Agenda Item D.5.a Supplemental NMFS Presentation 2 (Hastie) June 2019

Phased in Approaches to Changing Catch Limits National Standard 1 – Technical Guidance

Pacific Fishery Management Council Meeting June 22, 2019 Dr. Jim Hastie Population Ecology Program Manager Fishery Resource Analysis and Monitoring Division



NOAA FISHERIES Northwest Fisheries Science Center

Background

- National Standard 1 (NS1) requires that U.S. fisheries management:
 - Prevent overfishing
 - Achieve optimum yield
- NS1 guidelines provide guidance on *how* to achieve these requirements
- NMFS last revised the NS1 guidelines in 2016
 - Phase-in
 - Carry-over



NS1 Technical Guidance Workgroup

Purpose: Develop technical guidance on National Standard 1 (NS1) guideline topics to support decisionmaking.

- Address key concepts within 2009 and 2016 revisions.
- Will result in multiple work products.



NS1 Technical Guidance Workgroup

- Divided into 3 subgroups.
 - Subgroup 1: Reference points
 - Subgroup 2: Carry-over and Phase-in
 - Subgroup 3: Data limited stocks



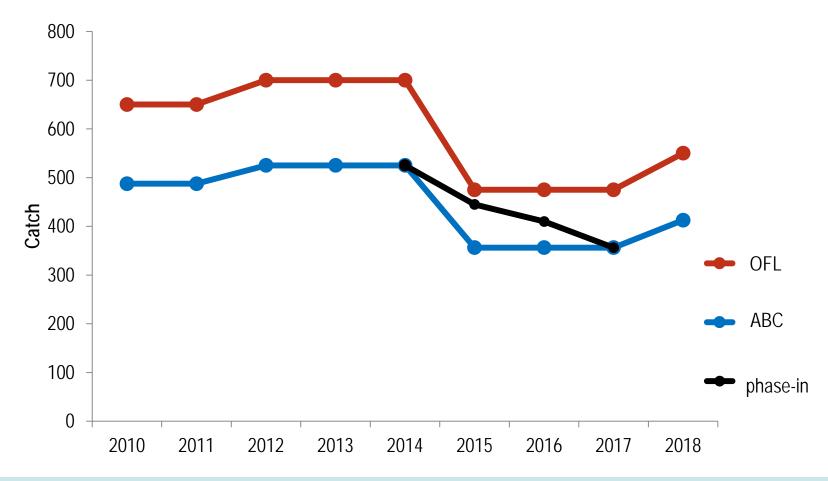
NS1 Technical Guidance Workgroup

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Phasing-in changes to catch levels

Must prevent overfishing each year



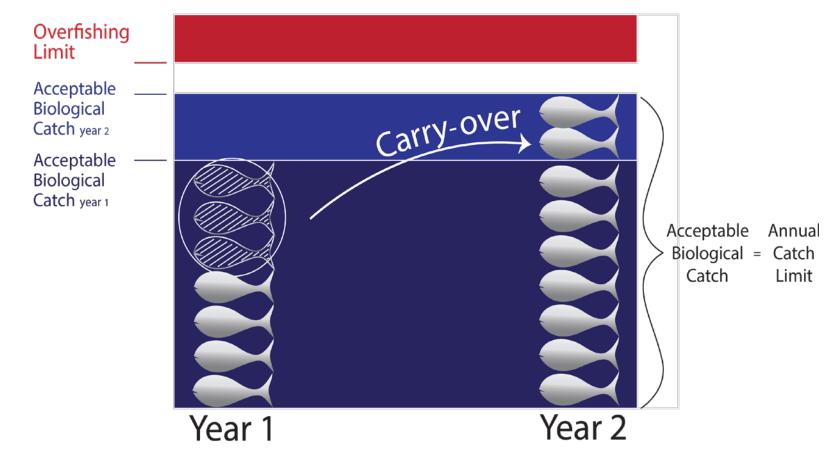


Carry-Over Approach #1: Utilizing ACL buffer

Overfishing Limit Acceptable Biological Catch Annual Catch Carry-over Limit year 2 Annual Catch Limit year 1 Year 2 Year 1



Carry-Over Approach #2: ABC Control Rule



Consider the stock's **condition** & the **reason** for the underage prior to carryingover



Tech Memo on Carry-over and Phase-in

NS1 Technical Guidance for Designing, Evaluating, and Implementing Carryover and Phase-in Provisions within ABC Control Rules.

- Examples of carry-over and phase-in provisions.
- Approaches to implement and evaluate carry-over and phase-in.
- Characteristics of fish stocks/fisheries/management that impact risks and benefits of carry-over and phase-in.



Tech Memo on Carry-over and Phase-in

- Council staff liaisons
 - Dr. Ryan Rindone (GMFMC)
 - Josh DeMello (WPFMC)
- Status:
 - Draft under internal review.



Potential Benefits of carry-over

- Safety
- Economic stability
- Management stability
- Multispecies catch share fisheries



Approaches to implement and evaluate carry-over

Develop carry-over provision within ABC control rule

- NS1 Guidelines advise:
 - Describe when the carry-over provisions can/cannot be used
 - Conduct comprehensive analysis
 - Consider reason for the ACL underage
 - Evaluate if appropriate for overfished/rebuilding stocks



Approaches to implement and evaluate carry-over

Develop carry-over provision within ABC control rule - continued

- Additional factors to consider:
 - Which stocks are eligible for carry-over?
 - How will underages be determined?
 - Account for multiple fishery sectors
 - Limit the amount of carryover
 - Process for making changes to ABC and ACL
 - Evaluate with a management strategy evaluation to test for robustness
 - Consult with SSC and applicable NMFS Science Center



Approaches to implement and evaluate carry-over

Case-by-case basis

- Rerun the projections that were used in the last stock assessment with revised catch estimates.
- Scenario planning within a stock assessment.



Potential Benefits of Phase-in

- Greater stability/less variability in ACLs over time
- Lower management uncertainty (easier for managers to control catch when ACLs shifts are smaller)



Approaches to implement and evaluate phase-in

Develop phase-in provisions within ABC control rule

- NS1 Guidelines advise:
 - Describe when the phase-in provisions can/cannot be used
 - Conduct comprehensive analysis
 - Phase-in time may not exceed 3 years
 - Prevent overfishing each year
 - Evaluate if appropriate for overfished/rebuildingstocks



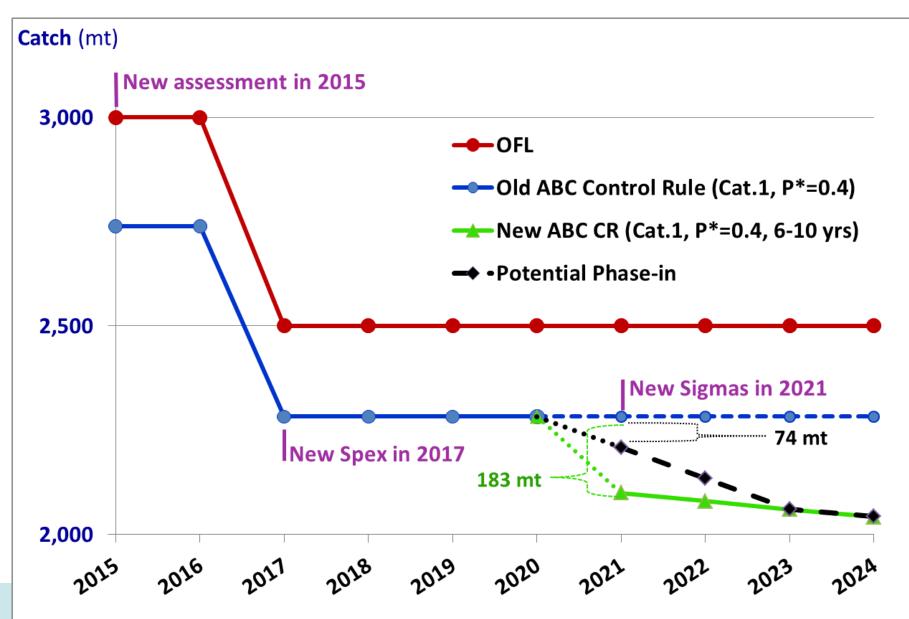
Approaches to implement and evaluate phase-in

Develop phase-in provisions within ABC control rule - continued

- Additional factors to consider:
 - Which stocks are eligible?
 - Phasing in increases and decreases to ABC
 - Maintaining a minimum buffer between ABC and OFL
 - Generation time of stock, assessment precision, and length of time between assessments
 - Evaluate with a management strategy evaluation to test for robustness



Example of phase-in from old to new sigma values



Approaches to implement and evaluate phase-in

Case-by-case basis

- SSC may recommend ABC that differs from the result of the ABC control rule.
- Run projections based on the most recent assessment with the proposed ABCs.



Characteristics of fish stocks and fisheries that impact risks of carry-over and phase-in

- Life history characteristics
- Stock structure, status, and spatial dynamics
- Jointly targeted and bycatch species
- Assessment availability and frequency
- ACL overages and catch uncertainty



Next Steps

- Plan to make draft available to SSCs for review in summer 2019.
- Plan to present to CCC in November.

Points of Contact

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Thank you!



