

INTRODUCTION

The Great Barrier Reef Marine Park Authority, with the assistance of the CSIRO Information Services Unit, has produced this update of the computer-based information system on Australian Marine Research in Progress (AMRIP) for the Great Barrier Reef Region only.

Australian Marine Research in Progress (AMRIP) is a database designed to assist in coordinating the further development in Australia of marine research. It has been developed to encourage the flow of information between individual researchers and research organisations and also to provide the basis for more effective cooperation and coordination between researchers and the users of research in industry and Government. The further development of the database should assist researchers to design projects which complement ongoing research and to identify areas of research which are not being addressed.

The AMRIP database is also publicly available for on-line searching via the CSIRO AUSTRALIS service. It is a valuable resource for the analysis and planning of the conduct of marine research in Australia. The database is updated at least annually; a special hard copy edition for the Great Barrier Reef Region will be published at almost annual frequency.

Management of the AMRIP database is currently coordinated by the Australian Institute of Marine Science with the cooperation of the Commonwealth Scientific and Industrial Research Organisation (CSIRO), Great Barrier Reef Marine Park Authority (GBRMPA) and the Victorian Institute of Marine Sciences (VIMS).

The summaries of marine research projects contained in AMRIP are based directly on information provided by researchers and research organisations. These summaries have been edited only to meet uniform style and presentation standards. No responsibility can be taken for the accuracy of information supplied by contributors.

The Authority thanks the researchers and research organisations who submitted information for inclusion in this update.

Graeme Kelleher
Chairman

HOW TO USE THIS DIRECTORY

The main body of this Directory consists of a numbered series of "Project Summaries". Each summary contains all the information about the project substantially as contributed by the organisation carrying out the research.

Within each subject class, the project summaries are arranged in alphabetical order of main responsible organisation and project title.

The summaries are arranged in groups under subject classes. A complete list of AMRIP's Subject Classification Scheme follows this section.

The summaries are numbered sequentially and these entry numbers are used in the various indexes to refer to particular project summaries. Cross-references refer the reader to entries in other subject categories which may also be of interest. Since each project summary is printed only once (in the most pertinent subject class) these cross-references may be quite important in locating all relevant information.

Although the summaries are mostly self-explanatory, the user should be aware of the following points:

- *summaries which have been highlighted by an asterisk following the entry number have not been amended from last year because no response from the responsible organisation was received.
- *where information under "Period" is absent or incomplete, this reflects the information provided by the contributor; the absence of a completion date often indicates that the project will be continued indefinitely
- *in cases where the sole Project Leader of the project is also the Contact Officer for the project, his name is shown only once under the Project Leader heading
- *where the Contact Officer given is one of the previously listed Project Leaders, his telephone number and other information are not repeated
- *the "Co-ordination with other projects" does not normally include references to co-ordination with projects conducted by the same project leaders or department/organisation

The "Project Summaries" section is followed by a number of indexes. In all of these indexes the numbers refer to project summary numbers and not page numbers.

- *Subject matter searches may be carried out via the permuted "Subject Index", or the separate "Taxonomic Index".
- *The "Organisation Index" contains entries for all organisations and private researchers responsible for projects included in the Directory.
- *The "Project Leader/Contact Officer Index" enables the reader to check on the total involvement of particular project leaders and contact officers before approaching the contact officer regarding a project of particular interest.
- *The "Locality Index" contains the location of the marine area concerned. This information was obtained directly from the contributed material.

The Directory also contains a manually compiled Glossary of Abbreviations, and a list of Geographic Area Codes. These aids are located just before the Project Summaries Section.

SUBJECT CLASSIFICATION SCHEME

Techniques and Equipment

- Data management and manipulation
- Cartography and charting
- Navigation
- Miscellaneous

Physical Sciences

- General
- Oceanography
- Chemistry
- Meteorology and climatology
- Geology
- Oil, gas and mineral exploration

Biomedical Sciences

- General
- Microbiology
- Taxonomy
- Botany
- Algal taxonomy
- Taxonomy of plants other than algae
- Zoology
- Invertebrate taxonomy
- Vertebrate taxonomy
- Physiology
- Ecology
- Checklists
- Medicine
- Biochemistry

Social Sciences

- General
- Anthropology and archaeology
- Biography
- History
- Economics
- Law and legislation
- Recreation and tourism
- Education

Fisheries and Aquaculture

- General
- Resources
- Operations
- Products, processing and marketing

Engineering

- General

Electrical engineering and communications
Civil engineering and construction
Mining engineering

Resource Management

General
Resource allocation and zoning
Pollution and other *environmental* threats
Marine park management
Surveillance and enforcement
Coastal zone management

Operations

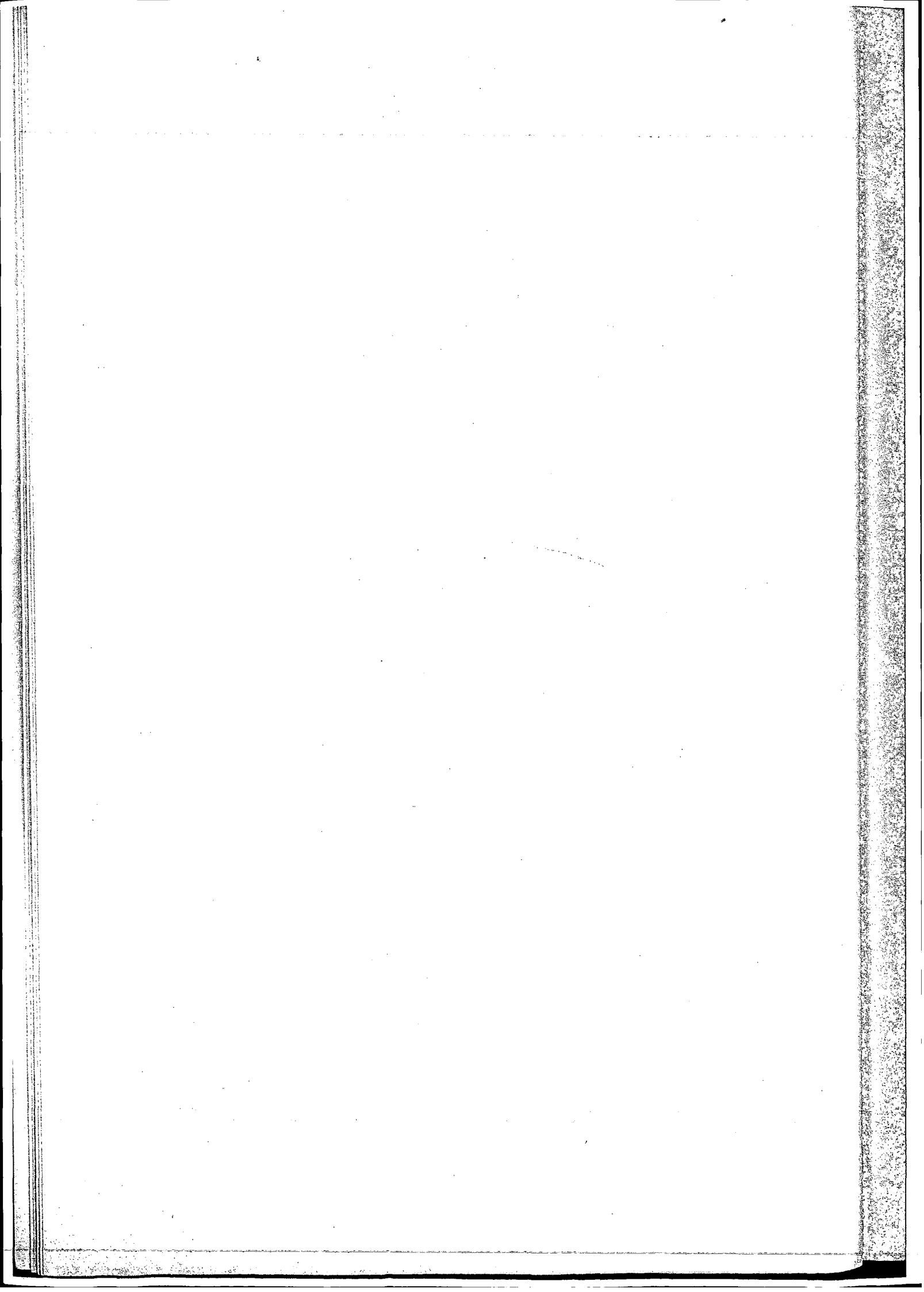
Shipping operations
Ports and harbours
Research and expedition management

Cartographic Materials

General

GLOSSARY OF ABBREVIATIONS

ABRS	—	Australian Biological Resources Study
ACIAR	—	Australian Centre for International Agricultural Research
ADAB	—	Australian Development Assistance Bureau
AFZ	—	Australian Fishing Zone
AMSTAC-FAP	—	Australian Marine Sciences and Technologies Advisory Committee - Funding Advisory Panel
AIMS	—	Australian Institute of Marine Science
ANPWS	—	Australian National Parks and Wildlife Service
ARGS	—	Australian Research Grants Scheme
ARC	—	Australian Research Council
BMR	—	Bureau of Mineral Resources, Geology and Geophysics
BRIAN	—	Barrier Reef Image Analysis System
CCOP/SOPAC	—	Committee for the Coordination of Joint Prospecting for Mineral Resources in South Pacific Offshore Areas
COTSAC	—	Crown of thorns Starfish Advisory Committee
CSIRO	—	Commonwealth Scientific and Industrial Research Organisation
FAO	—	Food and Agricultural Organization (of the United Nations)
FIRTA	—	Fishing Industry Research Trust Account
FRG	—	Federal Republic of Germany
GBR	—	Great Barrier Reef
GBRC	—	Great Barrier Reef Committee
GBRMPA	—	Great Barrier Reef Marine Park Authority
IR	—	Infra-red
LNG	—	Liquified natural gas
MSTGS	—	Marine Sciences and Technologies Grant Scheme
NERDDP	—	National Energy Research, Development and Demonstration Program
NOAA	—	National Oceanic and Atmospheric Administration
PCB	—	Polychlorinated biphenyls
RAN	—	Royal Australian Navy
R.V.	—	Research Vessel
Scuba	—	Self-contained underwater breathing apparatus
SST	—	Sea Surface Temperature
TOGA	—	Tropical Oceans Global Atmosphere
UNESCO	—	United Nations Educational, Scientific and Cultural Organization
VIMS	—	Victorian Institute of Marine Sciences
VIMSIS	—	Victorian Institute of Marine Sciences Information System
WHOI	—	Woods Hole Oceanographic Institution
XRF	—	X-ray fluorescence (spectrometry)



GEOGRAPHIC AREA CODES

The 200 mile Australian Fishing Zone has been used as the basis for defining geographic area for AMRIP. The map opposite shows how the codes have been assigned.

Codes

- B Bass Strait — southern limit 41°S, coast of Tasmania, 143°30'E, 148°30'E, coast of Victoria
 - X G - South Australian Gulfs
 - X D - Great Australian Bight
 - X S - Other South Australian waters
 - X W - South-west Australia
 - X E - North-west Australia
 - X Y - Northern Territory except Gulf of Carpentaria
 - X C - Gulf of Carpentaria
 - X J - Torres Strait — 10°41'S, 141°20'E, 145°E and outer border of Torres Strait protected zone
 - X R - Great Barrier Reef — outer limit defined by GBRMPA act
 - X Z - Coral Sea
 - X Q - Other Queensland waters
 - X N - New South Wales
 - X T - Other Tasmanian waters
 - X H - Southern Ocean
 - X V - Antarctica — south of 60°S
 - X P - Pacific Ocean
 - X I - Indian Ocean
 - X A - Australia — everywhere within 200n mile AFZ limit
 - X O - Worldwide excepting areas above
 - X - Not applicable
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