

The SAFMC ABC Control Rule

- Tier 1 - Assessed (P^* approach)
- Tier 2 - Depletion based stock reduction analysis (DB-SRA)
- Tier 3 - Depletion-corrected average catch (DCAC)
- Tier 4 - Catch only: ORCS approach

The ORCS Working Group Approach

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CALCULATING ACCEPTABLE BIOLOGICAL CATCH FOR STOCKS THAT HAVE RELIABLE CATCH DATA ONLY

(Only Reliable Catch Stocks – ORCS)

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- Based on the concept of deriving catch level recommendations based on exploitation level, stock status, and vulnerability.

Stock status	Potential management objectives
Lightly exploited	Maintain current catch levels or allow for limited increases in catch
Moderately exploited	Maintain current catch levels
Heavily exploited, possibly overfished	Reduce catches to end overfishing

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- 1) Assign stocks to one of three exploitation categories using an evidence-based scoring procedure.
- 2) Obtain an OFL by multiplying a statistical measure of historical catch by a scalar that depends on the exploitation category.
- 3) Obtain an ABC as a proportion (< 1) of the OFL to reflect the Council's decision on acceptable risk.

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Table 5. Recommended OFLs using ORCS Working Group Approach.

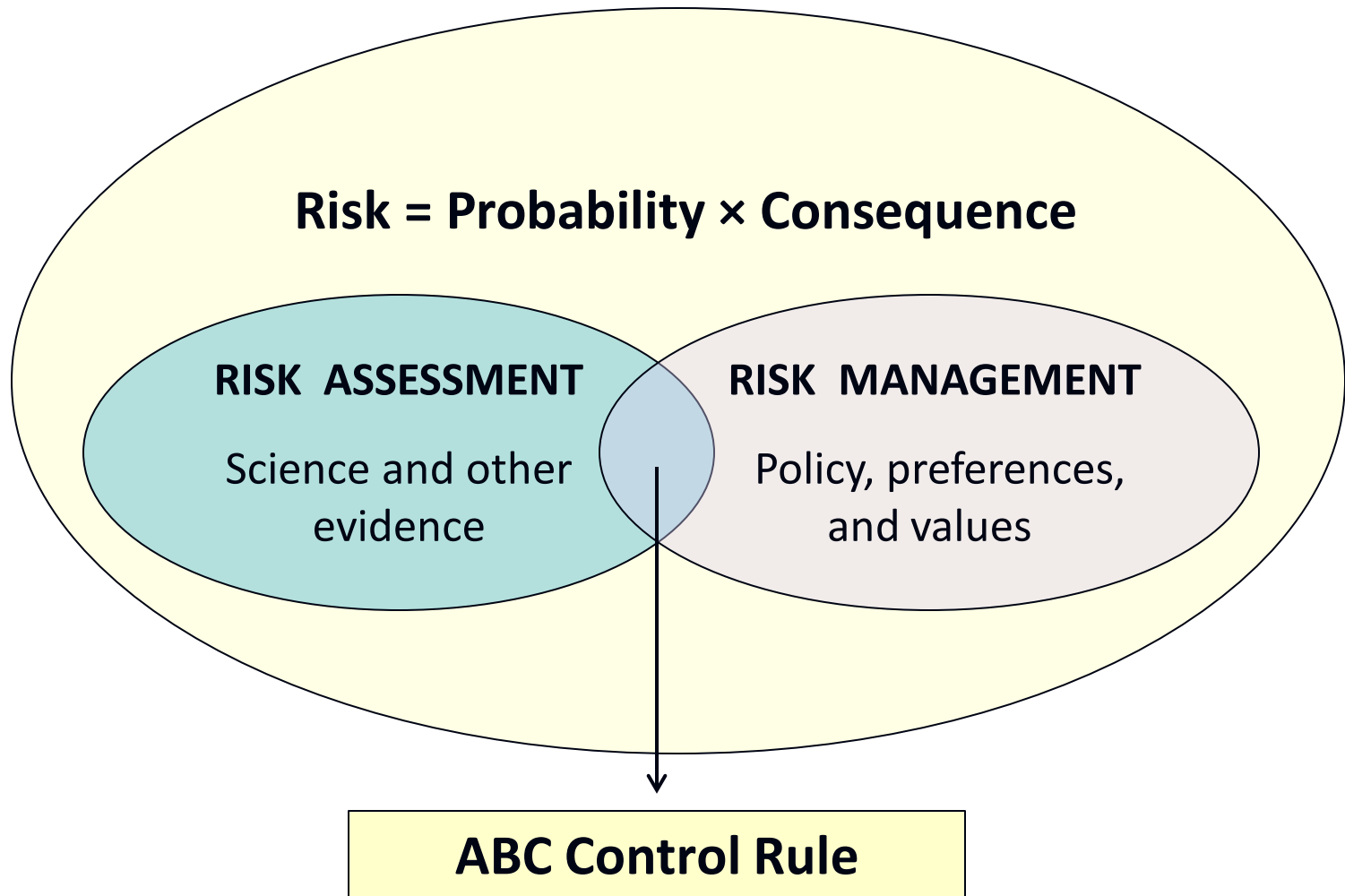
Stock category		
Lightly exploited ($B > B_{65\%}$)	Moderately exploited ($B \sim B_{MSY}$)	Heavily exploited ($B < B_{20\%}$)
2.0 x catch statistic	1.0 x catch statistic	0.50 x catch statistic

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Table 6. Example ABC options for catch-only stocks using the ORCS Working Group Approach.

Risk level	Alternative A	Alternative B	Alternative C	Alternative D
Low risk (high productivity)	0.75 x OFL	0.75 x OFL	0.90 x OFL	0.90 x OFL
Moderate risk (moderate productivity)	0.75 x OFL	0.75 x OFL	0.75 x OFL	0.80 x OFL
High risk (low productivity)	0.75 x OFL	0.50 x OFL	0.50 x OFL	0.70 x OFL

Risk Analysis Framework



Where do we go from here?

- SSC holding a workshop in early August to apply the ORCS approach (stock-specific OFL's and ABC's).
- Need Council guidance on RISK LEVELS for:
 1. High risk (low productivity)
 2. Moderate Risk (moderate productivity)
 3. Low risk (high productivity)