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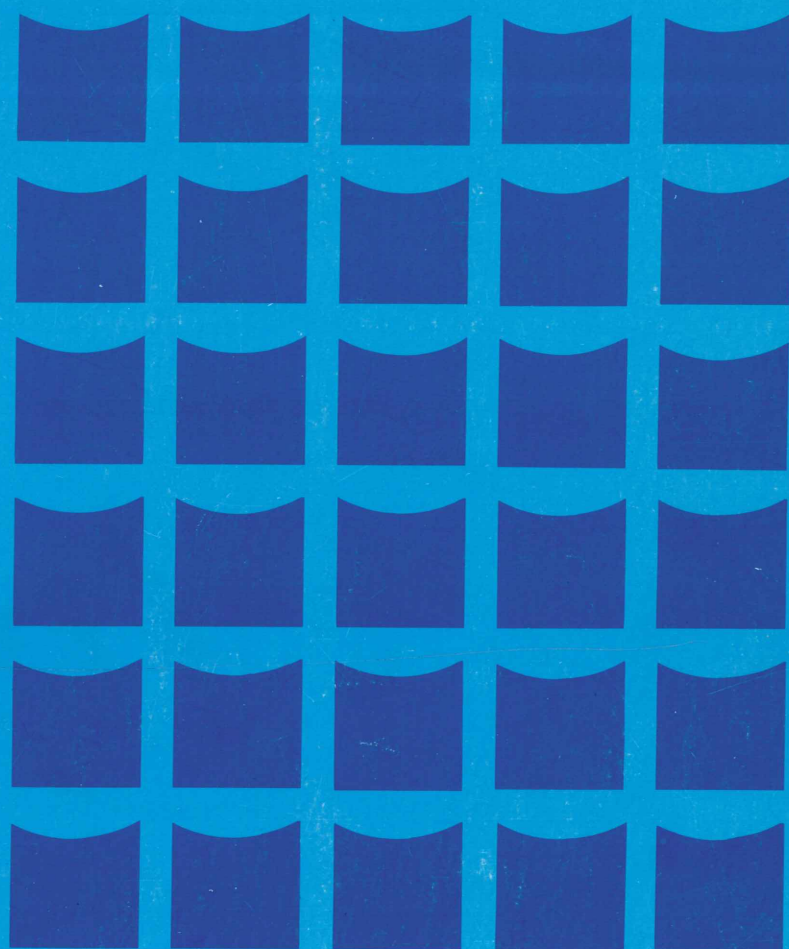
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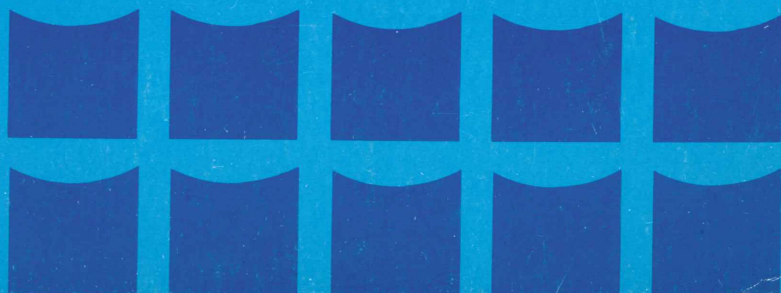
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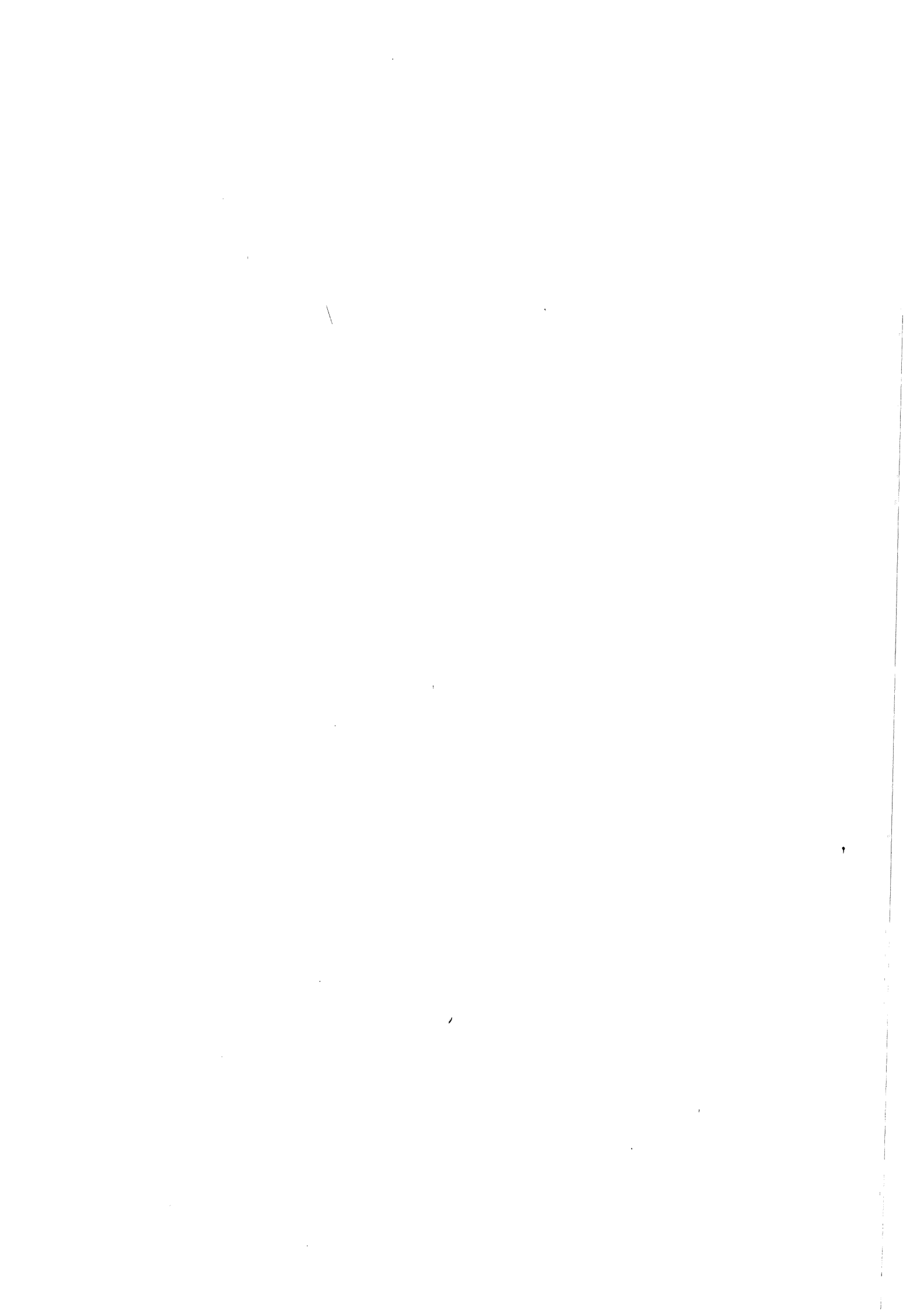
Forskningsprogram om Havforurensninger

The Norwegian Marine Pollution Research and Monitoring Programme



Biological effects of oil pollution in the marine environment: A bibliography

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BIOLOGICAL EFFECTS OF OIL POLLUTION IN
THE MARINE ENVIRONMENT: A BIBLIOGRAPHY

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INTRODUCTION

A selected and indexed bibliography on the biological effects of oil pollution in the marine environment has been prepared. The basic objectives of this bibliography are:

1. To identify literature specifically dealing with known effects of oil pollution on marine organisms and ecosystems;
2. To provide a basic reference document for use in research projects related to oil pollution;
3. To help indicate major deficiencies in our knowledge of this topic.

All the references included in the present bibliography have been compiled according to the following criteria:

1. The references can be found in available scientific literature;
2. The references deal with specific research topics and/or scientific observations, and include specific data or observations; general discussions and review articles referring to specific data have also been included;
3. Publications of a non-scientific or a journalistic nature have been omitted.

The bibliography covers the period from 1970 to the end of 1979. In addition, some references prior to 1970 have been included on the basis of their special significance, e.g. reports on the TORREY CANYON oil spill disaster.

The references have been selected from several sources, the main ones being:

1. Personal references collections,
2. Other bibliographies,
3. Governmental and International Organisations' publications,
4. Proceedings of Conferences and Symposia,
5. Specialized books,
6. Scientific periodicals,
7. References from the papers themselves.

A computer-based literature search including BIOSIS Previews, Pollution Abstracts and Oceanic Abstracts was initially carried out but it was later found that the survey did not cover more than 40-50% of all the references selected. Consequently, various other bibliographic data bases also had to be examined, e.g. Biological Abstracts, Bioresearch Index, Current Contents: Life Sciences (CC-LS) and Current Contents: Agriculture, Biology and Environmental Sciences (CC-ABES). In order to include as many relevant references as possible for the year 1979, all 1979 and early 1980 issues of the above mentioned bibliographic data bases, as well as scientific periodicals themselves had to be searched.

The present bibliography is divided in two Sections:

Section I includes an alphabetical list of all references, numbered from 1 to 1158. Titles of periodicals are abbreviated according to the Serial Sources for the BIOSIS Data Base, 1979.

Section II includes numerous Subject Indexes, where references dealing with particular topics and specific research problems have been classified.

Finally, references dealing with Fate of oil and Biodegradation of oil have as a rule been omitted, unless of general interest and relevance to the subject of the present bibliography.

INTRODUCTION

Une bibliographie choisie et indexée traitant des effets biologiques de la pollution par le pétrole sur le milieu marin est présentée. Les principaux objectifs de cette bibliographie sont les suivants:

1. Identifier les références ayant spécifiquement traité aux effets connus de la pollution par le pétrole sur les organismes et les écosystèmes marins;
2. Fournir un document de référence pouvant servir à définir des projets de recherche sur la pollution par le pétrole;
3. Aider à signaler les insuffisances majeures de notre connaissance du sujet.

Toutes les références citées dans la présente bibliographie ont été compilées selon les critères suivants:

1. Les références peuvent être trouvées dans la littérature scientifique disponible;
2. Les références traitent de sujets de recherche spécifiques et/ou d'observations scientifiques, et contiennent des données ou observations précises; les discussions générales et les comptes-rendus se référant à des données scientifiques spécifiques ont aussi été retenus;
3. Les publications d'un caractère non-scientifique ou journalistique ont été omises.

Cette bibliographie englobe la période de 1970 jusqu'à la fin de 1979. De plus quelques références antérieures à 1970 ont été retenues en raison de leur intérêt spécial, par exemple, les études sur la catastrophe du TORREY CANYON.

Les références ont été sélectionnées à partir de diverses sources, les principales étant:

1. Collections personnelles de références,
2. Autres bibliographies,
3. Publications d'Organisations Gouvernementales et Internationales,
4. Comptes-rendus de Conférences et Symposiums,
5. Ouvrages spécialisés,
6. Périodiques scientifiques,
7. Références issues des articles mêmes.

Une recherche de la littérature utilisant un ordinateur fut d'abord exécutée sur les "BIOSIS Previews, Pollution Abstracts et Oceanic Abstracts" mais il fut plus tard constaté que cet examen n'englobait pas plus de 40 à 50% de toutes les références choisies. Par conséquent, plusieurs autres sources de documentation bibliographique furent également être analysées, par exemple, "Biological Abstracts, Biosearch Index, Current Contents: Life Sciences (CC-LS) et Current Contents: Agriculture, Biology and Environmental Sciences (CC-ABES)". Afin d'inclure autant de références pertinentes que possible pour l'année 1979, tous les numéros des sources de documentation bibliographique ci-haut mentionnées, ainsi que les périodiques scientifique mêmes, publiés en 1979 et au début de 1980 furent aussi être examinées.

On retrouve deux Sections dans la présente bibliographie:

Section I consiste en une liste alphabétique de toutes les références choisies, numérotées de 1 à 1158. Les titres des périodiques scientifiques sont abrégés selon le "Serial Sources for the BIOSIS Data Base, 1979".

Section II comprend de nombreux Index qui permettent une accessibilité entière et rapide aux références classifiées selon des thèmes définis et des sujets de recherche spécifiques.

Finalement, les références traitant du Sort du pétrole et de la Biodégradation du pétrole ont en principe été écartées, à moins d'être d'intérêt général et pertinentes au sujet de la présente bibliographie.

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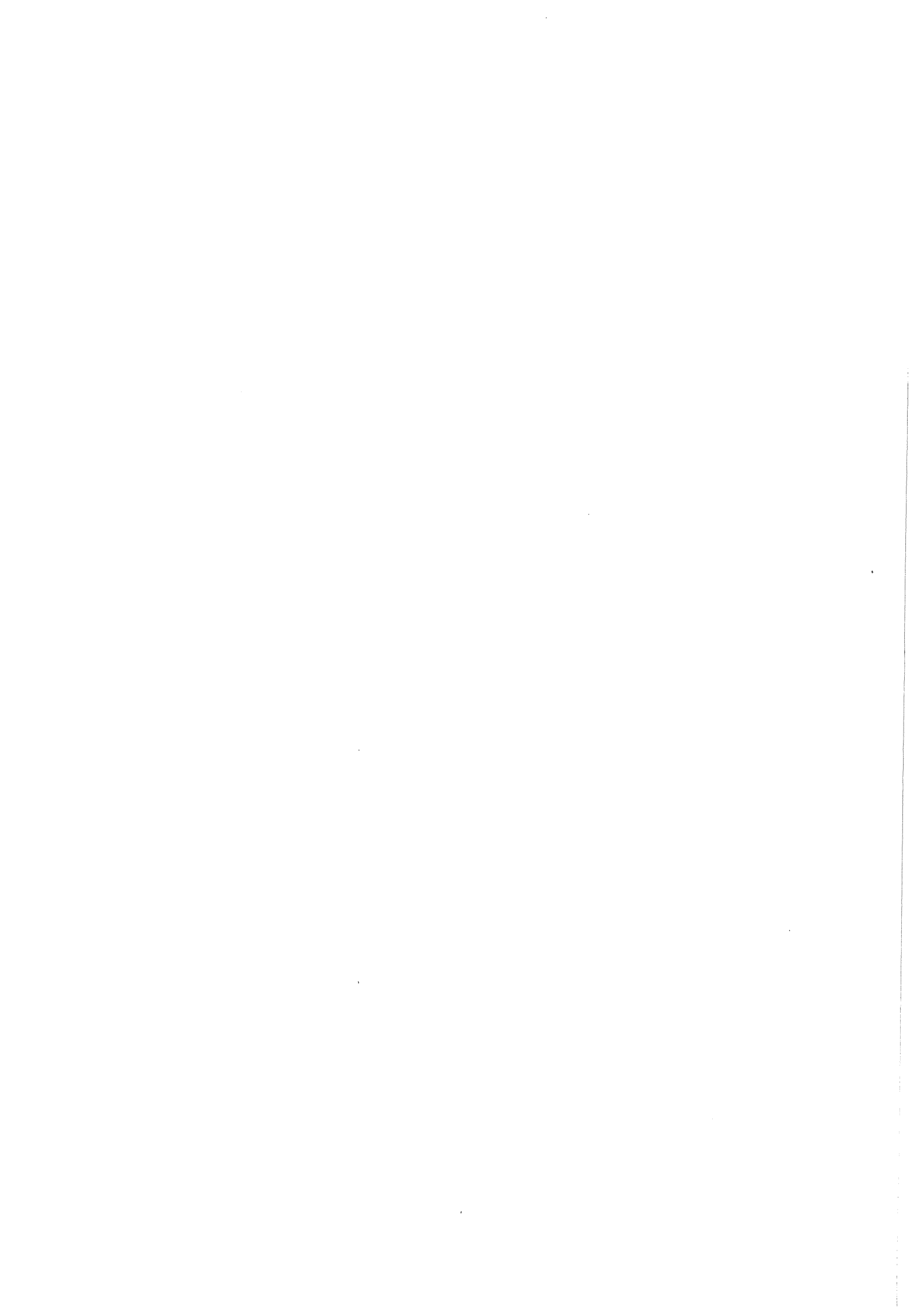
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Forskningsprogram om Havforurensninger (FOH) ble opprettet ved kgl. res. av 5. mars 1976.

FOH ledes av et styre med seks medlemmer, hvorav forskningsrådene (NAVF, NFFR og NTNF) i fellesskap har oppnevnt tre representanter, Miljøverndepartementet og Fiskeridepartementet én representant hver samt styrets formann. Styret står ansvarlig overfor Miljøverndepartementet for gjennomføringen av forskningsprogrammet.

FOH's organisasjon omfatter foruten styret, et fast sekretariat og faggrupper. Sekretariatet er administrativt knyttet til NAVF og det ledes av en heltidsansatt sekretariatsleder, som er mellomleddet mellom styret og faggruppene og de enkelte institusjoner. Han tilrettelegger sakene for styret og leder den praktiske gjennomføringen i henhold til styrets beslutninger. Sekretariatet står også for en viss litteraturtjeneste og andre felles informasjons- og datainnsamlingsoppgaver.

Fem faggrupper innen biologisk, fysisk og kjemisk oseanografi har utarbeidet statusrapporter innen de respektive fagområder, samt fremmet forslag til forskningsprosjekter. På grunnlag av blant annet disse rapporter har styret vedtatt en Rammeplan for FOH (juni 1977).

FOH finansieres primært ved midler over statsbudsjettet (Miljøverndepartementet), men det forutsettes at også forskningsrådene skal bidra til finansieringen. En del av forskningsprogrammet vil inngå i institusjonenes vanlige virksomhet og finansieres over institusjonenes ordinære budsjetter.

The Norwegian Marine Pollution Research and Monitoring Programme (FOH) was established by Royal Decree on 5 March 1976.

The programme is administered by a committee of six, consisting of a chairman, proposed jointly by the Ministry of the Environment and The Ministry of Fisheries, one representative from each of these Ministries and three proposed jointly by the research councils (NAVF, NFFR and NTNF). The committee is responsible to the Ministry of the Environment for effecting the programme.

In addition to the committee, FOH's organization includes a permanent secretariat and scientific groups. The secretariat is administratively attached to NAVF and is led by a full-time head who acts as liaison between the committee, the scientific groups and the individual research institutes. He is responsible for preparing matters for discussion by the committee and sees to it that their decisions are put into practice. The secretariat is also responsible for the collection of certain relevant literature and other tasks of a general nature connected with the spread of information and collection of data.

Five scientific groups concerned with biological, physical and chemical oceanography have each prepared reports on the status of research within the relevant scientific fields and made proposals for definite research projects. On the basis of these reports, the committee has worked out a preliminary framework for the programme (June 1977).

FOH is financed primarily from the fiscal budget (Ministry of the Environment), but it is assumed that the research councils will also contribute to the programme. A certain amount of the research will be incorporated into the normal activities of the research institutes and will thus be financed from the institution budgets.