

A Bibliography of Oceanographic and Marine Environmental Research

1985-1998

Red Sea and Gulf of Aden Region

PERSGA / GEF

Companion volume to:

RED SEA, GULF OF ADEN AND SUEZ CANAL

A Bibliography on Oceanographic and Marine Environmental Research 1775-1984

Morcos, S.A. and A. Varley (eds)

ALECSO-PERSGA-UNESCO 1990

PERSGA - ‘The Regional Organization for the Conservation of the Environment of the Red Sea and Gulf of Aden’ is an intergovernmental organisation dedicated to the conservation of the coastal and marine environments in the region.

The Arab League Educational, Cultural and Scientific Organization (ALECSO) initiated a Programme for the Environment of the Red Sea and Gulf of Aden (PERSGA) in 1974. One of its most significant achievements was the development of **The Jeddah Convention**, signed in 1982 by the plenipotentiaries of the governments in the region. Article XVI called for the creation of **The Regional Organization for the Conservation of the Environment of the Red Sea and Gulf of Aden**. This body was officially established in 1995 at the first Council Meeting in Cairo. It has inherited the acronym PERSGA from ALECSO’s original programme.

PERSGA’s Member States include Djibouti, Egypt, Jordan, Saudi Arabia, Somalia, Sudan and Yemen. The headquarters of the Organisation are located in Jeddah, Saudi Arabia.

The preparation of this volume has been undertaken as Activity 4.2.4 of the GEF Project - Support to the Strategic Action Programme for the Red Sea and Gulf of Aden, implemented by UNEP as Project Number GF/1100-96-02. The project was part of a target effort by the GEF implementing Agencies (UNDP, UNEP and the World Bank) aimed at “The identification of national and regional priorities in the coastal and marine environment of the Red Sea and Gulf of Aden region, and the formulation of a Strategic Action Programme that assures a concerted international approach to transboundary problems and the realisation of global and regional benefits.” Updating the existing bibliography, which was published by UNESCO in 1990, was one of the specific objectives envisaged in the UNEP project document.

The bibliography was compiled for PERSGA under the leadership of Professor A.A. DouAbul; it was supplemented, edited and indexed by Mr. R.M. Fleming.

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INTRODUCTION

The work forms a companion edition to the 1990 publication *Red Sea, Gulf of Aden and Suez Canal – A Bibliography on Oceanographic and Marine Environmental Research (1775-1984)* edited by Selim Morcos and Allen Varley, and published jointly by ALECSO-PERSGA and UNESCO. The original publication lists scientific and technical literature dealing with geology, biology, living and mineral resources, conservation and the impact of man on the environment. This current volume includes references published during the period 1985 to 1998. The range of subjects covered is broadly similar as is the geographical area, namely the Red Sea, Gulf of Aden (including the Socotra Archipelago), the Gulf of Aqaba, Gulf of Suez and Suez Canal.

Content

Following the pattern of the previous volume, ‘geographical area’ was used as a primary selection criterion. As the boundaries of geological structures and ecological processes rarely coincide with geographical or political borders there were, inevitably, numerous references considered as ‘partially relevant’. The decision to include or omit a reference was often a matter of judgement. Papers dealing with oceanographic conditions in the Indian Ocean that impact on the Gulf of Aden were included whereas others that refer primarily to Indian Ocean species, whose distribution might also include the Red Sea, did not make it into the list. Several references to Lessepsian migration can be found but papers where the emphasis is on the ecology and behaviour of Red Sea species within the Mediterranean, rather than on migration, have generally been excluded.

A number of references relating to aquaculture in the region (shellfish and fin-fish) will provide a researcher with an introduction to the literature available. However, references on diet, stocking, or growth-rates not specifically related to local aquaculture were selected out. Biology is an expanding field of research. In general, papers referring to laboratory studies on histology, cytology and genetics have not been included, though some have found their way in when related to behaviour or ecology.

The Food and Agriculture Organization of the United Nations (FAO) have prepared a large number of publications on fisheries with global relevance. These, such as the FAO species catalogues that are concerned with global living marine resources, have not been included. However several FAO publications concerned with regional fisheries initiatives are listed. It is recommended that the FAO be contacted directly for further specialist information. A list of their more recent publications can be found from the FAO website.

The International Maritime Organization (IMO) is a valuable source of information on issues such as maritime safety, navigation, carriage of dangerous goods, ship design and equipment, fishing vessel safety, Flag State control, pollution prevention and legal matters. IMO resolutions since 1985 are available in Arabic. A publications’ catalogue can be obtained free of charge.

Several topic areas have been deliberately excluded from this compilation. The specialist technical publications relating to oil and gas exploration are omitted though some papers relating to petroleum geology are included. Papers from the Society of Professional Well Log Analysts (Houston, TX) and the Oil and Gas Journal (Tulsa, OK) will not be found here. Scientists wishing to find information on the use of geophysics for petroleum exploration are pointed towards the Society of Exploration Geophysicists, (Tulsa, OK).

The following publications are particularly recommended as an introduction into the literature:

Al-Moghrabi, S.M. & Abu-Hilal, A.H. (eds). 1999. Collected Reprints of Station Contributions to Marine Science Research in the Gulf of Aqaba. Volumes I-VII (1974-1997). Publications of the Marine Science Station, Aqaba.

862. Edwards, A.J. & Head, S.M. (eds) 1987. *Red Sea, Key Environments Series*. Pergamon Press, Oxford, UK. 441 pp.

2084. Morcos, S.A. & Varley, A. (eds) 1990. *Red Sea, Gulf of Aden and Suez Canal, A Bibliography on Oceanographic and Marine Environmental Research 1775-1984*. UNESCO, Paris & ALECSO-PERSGA, Jeddah. 198 pp.

1224. Moshrif, M.A.O. 1419H. *Abstracts of the Publications of the Geology Department King Saud University 1970-1997*. King Saud University Academic Publishing and Press. ISBN 9960-05-768-2.

2379. Purser, B.H. & Bosence, D.W.J. (eds) 1998. *Sedimentation and Tectonics in Rift Basins. Red Sea: Gulf of Aden*. Chapman & Hall, London. 652 pp.

2729. Sheppard, C. Price, A. & Roberts, C. 1992. *Marine Ecology of the Arabian Region: Patterns and Processes in Extreme Tropical Environments*. Academic Press, London, UK. 359 pp.

Tsagarakis, C.M., Seddon, P.J., & van Heezik, Y. 2000. *Wildlife Conservation in Saudi Arabia. The First Years of the National Commission for Wildlife Conservation and Development: 1986/99*. CD ROM from the National Commission for Wildlife Conservation and Development, Riyadh, Saudi Arabia.

Reference Format

References are given in the following format. Author(s), Date, Title, Source, Page Number(s), Publisher, Total pagination.

?? Journal articles: Title in sentence case, non-italic. *Journal Title* given in italics.

?? Books: *Book Title* given in italics and capitalised.

?? Reports and Theses: Non-italic, capitalised.

?? Conference proceedings: Article Title capitalised, non-italic. *Proceedings Title* in italics.

Where possible the titles have been given in the original language followed by an English translation in square brackets. In other cases the language is indicated at the end of the reference citation as (In Language). The editor has used modified vowels (ä, ö, ü, é, è) where possible but care must be exercised as the text has not been proof-read by native German or French editors. Russian papers have not been checked; many are translated and published in English journals. A list of Russian journals and their English equivalents has been copied from the first volume.

Indexes

The references are arranged alphabetically by author. They have not been grouped into major subject categories as in the previous volume. It is therefore less easy to locate appropriate references by browsing through the list and an extensive collection of indexes has been provided. These include an author index, subject index, regional, country and location indexes, a taxonomic index, species index and a geological time-period index. As all the indexes have been prepared primarily on the basis of the reference titles and not the reference text, the coverage is inevitably incomplete. However, these indexes provide a number of useful gateways into the reference list and will prove to be suitable for researchers wanting to approach their literature search from a variety of different directions.

Entries added to the bibliography following the compilation of the indexes are identified by a reference number with a letter as suffix, 1234a for example. This system was employed to avoid the necessity of re-numbering the entries and recompiling the indexes.

Journals

Abbreviated journal titles can be misleading and difficult to identify, particularly when foreign and unfamiliar. As the purpose of this publication is to facilitate the location of suitable reference material the journal titles have been presented in full whenever possible. A complete list of the journals cited has been included as an appendix. The ISSN number, an internationally accepted, concise, unique and unambiguous code for the identification of serial publications, has been provided when it could be located from *Ulrich's International Periodicals Directory, 1996*. In some cases a publisher is provided as an alternative.

Future trends

Improvements to computer technology providing rapid access to searchable databases on CD-ROM and the Internet are rapidly making books such as these redundant. A number of organisations provide comprehensive databases of scientific literature. *GeoRef*, a database from the American Geological Institute, covers worldwide geology and earth sciences from 1933 and adds 6,000 new references every month. *Aquatic Sciences and Fisheries Abstracts* (ASFA) is the foremost database for the aquatic sciences with a global coverage of marine and freshwater management, brackish environments, aquatic organisms, aquaculture and marine technology. The *Zoological Record*, first published by the Zoological Society of London and the British Museum in 1865, is considered as one of the most important sources of information on all aspects of zoological research. These databases may be found at large public or university libraries. Alternatively they may be purchased or accessed via the Internet from various commercial organisations.

SilverPlatter is a company that can provide access to more than 200 databases via CD or Online. Their selection includes ASFA, GeoRef, and the Zoological Record. Further information, including a full list of the databases is available at <http://www.silverplatter.com>. ASFA is also made available online, on a subscription basis, from Cambridge Scientific Abstracts (<http://www.csa.com>). BIOSIS, established as a not-for-profit organisation in 1926 to foster the growth, communication and use of biological knowledge for the common good, specialises in accumulating abstracts and bibliographic references to worldwide biological and medical literature. The BIOSIS information system had over 13 million citations by the end of 1999. It now jointly publishes the *Zoological Record* with the Zoological Society. Contact can be made through <http://www.biosis.org>.

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The editor apologises to the authors of papers for any inaccuracies that are present and particularly for any errors of omission.

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We wish you every success with your work.

ABBREVIATIONS

AAPG	American Association of Petroleum Geologists
ACOPS	Advisory Committee on Protection of the Sea
ACPM	Association de Cooperative des Peches Maritimes
AGU	American Geophysical Union (Washington, DC)
ALECSO	Arab League Educational, Cultural and Scientific Organization
ASFA	Aquatic Sciences and Fisheries Abstracts
ASLO	American Society of Limnology and Oceanography
AVHRR	Advanced Very High Resolution Radiometer
CA	California, USA
CEC	Commission of the European Communities
CIEM	Conseil International pour l'Exploration de la Mer (=ICES)
CIESM	Commission Internationale pour l'Exploration Scientifique de la mer Méditerranée
CIFEG	Centre International pour la Formation et les Echanges Geologiques, (Paris)
COL	Commission for Oceanography and Limnology
DAM	Direction des Affaires Maritimes
DANIDA	Danish Agency for Development Assistance
DATZ	Die Aquarien- und Terrarienzeitschrift
EEAA	Egyptian Environmental Affairs Agency
EGPC	Egyptian General Petroleum Corporation
EPC	Environment Protection Council (Yemen)
ESCWA	Economic and Social Commission for Western Asia
ETDA	Egypt Tourism Development Authority
FAO	Food and Agriculture Organisation of the United Nations
FL	Florida, USA
FRC	Fisheries Research Centre
GEF	Global Environment Facility
GESAMP	Joint Group of Experts on the Scientific Aspects of Marine Pollution (UNEP)
GIS	Geographic Information System
GPA	Global Programme of Action for the Protection of the Marine Environment from Land-based Activities (UNEP)
HI	Hawaii, USA
IAEA	International Atomic Energy Agency
IAPSO	Inter-Agency Procurement Services Office
IBRD	The International Bank for Reconstruction and Development (World Bank)
ICBP	International Council for Bird Preservation
ICED	International Centre for Environment and Development (Egypt)
ICES	International Council for the Exploration of the Sea (=CIEM)
ICLARM	International Center for Living Aquatic Resources Management
ICZM	Integrated Coastal Zone Management
IDRC	International Development Research Centre
IEEE	Institute of Electrical and Electronics Engineers
IFREMER	French Research Institute for Exploitation of the Sea
IMO	International Maritime Organization
IOC	Intergovernmental Oceanographic Commission
IOFC	Indian Ocean Fisheries Commission
ISBN	International Standard Book Number
ISERST	Institut Supérieur d'Etudes et de Recherches Scientifiques et Techniques (Djibouti)
ISSN	International Standard Serial Number
IUCN	World Conservation Union, formerly: International Union for the Conservation of Nature
IWRB	International Waterfowl and Wetlands Research Bureau
JICA	Japanese International Cooperation Agency

Abbreviations

KMFRI	Kenya Marine and Fisheries Research Institute
KSA	Kingdom of Saudi Arabia
M.Sc	Master of Science (University Thesis)
MA	Massachusetts, USA
MEPA	Meteorology and Environmental Protection Administration
MN	Minnesota, USA
MO	Missouri, USA
MS	Mississippi, USA
NATO ASI	NATO Advanced Study Institute
NC	North Carolina, USA
NCWCD	The National Commission for Wildlife Conservation and Development (Saudi Arabia)
NOAA	National Oceanic and Atmospheric Administration
NWRC	National Wildlife Research Center (Taif, Saudi Arabia)
NY	New York, USA
OCA	Ocean and Coastal Areas (UNEP)
OK	Oklahoma, USA
OPRU	Oil Pollution Research Unit (UK)
OSME	Ornithological Society of the Middle East
OTEC	Ocean Thermal Energy Conversion
PA	Pennsylvania, USA
PAC	Programme Activity Centre (UNEP)
PAH	Polyaromatic Hydrocarbon
PERSGA	Regional Organization for the Conservation of the Environment of the Red Sea and Gulf of Aden
Ph.D	Doctorate (University Thesis)
RECOSCIX	Regional Co-operation in Scientific Information Exchange in the Western Indian Ocean
RESAP	Red Sea Area Programme (Sudan)
RI	Rhode Island, USA
ROPME	Regional Organization for the Protection of the Marine Environment
SC	South Carolina, USA
SDR	Somali Democratic Republic
SDR/MFMR	Ministry of Fisheries and Marine Resources
SDR/MFMT	Ministry of Fisheries and Marine Transport
SDR/MNP	Ministry of National Planning
SEPM	Society for Sedimentary Geology
SMP	Somali Marine Products
TCP	Technical Cooperation Programme (FAO)
TMRU	Tropical Marine Resources Unit
TX	Texas, USA
IUCN	IUCN
UK	United Kingdom
UNCDF	United Nations Capital Development Fund
UNDP	United Nations Development Programme
UNEP	United Nations Environment Programme
UNESCO	United Nations Educational, Scientific and Cultural Organization
UNOPS	United Nations Office for Project Services
UP	University Press
USA	United States of America
USAID	United States Agency for International Development
VA	Virginia, USA
WMO	World Meteorological Organization
WWF	World Wide Fund for Nature

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