FRDC 2005/024

Fine Scale management Prepared by Rob Day





Training syllabus Module 3 for the Abalone Fishing Industry delivered as part of FRDC project 2005/024



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Divers can apply local size limits

- IF everyone follows group decisions,

and voluntary catch caps

then ALL can benefit



Red shows small flat abalone back in crevices



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FRDC Prince's method to assess stocks 2005/024 Assessment process must be structured,

disciplined and transparent. A decision tree sets a structure to frame decisions

- Use the tree as a basis to reach agreement
- Use Catch Trends, plus Shell shape and Appearance
- These principal criteria produce 8 Exploitation Categories.
- Thus the basis for assessment of each area is transparent.
 - 1. Effort or catch unstable or stable?

DECIDE:

- 2. Declining/RisingHigh / Low?
- 3. Clean, Flat / Fouled, Domed?





Industry FSM: Summary

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- > Needed because recruits from local parents
- AND size of maturity differs, so local LMLs needed
 - To avoid serial depletion of most productive stocks
- Assessment can be based on catch history, plus shell Doming and Fouling
- > A decision tree structures the decisions
 - and makes transparent the basis of assessment
- Setting size limits transfers effort
 - So reefcode catch caps also needed
- Higher LMLs raise weight/ab as well as egg output



VADA - Central Zone Vic.

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2002 First MOU to control Port Phillip Bay Catch Levels

- 2004 May First Reef Assessment Workshop
 - Introduction to Reef Assessment Ideas
 - Initial Assessment of some Reef Codes

2004 October – Second Reef Assessment Workshop

- First use of Voluntary Reef Code MLs
- Target and Trigger limits for other Reef Codes managed through MOU
- 2005 October Third Reef Assessment Workshop
 - Process continued and developed......



FRDC Experience teaches us... 2005/024 Raising size limits must be gradual... - To allow grow-through each year Both levers: Size limits and Catch caps need to be used together - The total quota must be based on what reefs can take Voluntary MLs cannot exceed Legal limits by much - Or someone will be too tempted to undercut - Collaboration with the State to vary LMLs in broad areas reduces this problem - Some kind of monitoring system helps Mixed size areas are the hardest to agree on - Once larger fish are reduced, areas appear stunted The more data you have, the less disagreement - Measuring machines, etc. have an unseen value in this respect.