

Allison Arnold WWF- New Zealand Seachange 05 22 November 2005





- Reduce seabird and marine mammal bycatch in commercial fisheries
- Promote sustainable fisheries through certification programmes
- Educate about the marine environment and the pressures that it faces
- Advocate for marine biodiversity protection by supporting development of a representative MPA network





Overview

- International and domestic context for expert workshop
- Workshop aims
- Process
- Results
- Next steps





The Global 200 Ecoregions









Aims of workshop

- Identify key biodiversity areas through scientific consensus
- Identify information gaps and other obstacles to assessing marine biodiversity
- Establish links with key marine experts
- Start outreach to potential users
- Agree future steps for the assessment and conservation of New Zealand's marine biodiversity









Criteria

Species diversity Species richness Endemism Dependency for other species Trophic/functional diversity Representation (i.e. across physical types) National/Global conservation status/threat classification Extremities of range and adaptation to environment Degree of disturbance Cultural values Special conditions and specialised organisms Species with a global distribution but New Zealand is a stronghold/significant Seasonal/migratory importance Unusual degree/proportion of biomass Aggregations Special phylogenetic grouping Relict/genetic lineages (i.e. "living fossils") Habitat complexity/diversity Overlap between biological regions (at national and global regions level) I inke to alobal natterne



Drawing the maps





Drawing the maps





Drawing the maps













Results of the workshop

- GIS-based maps of key biodiversity areas
- Physical and biological characteristics described
- Current status and management
- State of knowledge
- Non-geographic priorities





Cetacean, seal, and seabird biodiversity: Key areas in the NZ marine ecoregion





Fish biodiversity: Key areas in the NZ marine ecoregion





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Benthic invertebrate, algal, and plant biodiversity: Key areas in the NZ marine ecoregion





A synthesis of information

- GIS-based maps of important ecological zones for the taxonomic groups
- Summaries of spatially-based and nonspatially based information
- Experts underscored general dearth in data and understanding, and taxonomic expertise
- Workshop fostered dialogue among marine scientists





Next steps?

- Combine layers with other information based tools (e.g. Marine Environment Classification)
- Combine biodiversity layers with social, economic, and cultural data layers
- Repeat expert process at regional level
- Use workshop results to inform priorities for research and management







Marine Environments Classification

Source: NIWA



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Report can be found online:

www.wwf.org.nz

