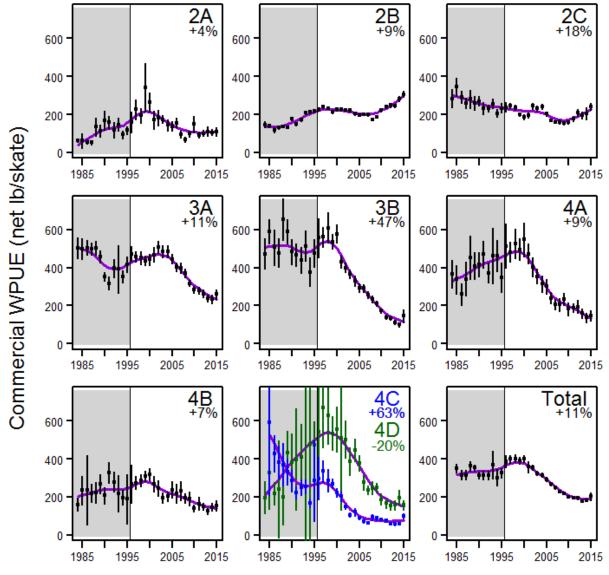
2016 IPHC

Survey Weight-Per-Unit-Effort



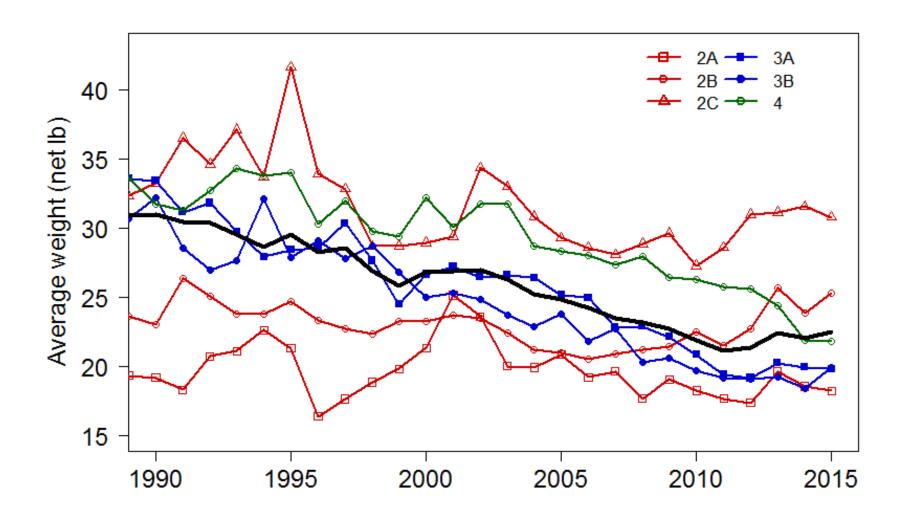


Commercial fishery logbooks





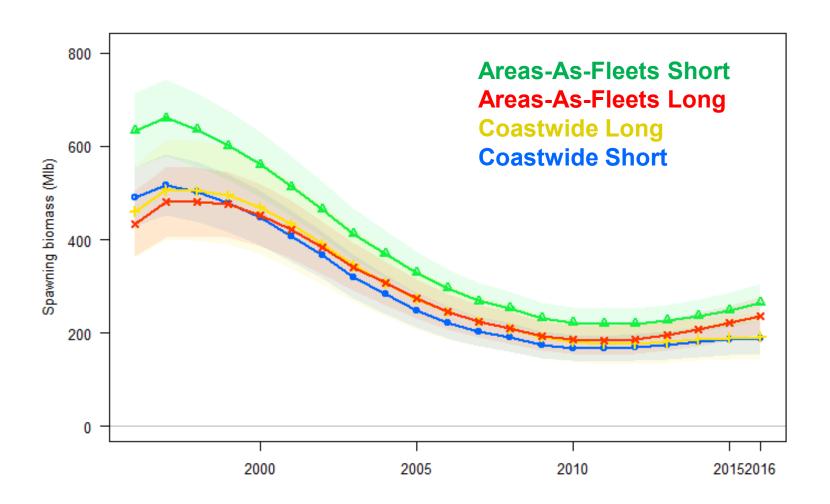
Mean weight in the landings





BB p. 127

Assessment ensemble





Salient results

- Low (3/100) chance the stock is below harvest policy threshold ($SB_{30\%}$)
- Current status (SB_{43%}) consistent with targets for other species
- Current (2016) spawning biomass estimated to be increasing gradually

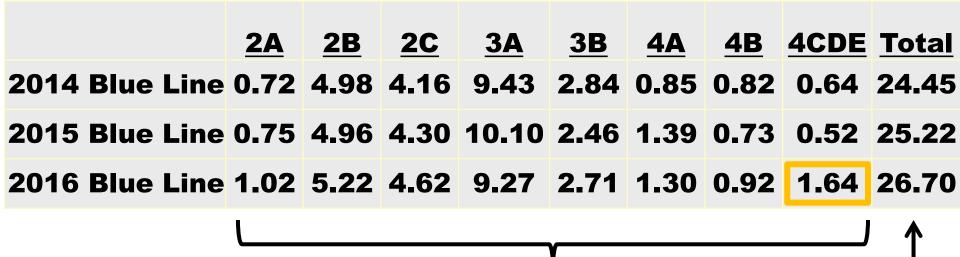


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FCEY Comparison

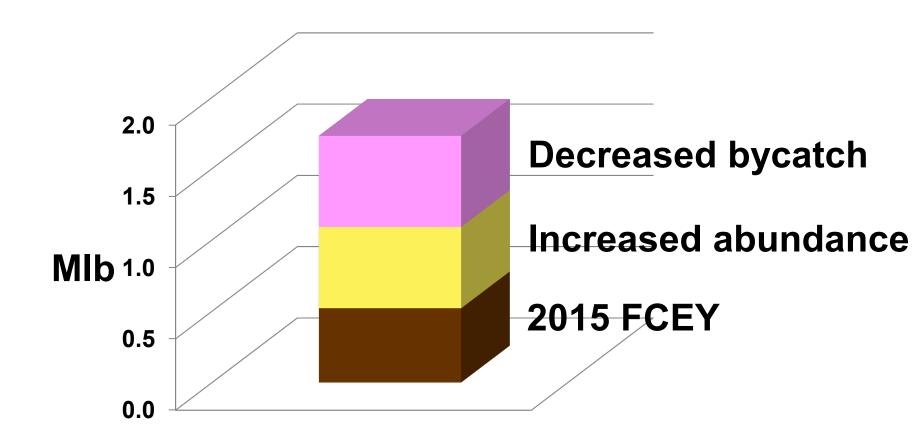


Changing spatial distribution and other sources of mortality

Increasing abundance



2016 Blue Line 4CDE FCEY





2016 Catch Limits (MIb, net wt)

Regulatory	2015	Blue	Conference Board	Processors Advisory Group	IPHC
Area	Catch Limit	Line	Advice	Advice	Approved
2A ¹	0.97	1.02	1.33	1.42	1.14
2B ¹	7.04	5.22	7.35	7.35	7.30
2C ²	4.65	4.62	5.64	6.87	4.95
3A ²	10.10	9.27	10.10	10.10	9.60
3B	2.65	2.71	3.00	2.71	2.71
4A	1.39	1.30	1.39	1.39	1.39
4B	1.14	0.92	1.30	1.16	1.14
4CDE ³	1.29	1.64	1.64	1.64	1.66
4C ⁴	0.597	0.76	0.76	0.76	0.734
4D ⁴	0.597	0.76	0.76	0.76	0.734
4E ⁴	0.092	0.12	0.12	0.12	0.193
Total	29.22	26.70	31.75	32.63	29.89

¹ Combined sport and commercial allocation (2A includes tribal)

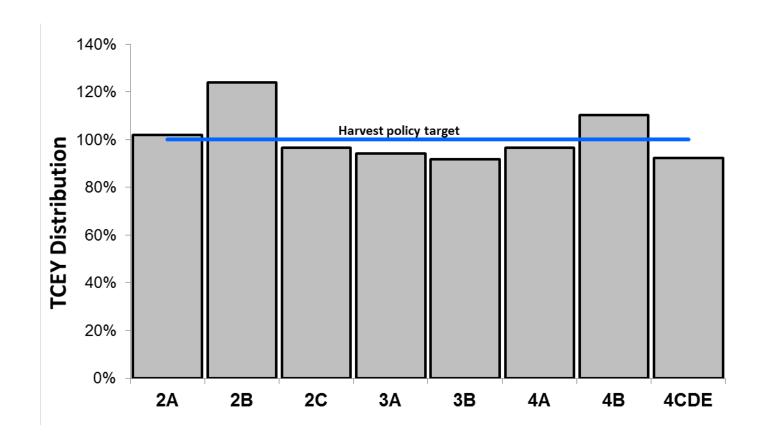
⁴ NPFMC Plan: 4C , 4D: 46.43% of 80K less than 4CDE quota, 4E: 7.14% + 80K if at or above 1.657



² Includes commercial and recreational charter Catch Sharing Plan

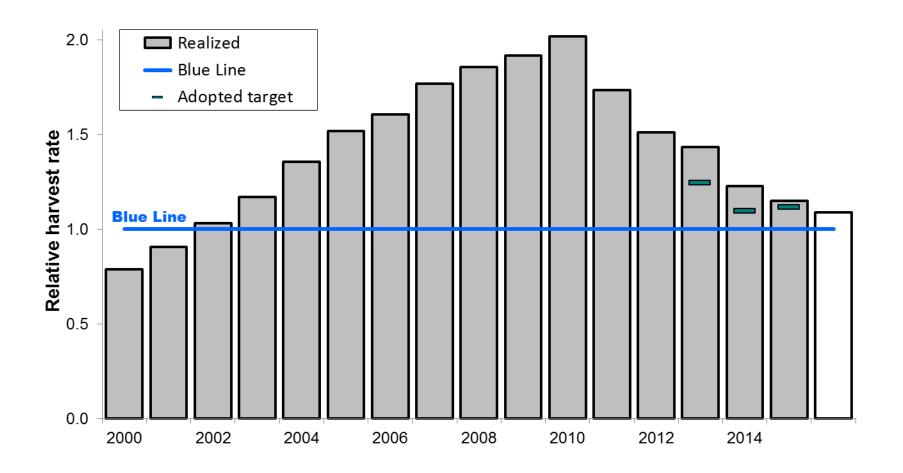
³ Allocation for combined Areas 4C, 4D, 4E

2016 Adopted catch limit distribution





Harvest rates





Decision table: Stock trend (times/100)

		Stock Trend			
		Spawning biomass			
		in 2017		in 2019	
	Total	is	is 5%	is	is 5%
	removals	less than	less than	less than	less than
2016 Alternative	(M lb)	2016	2016	2016	2016
No removals	0.0	<1	<1	<1	<1
FCEY = 0	11.6	<1	<1	<1	<1
	20.0	<1	<1	3	<1
	30.0	3	<1	28	9
Blue Line	38.7	19	<1	45	32
status quo FCEY	41.4	28	<1	48	38
2016 Adopted	41.9	29	<1	49	39
Maintain 2015 SPR	42.9	32	<1	50	40
	50.0	45	3	64	48
	60.0	50	22	73	55
		а	b	С	d



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Adopted regulations

- Season dates:
 - IFQ/IVQ fisheries Areas 2B-4, Area 2A Treaty and incidental: March 19 – November 7
 - Area 2A non-treaty commercial: 10 hr periods:6/22, 7/6, 7/20, 8/6, 8/17, 8/31, 9/14, 9/28
- Catch sharing plans for Areas 2A, 2B, 2C, 3A, and 4CDE



Adopted regulations

- Catch sharing plan Area 2C charter fishery:
 - One fish daily bag limit, ≤ 43 in or ≥ 80 in
- Catch sharing plan Area 3A charter fishery:
 - Two fish daily bag limit
 - Maximum size limit 28 inches on second fish
 - Each vessel limited to one trip per calendar day
 - Each permit limited to one trip per vessel per calendar day
 - Wednesday closure
 - 4-fish annual limit
 - Record (in ink): date, area, # halibut on state license



Adopted regulations

- Areas 2C and 3A charter fisheries:
 - Remove IPHC carcass retention requirement; this was redundant with NMFS regulations



Other actions

- Approved pots as a legal commercial halibut gear in the Gulf of Alaska, as defined by sablefish management areas, with review in three years
- NMFS eLog allowed as an acceptable log for Alaska
- Area 2A Tribal ID (from vessel ID) on fish ticket requirement
- All halibut with an IPHC external tag may be retained in sport and personal use fisheries regardless of season, size, or bag limits



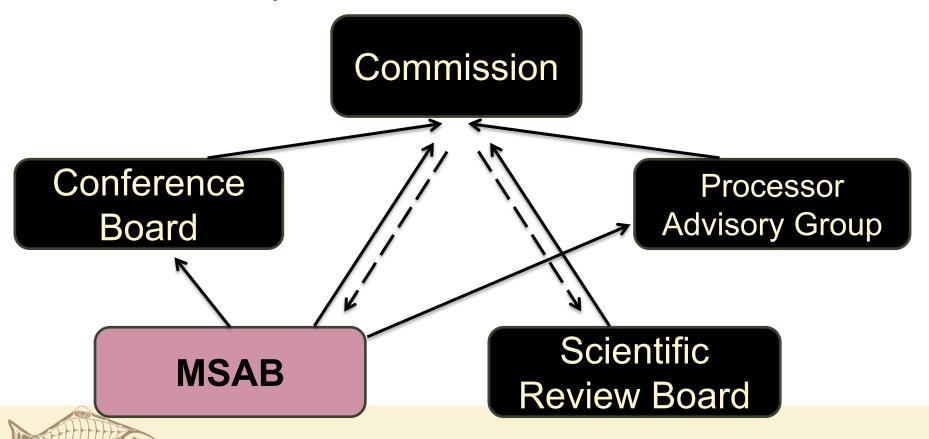
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MSAB 2015

- Defined governance and facilitation structure
- Draft fishery objectives, management procedures
- Model development and user interface



MSE Operating Model Development

- Catarina Wor (UBC student)/Steve Martell
- Operating Model features under development:
 - Population model is age-structured, spatially explicit, sex, stock, recruitment, advection-migration.
 - Fisheries: fleets, areas, selectivity/availability, sizespecific fishing mortality, bycatch, discards, sex-specific.
 - Scientific data: sex-specific catch, relative abundance, age- size-composition, weight-at-age sampling.
 - Stochastic elements: recruitment, scientific sampling errors, structural errors, implementation errors.
- Technical details reviewed by IPHC Scientific Review Board



MSAB 2016

- Developing outreach plan
- Developing Terms Of Reference
- Developing 2-3 year work plan
- Continued development of coastwide and spatially explicit operating models

→New hire: Dr. Allan Hicks (begins April 4, 2016)



2016 Staff directives

- Evaluate discard mortality rate (16%) applied to the directed halibut fishery
- Explore other data sources for estimating relative abundance and/or catch rates near Nunivak Island
- Further harvest policy analysis via the MSAB
- Continue to promote bycatch reduction and evaluate of the effects of bycatch



Future Meetings

- 2016 IPHC Interim Meeting: Seattle, WA November 29-30, 2016
- 2017 Annual Meeting: Victoria, BC January 23-27, 2017
- 2018 Annual Meeting: Portland, OR January 22-26, 2018



