

17-002: Managing coral reef fisheries for biodiversity, ecosystem and economic benefits

Project revised logframe: draft October 2010

Project summary	Measurable Indicators	Means of verification	Important Assumptions
<p>Goal:</p> <p>Effective contribution in support of the implementation of the objectives of the Convention on Biological Diversity (CBD), the Convention on Trade in Endangered Species (CITES), and the Convention on the Conservation of Migratory Species (CMS), as well as related targets set by countries rich in biodiversity but constrained in resources.</p>			
<p>Sub-Goal:</p> <p>Harvesting of coral reef fish in the Maldives for the aquarium trade and for food are set at a sustainable level that promotes conservation of biodiversity, retains ecosystem function and provides maximum benefits to local communities.</p>	<p>In-situ surveys in fished and unfished areas show no significant differences in reef health and populations of target species.</p> <p>Catch/unit effort for target species is stable</p>	<p>Data from the field surveys</p> <p>DI Project evaluation</p>	
<p>Purpose</p> <p>The Project purpose is to establish a long-term monitoring and evaluation programme that provides data for the development of a conservation management plan for Maldives coral reef fisheries</p>	<ol style="list-style-type: none"> 1. Coral reef fish monitoring programme established and functioning by end of Project. 2. System for recording catch and effort in place and operating. 3. Management plan (s) for coral reef fisheries produced 	<ol style="list-style-type: none"> 1. Reports of workshops 2. Monitoring reports 3. Fishing log books 4. Management plan(s) 5. Fishing log books 	

	and implemented by end of Project.		
<p>Outputs</p> <p>1. Reef fish monitoring programme established and coral reef fish stock assessments / habitat assessments completed</p>	<p>1.1. Volunteer data collectors sustain interest and provide good quality data from surveys by yr 2 and on-going until end of project.</p> <p>1.2. Data from surveys analysed annually from yr 2 and results disseminated to volunteer data collectors and other stakeholders.</p> <p>1.3. Results of all surveys combined and incorporated into pilot fishery management plan early in Yr 3 and final management plan by end of project.</p> <p>1.4. Data on grouper spawning aggregations incorporated into management decisions and plans by early in year 3.</p>	<p>1. Discussion papers.</p> <p>2. Manual defining protocols.</p> <p>3. Illustrated field guides for participants.</p> <p>4. Report(s) of training workshops.</p> <p>5. Report(s) of research seminars</p> <p>6. Databases containing field data.</p> <p>7. Reports containing results, analysis and recommendations for conservation / fishery action (first report end Yr 2).</p>	<p>1. All stakeholders support and become involved in the reef monitoring programme</p> <p>2. Trained staff and volunteers continue to use skills provided under the project</p>
<p>2. System for long-term monitoring of catch, effort and value of reef fisheries established.</p>	<p>2.1. Fishers participate in the log book scheme and provide reliable data from yr 2 and on-going until end of project.</p> <p>2.2. Data from fisher log</p>	<p>1. Log books.</p> <p>2. Reports of training workshops and meetings.</p> <p>3. Databases containing field data</p>	<p>1. Fishers are cooperative and participate fully.</p> <p>2. Trained staff are committed to carrying out data collection and</p>

	<p>books analysed and results incorporated into the fishery management plans.</p> <p>2.3. Data from log books and surveys of 'end use' analysed and incorporated into fishery management plans.</p>	<p>4. Reports of findings and recommendations.</p>	<p>analysis</p>
<p>3. Management Plans for coral reef fisheries and biodiversity conservation devised and in operation</p>	<p>3.1. Draft management plans produced by end of Yr 3</p> <p>3.2. Revised management plans produced by end of Yr 4</p> <p>3.3. Management measures introduced on the ground by end Yr 4.</p>	<p>1. Report of management planning workshops and meetings.</p> <p>2. Final Management Plans for reef fish, grouper and aquarium fish produced.</p> <p>3. Recorded evidence of management measure in place and operational</p>	<p>1. Agreement on management is reached by all the stakeholders</p> <p>2. National government backs and implements the Management Plan(s)</p>
<p>4. Results of reef fish stock assessment and reef health monitoring widely disseminated</p>	<p>4.1. Website established.</p> <p>4.2. Workshops with stakeholders.</p> <p>4.3. Articles and scientific papers prepared.</p> <p>4.4. Data shared with global databases</p>	<p>1. Website</p> <p>2. Electronic and hard copies of articles & reports</p>	

Project implementation timetable showing the key milestones in project activities. Please note that many of the activities (e.g. data collection from fish monitoring programme) are continual.

Activity	Months	Year 1				Year 2				Year 3				Year 4			
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Output 1. Reef fish monitoring programme established and coral reef fish stock assessments / habitat assessments completed.																	
1.1 Stakeholder meetings to discuss aims, methods, progress		x	x		x		x		x		x		x		x		x
1.2 Establish network of survey teams			x				x				x						
1.3 Develop protocols for monitoring of fish populations and reef health & produce recording sheets & field data sheets etc			x				x				x						
1.4 Training workshops for MRC staff and other participants				x			x		x		x		x				
1.5. Design databases and train MRC staff & other stakeholders				x					x								
1.6 Data collection / field surveys / data entry					x	x	x	x	x	x	x	x	x	x	x	x	x
1.7 Analysis of data and production of report(s)										x						x	
1.8. Continued data collection and analysis						x	x	x	x	x	x	x	x	x	x	x	x
1.9. Management of 'Sharkwatch'			x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
110 Research into spawning aggregations					x	x	x	x	x	x	x	x	x	x	x	x	x
Output 2: System for long-term monitoring of catch, effort and value of reef fisheries established.																	
2.1 Produce daily logbook for reef fishers in collaboration with stakeholders; and adapt as necessary, based on feedback.		x	x					x			x						
2.2 Train fishers in data entry by Yr 1.				x	x			x									
2.3 Establish databases and train MRC staff in data entry and analysis by Yr 1.				x	x												
2.4 Data collection in operation by Yr 2.						x	x	x	x	x	x	x	x	x	x	x	x
2.5 Analyse data and produce reports and recommendations by Yr 2/3								x	x	x							
2.6. Collection and analysis of fishery data.				x	x	x	x	x	x	x	x	x	x	x	x	x	x
2.7. Develop & implement logbooks for 'end users' ; analyse data					x	x	x	x	x	x	x	x	x	x	x	x	x
2.8. Collection, entry & analysis of export data					x	x	x	x	x	x	x	x	x	x	x	x	x
2.9. Identification guide to reef fish for stakeholders					x		x		x								

210	Consultations and fact-finding meetings with fishery stakeholders					x		x		x		x		x			
211	Seminars with Maldives Customs Services				x				x				x				
Output 3: Management Plans for coral reef fisheries and biodiversity conservation devised and in operation.																	
3.1	Produce draft management plans by end of Yr 3											x	x	x			
3.2	Produce revised management plans by end of Yr 4														x	x	x
3.3	Management measures introduced on the ground by end Yr 4														x	x	x
Output 4: Results of reef fish stock assessment and reef health monitoring widely disseminated.																	
4.1	Establish website		x	x													
4.2	Prepare articles and scientific papers					x				x				x			x
4.3	Share data with global databases									x				x			x

