

ZA 22/12

Report of SCOR Working-Group 12 on Abstracts and
Bibliographies of Use in Marine Sciences

The first meeting of the Working-Group was held at the Laboratory, Marine Biological Association of the United Kingdom, Plymouth, England, on December 9-11, 1963, inclusive.

Appendix No.1 provides a list of names and addresses of members of the Working-Group, as well as participants in the first meeting.

The terms of reference of the Working-Group are:

1. To state the present position regarding marine abstracts and bibliographies.
2. To state what improvements marine scientists would like.
3. To state what improvements can be brought into practice.

Although a provisional agenda for the meeting was suggested, it soon became apparent that a general exchange of background information was necessary before considering agenda items systematically. The following represent statements of some of the ideas put forth and some of the bases for recommendations which are included in Appendix No.III.

It seemed clear from the outset that marine sciences are multi-disciplinary in nature, and that publications in the marine sciences are distributed through a wide range of journals, reports and other publications. That there is a growing literature in the marine sciences; and that the rate of growth is increasing was recognized. An opinion was also expressed that the current education of most marine scientists does not provide for a realistic appreciation of the magnitude of the literature problem.

Exact information regarding several questions pertaining to marine sciences abstracting was incomplete or lacking. One of these questions concerned the number of marine sciences abstracting and bibliographic services now available. Appendix No.II of this report indicates a provisional list which was assembled by the Working-Group.

A suggestion was made to utilize the experience of scientific libraries and their staff with reference to the use of abstracting and bibliographic services by marine scientists. The valuable advice and suggestions of librarians from the National Institute of Oceanography, Wormley, and from the Marine ~~Bibliographical~~ Association of the United Kingdom were available to the Working-Group. This assistance was highly constructive and further comments and suggestions from scientific librarians will be obtained.

It was deemed essential that a master current bibliographic list of marine sciences literature be available to working scientists. By this is meant the consolidation of virtually all relevant references relating to studies of the ocean, its contents and boundaries, and the application of such studies to practical problems. The present status of such a list was discussed, and it was concluded that no complete list was now prepared. The improvements which marine scientists would like were considered. Specific steps to bring some of the proposed improvements into practice are found in Appendix No.3, Recommendation No.2 of this Working-Group. It was the consensus of the group, that such a list must be comprehensive, available quickly and be inexpensive and relatively simple to use. If such a bibliographic list (with annotations) is well conceived it can serve as a basis for retro-

In addition to the bibliographical list, a study of the utility of a current title list of "core" journals was suggested Appendix No.3 Recommendation No.1. The Work-Group participants have set themselves the task of assisting in the definition of such a list, numbering approximately 50 journals. Reference is made to a mimeographed report entitled: Aquatic Biology Serials A Worldwide List of Titles (Both Current and Ceased) with Selected Descriptive Information, BSCP 11-63, August, 1963, available from the Biological Sciences Communications Project, The George Washington University, Suite 700, 2000 P Street, N.W. Washington 6, D.C. as a partial guide to selection. The Chairman of the Working-Group indicated that he will tabulate and summarize the information on "core" journals to be provided by the meeting participants and make it available to the UNESCO Office of Oceanography and to FAO.

The concept of a marine sciences communication network, which involves data exchange and retrieval, literature retrieval and the exchange of information concerning activities of individuals and institutions was considered sufficiently important to warrant consideration at this time. The results of discussion are presented in Appendix No.III, Recommendation No.3. It is clear that continuing efforts toward the establishment of an effective marine sciences communication system, in which marine science abstracts and bibliographies play an important role, are necessary. It is especially important that close liaison and collaborative efforts toward system compatibility be effected at the early stages of the development of data and information centers.

Considerable discussion was held regarding marine sciences abstracts, including definitions, abstract availability and utility. Appendix No.III, Recommendation No.4 states the present position regarding this matter. A modest study of abstracting problems from the point of view of coverage by abstract journals of existing literature is also indicated in this recommendation. The ISO and UNESCO recommendations for improvements in the publication of scientific periodicals were considered and specific recommendations to the editors of major marine sciences journals were made as another step toward bringing some improvements into practice.

The membership felt that the first meeting was constructive and informative. However, it was the desire of the Working-Group to conduct further studies of marine sciences abstracts and bibliographies and a recommendation (Appendix No.II Recommendation No.5) was made to ask SCOR to maintain the Working-Group and to provide funds for a second meeting.

An early revision of the provisional list of marine sciences abstracting and bibliographic services will be forthcoming. Further additions to the preliminary report will be made and sent to the membership of the Working-Group from time to time.

A second meeting of this Working-Group is tentatively planned during the latter part of 1964. The exact time and place will be decided at the earliest opportunity in order to permit adequate planning.

Appendix No. I

List of names and addresses of participants in SCOR Working Group on
"Abstracts and Bibliographies of Use in Marine Sciences"
December 9-11, 1963

*/**Saul B. Saila
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Paris 7, France

*W*Mr. B. Gross
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Ministry of Agriculture, Fisheries
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*/**Dr. G.L. Kesteven
C.S.I.R.O. Marine Laboratory
Cronulla
Sydney, Australia

*Dr. K.H. Meyer-Uhlenried
Centre de Traitement de l'
Information Scientifique
Group Documentation Automatique
EURATOM, Centre Commun. de Recherche
Casella Postale No. 1
Ispra (Varese), Italy

*Dr. F. Model
Deutsches Hydrographisches
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Bernhard-Nocht-Strasse 78
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Mr. D.W. Privett *Librarian*
National Institute of Oceanography
Wormley
Godalming, Surrey, England

Dr. F.S. Russell, Director
Marine Biological Association
of the U.K.
Citadel Hill
Plymouth, Devon, England

*Mr. L. Scattergood
U.S. Fish and Wildlife Service
Bureau of Commercial Fisheries
Washington 25, D.C.

Miss L.M. Serpell, Librarian
Marine Biological Association
of the U.K.
Citadel Hill
Plymouth, Devon, England

Mr. G.M. Spooner
Marine Biological Association
of the U.K.
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Plymouth, Devon, England

Dr. A. Vandenplas
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*Not Present

*/**Working-Group members

Appendix No. II

Provisional List of Marine Sciences and Related Areas Abstracts and Bibliographic Services.

This material has been extracted primarily from:
Report No. 102, National Federation of Science Abstracting and
Indexing Services "A Guide to the World's Abstracting and Indexing
Services in Science and Technology", 1963. 1-183 pp.

Abstracts of Selected Articles from Soviet Bloc and Mainland China Technical Journals

Series VI: General Science and Miscellaneous, including Meteorology,
Oceanography, Biology, Astrobiology, Botany, Zoology, Medical Science,
Aeromedicine, Education, Fuels, Fuel Products, and Power, etc.
Office of Technical Services, U.S. Dept. of Commerce, Washington 25, D.C.
monthly; since Jan. 1961; 2,600 abstracts a year; \$18.
general science, meteorology, oceanography, biology, astrobiology,
botany, zoology, medicine, aerospace medicine, fuels, fuel products,
power

Agricultural Index

The H.W. Wilson Co., 950 University Ave., New York 52, N.Y.
monthly except Sept., with quarterly, annual, and biennial cumulations;
since 1916; 40,000 references a year from English language literature;
alphabetic subject classification; service basis.
agriculture and allied sciences, including agricultural engineering,
animal industry, dairying, entomology, field crops, food, forestry,
fruits, horticulture, human nutrition, plant science, soils and
fertilizers

Archiv für Fischereiwissenschaft

Section: Aus dem Schrifttum
Bundesforschungsanstalt für Fischerei in Hamburg; published by
Westliche Berliner Verlagsgesellschaft, Heenemann KG, Berlin-Wilmersdorf,
Germany
Irregular; since 1950; about 100 abstracts and references a year to
European and English language books; price varies.
fisheries

Arctic Bibliography

Prepared for and in cooperation with the Department of Defense under
the direction of the Arctic Institute of North America, c/o Super-
intendent of Documents, U.S. Government Printing Office, Washington 25,
D.C.
annual; since 1953; 6,500 abstracts a year from world literature;
author arrangement; subject index; price varies (vol. 10, 1961, \$5.25).
arctic regions

Arhiv za Higijenu Rada i Toksikologiju

Section: Referati

Institut za medicinska istraživanja i medicinu rada Jugoslavenske akademije znanosti i umjetnosti, Zagreb, Yugoslavia
quarterly; since 1959; 120 abstracts a year from world literature.
medicine, industrial hygiene

Bibliography of Agriculture

U.S. Department of Agriculture, c/o Superintendent of Documents,
U.S. Government Printing Office, Washington 25, D.C.
monthly; since 1942; 100,000 references a year to world literature;
subject classification; monthly author, annual author and subject
indexes; \$10 domestic, \$13 foreign.
plant science, soils and fertilizers, forestry, animal industry,
entomology, agricultural engineering, agricultural products technology,
agricultural economics and rural sociology, food and human nutrition

Bibliography of Scientific Publications of South and South East Asia*

Indian National Scientific Documentation Centre, National Physical
Laboratory, Hillside Road, New Delhi 12, India
monthly; since 1955; 7,000 references a year in English to South and
South East Asian literature; Colon classification with Universal decimal
classification numbers given; monthly author index, annual author and
subject indexes; TS. 10 domestic, \$6.00 U.S., £2 other foreign.
science and technology

Biological Abstracts*

3815 Walnut St., Philadelphia 4, Pa.
semimonthly; since 1927; 100,000 abstracts a year from over 5,000
world journals; subject classification; semimonthly, quarterly
cumulative, and annual author and subject indexes; complete edition
\$225 (non-profit educational \$180).
agronomy, bacteriology, biochemistry, biology, biophysics, botany,
ecology, genetics, horticulture, immunology, bioinstrumentation,
medical sciences, metabolism, microbiology, parasitology, plant
sciences, public health, soil science, zoology

Bulletin of Marine Science of the Gulf and Caribbean

Section: Regional Bibliography

The Marine Laboratory, University of Miami, 1 Rickenbacker Causeway,
Virginia Key, Miami 49, Fla.
quarterly (Regional Bibliography annually); since 1951, 200 entries
in Bibliography a year; subject classification; \$7.50 (issue containing
Bibliography \$2).
marine science, meteorology, oceanography, fisheries

Bulletin Signaletique

Section 11: Sciences de la Terre. II. Physique du Globe.

Geologie, Paleontologie

Centre de Documentation du Centre National de la Recherche Scientifique (C.N.R.S.), 15 quai Anatole-France, Paris 7, France
monthly; since 1940; 12,500 abstracts a year from world literature;
subject classification; monthly author, annual subject and author indexes; 40 NF domestic, 45 NF foreign.
geology, paleontology, oceanography, meteorology, geodesy

Bulletin Signaletique

Section 15: Pathologie Generale et Experimentale

Centre de Documentation du Centre National de la Recherche Scientifique (C.N.R.S.), 15 quai Anatole-France, Paris 7, France

monthly; since 1940; 36,000 abstracts a year from world literature;
subject classification; monthly author, annual subject and author indexes; 100 NF domestic, 105 NF foreign.
zoology

Chemical Abstracts*

American Chemical Society, 1155-16th St., N.W., Washington 6, D.C.
biweekly; since 1907; 165,000 abstracts a year from world literature including patents; subject classification; author, subject, formula, numerical patent, and ring index, issue, volume and quinquennial index cumulation; \$40 ACS members, \$200 teaching institutions, \$925 others. chemistry and chemical engineering, cement, ceramics, coal, concrete, cosmetics, dyes, explosives, fats and oils, foods, glue, industrial hygiene, instrumentation, leather, metallurgy, metals, mineralogy, nuclear technology, pharmaceuticals, plant sciences, plastics, propellants, rubber, sewage, textiles, wastes, water

Commercial Fisheries Abstracts*

Bureau of Commercial Fisheries, U.S. Department of the Interior, Washington 25, D.C.

monthly; since 1948; 500 abstracts and 400 references a year to journals and technical reports; subject classification; controlled gratis.
fisheries

Current Bibliography for Aquatic Sciences and Fisheries

Food and Agricultural Organization of the United Nations, Fisheries Biology Branch, Viale delle Terme di Caracalla, Rome, Italy
monthly; since 1958; 2,000 references a year to world literature; monthly and annual author, geographic, taxonomic, and subject indexes; £9 (\$27) payable to the Subscription Department, Taylor and Francis Ltd., Red Lion Court, Fleet St., London E.C. 4, England
aquatic sciences, fisheries

Deutsche Hydrographische Zeitschrift*

Section: Hydrographische Bibliographie

Deutsches Hydrographisches Institut, Bernhard Nocht Strasse 78,
Hamburg 4, Germany

6 issues per year; since 1948; 1,100 references to German, French,
and English language literature; subject classification; author
index each issue and annual author index; DM28.

geophysics, oceanography, hydrography

Dissertation Abstracts*

313 North First St., Ann Arbor, Mich.

monthly; since 1938; 6,500-7,000 abstracts a year of doctoral
dissertations principally from the U.S.; subject classification;
monthly and annual author and subject indexes; \$42.50 domestic,
\$47.50 foreign.

science and technology in general

Documentation Bulletin of the National Research Centre*

Part II: Abstracts of Scientific and Technical Papers

Scientific and Technical Documentation Division, National
Research Centre of Egypt, Kokki-Cairo, Egypt

monthly; since 1955; 872 abstracts and 8,600 references a year from
European literature; subject and author arrangements; LE2.

science and technology

Helminthological Abstracts*

Commonwealth Bureau of Helminthology, The White House, 103 St. Peter's
St., St. Albans, Herts., England; published by Commonwealth Agricultural
Bureaux, Farnham Royal, Bucks., England

quarterly; since 1932; 2,500-3,000 abstracts a year from world
literature; subject classification; quarterly and annual author
and subject indexes; 80s. (£12).

helminthology

Index Medicus (replaces Current List of Medical Literature and the
Quarterly Cumulative Index Medicus)*

National Library of Medicine, c/o Superintendent of Documents,
U.S. Government Printing Office, Washington 25, D.C.

monthly; since 1960; 140,000 references from about 1,800 world journals
in 1961; 145,000 references from about 2,200 world journals in 1962;
author and subject sections; \$20 domestic, \$25 foreign; Annual Cumulation
see CUMULATED INDEX MEDICUS.

medicine, including dentistry, dermatology, gynecology, history of
medicine, internal medicine, microbiology, military medicine, nursing,
obstetrics, ophthalmology, otorhinolaryngology, pathology, pediatrics,
pharmacology, pharmacy, public health, surgery, therapeutics

Instrument Abstracts*

(formerly Bulletin of the British Scientific Instrument Research Association)

BSIRA, South Hill, Chislehurst, Kent, England; published by Taylor & Francis Ltd., Red Lion Court, Fleet Street, London, E.C.4, England monthly; since 1946; 9,000 abstracts a year from world literature; subject classification; monthly author, annual author and subject indexes; £8 (/\$24).
instrumentation

International Abstracts of Biological Sciences*

Pergamon Press, 122 East 55th St., New York 22, N.Y., and Pergamon Press Limited, Headington Hill Hall, Oxford, England monthly; since 1954; 26,000 abstracts a year from world journals; subject classification; quarterly subject and author indexes; \$120.
biology, botany, zoology, pathology, physiology

International Hydrographic Review

Section: International Hydrographic Bibliography

International Hydrographic Bureau, Quai des Etats-Unis, Monte-Carlo, Monaco

semiannual; since 1924; 120 references a year to books and documents of the world; subject classification; \$10.
oceanography, hydrography

International Journal of Abstracts: Statistical Theory and Method*

The International Statistical Institute, c/o Dr. Wm. R. Buckland, General Editor, 22 Ryder St., London S.W.1, England; published by Messrs. Oliver and Boyd Ltd., Tweeddale Court, 14 High St., Edinburgh, Scotland

quarterly; since 1959; about 1,000 abstracts a year from world journal literature; subject classification; quarterly author, annual author and subject indexes and list of journals; £5 (/\$16).
statistics

Journal du Conseil

Section: Current Bibliography

International Council for the Exploration of the Sea. Charlottenlund, Denmark; for sale by Andr. Fred Høst & Sons, Copenhagen, Denmark 3 times a year; since 1926,-1959. 800 references a year to world literature; subject classification; 45 DKr. a vol.
fisheries, marine life, oceanography

Journal of Animal Ecology*

Sections: Abstracts; Reviews

British Ecological Society; published by Blackwell Science Publications, 24-25 Broad St., Oxford, England

three times a year; since 1932; 400 abstracts a year from English language journals; subject classification; £6.6s. (U.S. and Canada \$21), Abstracts separately 5s.6d.

animal ecology

Landwirtschaftliches Zentralblatt. Abt. III: Tierzucht-Tierernährung-Fischerei (with "Schnelldokumentation")

Institut für Dokumentation, Bereich Landwirtschaft, Deutsche Akademie der Wissenschaften zu Berlin, Krausenstrasse 38, Berlin W 8, Germany; published by Akademie-Verlag, GmbH, Leipziger Strasse 3-4, Berlin W 1, Germany

monthly; since 1955; 7,500 abstracts a year from journals; subject classification; annual author-subject index; DM 192 + DM 48 for "Schnelldokumentation".

animal industry, fisheries

Landwirtschaftliches Zentralblatt. Abt. IV: Veterinärmedizin

Institut für Dokumentation, Bereich Landwirtschaft, Deutsche Akademie der Wissenschaften zu Berlin, Krausenstrasse 38, Berlin, Germany; published by Akademie-Verlag, GmbH, Leipziger Strasse 3-4, Berlin W 1, Germany

monthly; since 1956; 8,300 abstracts a year from world journals; subject classification; annual author-subject index; DM 192.

veterinary science

Meteorological and Geostrophysical Abstracts*

(also cards and monthly systematic (UDC) and permuted title indexes)

American Meteorological Society, 45 Beacon St., Boston 8, Mass.

monthly; since 1950; 11,000 abstracts a year from world literature; subject classification with Universal decimal classification numbers provided; monthly and annual author, subject, geographical, and journal indexes (decennial author, subject, geographical, journal, and Universal decimal classification index being prepared); \$90.

meteorology, oceanography, hydrology, geophysics, astrophysics

Meteorologie en Klimatologie, Literatuuroverzicht

Technisch Documentatie-en Informatiecentrum voor de Krijgsmacht, Nieuwe Frederikkazerne von Alkemandelaan 774, The Hague, Netherlands
monthly; since 1955; 550 abstracts a year in Dutch, English or German from world journals and technical report literature; subject classification; available on exchange.

meteorology, oceanography

Nihon Nogaku Shimpo Nemp (Annual Report of the Agricultural Progress in Japan)

Science Council of Japan, Ueno Park, Taito-ku, Tokyo, Japan
annual; since 1951; 6,000 bibliographic references a year to Japanese literature; subject classification; not for sale.
agriculture, agricultural chemistry, agricultural engineering, animal husbandry, sericulture, forestry, fisheries, agricultural economics

Nihon Suisan Gakkaishi. Bulletin of the Japanese Society of Scientific Fisheries

Section: Abstracts

The Japanese Society of Scientific Fisheries, c/o Tokyo University of Fisheries, Shiba Kaigandori 6, Minato-ku, Tokyo, Japan
monthly; since 1932; 144 abstracts a year from world literature; subject classification; 2,000 Yen domestic.
fisheries

Nuclear Science Abstracts*

U.S. Atomic Energy Commission, Division of Technical Information Services Extension, P.O. Box 62, Oak Ridge, Tenn.
semimonthly; since 1947; 33,000 abstracts in 1961 from world literature including patents; subject classification; semimonthly personal author, corporate author, report number, and subject indexes and quarterly, semiannual, annual, and quinquennial cumulative indexes; free to government agencies, exchange from the Extension in Oak Ridge; \$22 domestic, \$27.50 foreign for semimonthly issues, \$15.00 and \$17.50 for cumulative indexes to general public from Superintendent of Documents, U.S. Government Printing Office, Washington 25, D.C.
nuclear science

Nutrition Abstracts and Reviews*

Commonwealth Bureau of Animal Nutrition, Rowett Research Institute, Bucksburn, Aberdeen, Scotland
quarterly; since 1931; 6,000-10,000 abstracts a year from world literature; subject classification; quarterly author, annual author and subject indexes; 200s (\$30).
nutrition

Psychological Abstracts*

American Psychological Association, 1333 16th st., N.W., Washington 6, D.C.
bimonthly; since 1927; 10,000 abstracts a year of world literature; subject classification; bimonthly author, annual author and subject indexes; \$20 domestic, \$20.50 foreign.
psychology

Public Health Engineering Abstracts

Robert A. Taft Sanitary Engineering Center, Public Health Service, U.S. Department of Health, Education, and Welfare, c/o Superintendent of Documents, U.S. Government Printing Office, Washington 25, D.C.

monthly; since 1921; 2,200 abstracts a year from world journal literature; subject classification; annual author, subject, and publications indexes; \$2 domestic, \$2.75 foreign (gratis to certain health departments and libraries).
public health, sanitary engineering

Quarterly Check-List of Geophysics

American Bibliographic Service, Darien, Conn.

quarterly; since Jan. 1960; about 300 references a year to world literature; author arrangement; annual index of authors, editors, and translators, \$5.50.

geophysics, geodesy, geology, oceanography, meteorology

Referativnyi Zhurnal: Biologiya

Proizvodstvenno-izdatel'skii kombinat Vsesoyuznogo instituta nauchnoi i tekhnicheskoi informatsii, Lyubertsy-6, Oktiabr'skii prospekt 403, Moscow, USSR

semimonthly; since 1954; 145,000 abstracts a year from world literature; annual author and subject indexes; 94 rubles, 50 kopecks (organizations), 78 rubles, 75 kopecks (individuals).

biology

Referativnyi Zhurnal: Geofizika

Proizvodstvenno-izdatel'skii kombinat Vsesoyuznogo instituta nauchnoi i tekhnicheskoi informatsii, Lyubertsy-6, Oktiabr'skii prospekt 403, Moscow, USSR

monthly; since 1957; 15,500 abstracts a year from world literature; annual author and subject indexes; 27 rubles, 60 kopecks (for organizations), 17 rubles, 25 kopecks (for individuals).

geophysics

Referativnyi Zhurnal: Geografiya

Proizvodstvenno-izdatel'skii kombinat Vsesoyuznogo instituta nauchnoi i tekhnicheskoi informatsii, Lyubertsy-6, Oktiabr'skii prospekt 403, Moscow, USSR

monthly; since 1956; 20,000 abstract a year from world literature; annual author, subject and geographic indexes; 45 rubles, 52 kopecks (organizations), 28 rubles, 50 kopecks (individuals).

geography

Referativnyi Zhurnal: Geologiya

Proizvodstvenno-izdatel'skii kombinat Vsesoyuznogo instituta nauchnoi i tekhnicheskoi informatsii, Lyubertsy-6, Oktiabr'skii prospekt 403, Moscow, USSR

monthly; since 1956; 22,000 abstracts a year from world literature; annual author and subject indexes; 35 rubles, 8 kopecks (for organizations), 23 rubles, 88 kopecks (for individuals).

geology

Rybnoe Khozyaistvo

Section: Novaya literatura po rybnomy khozyaistvu
Vsesoyuznyi nauchnyi institut rybnogo khozyaistva i okenoografi
Glavnogo upravleniya rybnogo khozyaistva pri Gosplane SSSR, Moscow, USSR
monthly; since 1920; 400 references a year from Soviet literature;
50 kopecks per issue.
fisheries

Soviet-Bloc Research in Geophysics, Astronomy and Space

Office of Technical Services, U.S. Department of Commerce, Washington 25,
D.C.

biweekly; since January 1961; 550 abstracts a year; subject classification; \$16 domestic, \$20 foreign.
astronomy, meteorology, oceanography, geophysics

Sport Fishery Abstracts*

Bureau of Sport Fisheries and Wildlife, U.S. Fish and Wildlife Service,
Washington, D.C.

quarterly; since 1955; 850 abstracts a year; quarterly, annual, and
planned quinquennial subject and author indexes; gratis
fisheries

Technical Translations*

Office of Technical Services, U.S. Department of Commerce, c/o
Superintendent of Documents, U.S. Government Printing Office,
Washington 25, D.C.

semimonthly; since 1959; 24,000 abstracts a year of translations from
world literature; subject classification; semimonthly and semiannual
author, subject, journal, and translation number indexes; \$12 domestic,
\$16 foreign.
translations

Tropical Abstracts*

Tropical Products Dept., Royal Tropical Institute, Mauritskade
63, Amsterdam-O, Netherlands

monthly; since 1946; 3,300 abstracts a year in English from English
language, European and Indonesian literature; subject classification
with Universal decimal classification numbers provided; annual subject
index; \$7U.S., £2.10s.
tropical agriculture

Water Pollution Abstracts*

Dept. of Scientific and Industrial Research, Water Pollution Research
Lab., Elder Way, Stevenage, Herts, England; published by H.M.S.O.,
Kingsway, London W.C.2, England

monthly; since 1928; 2,400 abstracts a year from world literature;
subject classification; annual author and subject indexes; 50s.
water treatment

World Fisheries Abstracts (English, French and Spanish editions)*
Food and Agriculture Organization of the United Nations, Fisheries
Division, Technology Branch, Viale della Terme di Caracalla, Rome,
Italy
bimonthly; since 1950; 600 abstracts a year from world literature;
subject classification, with Universal decimal classification and
Fish and Wildlife Service classification numbers provided;
U.S. \$4.00 or £1.
fisheries

Zoological Record*

Sections:

1. Comprehensive Zoology. 700 references; 4s. (plus 5d. postage)
2. Protozoa. 1,700 references; 13s (plus 8d. postage)
3. Porifera. 80 references; 3s. (plus 3d. postage)
4. Coelenterata. 340 references; 5s. (plus 6d. postage)
5. Echinodermata. 319 references; 4s. (plus 5d. postage)
6. Vermes. 1,360 references; 12s. (plus 5d. postage)
7. Brachiopoda. 176 references; 4s. (plus 5d. postage)
8. Bryozoa (polyzoa). 144 references; 3s. (plus 6d. postage)
9. Mollusca. 1,708 references; 16s. (plus 9d. postage)
10. Crustacea. 1,050 references; 8s. (plus 8d. postage)
11. Trilobita. 270 references; 8s. (plus 8d. postage)
12. Arachnida (includes Merostoma, Pantopoda, Pentastomoda, Tardigrada,
Mynopoda, Onychophora). 1,200 references; 14s. (plus 9d. postage)
13. Insecta. 4,521 references; 60s. (plus 1s. 8d. postage)
14. Protochordata. 120 references; 3s. (plus 6d. postage)
15. Pisces. 1,680 references; 11s. (plus 8d. postage)
16. Amphibia. 820 references; 12s. (plus 8d. postage)
17. Reptilia. 630 references; 12s. (plus 8d. postage)
18. Aves. 2,200 references; 12s. (plus 8d. postage)
19. Mammalia. 1,820 references; 12s. (plus 6d. postage)
20. List of New Generic and Subgeneric Names Recorded in Volume.
4s. (plus 5d. postage)

Zoological Society of London, Regent's Park, London N.W. 1, England
annual; since 1864; 15,000 references a year from world literature;
author arrangement of entries, subject index in each classified section;
£10 (plus postage for all sections)
zoology

*Searched for inclusion in CBASF

Additional Materials Not Listed in Report No.102

Journal of Food and Agriculture*
Journal of Agricultural Chemistry*
Deep Sea Research - Bibliography*
Polar Record*

Appendix No. III

Recommendations of First Working-Group Meeting

Recommendations

- (1) That UNESCO and FAO be requested jointly to assess the value, costs and practical problems of arranging for a service which would regularly and promptly bring to the attention of marine scientists the contents of a selected group of relevant journals (and of symposium proceedings and review volumes) in the field. To this end it is recommended that a pilot 'operation' be initiated involving preparation and distribution to specialized libraries of a limited number of copies of a model of such a document, using a list of "core" journals based on preliminary lists, which will be provided, through the Chairman of the Working-Group, by the participants in the first meeting of the Working-Group. It is further recommended that the practicability of such a journal content service being issued as a supplement to existing periodicals, specifically the "Current Bibliography for Aquatic Sciences and Fisheries" or the "International Marine Science" newsletter be carefully considered.

(2) Analysis

The Working-Group concluded that as a basis for obtaining more facts about the present position regarding abstracts in marine sciences so that desirable improvements can be specified, as well as for its intrinsic value as a bibliographic tool, it is necessary to have prepared a single current inventory of all documents being produced in this field. The Working-Group determined that, among them, five services, all of which apart from the delimitation of their subject coverage within the whole field, are unselective and cover the field comprehensively, or nearly so. These are:

- a) The "Current Bibliography for Aquatic Sciences and Fisheries",
- b) The cards of the Deutsches Hydrographisches Institute
- c) "Meteorological and Geostrophysical Titles", and "Meteorological and Geostrophysical Abstracts."
- d) Certain sections of the "Referativni Zhurnal",
- e) Certain sections of "Bulletin Signaletique".

Of these virtually all entries in c) and d) in the field of physical oceanography are entered in b). Item e) is searched and relevant references are partially incorporated at least in a) and b). Items a) and c) are currently in machine readable form. Items a), c), d), and e) are published, and b) can be made available in small numbers. A comprehensive inventory for the entire field could be made by combining a) and b) and eliminating their overlap in physical oceanography. This could be done on a trial basis manually, but for continuing operations it would be necessary to use automatic data processing equipment for efficient merging and elimination of duplication. It is, therefore, most desirable that the material for b) should be put into machine readable form, preferably including the back issues. Then the merging and checking could be done at one place, with suitable facilities and experience. It is suggested that the Aquatic Sciences Information Retrieval Center at Rhode Island is the appropriate place, especially as it already has all the material for a), has the necessary data processing equipment and has experienced staff.

(2) Recommendations

From the above analysis the Working-Group recommends to SCOR that it:

- A) Inform the German National Committee for SCOR of the Working-Group's opinion that the bibliographic work of the Deutsches Hydrographisches Institut is of great international importance, that this work will be enhanced if it can be combined with that of the other national and international activities to which we have referred and urge that facilities be provided at the Deutsches Hydrographisches Institut for putting their material into machine-readable form.
- B) Ask the UNESCO office of Oceanography to take steps to have the relevant sections of "Referativnyi Zhurnal" made available to the compilers of the Current Bibliography for Aquatic Sciences and Fisheries and to inquire as to the plans of the U.S.S.R. Institute of Scientific Information for using machine methods in the preparation of the Referativnyi Zhurnal.
- C) Ask the U.S. National ~~Committee for~~ SCOR to take steps to facilitate collaboration between the Aquatic Sciences Information Retrieval Center and the American Meteorological Society with a view to exchange between them of material for physical oceanography in machine-readable form and use of compatible codes and indexes so that relevant references, with cross references and abstracts from Meteorological and Geostrophysical Titles, can be added automatically to the consolidated inventory at ASIRC.
- D) Request the four units a), b), c), and d) to compare their coverage in marine sciences with that of "Bulletin Signaletique" and arrange for the Working-Group to be put in possession of information about the methods used to prepare the "Bulletin Signaletique".
- E) Draw the attention of relevant financing bodies to the special role of ASIRC to insure that it has the necessary funds to undertake the tasks for which it has shown itself fully competent.

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(3) Analysis

The Working-Group is considering under its terms of reference, which refer to abstracts and bibliographies, problems of retrieval only of relevant scientific literature. It believes, however, that closely related problems are on the one hand, of retrieving information about the current, as yet unpublished work of scientists and activities of institutions, and on the other hand of exchange, storage and retrieval of data. A fully satisfactory system of scientific communication in a subject field would cover all three elements and link them, while recognizing that working scientists obtain much of their knowledge about what research is going on, and is published by other means than by using data centers, libraries and information centers. These other means include reprint exchange, personal contacts, attendance at symposia, etc. The Working-Group agreed that while data storage and retrieval, and literature storage and retrieval were not the same thing, data centers depend to some extent on the availability of indexed literature lists, and that the forms of reference to literature and its data items, and the indexing codes should be at least compatible and preferably identical, and that rules for these should be developed jointly.

(3) Recommendations

From the above analysis the Working-Group recommends to SCOR that it:

- A) Draw the attention of data centers and especially the World Data Centers A and B (Oceanography) to the above opinion.
- B) Request the UNESCO Office of Oceanography to inform the forthcoming meeting of the IOC Working-Group on Data Exchange of the above opinion.

(4) Analysis

The Working-Group was not in a position to say for what proportion of the references in a comprehensive list informative abstracts and/or author's synopses were available, what overlaps and duplication there might be; how much if any such duplication was necessary, or undesirable, or how much existed because different abstracting periodicals are oriented to different types of readership; how many references are not abstracted and why; and which of these marine scientists think should be abstracted. It was agreed that informative abstracts are useful for several reasons. They may provide in effect a partial translation service, they may confirm a scientist's wish to see the original paper, after he has been guided to the references by retrieval of a title and indicative abstract (annotation). They may serve as substitute for original documents when the latter are for some reason inaccessible.

That informative abstracts are useful does not imply that all pertinent references need necessarily be abstracted, or that all abstracts need be printed in abstracting periodicals, or that need has been demonstrated for a marine sciences abstracting service. The answers to these questions must await further study by the Working-Group. However, whatever the later results of the Working-Group's fact finding are, it is sure that certain small improvements in publication of scientific journals could materially improve communications. This question has been studied by several international groups concerned with scientific documentation, especially by ISO and UNESCO. The Working-Group tried to familiarize itself with these studies and decided to recommend that SCOR take certain steps to encourage the adoption of improved practices at least by the major periodicals in which marine sciences literature is published. These include the "core" journals referred to in Recommendation No.1, as well as important monographic series.

(4) Recommendations

From the above analysis the Working-Group recommends to SCOR that:

- A) UNESCO be advised to provide assistance (the equivalent of one individual for about 3 months) for the purpose of providing information requested by the Working-Group concerning some of the above mentioned questions. Specifically, the study would involve examination of the coverage by abstracting journals listed in the appendix of the Current Bibliography for Aquatic Sciences and Fisheries, and from the Deutsches Hydrographisches Institut lists.
- B) SCOR express the hope to UNESCO that the above would constitute a further step in more active participation by UNESCO in documentation work, as well as collaboration with FAO.
- C) SCOR encourage the editors of major marine sciences journals to:
 - a) Include on the title pages of the periodical and on the first page of each article in it, the bibliographic reference in the form of the "World List of Periodicals for Aquatic Sciences and Fisheries", short form of the title of the periodicals; the date of publication, the series, volume and part numbers, and the first and last page numbers of the document; or of the article in question.
 - b) Print a synopsis (the ISO definition of which is a summary of the article written by the author, or with his agreement), which may be used as the source of an informative abstract, between the heading and the text on the first page of each scientific article.
 - c) Where such synopses are given in languages other than that of the text, it is desirable that the title also be given in those other languages. It is recommended that SCOR contact editors directly as well as through its national committees regarding the above matter. It is further recommended that UNESCO and FAO be requested to take similar action through their channels of communication with government agencies and through IOC.

(5) Analysis

The members of the Working-Group believe that this first meeting has been very useful in several ways:

A) Each has been able to learn about the work of others in this field. A deficiency in exchange of information, even between those most concerned, was revealed. This has been corrected and several participants saw ways in which their own work could be improved thereby.

B) Some ideas for small improvements and extensions to existing systems were developed, and these can be put into effect in the near future by the people concerned.

C) Plans for further studies of the problem, both individually and collectively, were formulated.

D) The Working-Group realized the magnitude of the problem, and agreed that time is needed for the preparation of further background information, and considered a second meeting, perhaps later in 1964, as highly desirable.

(5) Recommendation:

The Working-Group recommends therefore that:

SCOR maintain the "Working-Group on Abstracts and Bibliographies of Use in Marine Sciences" and provide funds for a second meeting.