AFAM STEPS 1 and 2: Management Tiers and Fisheries Management Controls



Roadmap

- What is a management tier?
- How do we choose appropriate fisheries management controls?

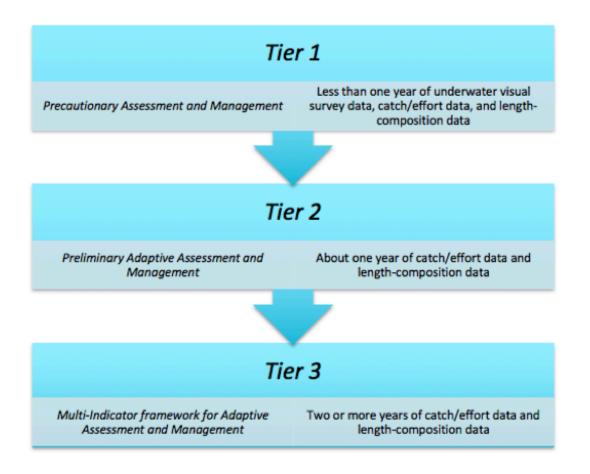


Step 1: Management Tiers

- Management depends on how much data is available
- Sufficient data to conduct several data limited assessments with independent representative data streams: science-based management
- Low data: precautionary management

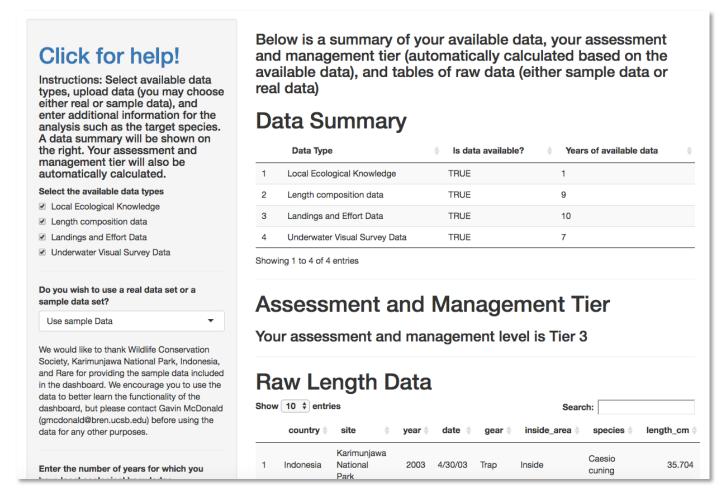


Step 1: Management Tiers





Step 1: Management Tiers





- Many potential choices, with pros and cons
 - Input controls: size limits, gear restrictions, effort controls, seasonal restrictions
 - Output controls: catch limits
 - Spatial controls: closures, protection of spawning aggregations



- Many factors influence choice
 - Biology of stocks
 - Fisherman understanding and buy-in
 - Data availability
 - Feasibility
- Each control has unique benefits and limitations
- Case studies

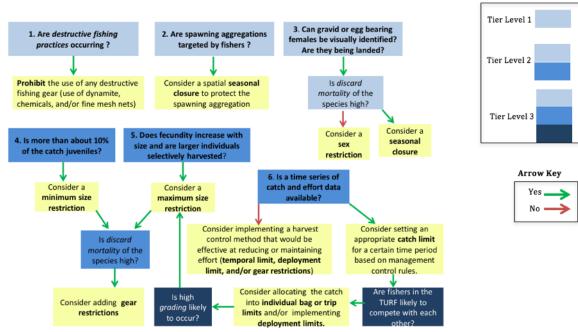


- Step 2a: Summarize existing controls
 - Mandate
 - Cost
 - Compliance
 - Attitudes
 - Effectiveness
 - Other pros/cons
- Determination: keep or replace?



Questions for each Tier Level

Step 2b: choose preliminary suite of fishery management controls





- Step 2c: combining FMCs to achieve multiple goals
 - Need multiple FMCs for multiple goals
 - E.g.: catch limits maintain biomass but not length structure or habitat
 - List FMCs, existing and new. <u>Evaluate using Tables</u>
 - Align with goals
 - Assess potential effectiveness
 - If beneficial, combine multiple FMCs



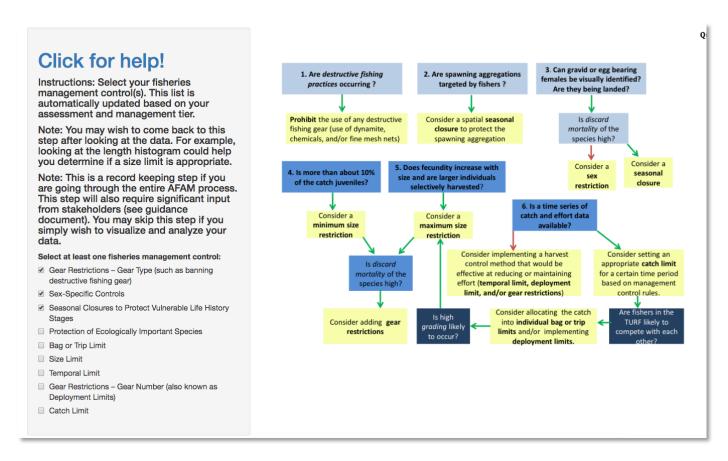
- Step 2d: feasibility
 - What has succeeded before?
 - Can it be implemented and enforced?
 - Socially and politically feasible?
 - Potential compliance?



- Step 2e: choosing specifics of FMCs for the first time
 - May need to choose specifics how big to make size limit, how much to reduce effort, etc.
 - Once established, AFAM can adaptively adjust previous controls over time



Dashboard has system for recording selected FMCs





Activity

 Using <u>AFAM Guidance Document</u>, look through instructions and references for Steps 1 and 2

 Record choices and notes in Your <u>AFAM Toolkit Worksheet</u>

 Record choices in AFAM Toolkit Online Dashboard



Thank you!

