

**MARINE MANAGEMENT SUPPORT:
NINGALOO**

**BIBLIOGRAPHY OF MARINE SCIENTIFIC RESEARCH
RELEVANT TO THE CONSERVATION OF NINGALOO
MARINE PARK AND ADJACENT WATERS**

Data Report: MMS/NIN/NMP-27/2000

**Prepared by
K.P. Bancroft and J.A. Davidson**

November 2000



Marine Conservation Branch
Department of Conservation and Land Management
47 Henry Street, Fremantle
Western Australia 6160

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Cover: *Coral Bay at Ningaloo Reef, Western Australia*
(Courtesy of the Central Map Agency, Department of Land Administration).

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Copies of this report may be obtained from:

Marine Conservation Branch
Department of Conservation and Land Management
47 Henry St., Fremantle, Western Australia, 6160
Ph: 61-8-9432 5100; Fax: 61-8-9430 5408

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1. INTRODUCTION

A comprehensive list of references, including published and unpublished literature, relevant to the conservation of Ningaloo Marine Park and adjacent waters is presented in this report. This project was initiated by the Marine Conservation Branch of the Department of Conservation and Land Management (CALM), as a contribution to the current review of the Ningaloo Marine Park Management Plan 1989 – 1999 (May *et al.*, 1989). The bibliography has a total of 333 references. The information will be used to assist the up-coming review of the management plan, and in the identification of gaps in the knowledge and information for management of the marine park.

Much of the research relevant to the Ningaloo Marine Park is recent, with a significant amount of research conducted since the gazettal of the marine park in 1987 and the release of the management plan in 1989 (May *et al.*, 1989). Current research being undertaken at Ningaloo Marine Park which has to be produced or published in draft form has not been included in the bibliography.

The bibliography originated from a database held by CALM's Exmouth District Office. It has been amended and supplemented from a wide variety of sources. Information was obtained from State and Commonwealth government departments, universities, libraries and online bibliographies, particularly a bibliography of literature relevant to the North West Shelf, developed by the Australian Institute of Marine Science and CSIRO for the North West Shelf Joint Environmental Management Study (Jernakoff *et al.*, 1999). In an attempt to collate relevant and recent research, draft copies of the amended database were also sent to scientists licensed to conduct research within the Ningaloo Marine Park region. A framework for the development of the database is given in Appendix II. This framework can also be used as a guideline in the development of bibliographic databases for other marine protected areas.

Every effort has been made to ensure that all relevant marine scientific research documents have been included into this bibliography, which is current as of September 2000.

2. BIBLIOGRAPHIC DATABASE

The bibliography was compiled as an electronic database, using EndNote Version 4 (ISI ResearchSoft). Reference details as well as keywords (Appendix I) have been assigned to each entry and can be used to search for associated references using the EndNote search capabilities.

3. DATA MANAGEMENT

3.1. REPORT

Hard copies of this report will be held at four locations:

1. Marine Conservation Branch, Department of Conservation and Land Management, 47 Henry St., Fremantle, Western Australia, 6160. Ph. (08) 9432 5100 Fax. (08) 9430 5408.
2. Exmouth District Office, Department of Conservation and Land Management, Payne St., Exmouth, Western Australia, 6707. Ph. (08) 9949 1676 Fax. (08) 9949 1580.
3. Woodvale Library, Science and Information Division, Department of Conservation and Land Management, Ocean Reef Rd., Woodvale, Western Australia, 6026. Ph. (08) 9405 5100 Fax. (08) 9306 1641.

4. Archives, Woodvale Library, Science and Information Division, Department of Conservation and Land Management, Ocean Reef Rd., Woodvale, Western Australia, 6026. Ph. (08) 9405 5100
Fax. (08) 9306 1641.

The Marine Conservation Branch will hold digital copies of this report:

1. On CD-ROM [mms_2700]
2. On the MCB homepage of the Department of Conservation and Land Management Intranet, CALMweb:
http://calmweb.calm.wa.gov.au/drb/ned/mcb/rep_pdf/mms_reps/mms_2000/mmsrep00.htm#mms_2700

3.2. DATABASE

The database will be located as follows:

1. On the Marine Conservation Branch Server, accessible via the following directory pathway:
Mcb on 'StreetTalk\User Data@FREM.MCB@CALM'
[T:\Databases\Biological inventory\NMP Sci Res Dbase.enl]
2. On the MCB Server full backup DAT tape, which is held by the MCB administration office and is labelled as:
[T:\Databases\Biological inventory\NMP Sci Res Dbase.enl]
3. The Exmouth District Office.

3.3. DATABASE MAINTENANCE

Maintenance of the database will be the responsibility of CALM's Exmouth District Office. Information regarding omissions or new references will be gratefully accepted by that office. Contact details for the CALM Exmouth District office are as follows:

Exmouth District Office
Department of Conservation and Land Management
PO Box 201
Exmouth, Western Australia 6707
Phone: (08) 9949 1676
Fax: (08) 9949 1580

4. BIBLIOGRAPHY

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APPENDICES

APPENDIX I: LIST OF KEYWORDS USED IN THE BIBLIOGRAPHIC DATABASE.

Aboriginal
Aboriginal archaeology
Aboriginal history
Abrolhos Islands
Agriculture
Analysis
Anthozoa corals
Antifoul paint
Antifouling
Archaeology
Artifacts
Asteroid
Atmospheric science
Australian Marine Science Association
Bay of Rest
Behaviour ecology
Benthic habitats
Biodiversity
Biological control
Biological survey
Birds
Boat harbor
Boundary
Cape Range
Cape Range National Park
Climate
Coastal Land
Coastal Morphology
Coastal Parks
Commercial fishing
Commonwealth
Commonwealth Government
Conservation
Conservation management
Coral Bay
Coral Biology
Coral coast
Coral colonisation
Coral dispersal
Coral fertilisation
Coral growth
Coral larvae
Coral recovery
Coral recruitment
Coral Reef
Coral spawn
Coral spawning
Coral species
Crown of thorns
Crustaceans
Cyclones
Development
Disposal
Distribution
Drupella cornus
Dugongs
Echinoderm
Ecology
Ecotourism
El Nino
Endangered species
Environmental impact
Evolution
Exmouth
Exmouth gulf
Fish
Fish dispersal
Fish heads
Foraminifera
Gascoyne
Gastropod
Geographical information systems
Geology
Geomorphology
Great barrier reef
Groundwater
Growth
Growth rates
Habitat
Habitat map
Historical
Holocene sediments
Houtman Abrolhos
Human interaction
Human usage
Humpback whale
Hydrogeology
Industry
Intertidal
Invertebrate
Land use
Larvae dispersal
Larval distribution
Larval survival
Law
Leeuwin Current
Legislative Council
Littorines
Management
Management plan
Mangal
Mangrove

Manta rays
Map
Marinas
Marine fauna
Marine flora
Marine habitat
Marine mammal
Marine protected areas
Marine reserves
Marine survey
Maritime Education and Research Alliance
Meteorology
Midden
Migration
Molluscs
Monitoring
Mudwelk
Muiron Islands
National Parks
Neogastropoda muricidae
Nerites
Ningaloo Marine Park
North West Cape
North West Shelf
North West Snapper
Nudibranch
Oceanography
Oil
Parasite
Parliament
Perciformes Chaetodontidae
Petroleum
Planktonic
Planning
Plate coral
Predator
Proposed marine reserves
Protection
Public participation
Recommendations
Recreation
Recreation zones
Recreational fishing
Replenishment
Reproduction
Research
Resources
Rhincodon typus
Salinity
Sampling methods
Sanctuary zones
Science
Sea cucumber
Seabirds
Seagrass
Seaweed
Sediments
Seismic exploration
Sewage disposal
Shark Bay
Sharks
Shells
Southern extension
Southern oscillation
Starfish
Suspended sediment
Sustainable development
Tantabiddi
Temperature
Tides
Tourism
Trawling
Turtles
Vegetation
Vertebrate fauna
Waste disposal
Water quality
Western Australia
Whale
Whale sharks
Wilson report
Zooplankton

APPENDIX II: FRAMEWORK FOR THE DEVELOPMENT OF A BIBLIOGRAPHIC DATABASE.

This framework is a generic guideline for the development of a bibliographic database of marine scientific research undertaken within an existing or proposed marine conservation reserve. The bibliographic database will assist in the determination of areas of research required for the management of marine conservation reserves.

There are four major steps:

- Step 1 - Data gathering and compilation.
- Step 2 - Database references.
- Step 3 - Peer review.
- Step 4 – Maintenance.

STEP 1: Data gathering and compilation

Gather and compile a bibliographic list of existing marine scientific research conducted in or making reference to the area of interest. This information may be obtained from the following sources:

- i. Libraries;
- ii. CALM Districts and Regional offices;
- iii. Other State government organisations including:
 - Fisheries Western Australia (FWA);
 - Environmental Protection Authority (EPA);
 - Department of Environmental Protection (DEP);
 - Department of Minerals and Energy (DOME);
 - Department of Resources Development (DRD);
- iv. Commonwealth government organisations including:
 - Commonwealth Science and Industry Research Organisation (CSIRO);
 - Australian Geographical Survey Organisation (AGSO);
 - Australian Institute of Marine Science (AIMS);
 - Environment Australia (EA);
- v. Universities and other academic institutions.

Links to proponents of marine scientific research may also be obtained through correspondence to scientists from the CALM research licensing database, held at CALM's Wildlife Conservation Section of the Wildlife Branch. Contact details of the Wildlife Branch are as follows:

Department of Conservation and Land Management
Wildlife Conservation Section
Locked Bag 104
Bentley Delivery Centre WA 6983
Ph: 08 9334 0455
Fax: 08 93340278

STEP 2: Database references

Compile the bibliography as an electronic database, using the bibliographic management software *EndNote V. 4* (ISI ResearchSoft). *EndNote* may be obtained from:

Crandon Services Pty. Ltd.
PO Box 337
LAURIETON NSW 2443
Ph: 02 6559 5777
Fax: 02 6559 5577
Web site: <http://www.crandon.com.au>

Ensure that the appropriate reference details are assigned to all entries in the database. For example:

- the type of reference (journal, book, report, proceedings of a conference, etc.);
- author/s (avoid using *et al.*);
- date of printing;
- correct title;
- ensure that all source information is entered (journal name, volume, and issue, editor/s, book details, etc.), and;
- assign appropriate keywords (*see* Appendix II).

STEP 3: Peer review

Copies of the draft bibliography may be sent to the appropriate CALM district or regional office, or Marine Conservation Branch, or government institutions and leaders in the marine scientific research field for peer review to correct any inaccuracies in reference details and to add any omitted information.

STEP 4: Maintenance

Copies of the database will be held at the appropriate CALM district office and will be available upon request. The maintenance of the database will also be the responsibility of the district office.