

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



**Prepared by
Shannon J. Armstrong
June 2006**

**Update of last report prepared by
K.P. Bancroft and J.A. Davidson
November 2000**



**MARINE SCIENCE PROGRAM
SCIENCE DIVISION
DEPARTMENT OF ENVIRONMENT AND CONSERVATION**

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Attention:

In the event that any relevant projects are not included within this report please advise DEC's Marine Science Program on 08 93340 228 or email shannona@dec.wa.gov.au. 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.

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Kensington, WA 6151

Ph: Danny Stefoni 08 93340 439, or Adrain Coleman 08 93340 433

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Science Division

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1. INTRODUCTION

This report contains a comprehensive list of references, including published and unpublished literature, relevant to the conservation of the Ningaloo Marine Park and adjacent waters. This report is an update of the last bibliography of marine scientific research relevant to the Ningaloo Marine Park prepared by K. Bancroft and J. Davidson in November 2000 (Bancroft & Davidson, 2000). As of November 2000, there were a total of 333 references in the Bancroft & Davidson (2000) report, since then an additional 425 references have been added to the database giving a total of 758 references presented in this report. Figure 1 depicts the total number of reports relevant to the Ningaloo Marine Park produced each year since 1980 (see Appendix I for a table showing the exact number of reports produced each year). The Bancroft & Davidson (2000) report originated from a database held by the Department of Environment and Conservation (DEC) Exmouth District Office. Since then 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. Every effort has been made to ensure that all relevant scientific research references have been included into this bibliography, which is current as on June 2006.

This report was initiated by the DEC's Marine Science Program's leader Dr Chris Simpson and the Manager of the Ningaloo Research Program, Dr Nick D'Adamo. The information given in this report will be used to identify gaps in knowledge and information regarding the management of the Ningaloo Marine Park. Focus can then be made on addressing those gaps. This report was also initiated to assist in the deliverance of the Ningaloo Research Program (NRP) which is a five million dollar state initiative aimed to underpin protection and management of the Ningaloo coast by providing a good understanding of the conservation needs of the area. The NRP will help sustain Western Australia's long term capacity in fundamental and applied marine research and monitoring relevant to marine management, through the local involvement of academia, state and national research agencies and organisations. This report will be made widely available to universities, organisations and State and Commonwealth government departments associated with marine scientific research relevant to Ningaloo Marine Park. This will facilitate in achieving a strategic and collaborative approach towards marine research at Ningaloo Reef.

A framework for the development of the database is given in Appendix II. This framework can be used as a guideline in the development of bibliographic databases for other marine protected areas.

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

- Updated the existing database in the NRP project and funding guidelines as some of the projects had been completed since its creation.
- Referred to and updated the existing Bancroft & Davidson (2000) 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) and DEC.
- Contacted academic research leaders from the four main universities in Western Australia.

- Contacted academic research leaders from other Australian universities that have a marine focus such as 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.
- Conducted general Internet searches using Google and other search engine tools.

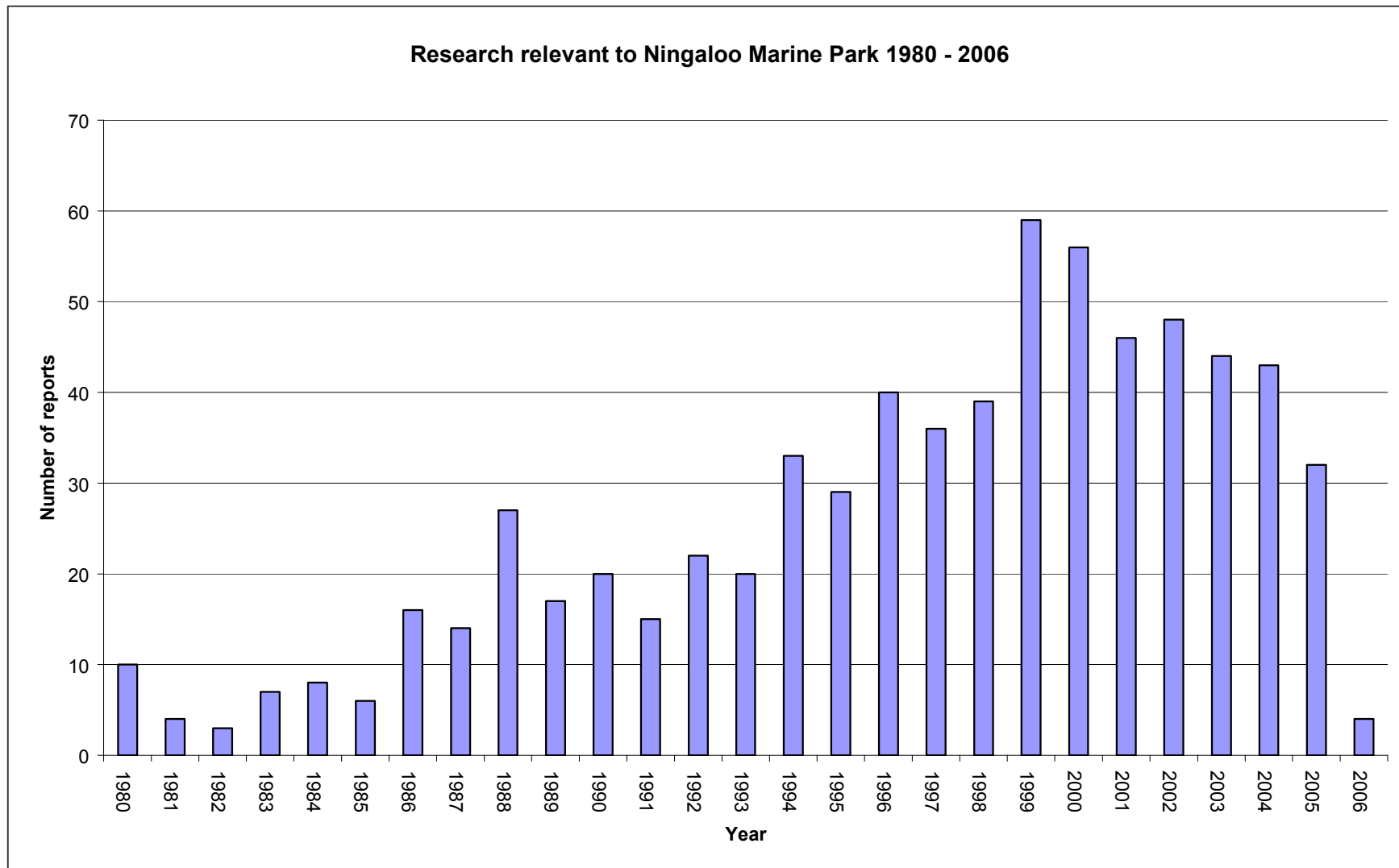


Figure 1. Number of reports relevant to Ningaloo Marine Park produced each year from 1980 to 2006. Total #: 698 reports. Some references are undated and these were left out of the graph.

2. BIBLIOGRAPHIC DATABASE

The bibliography was compiled as an electronic database, using EndNote Version 8. 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 III 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.

3. DATA MANAGEMENT

3.1 Report

Hard copies of this report will be held at four 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) 93340228 Shannon Armstrong (email; shannona@dec.wa.gov.au).
2. Exmouth District Office, Department of Environment and Conservation, 20 Nimitz St, Exmouth, WA, 6707. Ph: (08) 99491676 Fax: (08) 99491580
3. Woodvale Library, Science Division, Department of Environment and Conservation, Ocean Reef Rd., Woodvale, WA. Ph: (08) 94055100 Fax: (08) 93061641
4. Office of Science, Technology and Innovation (DOIR), 1 Adelaide Terrace, East Perth, WA, 6004. Ph: (08) 9222 3333

The Marine Science Program and the Exmouth District Office will hold digital copies of this report:

1. On CD-ROM
2. On the DEC MSP server, accessible via the following directory pathway: T:\529-CALMscience\Shared Data\Marine Science Program_Bibliography of Marine Scientific Research Relevant to the Ningaloo Marine Park and Adjacent Waters 2006
3. On the Exmouth District Server.
4. On the Office of Science, Technology and Innovation (DOIR) server, accessible via the following directory pathway: N:\NDAdamo\1_NR&MP_HD\Research Database_Ningaloo Marine Park\Final_NMP Bibliography

3.2 Database

The database will be located as follows:

1. On the DEC MSP server, accessible via the following directory pathway: T:\529-CALMscience\Shared Data\Marine Science Program\Ningaloo Databases\Bibliography
2. The Exmouth District Server.

3.3 Database Maintenance

Maintenance of the database will be the responsibility of DEC's MSP. However information regarding the publication or completion of any reports relevant to the Ningaloo Marine Park will be gratefully accepted by DEC's MSP or District Office from any person or institution/organisation. The database will be updated on a six-month 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 Ningaloo Marine Park to DEC's MSP or Exmouth district Office. Contact details as below:

1. Marine Science Program, Science Division, Kensington: Shannon Armstrong ph 08 9334 0228 email shannona@dec.wa.gov.au or Kevin Bancroft ph 08 9334 0257 email kevinb@dec.wa.gov.au
2. Exmouth District Office: Jennie Cary ph 08 99491676, email jenniec@dec.wa.gov.au

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APPENDICES

APPENDIX I – Number of reports per year since 1980

Table 1. Number of reports relevant to Ningaloo Marine Park produced each year from 1980 to 2006 (total #: 698 reports as some references are undated, these were left out of the graph).

Year	Number of reports
1980	10
1981	4
1982	3
1983	7
1984	8
1985	6
1986	16
1987	14
1988	27
1989	17
1990	20
1991	15
1992	22
1993	20
1994	33
1995	29
1996	40
1997	36
1998	39
1999	59
2000	56
2001	46
2002	48
2003	44
2004	43
2005	32
2006	4
Total	698

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 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 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 the Marine Science Program, 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 CALM's Marine Science Program.

APPENDIX III – List of keywords used in the bibliographic database

Aboriginal	Geomorphology	Starfish
Acoustics	Groundwater	Subterranean fauna
Agriculture	Habitat map	Survey methods
Anchoring	History	Sustainability
Archaeology	Human interaction	Tantabiddi
Benthic habitats	Human usage	Temperature
Birds	Hydrology	Tides
Boats	Industry	Tourism
Bundegi	Intertidal	Trawling
Cape Range National Park	Intertidal reef communities	Trophic cascades
Circulation	Invertebrates	Turtles
Climate	Land use	Waste disposal
Climate change	Larvae dispersal	Water quality
Coastal development	Leeuwin current	Whale sharks
Coastal morphology	Long-term monitoring	Whales
Coastal vegetation	Macro algae	Wilderness
Commercial fishing	Management	
Community	Management plan	
Community monitoring	Mangroves	
Contaminants	Manta rays	
Coral Bay	Marinas	
Coral reef communities	Marine protected areas	
Coral reef recovery	Migration	
Coral spawning	Migratory species	
Crown of Thorns	Molluscs	
Crustaceans	Monitoring	
Currents	Mooring	
Cyclones	Muiron Islands	
Diver damage	Ningaloo current	
Dolphins	North West Cape	
Drupella cornus	North West Shelf	
Dugongs	Oceanography	
Echinoderms	Petroleum development	
Education	Phytoplankton	
Environmental impact	Rays	
Evolution	Recreational fishing	
Exmouth	Recruitment	
Exmouth gulf	Seabirds	
Filter feeding communities	Seagrass	
Fish	Seascapes	
Fisheries	Sediment quality	
Foraminifera	Sediments	
Gastropod	Seismic exploration	
Geographical information	Sewage disposal	
systems	Sharks	
Geology	Southern extension	