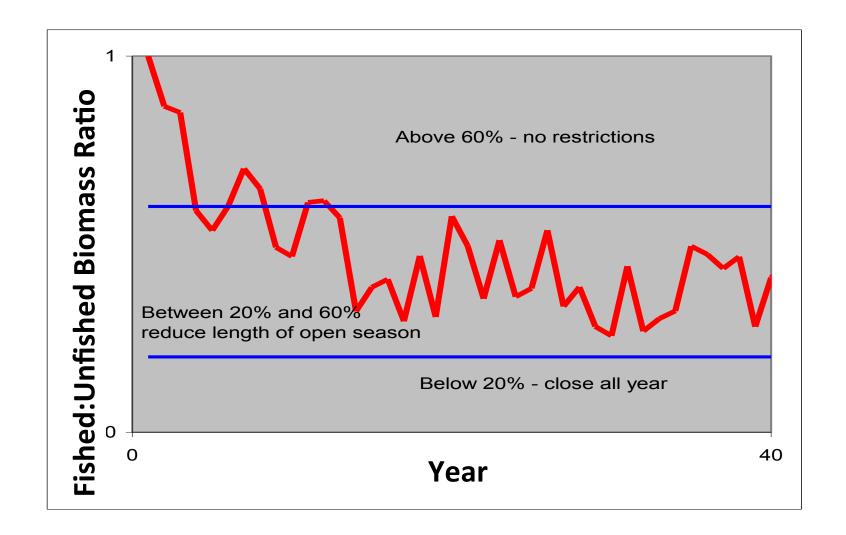
AFAM Step 4: Determining Harvest Control Rules



What are Harvest Control Rules?

- Guidance on how to adjust fishing mortality
 - Increase or decrease?
 - How much?
- Triggered by performance indicators relative to reference points
 - Above target reference point
 - Between target and limit reference point
 - Below limit reference point







General HCR

- <u>Step 4a</u>
 - Develop HCRs for all combinations of performance indicators relative to reference values

Consult Tables for examples



Define harvest control rules

Scenario	Fishing Mortality	Biomass Ratio	Likely Interpretation	Harvest Control Rule
1			Α	А
2			В	В
3			С	С
4			D	D

Define harvest control rules

Scenario	CPUE	Fishing Mortality	Biomass Ratio	Likely Interpretation	Harvest Control Rule
1				А	А
2				В	В
3				С	С
4				D	D
5				Е	E
6				F	F
7				G	G
8				Н	Н



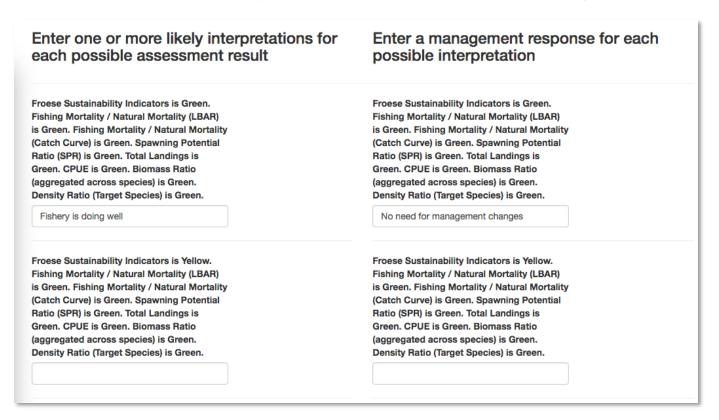
Add specificity to HCRs

- Step 4b
 - Be as specific and quantitative as possible (e.g., PI X% below target, reduce allowable catch by Y%)
- Considerations
 - Productivity
 - Feasibility
 - Enforceability, expected Compliance
 - Uncertainty and risks
 - Risk tolerance
 - Size of no-take zone, if applicable



Define harvest control rules

Dashboard has system for recording HCRs





Group Breakout Activity

 Using <u>AFAM Guidance Document</u>, look through instructions and references for Step 4

 Create harvest control rule table and record results in Your <u>AFAM Toolkit Worksheet</u>

Record table using
 AFAM Toolkit Online Dashboard



Thank you!

