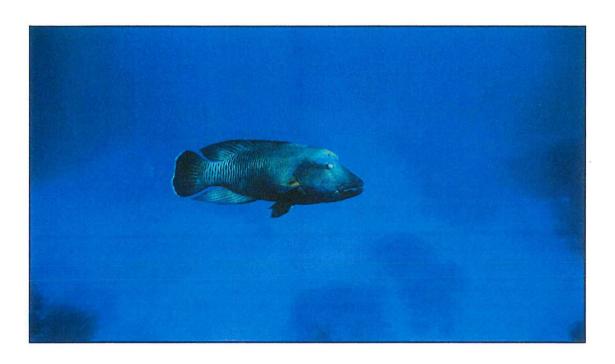
BIBLIOGRAPHY OF MARINE SCIENTIFIC RESEARCH RELEVANT TO THE ROWLEY SHOALS MARINE PARK AND THE MERMAID REEF MARINE NATIONAL NATURE RESERVE

Data Report: OOS/RSMP-2007/01



Prepared by Alicia Edwards and Kevin Bancroft June 2007



Marine Science Program

Department of Environment and Conservation
17 Dick Perry Avenue
Kensington, Western Australia 6151

Attention:

In the event that any relevant reports or papers are not included within this report please advise DEC's Marine Science Program on 08 9334 0299. This information will be greatly appreciated.

Reminder:

Any research conducted within Marine Protected Areas and/or involving native flora and fauna requires departmental (DEC) licensing.

Contact DEC Wildlife Licensing: 17 Dick Perry Ave, Technology Park, KENSINGTON, WA 6151 Ph: (08) 9334 0434

Front cover photo: Department of Environment and Conservation, Marine Science Program image library.

This report may be cited as:

Edwards, A. and Bancroft, K. P. (2007). Bibliography of marine scientific research relevant to the Rowley Shoals Marine Park and the Mermaid Reef Marine National Nature Reserve. Data Report: OOS/RSMP-2007/01. Marine Science Program, Science Division, Department of Environment and Conservation, Perth, Western Australia. 15 p.

Copies of this report may be obtained from:

Marine Science Program
Science Division
Department of Environment and Conservation
17 Dick Perry Ave, Technology Park
KENSINGTON WA 6151

Ph: (08) 9334 0299, or email: Kevin.Bancroft@dec.wa.gov.au

SUMMARY

This bibliography contains a list of 54 references relevant to the conservation of the Rowley Shoals Marine Park (RSMP) and the Mermaid Reef Marine National Nature reserve (MRMNNR). The reference list contains both published and unpublished literature.

An accompanying report (Edwards & Bancroft, 2007) lists all current and proposed research projects relevant to the RSMP and MRMNNR, as of June 2007. Collectively, these reports address high priority management strategies within the RSMP Management Plan (Department of Environment and Conservation, 2007) and the MRMNNR Plan of Management (Environment Australia, 2000).

The bibliography will be used to identify gaps in the knowledge and information base necessary for management of the RSMP and MRMNNR, so that research can be prioritised to close those gaps. This report will be widely available to all relevant providers of marine science, to facilitate a strategic and collaborative approach towards marine research in the RSMP and MRMNNR.

* *

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1 INTRODUCTION

The Rowley Shoals are made up of three isolated shelf atolls (Mermaid, Imperieuse and Clerke Reefs) off the north-western Australian coast, approximately 260 km west of Broome (Department of Environment and Conservation and Marine Parks and Reserves Authority 2007). In 1990, Imperieuse and Clerke Reefs were declared as the Rowley Shoals Marine Park (RSMP), which has recently been extended in the Rowley Shoals Marine Park Management Plan 2007-2017 (Department of Environment and Conservation and Marine Parks and Reserves Authority 2007). The Mermaid Reef Marine National Nature Reserve (MRMNNR) was established by the Commonwealth government in 1991, and is managed by the Department of Environment and Conservation (DEC) under a Memorandum of Understanding with the Department of Environment and Water Resources. Due to the remoteness of these reefs, they have been largely unstudied by marine scientists in the past. However, in recent times the pristine state of this area has brought new found interest from a variety of researchers.

This bibliographic report was initiated by the DEC's Marine Science Program (MSP) and has an accompanying report (Edwards & Bancroft, 2007) which lists all current and proposed research projects relevant to the RSMP and MRMNNR, as of June 2007. Collectively, these reports address high priority management strategies within the RSMP Management Plan (Department of Environment and Conservation, 2007) to "develop and maintain a database of historical and current research in the reserves", to "develop and progressively implement a coordinated and prioritised research program focused on key values and processes of the park" and to "identify, prioritise and communicate high priority ecological and social research projects relevant to management of the park..." and the MRMNNR Plan of Management (Environment Australia, 2000) to "develop research and monitoring programs that will provide information for management".

This report contains a comprehensive list of references, including published and unpublished literature, relevant to conservation and management of the RSMP and MRMNNR. The information given in this report will be used to identify gaps in knowledge and information necessary for successful management of the Rowley Shoals Marine Park and the Mermaid Reef Marine National Nature Reserve. Future research and monitoring programs will address these gaps.

2 METHODS

2.1 REFERENCE COLLATION

The MSP framework for the development of bibliographic databases was used to compile this bibliography (Appendix I). This framework should be used as a guideline for the future development of bibliographic databases for other marine protected areas.

The following process was undertaken to source the information presented in this report:

 Contacted key Western Australian marine research leaders, including researchers from the Australian Institute of Marine Science (AIMS), Australia's Commonwealth Scientific and Industrial Research Organisation (CSIRO), Department of Fisheries (DoF), Western Australian Museum (WAM) and DEC.

- Contacted academic research leaders from the main universities in Western Australia including the University of Western Australia (UWA), Edith Cowan University (ECU), Murdoch University (MU), Curtin University of Technology (CUT) and Notre Dame University (NDU).
- Contacted academic research leaders from other Australian universities that have a marine focus, including James Cook University, Charles Darwin University and Southern Cross University.
- Conducted internet searches of the web sites of all the above universities and State and Commonwealth government agencies.
- Contacted Australian Customs/CoastWatch.
- Contacted the Executive Officer of the Australian Marine Science Data Network, BlueNet, in Tasmania.
- Conducted general Internet searchers using Google and other search engine tools.

2.2 BIBLIOGRAPHIC DATABASE

This bibliography was compiled as an electronic database, using EndNote Version X. Reference details including keywords, abstracts and research notes have been assigned to some references. Every reference has been assigned keywords unless the research subject is explicit within the reference title (see Appendix II for the list of keywords). The find function of EndNote can therefore be used to search the bibliography for research subjects, authors, project titles etc.

All references have been labelled with source location codes (acronyms) for hard copies of written materials (Table 1).

Table 1. Source codes and locations of all the references relevant to the Rowley Shoals Marine Park and the Mermaid Reef Marine National Nature Reserve

| Acronym | Organisation/Institution | Location |
|---------|---|----------------------------------|
| AIMS | Australian Institute of Marine Science | Townsville, Queensland |
| DEWR | Department of Environment and Water Resources | Canberra, Aust Capital Territory |
| DoF | Department of Fisheries | Hillarys, Western Australia |
| JOURNAL | See relevant Journal | Relevant Journal |
| MSP | Marine Science Program, DEC | Kensington, Western Australia |
| UWA | University of Western Australia | Crawley, Western Australia |
| WSL | Woodvale Science Library DEC | Woodvale, Western Australia |

3 RESULTS

Fifty four references relevant to the RSMP and MRMNNR were identified and are presented within this report. Figure 1 depicts the number of reports relevant to the Rowley Shoals Marine Park and the Mermaid Reef Marine National Nature Reserve produced each year since 1969 (see Appendix III for a table presenting the number of reports produced each year).

This bibliography was created from a wide variety of sources. Among other sources, information was obtained from State and Commonwealth government departments, universities, libraries and online bibliographies. Every effort has been made to ensure that all relevant scientific research references have been included in this bibliography, which is current as of June 2007.

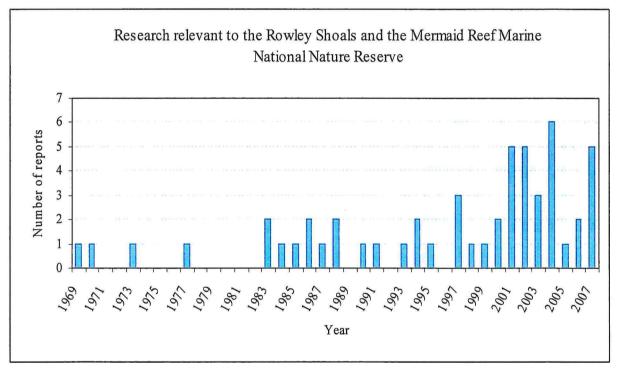


Figure 1. Number of reports relevant to Rowley Shoals Marine Park and Mermaid Reef Marine National Nature Reserve produced each year from 1969 to 2007 (n=53) (An undated reference was omitted from this graph).

4 BIBLIOGRAPHY

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- Berry, P. & Marsh, L.M. (1985). Scott Reef and Rowley Shoals, shelf edge atolls off north-western Australia. In. Proceedings of the Fifth International Coral Reef Congress, Vol 6, Tahiti, pp. 317-322 (WAM)
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- Wilson, B.R. (1990). A range of reefs. Landscope, 6, pp. 10-15 (WSL)

5 DATA MANAGEMENT

5.1 REPORT

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

- 1. Marine Science Program (MSP) Library, Department of Environment and Conservation, Science Division, 17 Dick Perry Ave, Technology Park, Kensington, WA, 6151. Ph: (08) 9334 0299.
- 2. West Kimberley District Office, Department of Environment and Conservation, 111 Herbert Street, Broome WA 6725. Ph: (08) 9195 5500.
- 3. Woodvale Library, Science Division, Department of Environment and Conservation, Ocean Reef Rd., Woodvale, WA. Ph: (08) 9405 5100 Fax: (08) 9306 1641.
- 4. Archives, Woodvale Library, Science Division, Department of Environment and Conservation, Ocean Reef Rd., Woodvale, WA. Ph. (08) 9405 5100 Fax: (08) 9306 1641.
- 5. Serials Section, State Library of Western Australia, Alexander Library Building, Perth Cultural Centre, Perth, Western Australia 6000.

Digital copies of this report will be held at the following:

- 1. On CD-ROM [MSP 2007-01].
- 2. On the DEC Science Division server:

T:\529-CALMscience\Shared Data\Marine Science Program\MSP_REPORTS\MSP_2007-01.pdf

5.2 DATABASE

The database will be located on the DEC Science Division Server:

T:\529-CALMscience\Shared Data\Marine Science Program\MSP_DATABASES\Rowley Shoals Research Database\RSMP Bibliography 2007\Rowley Shoals Biblio.enl

5.3 DATABASE MAINTENANCE

Maintenance of the database will be the responsibility of MSP. However information regarding the publication or completion of any reports relevant to the Rowley Shoals Marine Park and the Mermaid Reef Marine National Nature Reserve will be gratefully accepted by MSP or West Kimberley District Office from any person or institution/organisation. The database will be updated on a six-monthly basis in order to enter newly publicised or completed reports into the database.

Please forward information regarding newly publicised or completed reports relevant to the Rowley Shoals Marine Park and the Mermaid Reef Marine National Nature Reserve to MSP or West Kimberley District Office. Contact details as below:

 Marine Science Program, Science Division, 17 Dick Perry Ave, Kensington WA 6151. Ph: (08) 9334 0299
 Email: Kevin.Bancroft@dec.wa.gov.au

2. West Kimberley District Office, 111 Herbert St, Broome WA 6725. Ph: (08) 9195 5500

| Marine Science Program |
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| APPENDICES |
| THE ENDICES |
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Department of Environment and Conservation

APPENDIX I. 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 relevant to an existing or proposed marine conservation reserve. The bibliographic database will assist in the identification 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 marine scientific research conducted in or of relevance to the area of interest. This information may be obtained from the following sources:

- i. Libraries:
- ii. DEC Districts and Regional offices;
- iii. Other State government organisations including:

Department of Fisheries (DoF);

Environmental Protection Authority (EPA);

Department of Industry and Resources (DoIR).

iv. Commonwealth government organisations including:

Commonwealth Science and Industry Research Organisation (CSIRO);

Australian Geographical Survey Organisation (AGSO);

Australian Institute of Marine Science (AIMS):

Department of Environment and Water Resources (DEWR);

Australian Customs/ Coast watch;

Australian Fisheries Management Authority (AFMA).

- v. Universities and other academic institutions.
- vi. Consultants.

Links to proponents of marine scientific research may also be obtained through contact details on the DEC research licensing database, held at DEC's Wildlife Conservation Section. Contact details are as follows:

Department of Environment and Conservation

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* Version X (ISI ResearchSoft).

| Marine Science Program | Department of Environment and Conservation |
|---|--|
| the type of reference (journal, boo author/s (avoid using et al.); date of publication; correct title; | are assigned to all entries in the database. For example: ak, report, proceedings of a conference, etc.); is entered (journal name, volume, and issue, editor/s, book Appendix II). |
| Marine Science Program, or government ins | nt to the appropriate DEC district or regional office, or the stitutions and leaders in the marine scientific research field, in reference details and to add any omitted information. |
| | appropriate DEC district office and will be available upon will also be the responsibility of DEC's Marine Science |

1.5

APPENDIX II. LIST OF KEYWORDS USED IN THE BIBLIOGRAPHIC DATABASE

Abrolhos Islands
Abundance
Acoustic System
AIMS report
Albany
Atolls
Australia
Barrow Island

Bedwell Island
Benthic communities
Benthic environment

Benthos Bibliography

Bibliograph Birds

Biodiversity Bioerosion

Biological surveys Biological value Bioprospecting

Bonaparte Archipelago

Broome BRUVS

Buccaneer Archipelago Burrup Peninsula Cambridge Gulf Cape Leeuwin Cape Leveque

Capes
Cartier Island
Cartier reef

Central west coast Clerke Reef Cnidaria Commercial Commercial species

Commercial species
Commonwealth
Coral

Coral Bay
Coral bleaching
Coral reef
Coral spawning

Cretaceous-Tertiary carbonates

Crustacean

Dampier Archipelago

Decapods

Delambre Island
Distribution
Disturbance
Echinoderms
Economic value
Ecosystem function

Fauna Faunal survey

Endemism

Faunal survey Financial report

Fish

Fish communities

Fishing

Functional redundancy

Geographic Information Systems

Geology Giant clams

GIS

Gorgonacea Great Barrier Reef Ground truth data

Habitat

Imposex

Habitat mapping Holothurians Hotspots

Houtman Abrolhos Human activities Human usage Hydrocarbon Imperieuse Reef

Indo-Pacific
Internal report
Inventory
Junceella juncea
Jurien Bay
Kalbarri
Kimberley
Lacepede Islands
Leeuwin current

Management Plan Maps

Management

Marine biodiversity
Marine environment

Marine Park Scampi Marine protected areas Scott Reef Marine reserves Sea Sea cucumbers Marmion Marine Park MCB report Sediment Mermaid Reef Seismic profiles Mermaid Reef Marine National Seringapatam Reef Nature Reserve Serranidae Meta-data Shark Bay Marine Park Molluscs Sharks Monitoring Shell fish Monitoring strategy Shipwreck Montebello Islands Shoalwater Islands Marine Park Montgomerey Reef Social value Morphology Soft corals **MPA** South coast New genus Spatial rectification Ningaloo Species lists Ningaloo Marine Park Sponges North West Shelf Storms Ocean floor Stratigraphic Oceanic shoals Structural Oceanography Submissions Octocorallia Tantabiddi Over fishing Taxonomic relationship Pilbara Temperature loggers **PNG** Temperature monitoring Porifera Terrestrial biodiversity Progress report Threats Quaternary evolution **Tourism** Recherche Traditional fishing Recreation Trochus Recreational fishing Tropical Reef fish Vansittart Bay Reef morphology Walpole Reefs Water temperature

Research Richness Rottnest Island Rowley Shoals

Rowley Shoals Marine Park

West coast

Western Australia

Worms Wrasse

APPENDIX III. Number of reports per year since 1969

Number of reports relevant to Rowley Shoals Marine Park and Mermaid Reef Marine National Nature Reserve produced each year from 1969 to 2007 (n=53 reports' an undated reference was omitted from this table).

| Year | Number of reports |
|--------------|-------------------|
| 1969 | 1 |
| 1970 | 1 |
| 1971 | 0 |
| 1972 | 0 |
| 1973 | 1 |
| 1974 | 0 |
| 1975 | 0 |
| 1976 | 0 |
| 1977 | 1 |
| 1978 | 0 |
| 1979 | 0 |
| 1980 | Ö |
| 1981 | 0 |
| 1982 | 0 |
| 1983 | 2 |
| 1984 | 1 |
| 1985 | 1 |
| 1986 | 2 |
| 1987 | 1 |
| 1988 | $\frac{1}{2}$ |
| 1989 | 0 |
| 1990 | 1 |
| 1991 | 1 |
| 1992 | 0 |
| 1993 | 1 |
| 1994 | 2 |
| 1995 | 1 |
| 1995 | 0 |
| 1997 | 3 |
| 1997 | 1 |
| | 1 |
| 1999 2000 | 2 |
| | 5 |
| 2001 | |
| 2002 | 5 |
| 2003 | 3 |
| 2004 | 6 |
| 2005 | 1 |
| 2006 | 2 |
| 2007 | 5 |
| TOTAL | 53 |