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BIBLIOGRAPHY OF TRACE METALS (As, Cd, Hg, Pb, Zn)
IN MARINE ECOSYSTEMS WITH EMPHASIS ON ARCTIC REGIONS;
1970 to 1980

by

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ABSTRACT

Fallis, B.W., W.E. Klenner, and D.W. Kroeker. 1982. Bibliography of trace metals (As, Cd, Hg, Pb, Zn) in marine ecosystems with emphasis on arctic regions; 1970 to 1980. Can. Tech. Rep. Fish. Aquat. Sci. 1087: iv + 33 p.

This bibliography consists of references listed in alphabetical order by author according to major components of marine ecosystems. It includes references primarily to material published during the period 1970-1980 which are considered useful to persons undertaking work on aspects of trace metal implications to arctic marine biota. Some references to publications concerning trace metals in freshwater systems have been included where the information was considered pertinent.

Key words: bibliographies; marine environment; arctic zone.

RESUME

Fallis, B.W., W.E. Klenner, and D.W. Kroeker. 1982. Bibliography of trace metals (As, Cd, Hg, Pb, Zn) in marine ecosystems with emphasis on arctic regions; 1970 to 1980. Can. Tech. Rep. Fish. Aquat. Sci. 1087: iv + 33 p.

Cette bibliographie contient une liste des références bibliographiques classés par ordre alphabétique selon leur auteur et les éléments principaux des écosystèmes marins. Elle comprend des ouvrages publiés entre 1970 et 1980 que l'on pense pouvoir être utiles aux personnes qui entreprennent des études sur les effets des oligo-éléments sur la biote marine de l'Arctique. Certains ouvrages portant sur les oligo-éléments dans les systèmes d'eau douce ont également été mentionnés.

Mots-clés: bibliographies; environnement marin; zone arctique.

INTRODUCTION

The increase in industrial activity in the Northwest Territories during the past decade has spurred, to a minor extent, additional efforts by industry, consultants, and government to understand the ramifications of industrial development upon arctic ecosystems. The long range implications of industrial development in the arctic are diverse, complex and will require years of in-depth field and laboratory research to resolve unanswered questions.

Through studies conducted in connection with the development of the Nanisivik lead-zinc deposit located at Strathcona Sound on Baffin Island, it was recognized that the implications of heavy metal contaminants upon arctic marine biota were poorly understood and had only received scanty attention on a world wide basis. The ensuing bibliography was consequently drawn together in an effort to put under one cover reference material which would be of value to persons contemplating research into the effects of heavy metals upon marine biota; especially with respect to the bioaccumulation of such metals.

While some pertinent references have undoubtedly been overlooked, the bibliography has been compiled with the aid of computer searches and letters to various organizations in an effort to unearth relevant work undertaken by consultants on behalf of industry. The bibliography includes material which was available prior to December 1, 1980 with emphasis on the period 1970-1980. Those titles which have been searched by computer are listed in Appendix 1. To facilitate access to desired reference material the bibliography has been divided into sections on water; sediments; algae, macroalgae (sea weeds) and phytoplankton; vascular plants; marine invertebrates (excluding molluscs) and zooplankton; molluscs; fishes; birds; and mammals. Material may be cited under more than one heading dependent upon the scope of the work.

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APPENDIX 1. JOURNALS AND ABSTRACTS RESEARCHED.

COMPUTER SEARCHES:

BIOSIS Previews - Includes Biological Abstracts 1974 to December, 1980, up to Vol. 70, Issue 12, and Biological Abstracts /RRM up to Vol. 19, Issue 6.

BIOSIS Previews - Includes Biological Abstracts and Biological Research Index.

Aquatic Sciences and Fisheries Abstracts - January 1978 to September 1980.

Arctic Science and Technology - January 1972 to June 1980.

JOURNALS SEARCHED:

Acta Biochimica et Biophysica

Acta Biologica

American Journal of Botany

American Journal of Science

American Midland Naturalist

American Naturalist

American Zoologist

Animal Behaviour

Aquaculture

Aquatic Botany

Archives of Environmental Contamination and Toxicology

Arctic

Biological Conservation

Bioscience

Bulletin of Environmental Contamination and Toxicology

Bulletin of Marine Science

Canadian Field Naturalist

Canadian Journal of Fisheries and Aquatic Sciences

Canadian Journal of Zoology

Canadian Water Resources Journal

Deep-Sea Research

Ecological Monographs

Environmental Biology of Fishes

Environmental Conservation

Environmental Pollution

Environmental Research

Fishery Bulletin

Freshwater Biology

The Journal of Animal Ecology

The Journal of Applied Ecology

The Journal of Ecology

Journal of Experimental Marine Biology and Ecology

The Journal of Experimental Zoology

Journal of Fish Biology

Recent Polar Literature

Journal of the Marine Biological Association of the United Kingdom

Journal of Marine Research

Journal of Physical Oceanography

Journal of Water Pollution Control

Journal of Zoology

Limnology and Oceanography

Marine Behavior and Physiology

Marine Biology

Marine Chemistry

Marine Pollution Bulletin

Marine Pollution Research Titles

Netherlands Journal of Sea Research

New Zealand Journal of Marine and Freshwater Oceans

Oecologia

Pesticides Monitoring Journal

Polar Record

Progress in Oceanography

Progress in Water Technology

Research

Underwater Information Bulletin

Water, Air, and Soil Pollution

Water and Pollution Control

Water Pollution Control

Water Pollution Research Journal of Canada