BIBLIOGRAPHY OF DFID FISHERIES MANAGEMENT SCIENCE PROGRAMME

FROM 1990 TO March 2004

The Department for International Development (DFID) is the UK Government department responsible for promoting development and the reduction of poverty. The Government is committed to halve, by 2015, the proportion of the world’s poor whose income is less than one dollar a day; the proportion of people who suffer from hunger, and the proportion of people who lack safe drinking water. Other associated targets include basic health care provision and universal access to primary education. DFID works in partnership with the governments of developing countries, international organisations, voluntary bodies, the private sector and the research community. DFID’s Strategy for renewable natural resources for the period 1995–2005 aims to reduce poverty by enhancing productive capacity in the RNR sector in an economically and environmentally sustainable way. There are ten DFID research programmes, of which three belong to the Fisheries Programmes: Aquaculture Research and Fish Genetics, Fisheries Management Science, and Post-Harvest Fisheries Research. These are managed by Stirling University, Marine Resource Assessment Group Ltd., and Natural Resources International Ltd., respectively. The Strategy aims to generate replicable new technologies and improved knowledge in natural and social sciences through a rigorous scientific approach to problem solving. It promotes the uptake and application of research products for the removal of constraints to sustainable development and management of renewable natural resources in tropical developing countries.

The producers of this publication have made every attempt to ensure that all entries to the Bibliography are as detailed and as consistent as possible.
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INTRODUCTION

The central aim of the UK Government’s Department for International Development (DFID) is to eliminate poverty by improving the livelihoods of poor people in developing countries. One of the means by which DFID addresses this aim is through its strategy for research in renewable natural resources strategy. The purpose of the Strategy is to create benefits for poor people by generating and promoting the use of new knowledge in natural resources management.

Fisheries play an important part in the social and economic lives of vast numbers of people around the world, many of whom are amongst the poorest and most marginalised people in rural communities. The International Fund for Agricultural Development (IFAD) specifically singles out fisherfolk as one of the key groups of the poor\(^1\). In many cases fish harvesting, processing and trade is seen as the employment of last resort when other economic opportunities have run out. Fish farming is also a growing contributor to both employment and food for the poor. There are no accurate figures for the number of people involved in fisheries but it is estimated that, globally, there are tens of millions of people dependent on fisheries for their main source of income for at least some of each year – and this number is rapidly increasing.

Research into increasing the productivity and productive potential of poor fisherfolk is an important part of DFID’s knowledge strategy.

DFID funds three fisheries research programmes. The programmes and the institutions which manage them are:

- Aquaculture and Fish Genetics Research (University of Stirling)
- Fisheries Management Science (Marine Resource Assessment Group Ltd.)
- Post-Harvest Fisheries Research (Natural Resources International Ltd.)

Each of these management institutions is contracted by DFID to commission research which will help to deliver the development objectives of the strategy. Research institutions in the academic, non-governmental and commercial sectors are sub-contracted by the programme managers to carry out the research. All research is conducted in close collaboration with partners in developing countries. This collaboration both increases the likely uptake of research outputs and promotes capacity in those countries.

A recent review of the efficiency and impact of the programmes concluded that the research was both cost-effective and has a significant positive impact on the lives of the poor.

As part of the research validation process, the outputs from research are published in peer-reviewed journals. Other dissemination products are also produced which address the needs of a wider audience. This Bibliography brings together the publications of the DFID funded fisheries research for the Fisheries Management Science Programme over the period 1990–2001. It is designed to provide a source of information about the new fisheries knowledge which DFID has generated through its fisheries research programmes.

If fisheries research is to contribute significantly to the elimination of poverty then:

- researchers need to co-ordinate their activities with each other

practitioners in the field need to be kept informed of new knowledge and technologies
policy makers need to be fully informed
research outputs must provide a strong basis upon which to plan development programmes.

It is hoped that this Bibliography will contribute to that process. The publications produced by the Programme are arranged by year, then project and then by peer-reviewed and other publications.

In a few instances, where there are multiple authors, a publication may appear under more than one project. Please note that in this Bibliography some project titles have been shortened.
# FISHERIES MANAGEMENT SCIENCE PROGRAMME

**Programme Manager**  
Professor J. Beddington  
Marine Resource Assessment Group Ltd., London

### 1991

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<td>Principles of management and conservation of coral reef fisheries</td>
<td>1991</td>
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<td>R4517</td>
<td>Development of computer aids for fish stock assessment and management policy</td>
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Other Publications


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### Other Publications

R4776  Shrimp management

Other Publications


1993

R4775  Control of foreign fishing

Other Publications


R4778  Programme development

Peer Reviewed


R5024  Multispecies response of reef fisheries to exploitation

Peer Reviewed


R5048  Optimisation of reef fisheries

Other Publications


R5484  Management of multispecies tropical fisheries

Peer Reviewed


1994

R4283  Guidelines for harvesting species of different lifespans

Peer Reviewed


R4683 Impact of species changes in African lakes
Peer Reviewed


R5023 Potential yield of small reservoir fisheries in South East Asia
Other Publications


R5048 Optimisation of reef fisheries
Peer Reviewed


R5484 Management of multispecies tropical fisheries
Other Publications


R5953 Fisheries dynamics of modified floodplains in southern Asia
Peer Reviewed


1995

R4683 Impact of species changes in African lakes
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R4777 Analysis of fish aggregating devices

Other Publications

R5023  Potential yield of small reservoir fisheries in South East Asia

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R5048  Optimisation of reef fisheries

Peer Reviewed


R5049  Control of foreign fisheries – adaptive research


R5484  Management of multispecies tropical marine fisheries

Peer Reviewed


R5485  River and floodplain fisheries

Other Publications

**R5958**  Culture fisheries assessment methodology

*Other Publications*


**1996**

**R4777**  Analysis of fish aggregating devices

*Other Publications*


**R4778**  Programme development

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*Peer Reviewed*


R5050 Computer aids in fisheries management – adaptive research

*Other Publications*


R5484 Management of multispecies tropical fisheries

*Other Publications*


R5953 Fisheries dynamics of modified floodplains in southern Asia

*Other Publications*


R5958 Culture fisheries assessment methodology

*Peer Reviewed*


*Other Publications*


R6437  Management strategies for new or lightly exploited fisheries in developing countries

Peer Reviewed


R6465  Growth parameter estimation and the effect of fishing on size composition and growth of snappers and groupers implications for management

Other Publications

DIRECTORATE OF FISHERIES RESEARCH (1996) The use of otoliths to determine the age of snapper and grouper from the Seychelles and Mauritius fisheries Preliminary report to MRAG in completion of Phase I. Ministry of Agriculture and Fisheries, Lowestoft, UK.

R6494  Evaluation of floodplain enhancement

Other Publications


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R5049 Control of foreign fisheries

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R5484 Management of multispecies tropical fisheries

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R5485 River and floodplain fisheries

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R5953 Fisheries dynamics of modified floodplains in southern Asia

Other Publications


R5958 Culture fisheries assessment methodology

Peer Reviewed


R6267 Enhancement of a lagoon prawn fishery at Rekawa, Sri Lanka

Other Publications

R6338  Reservoir fisheries management in Savannakhet Province, Laos PDR

*Other Publications*


R6436  Performance of customary marine tenure (CMT) in the management of community fishery resources in Melanesia

*Other Publications*


R6437  Management strategies for new or lightly exploited fisheries in developing countries

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R6465  Growth parameter estimation and the effect of fishing on size composition and growth of snappers and groupers implications for management

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R6494 Evaluation of floodplain enhancement

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R5024 Multispecies responses of reef fishes to exploitation


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Peer Reviewed


R6436  Performance of customary marine tenure (CMT) in the management of community fishery resources in Melanesia

Other Publications

POLUNIN, N.V.C. (1999) Fishery-independent assessment of management effects on community fishery resources in Fiji and Vanuatu. Technical report submitted in completion of sub-contract for the UVC component of project R6436 May 1999 (Note this has been incorporated into the FTR as Volume 3, Chapter 2).
Management strategies for new or lightly exploited fisheries in developing countries

Peer Reviewed


Growth parameter estimation and the effect of fishing on size composition and growth of snappers and emperors – implications for management

Other Publications


Evaluation of the biological and socioeconomic benefits of enhancement of floodplain fisheries

Peer Reviewed


Information systems for co-management of artisanal fisheries

Other Publications


R7043  Selection criteria and co-management guidelines for harvest reserves in tropical river fisheries

Peer Reviewed


The above article was also published, with permission, in the source below in Other Publications:


Other Publications


R7336  Sustainable livelihoods from fluctuating fisheries resources

Peer Reviewed


2000

Programme Outputs

Other Publications


R5024  Multispecies responses of reef fishes to exploitation

Peer Reviewed


R5953  Fisheries dynamics of modified floodplains in southern Asia

Peer Reviewed


R6338 Reservoir fisheries management in Savannakhet Province, Laos PDR

Peer Reviewed


R6465 Growth parameter estimation and the effect of fishing on size composition and growth of snappers and emperors – implications for management

Peer Reviewed


R7041 Software for estimating potential yield under uncertainty

Other Publications


R7043 Selection criteria and co-management guidelines for harvest reserves in tropical river fisheries

Other Publications


R7334 Management of conflict in tropical fisheries

Other Publications


R7335 Adaptive learning approaches to fisheries management

Peer Reviewed

Other Publications


R7336 Sustainable livelihoods from fluctuating fisheries resources

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R5953 Fisheries dynamics of modified floodplains in southern Asia

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R6437 Management strategies for new or lightly exploited fisheries in developing countries

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R7335  Adaptive learning approaches to fisheries management

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R7336  Sustainable livelihoods from fluctuating fisheries resources

Peer Reviewed


2002

R6437  Management strategies for new or lightly exploited fisheries in developing countries

Peer Reviewed


R7335: Adaptive learning approaches to fisheries management

Other Publications


ARTHRUR, R.I, GARAWAY, C.J (2002) Results of the exploratory baseline study to investigate the status of community led management of small waterbodies in Southern Lao PDR


MRAG LTD / RDC (2002) Summary reports of the district staff data analysis workshops on adaptive learning and community fisheries in Savannakhet (English & Lao versions)

MRAG LTD / RDC (2002) Summary reports of the village level discussion workshops on adaptive learning and community fisheries in Southern Laos (English & Lao version)

R7336 : Sustainable livelihoods from fluctuating fisheries resources

Peer Reviewed


Other Publications


R7917: Self recruiting species in aquaculture - their role in rural livelihoods

Other Publications


DEMAINE, H., VAN, K. V. (2002) Yes, Dr Luu, SRS are important - especially to the rural poor! Aquaculture News 28; 14. Institute of Aquaculture, University of Stirling


2003

R6465: Growth parameter estimates and the effect of fishing on size-composition and growth of snappers and emperors: implications for management

Peer Reviewed

Peer reviewed

R5953: Fisheries Dynamics of Modified Floodplains in Southern Asia

R7043: Selection criteria and co-management guidelines for harvest reserves in tropical river fisheries

R7835: Investigation of the implications of different life history strategies on fisheries management

R7042: Information systems for co-management of artisanal fisheries

R7334: The Management of Conflict in Tropical Fisheries
BENNETT, E. and CLERVEUX, W. Social capital and fisheries management on small islands. (submitted) to Aquatic Resources, Culture and Development, 8 July 2003

R7834: Interdisciplinary multivariate analysis (IMA) for adaptive co-management


R7917: Self-recruiting species in aquaculture: their role in rural livelihoods


Other publications

CEDA/LFDA


R 7041: Software for estimating potential yield under uncertainty


R8285: Data Collection and Sharing Mechanisms for Co-Management


**R8292: Uptake of adaptive learning approaches for enhancement fisheries**


MRAG, DoAWB and CIFRI (2004). Identifying stakeholders and developing a means to enhance learning: A summary of the implementation of adaptive learning methodologies in West Bengal, India. Technical Report

MRC (2003). Management plan reviews and adaptations, 14 waterbodies (Cambodia, Thailand, Lao PDR, Viet Nam), October - December 2003


**R8294: Enabling Better Management of Fisheries Conflicts**

# LIST OF PROJECTS

Contact:  Professor J. Beddington  
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R8118  Understanding livelihoods dependent on inland fisheries in Bangladesh and Southeast Asia.

R8196  Understanding Fisheries Associated Livelihoods and the Constraints to their Development in Kenya and Tanzania.

R8210  The use of sluice gates for stock enhancement and diversification of livelihoods

R8249  Livelihood assets required for an East Africa FADs Programme.

R8285  Fisheries data collection and sharing mechanisms for (co-) management.

R8292  Uptake of adaptive learning approaches for enhancement fisheries.

R8294  Enabling better management of fisheries conflicts

R8331  Promoting Livelihood Benefits from Fish Aggregation Devices

R8360  Synthesis and uptake promotion of FMSP stock assessment tools and guidelines

R8397  Uptake of Participatory Fisheries Stock Assessment (PFSA) Tool Kit