Aquatic Invertebrate working group





Aquatic invertebrates case studies

- Hard corals Indonesia & Australia
- Black coral USA (Hawai'i)
- Queen conch Colombia
- Giant clams Palau

Other CITES species not covered

- European date mussel Lithophaga
- App III listings 1 sea cucumber & 4 red corals

Working group approach

- No need to treat taxa differently
- No matrix!
- No decision tree!
- No flow chart!
- Used 'document 2' as checklist to stimulate thinking
- Some significant problems with taxonomy, identification and multi-species fisheries

Process for NDF

Approach based on a suggested cyclic 4 step process – four 'R's

- Risk assessment
- Regulate harvests
- Record harvests, trade and population responses
- Review, revise and refine measures and risks

Potential to produce guidance in a manual

Risk assessment

- Biological characteristics vulnerability
- Proportion of population subject to harvest (legal & illegal, international and domestic) and harvesting methods
- Nature of trade (continuous or one-off) and value of commodity in trade - value
- Governance of resource 'violability'
- Degree of tenure / ownership of the resource and incentives for stewardship
- Shared stocks / multiple harvests
- External factors other impacts on populations
- Ecosystem impacts non-target organisms & habitats
- Document rationale even if only intuitive / qualitative and identify time period for review

Regulate the harvest

Options based on risk assessment and available capacity – toolbox approach – tools not mutually exclusive

- Do nothing (but monitor)
- Use refugia (no-take zones or de facto refuges)
- Quotas (relevant)
- Size limits (relevant)
- Limit harvest effort or methods
- Set thresholds / reference points
- Shift to other production systems
- Seek co-management and public participation
- Collaborate over shared stocks
- Population modelling
- Prohibit harvest / export for a period

Record harvests, trade and population responses

Options based on risk and available capacity – need to consider data limitations

- Fishery independent data (surveys repeatable and standardised and at suitable taxonomic level, local & expert knowledge and consensus, are any refuges actually functioning)
- Fishery dependent data (landings, cpue, logbooks, size data) with conversion factors
- Market responses (changes in price, market demand) & actual trade (CITES permits)
- External factors (record any changes)

Review, revise, refine

- Use feedback from monitoring to review and if necessary revise management measures
- Identify gaps in knowledge and seek to address
- Review original risk assessment

Have we achieved non-detriment??

- Non-detriment achieved if population trends (or indicators of these), despite harvests, are positive or stable (within defined thresholds) or measures have been set in place to achieve this.
- Any risks are being effectively mitigated and addressed.
- Ongoing process



