

NORTH WEST SHELF
JOINT ENVIRONMENTAL
MANAGEMENT STUDY



Bibliography of research and data
relevant to marine environmental
management of Australia's
North West Shelf


NWSJEMS
TECHNICAL REPORT No. 2

- P. Jernakoff • L. Scott • A. Heyward
- A. Revill • C. Sherwood

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NORTH WEST SHELF JOINT ENVIRONMENTAL MANAGEMENT STUDY

Final report

North West Shelf Joint Environmental Management Study Final Report.

List of technical reports

NWSJEMS Technical Report No. 1

Review of research and data relevant to marine environmental management of Australia's North West Shelf.

A. Heyward, A. Revill and C. Sherwood

NWSJEMS Technical Report No. 2

Bibliography of research and data relevant to marine environmental management of Australia's North West Shelf.

P. Jernakoff, L. Scott, A. Heyward, A. Revill and C. Sherwood

NWSJEMS Technical Report No. 3

Summary of international conventions, Commonwealth and State legislation and other instruments affecting marine resource allocation, use, conservation and environmental protection on the North West Shelf of Australia.

D. Gordon

NWSJEMS Technical Report No. 4

Information access and inquiry.

P. Brodie and M. Fuller

NWSJEMS Technical Report No. 5

Data warehouse and metadata holdings relevant to Australia's North West Shelf.

P. Brodie, M. Fuller, T. Rees and L. Wilkes

NWSJEMS Technical Report No. 6

Modelling circulation and connectivity on Australia's North West Shelf.

S. Condie, J. Andrewartha, J. Mansbridge and J. Waring

NWSJEMS Technical Report No. 7

Modelling suspended sediment transport on Australia's North West Shelf.

N. Margvelashvili, J. Andrewartha, S. Condie, M. Herzfeld, J. Parslow, P. Sakov and J. Waring

NWSJEMS Technical Report No. 8

Biogeochemical modelling on Australia's North West Shelf.

M. Herzfeld, J. Parslow, P. Sakov and J. Andrewartha

NWSJEMS Technical Report No. 9

Trophic webs and modelling of Australia's North West Shelf.

C. Bulman

NWSJEMS Technical Report No. 10

The spatial distribution of commercial fishery production on Australia's North West Shelf.
F. Althaus, K. Woolley, X. He, P. Stephenson and R. Little

NWSJEMS Technical Report No. 11

Benthic habitat dynamics and models on Australia's North West Shelf.
E. Fulton, B. Hatfield, F. Althaus and K. Sainsbury

NWSJEMS Technical Report No. 12

Ecosystem characterisation of Australia's North West Shelf.
V. Lyne, M. Fuller, P. Last, A. Butler, M. Martin and R. Scott

NWSJEMS Technical Report No. 13

Contaminants on Australia's North West Shelf: sources, impacts, pathways and effects.
C. Fandry, A. Revill, K. Wenziker, K. McAlpine, S. Apte, R. Masini and K. Hillman

NWSJEMS Technical Report No. 14

Management strategy evaluation results and discussion for Australia's North West Shelf.
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NWSJEMS Technical Report No. 15

Management strategy evaluation specification for Australia's North West Shelf.
E. Fulton, K. Sainsbury, D. Hayes, V. Lyne, R. Little, M. Fuller, S. Condie, R. Gray, R. Scott,
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NWSJEMS Technical Report No. 16

Ecosystem model specification within an agent based framework.
R. Gray, E. Fulton, R. Little and R. Scott

NWSJEMS Technical Report No. 17

Management strategy evaluations for multiple use management of Australia's North West Shelf
– Visualisation software and user guide.
B. Hatfield, L. Thomas and R. Scott

NWSJEMS Technical Report No. 18

Background quality for coastal marine waters of the North West Shelf, Western Australia.
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ACRONYMS

ACOM	Australian Community Ocean Model
AFMA	Australian Fisheries Management Authority
AFZ	Australian Fishing Zone
AGSO	Australian Geological Survey Organisation now Geoscience Australia
AHC	Australian Heritage Commission
AIMS	Australian Institute of Marine Science
AMSA	Australian Maritime Safety Authority
ANCA	Australian Nature Conservation Agency
ANZECC	Australian and New Zealand Environment and Conservation Council
ANZLIC	Australian and New Zealand Land Information Council
APPEA	Australian Petroleum, Production and Exploration Association
AQIA	Australian Quarantine Inspection Service
ARMCANZ	Agricultural Resources Management council of Australia and New Zealand
ASIC	Australian Seafood Industry Council
ASDD	Australian Spatial Data Directory
CAAB	Codes for Australian Aquatic Biota
CAES	Catch and Effort Statistics
CALM	Department of Conservation and Land Management (WA Government)
CAMBA	China Australia Migratory Birds Agreement
CDF	Common data format
CITIES	Convention on International Trade in Endangered Species
CTD	conductivity-temperature-depth
CMAR	CSIRO Marine and Atmospheric Research
CMR	CSIRO Marine Research
COAG	Council of Australian Governments
Connle	Connectivity Interface
CPUE	Catch per unit effort
CSIRO	Commonwealth Science and Industrial Research Organisation
DCA	detrended correspondence analysis
DIC	Dissolved inorganic carbon
DISR	Department of Industry, Science and Resources (Commonwealth)
DEP	Department of Environmental Protection (WA Government)
DOM	Dissolved organic matter
DPIE	Department of Primary Industries and Energy
DRD	Department of Resources Development (WA Government)
EA	Environment Australia
EEZ	Exclusive Economic Zone
EIA	Environmental Impact Assessment
EPA	Environmental Protection Agency
EPP	Environmental Protection Policy
ENSO	El Nino Southern Oscillation
EQC	Environmental Quality Criteria (Western Australia)
EQO	Environmental Quality Objective (Western Australia)
ESD	Ecologically Sustainable Development
FRDC	Fisheries Research and Development Corporation
FRMA	Fish Resources Management Act
GA	Geoscience Australia formerly AGSO
GESAMP	Joint Group of Experts on Scientific Aspects of Environmental Protection
GIS	Geographic Information System
ICESD	Intergovernmental Committee on Ecologically Sustainable Development
ICS	International Chamber of Shipping
IOC	International Oceanographic Commission
IGAE	Intergovernmental Agreement on the Environment
ICOMOS	International Council for Monuments and Sites
IMO	International Maritime Organisation

IPCC	Intergovernmental Panel on Climate Change
IUNC	International Union for Conservation of Nature and Natural Resources
IWC	International Whaling Commission
JAMBA	Japan Australian Migratory Birds Agreement
LNG	Liquified natural gas
MarLIN	Marine Laboratories Information Network
MARPOL	International Convention for the Prevention of Pollution from Ships
MECO	Model of Estuaries and Coastal Oceans
MOU	Memorandum of Understanding
MPAs	Marine Protected Areas
MEMS	Marine Environmental Management Study
MSE	Management Strategy Evaluation
NCEP - NCAR	National Centre for Environmental Prediction – National Centre for Atmospheric Research
NEPC	National Environmental Protection Council
NEPM	National Environment Protection Measures
NGOs	Non government organisations
NRSMPA	National Representative System of Marine Protected Areas
NWQMS	National Water Quality Management Strategy
NWS	North West Shelf
NWSJEMS	North West Shelf Joint Environmental Management Study
NWSMEMS	North West Shelf Marine Environmental Management Study
ICIMF	Oil Company International Marine Forum
OCS	Offshore Constitutional Settlement
PFW	Produced formation water
P(SL)A	Petroleum (Submerged Lands) Act
PSU	Practical salinity units
SeaWiFS	Sea-viewing Wide Field-of-view Sensor
SOI	Southern Oscillation Index
SMCWS	Southern Metropolitan Coastal Waters Study (Western Australia)
TBT	Tributyl Tin
UNCED	United Nations Conference on Environment and Development
UNCLOS	United Nations Convention of the Law of the Sea
UNEP	United Nations Environment Program
UNESCO	United Nations Environment, Social and Cultural Organisation
UNFCCC	United Nations Framework Convention on Climate Change
WADEP	Western Australian Department of Environmental Protection
WADME	Western Australian Department of Minerals and Energy
WAEPA	Western Australian Environmental Protection Authority
WALIS	Western Australian Land Information System
WAPC	Western Australian Planning Commission
WHC	World Heritage Commission
WOD	World Ocean Database
www	world wide web

INTRODUCTION

Background

The West Australia Department of Environmental Protection (DEP) initiated a North West Shelf (NWS) Marine Environmental Management Study in 1998 to develop and consolidate the technical information base, scientific understanding and predictive capabilities required to underpin environmental decision making in both the public and private sectors.

Documents, reports and scientific publications pertinent to the North West Shelf are abundant, but vary widely in scope and the degree of relevance to environmental management. Much of the information is from industries and associated government departments involved in exploiting and managing resources, and much of it has been activity specific and/or site specific in nature. This has created rich pockets of specialist knowledge but, unfortunately, the information has not been integrated across industries, government departments or scientific disciplines. Such integration is attractive, but difficult to achieve. As an example, the petroleum industry initiated its own review in the early 1990s to coordinate the then state of knowledge among its members, but has recently identified the need to revisit the process.

As a first step in the North West Shelf Marine Environmental Management Study, DEP commissioned the Australian Institute of Marine Science (AIMS) and the Commonwealth Scientific and Industrial Research Organisation (CSIRO) Division of Marine Research to conduct a compilation and review of scientific research and data related to the North West Shelf marine environment. This bibliography is one product of that effort; it provides a compilation of published and unpublished literature generally related to the North West Shelf marine environment and its management. The second product, a review of scientific research and identification of important knowledge gaps, appears as a separate report by Heyward, Revill, and Sherwood (2006), titled *Review of Research and Data Relevant to Marine Environmental Management of Australia's North West Shelf*.

Scope

This bibliography is intended to identify published and unpublished material generally relevant to marine environmental management of the North West Shelf. The scope of the bibliography is limited to those items that could be identified with a combination of standard citation research methods and direct inquiry to likely custodians of relevant data and reports. The ease with which information held by a particular organisation could be identified, retrieved or perused varied markedly. In many cases personal visits to libraries and physical scanning of hard copy records was required. Given the time constraints of this (or any) study, this process is unsatisfactory because it risks an incomplete assessment of information holdings. The lack of standardisation in information management was a notable aspect of this process.

The bibliography was compiled through on-line literature searches, literature citations, and discussions with scientists, data managers and librarians from numerous organisations including the Australian Geological Survey Organisation (AGSO), AIMS,

Apache Energy, APPEA, BHP Petroleum, CSIRO, Curtin University of Technology (Curtin), Fugro Survey Pty Ltd, Gorgon Australia LNG, Hammersley Iron, LandCorp, Mobil Exploration and Producing Australia Pty Ltd, Murdoch University, Museum of Western Australia, Pendoley Environmental, Sydney University, University of Western Australia, Water and Rivers Commission, West Australia Petroleum Pty Ltd (WAPET), Western Australia Fisheries, Western Australia Research Laboratories, WNI Science and Engineering, Woodside Energy Ltd (WNI) and Western Australia Departments of Conservation and Land Management (CALM), Minerals and Energy (DME), Land Administration (DOLA), Resource and Development (DRD), and Transport. The bibliography contains more than 1 700 references, but is incomplete because there are hundreds of reports and manuscripts that are not publicly available. Nonetheless, it lists most of the marine research that has been conducted on the North West Shelf, and can be used to identify gaps in scientific knowledge and understanding needed to manage the marine environment.

Availability of literature

There is a significant amount of data held by the private sector. Equally, a significant amount of data held by public sector institutions is closely related to, sponsored by or otherwise intimately linked to existing or proposed industrial activities. Sensitive information may be technical or company specific, such as seismic or bathymetric data in the petroleum industry, or it may be industry-sensitive information held by government for particular sectors, such as fisheries or resource development.

Candor of all parties was critical to a complete bibliography emerging and a high level of cooperation from both public and private sector organisations greatly facilitated this compilation. Nonetheless, some cited reports contain sensitive information and are not publicly available (as indicated in the notes), and several hundred others were excluded from the bibliography entirely.

Level of detail

The level of detail varies throughout the bibliography. Many of the key references have complete abstracts, but some other entries lack basic information. Keywords have not been consistently used, but all of the text is searchable in the electronic version. In many instances, entries in the notes field of the electronic version provide more information about the location and availability of the original documents.

Key references

During compilation and review of this information, the authors identified particular references which, in their opinion, were seminal works in the field or constituted good examples. These *key references* are denoted in the electronic database with the searchable keyword “KEYREF”.

Three copies of the most of the key references and many of other references were acquired during the study. These are currently held by CSIRO in Hobart, by AIMS in Dampier, and at the WA Department of Environmental Protection in Perth. Contact the authors or Dr Chris Fandry, Project Manager of the North West Shelf Marine Environmental Management Study.

Bibliographic database

The bibliography was compiled as an electronic database, using Procite for Windows[®], Version 4.0 (Research Information Systems, <http://www.procite.com>). Several workforms were used for entering references; these include: book long form, book chapter, conference proceedings, journal short form, and reports. A style file called NWS.pos was designed to format these workforms for the printed copy. The Procite version of the database and the associated style file are available from the authors or WA DEP, subject to distribution guidelines set by the WA DEP.

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