

Bibliography of
Marine Fisheries and Oceanography
of the
Indian Ocean
1962-1967



BULLETIN No. 1

CENTRAL MARINE FISHERIES RESEARCH INSTITUTE

MARCH 1968

I C A R

BULLETIN OF THE CENTRAL MARINE FISHERIES RESEARCH INSTITUTE

1

Bibliography of Marine Fisheries and
Oceanography of the Indian Ocean

1962 - 1967

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March, 1968

(Abbr: *Bull. cent. m ar. Fish. Res. Inst.*)

CENTRAL MARINE FISHERIES RESEARCH INSTITUTE
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Mandapam Camp,
Ramanathapuram District
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THE BULLETIN OF THE CENTRAL MARINE FISHERIES RESEARCH INSTITUTE WILL BE PUBLISHED AT IRREGULAR INTERVALS AS AND WHEN INFORMATION OF A GENERAL NATURE BECOMES AVAILABLE FOR DISSEMINATION TO THE RESEARCH WORKERS AS WELL AS THE PUBLIC.

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FOREWORD

The need for comprehensive bibliographies on scientific subjects for the benefit of the research workers has long been recognized especially in view of the increasing number of periodicals and other publications coming out in recent years. In India where library facilities are not adequate except in some of the larger cities and University Centres the usefulness of such bibliographies needs no emphasis. Speaking of marine fisheries and oceanography it may be stated that a number of research laboratories have been established in the country during the past two decades and a bibliography service for scientific workers there has become an absolute necessity. The present bibliography is intended to meet this need in addition to the *Advance Abstracts of Contributions on Fisheries and Aquatic Sciences in India* issued from this Institute from 1967.

The Indian Ocean was the scene of intensive studies between 1962 and 1965 at the time of the International Indian Ocean Expedition. Among the participating countries, the United States took the lead in issuing *A Partial Bibliography of the Indian Ocean* under the U. S. Programme in Biology. Though modestly termed as 'Partial Bibliography' it is quite an exhaustive one and those responsible deserve to be congratulated for bringing out such a useful publication. It has listed 4939 references relating to the Indian Ocean covering the period upto the middle of 1962.

The present bibliography is intended to give the Indian workers a comprehensive idea of the publications relating to the Indian Ocean that have come out upto the end of 1967 since the issue of the 'Partial Bibliography' in 1962. It is hoped that this Bulletin will at the same time enable scientists elsewhere to be informed of the literature on marine fisheries, oceanography and related subjects published in India during the above

period. Though no claim is made that the listing is complete all efforts have been made to make it as exhaustive as possible without attempting at any selection. It may be stated that the inclusion of references has been broad-based to the extent of even being considered somewhat diffuse but this has been done purposely bearing in mind the global concept of principles in marine research so that workers in India may be aware of publications of interest such as review articles by specialists outside. Publications we have come across on work done elsewhere, on widely distributed marine organisms that occur in the Indian Ocean also, are included for the awareness of interested workers.

An analysis of the 'Partial Bibliography' will show that out of the 4939 references listed 948 have been published within India whereas in the present bibliography out of the 2738 references listed 1351 have been published within this country. The major sections with more than two hundred contributions are Oceanography (310 including addendum), Mollusca (230), Crustacea (498) and Fish (766).

Incidentally it may be stated that a "Selected Bibliography of the Indian Ocean" for the period 1962-66 has appeared recently in the *International Indian Ocean Expedition Newsletter* 4(3) "to provide scientific workers in India a ready reference of publications in oceanography relating to the Indian Ocean". In all 243 references (deleting repetitions and publications prior to 1960) are listed in the 'Selected Bibliography', with 21 references under "Fish and Fisheries" of which one is on spiny lobster leaving 20 under this section but to this could be included the two on *Coryphaena* and *Rhincondon* given under the section, Chordata, Vertebrata (excluding fish) making a total of 22 for the entire 1962-66 period.

Preparation of bibliographies is a line of work for which I have a weakness having had the occasion to prepare some on subjects relating to fish and fisheries during the past three decades. The work on the present bibliography was initiated by me and was carried out under my immediate supervision by M/S. V. Sriramachandra Murty, D. C. V. Easterson, A. Bastian Fernando,

K. K. Appukuttan and K. M. S. Ameer Hamsa of this Institute. They are mainly responsible for the compilation of the references within the scheduled time without prejudice to their regular work sacrificing a great deal of their leisure time and comfort for this purpose. It gives me immense pleasure to record my high appreciation of their efficiency, zeal and devotion of work. They deserve special compliment for their creditable performance since all of them are very junior members of scientific staff and most of them have not even completed one year's service. In addition to the above several members of the staff both scientific and non-scientific have helped in various ways in the completion and issue of this Bulletin. I wish to place on record my appreciation and thanks for all.

It is hoped that this Bulletin will be found useful to workers interested in the Indian Ocean. We shall be grateful if the omissions and errors could be brought to our notice so that the same could be issued in a supplement along with the 'Bibliography' for 1968 which will be issued in March 1969. In the meanwhile a supplement to *A Partial Bibliography of the Indian Ocean* issued by the U. S. Programme in Biology is under preparation to cover the period from 1900 to 1962. In this connection scientists within this country and outside are requested to bring to our notice relevant references left out in the 'Partial Bibliography'. It will also be highly appreciated if copies of the publications relating to fisheries and aquatic sciences in the Indian Ocean Region could be sent to the library of this Institute for the successful maintenance of the bibliography service.

The *Advance Abstracts of Contributions on Fisheries and Aquatic Sciences in India* issued from this Institute has been well received and requests have been received from several workers for including the entire Indian Ocean area within the scope of the above periodical. It is proposed to accede to the above request as the same would enable the Indian workers to be informed of the results of current investigations in this region. This Institute would therefore be glad to receive for publication in advance the abstracts of papers already accepted for publication with the particulars of

the journal, year, volume, part and whenever possible the probable date of issue. It is hoped that the “Advance Abstracts” and the bibliographies to be issued annually will go a long way in promoting research in fisheries and marine sciences in the Indian region.

Mandapam Camp
March, 1968

S. JONES
Director
Central Marine Fisheries
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NOTE: It is regretted that at the time of the subjectwise arrangement of references certain repetitions and insertions under wrong headings have taken place especially under the ‘General’ section in which are included several articles on ‘fish and fisheries’ and which may please be consulted for the same. Similarly since the idea was not to cite any reference in more than one section, it is requested that reference may be made to other related sections as well. The repetitions and wrong insertions that have come to our notice are given in the errata at the end. Readers are requested to bring to our notice errors and omissions to enable the necessary corrections to be issued with the Bibliography for 1968 as indicated in the Foreword.

ABBREVIATIONS OF PUBLICATIONS

(To save space condensed abbreviations have been used for some publications with long titles cited frequently. These are explained below)

Advance Abstracts	-	Advance Abstracts of Contributions on Fisheries and Aquatic Sciences in India
AFN	-	Australian Fisheries Newsletter
AJMFR	-	Australian Journal of Marine and Freshwater Research
AMNH	-	Annals and Magazine of Natural History
BCRIUK	-	Bulletin of the Central Research Institute, University of Kerala
BDMBO	-	Bulletin of the Department of Marine Biology and Oceanography, University of Kerala
CIIR	-	Commerce and Industry, Department of Commerce and Industries, Division of Sea Fisheries, Investigational Report (Republic of South Africa)
DSR	-	Deep-Sea Research
IIOE NL	-	International Indian Ocean Expedition News Letter
IJF	-	Indian Journal of Fisheries
IPFC. Tech.	-	Indo-Pacific Fisheries Council, Technical papers
JAE	-	Journal of Animal Ecology
JBNHS	-	Journal of the Bombay Natural History Society
JMBAI	-	Journal of the Marine Biological Association of India
JMU	-	Journal of the Madras University
JSCF	-	Journal of the Shimomoseki College of Fisheries
JZSI	-	Journal of the Zoological Society of India
JZSL	-	Journal of the Zoological Society of London

MJF	-	Madras Journal of Fisheries
Nature	-	Nature, London
P11thPSC	-	Proceedings of the eleventh Pacific Science Congress, Tokyo 1966
PAICZ	-	Proceedings of the All India Congress of Zoology
PIAS	-	Proceedings of the Indian Academy of Sciences
PIPFC	-	Proceedings of the Indo-Pacific Fisheries Council
PMBSGRS	-	Publications of Marine Biological Station Al-Ghardaqa, Red Sea
PNISI	-	Proceedings of the National Institute of Sciences of India
PISCA	-	Proceedings of the Indian Science Congress Association
Proc. Symposium on Crustacea	-	Symposium on Crustacea, Jan. 12-16, 1965, Ernakulam. Marine Biological Association of India
Proc. Symposium on Scombroid fishes	-	Symposium on Scombroid Fishes, Jan. 12-16, 1962, Mandapam Camp. Marine Biological Association of India
PWSMBTRS	-	Proceedings of FAO world Scientific meeting on Biology of tunas and related species. July 2-14, 1962, California
SFRSHB	-	Bulletin of the Sea Fisheries Research Station, Haifa
Souvenir	-	Souvenir, 20th Anniversary Central Marine Fisheries Research Institute, Mandapam Camp.
SSSP	-	Seminar on Sea, Salts and Plants, Central Salt and Marine Chemicals Research Institute, Bhavanagar, December 20-23, 1965.
TIO	-	Trudy Instituta Okeanologii, Akademiya Nauk SSSR
WSCBCSP	-	Papers presented at the FAO World Scientific Conference on Biology and Culture of shrimps and prawns

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- 6 PATEL, B. AND T. N. V. PILLAI 1967 — to come under GENERAL
- 11 SOKOLOVA, N. N. AND F. A. PASTERNAK 1964 — delete. Duplicate:
see GENERAL.
- 22 SUNDARARAMAN, K. V. AND K. V. SRIRAMAMURTY 1967 — to come
under OCEANOGRAPHY
- 26 Line 35 — for “forlundisturbed” read “for undisturbed”
- 35 Line 9 — for “Symbanchoid” read “Symbranchoid”
- 39 Line 29 — for “(*costeobagrus*)” read “(*Osteobagrus*)”
- 42 Line 13 — for “*Seleroides*” read “*Selaroides*”
- 42 Line 17 — for “hesiond” read “hessionid”
- 42 Line 26 — for “NAGAPPAN NAIR” read “NAGAPPAN NAYAR”
- 42 Line 28 — for “(*Gnathandon*)” read “(*Gnathanodon*)”
- 42 Line 35 — for “*Cnrysaodra*” read “*Chrysaora*”
- 43 Line 14 — for “procellanid” read “porcellanid”
- 52 Line 5 — for “OKUTANT” read “OKUTANI”
- 55 Line 31 — for “places” read “pieces”
- 56 Line 9 — for “*Hyneae*” read “*Hypneae*”
- 60 Line 7 — for “Delite” read “Delile”
- 64 Line 17 — for “lile” read “l' ile”
- 66 Line 3 — for “siphonophore” read “siphonophore”
- 69 Line 6 — for “tremotode” read “trematode”
- 69 Line 8 — for “GANPATI” read “GANAPATI”
- 70 Line 27 — for “Monogenia” read “Monogenea”
- 75 Line 36 — for “Munro” read “Monro”
- 75 Line 37 — for “*coasta*” read “*costata*”
- 80 Line 25 — for “opithobranchia” read “Opisthobranchia”
- 80 Line 31 — for “Salvadore” read “Salvadori”
- 81 Line 29 — for “*Picntade*” read “*Pinctada*”
- 82 Line 38 — for “amonoacids” read “amino acids”
- 85 Line 38 — for “NAIR, N. BALAKRISHNA” read “NAIR, N.
BALAKRISHNAN”
- 86 Line 35 — for “RAHAMAN” read “RAHMAN”
- 87 Line 20 — for “*Onodium*” read “*Onchidium*”
- 88 Line 14 — for “*Stilliger*” read “*Stiliger*”

- 88 Line 23 — for “Tridaenidae” read “Tridacnidae”
- 90 Line 28 — for “(Bom)” read “(Born)”
- 93 Line 29 — for “*Ocypode*” read “*Ocypoda*”
- 94 Line 24 — for “euphasid” read “euphausid”
- 96 DANIEL, A. 1962. — “A new species of platylepadid. . . .”
delete, Duplicate: see DANIEL, A. 1963.
- 97 Line 22 — for “Geocarcirridae” read “Gecarcinidae”
- 101 Line 17 — for “Euphasiacea” read “Euphausiacea”
- 103 Line 39 — for “startifh” read “starfish” and
for “*Granulatus*” read “*granulatus*”
- 104 Line 33 — for “*Sphaeromo*” read “*Sphaeroma*”
- 110 Line 12 — for “(Latrellia)” read “(Latreille)”
- 110 Line 7 — for “NAIR N. BALAKRISHNA” read “NAIR, N.
BALAKRISHNAN”
- 113 Line 31 — for “Euphasiacea” read “Euphausiacea”
- 119 Line 13 — for “implenation” read “implantation”
- 128 Line 1 — for “(Ophiuroidae)” read “(ophiuroida)”
- 128 Line 6 — for “*Nat. Mus. Viet*” read “*Nat. Mus. Vicf*”
- 129 Line 23 — for “RAO, KANDULA PAMPARATHI” read “RAO, KANDULA
PAMPARATHI”
- 137 Line 22 — for “Endorcine” read “endocrine”
- 141 Line 9 — for “Duck-Billed Bay” read “Duck-Billed Ray”
- 141 Line 32 — for “general” read “genera”
- 144 EDMUNDSON, CHARLES HOWARD. 1962 - to come under CRUSTACEA
- 146 Line 22 — for “Aeclimatization” read “Acclimatization”
- 150 Line 37 — for “JOHS, HAMRE” read “HAMRE, JOHS.”
- 154 Line 16 — for “M. ANRAKO” read “M. ANRAKU”
- 155 Line 5 — for “Maldieven” read “Malediven”
- 156 Line 24 — for “*mebache*” read “*mebachi*”
- 159 Line 34 — for “MCCALISTER, D. E.” read “McALLISTER, D. E.”
- 166 Line 3 — for “M. Sc. Thesis” read “Ph. D. Thesis”
- 172 Line 13 — for “M. Sc. Thesis” read “Ph. D. Thesis”
- 184 Line 34 — for “Frigates” read “Frigate”
- 193 Line 39 — for “Pocean” read “l’ ocean”
- 200 for “Johs, H.” read “Hamre, J.”

