Intergovernmental Oceanographic Commission
Manuals and guides
Commission océanographique intergouvernementale
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Comisión Oceanográfica Intergubernamental
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Межправительственная океанографическая комиссия
Справочники и руководства

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MARINE ENVIRONMENTAL DATA INFORMATION REFERRAL CATALOGUE
(MEDI Catalogue)

CATALOGUES DES DONNÉES ET INFORMATIONS SUR LE MILIEU MARIN
(Catalogue MEDI)

CATÁLOGOS DE ACCESO A LAS FUENTES DE DATOS E INFORMACIÓN RELATIVOS AL MEDIO MARINO
(Catálogo MEDI)

СПРАВОЧНЫЙ КАТАЛОГ ИНФОРМАЦИИ О ДАННЫХ ПО МОРСКОЙ СРЕДЕ
(Каталог МЕДИ)

Third edition
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PREFACE

The Marine Environmental Data Information Referral System (MEDI) contains technical descriptions of marine data holdings of participating organizations in standardized form. MEDI was developed in the late 1970s at the recommendation of the Intergovernmental Oceanographic Commission's (IOC) Working Group on International Oceanographic Data and Information Exchange. The purpose of MEDI is to enhance the service capabilities of marine data centres by providing users with information on the location and availability of environmental data held by organizations and institutions around the world. The first edition of the MEDI Catalogue was issued in 1979; new editions of the Catalogue have been published periodically since then by the IOC MEDI Co-ordinating Centre.

In recent years, many organizations and individuals have expressed increased interest in the type of directory information available from MEDI to meet the needs of new global research programmes. This is especially true of the World Climate and Global Change programmes and related activities. MEDI is intended to provide information about organizations/institutions with holdings of oceanographic data, especially those with wide international interest.

IOC plans to use MEDI as a database with multiple purpose output directed to programmes of wide interest. Many of these programmes are multi-disciplinary in nature. Having a single, uniform information source available through the IOC will mean that centres will only have to provide input to the MEDI Co-ordinating Centre to reach the international oceanographic community.

This published version of the MEDI database was prepared by IOC with the assistance of the World Data Centre-A, Oceanography. It is planned that updates to available information as received by the IOC MEDI Co-ordinating Centre will be published regularly and circulated to all interested parties.

How to Prepare a MEDI Entry

Why do it?

MEDI is a directory system for datasets, data catalogues and data inventories within the framework of the IOC's International Oceanographic Data and Information Exchange (IODE) system. The entries are deliberately kept simple so that they can be collected and disseminated as rapidly as possible.

By taking the time to prepare a MEDI entry for your organization, you will make data held by you or your organization available to the increasing numbers of scientists and ocean users who are seeking data. In order to speed up entry and get the directory information to users soonest, we prefer that you follow the instructions given below. If you have a document that already contains all or almost all the information requested, you may use this as an alternative method of submitting information. Your data set may be just the one the users are looking for; make sure they find it; write your MEDI entry today.... right now!

Writing your Entry:

Each MEDI entry starts with a section describing the data holding organization. This is followed by one or more sections, each giving a description of a single dataset, data catalogue or data inventory held by the organization.

Describing an Organization:

A MEDI entry section describing an organization should contain three components - the organization name, the organization address and a plain text description. Give the address for user enquiries. In the address give mailing, telephone, fax, telex, cable, electronic mail and communications network addresses, if any. In your description, mention any special conditions and procedures for the supply of data.

Example:

Organization Name: National Oceanographic Data Center
Contact for Services: User Services Branch
Address: NOAA/NESDIS E/OC21
Washington, DC 20235
USA
Tel: (1) (202) 673 55 49
Fax: (1) (202) 673 55 86
Tlm: NODC.WDCA (Omnet)
SPAN: NODC::SERVICES

Description:

The US NODC is an NODC within the IODE system and operates WDC-A, Oceanography and RNODCs for IGOSS and CARIPOL. Archived NODC datasets are available from the US NODC as magnetic tape copies of specified data subsets. For the major global files, data are also available as formatted printouts, data summaries, analyses and plots. These files are sorted by cruise number (cruise file) and by a geographic grid system (geofile). Data sets in originator formats are provided only as direct copies of whole data tapes. Subsets cannot be retrieved. The data files, as well as products, inventories, and cost information, are described in more detail in the NODC Users Guide (available from the above address). Data are on 1600 bpi tapes unless noted as being 6250 bpi tapes.

Describing a Data Holding:

A MEDI entry describing a data holding should contain a name for the data holding, identifiers which describe the holding in general terms and a narrative summary. The summary provides additional information which may help the user select a dataset. For the identifier fields the IOC has extracted a subset of Directory Interchange Format (DIF) fields which seem most appropriate for ocean and ocean related data and would prefer to receive new entries that follow the outline given below as closely as possible.

The simplified DIF entry outline is as follows:

FILE	Write the name of the file as it is used by the organization holding the data.
GEOGRAPHIC COVERAGE	Choose names from the list in Appendix I.
TIME PERIOD	Provide starting date and ending date, when appropriate.
PARAMETERS	Choose names from the data type list given in Appendix II, based on the list used in the Cruise Summary report recently adopted by the IOC. Since this list is specific to oceanographic ship collections, the parameter list may be supplemented by additional names using any parameter the holding institution finds appropriate.
SENSOR/INSTRUMENT	Provide types of instruments used to collect data; leave blank if instrument type is not appropriate to a data holding.
FILE SIZE	Provide number of stations/observations and, when appropriate, size in terms of bytes or the equivalent.
STORAGE MEDIA/FORMAT	Provide media upon which data are archived; for those data on magnetic tape or disk provide general format information such as whether it is in a local format or one that is internationally recognized such as GF3.
NARRATIVE SUMMARY	In plain language add any information which might help potential users to select files that may be needed to meet the aims of a research programme or project. Among those items might be a statement of data sources, e.g., Are they all national or were foreign sources used to compile the dataset? Are there restrictions on the availability of data that the user should know? Was this data holding associated with a national or international project that is not contained in the file name? Is this part of a long time series and useful to climate change studies? Are there special quality characteristics that the user should know? If there is nothing special to add, you may leave this field blank.

Example:

DATA CENTER: NODC (USA)
FILE: North Pacific Time Series
GEOGRAPHIC COVERAGE: California Current region
TIME PERIOD: May 1952 to May 1986
PARAMETERS: Water temperature, salinity, oxygen, nutrients, pH, water color, water transparency
SENSOR/INSTRUMENT: Multi-bottle Nansen casts with reversing thermometers, water samplers, and STD/CTD
FILE SIZE: 38,081 stations; 98,018,712 bytes
STORAGE MEDIA/FORMAT: Magnetic tapes in NODC SD II format
NARRATIVE SUMMARY: This file contains physical-chemical oceanographic data recorded at discrete depth levels with 5% obtained using CTD or STD instruments. The CTD/STD data were reported to NODC at depth levels equivalent to Nansen Cast Data. They are processed and stored the same as the Nansen Data. Values of sound velocity, sigma-t, and dynamic depth anomaly are computed. Cruise information, position, date, and time are reported for each station. Each Station contains the measurements taken at observed levels, but also includes data values interpolated to a set of standard depth levels.

Sending your MEDI Entry:

The quickest way of submitting your MEDI entry is to send it as a Telemail message to IOC.SECRETARIAT (Omnet) with the subject given as "MEDI INPUT".

If you are unable to use this medium, submit the MEDI entry on an IBM-PC compatible floppy disk (3.5" or 5.25", low or high density) . A simple DOS text file is best, but most common word processor file formats can also be accepted.

Alternatively, simply send the MEDI entry on paper.

Floppy disk and paper MEDI entries should be addressed to:

MEDI Co-ordinating Centre
Intergovernmental Oceanographic Commission
IOC
1, rue Miollis
75732 Paris Cedex 15
France
Tel: (33) (1) 45 68 40 46
Fax: (33) (1) 40 56 93 16
Tlm: IOC.SECRETARIAT (Omnet)

This same centre will give you details on how you can get information from MEDI.

APPENDIX I

Geographic Area Names

These names are based on those in I.H.B. Special Publication No. 23 (Third Edition, 1953) - 'Limits of Oceans and Seas', which contains a precise definition of each area. Modifications to the I.H.B. system include the addition of sub-divisions for the major oceans and of entries for the Southern Ocean (Southern limit - the Antarctic Continent. Its northern limit is dependent on the oceanographic conditions, e.g., Antarctic Convergence, and is typically 50 S) and the use of the name 'global' to describe data holdings covering a worldwide range. Except for the name 'global' the same names are also used in the ROSCOP form and in the GF3 data formatting system.

OCEAN/SEA AREA NAMES

Global
Baltic Sea
  Gulf of Bothnia
  Gulf of Finland
  Gulf of Riga
Kattegat, Sound and Belts
Skagerrak
North Sea
Greenland Sea
Norwegian Sea
Barents Sea
White Sea
Kara Sea
Laptev (or Nordenskjold) Sea
East Siberian Sea
Chukchi Sea
Beaufort Sea
The Northwestern Passages
  Baffin Bay
Davis Strait
  Labrador Sea
Hudson Bay
  Hudson Strait
Arctic Ocean
  Lincoln Sea
Inner Seas off the West Coast of Scotland
Irish Sea and St. George's Channel
Bristol Channel
English Channel
Bay of Biscay
North Atlantic Ocean
  NE Atlantic (Limit 40 W)
  NW Atlantic (Limit 40 W)
  Malacca Strait
  Singapore Strait
Gulf of Thailand (Siam)
East Indian Archipelago (Indonesia)
  Sulu Sea
  Celebes Sea
  Molukka Sea
  Gulf of Tomini
  Halmahera Sea
  Ceram Sea
  Banda Sea
  Arafura Sea
  Timor Sea
  Flores Sea
  Gulf of Boni
  Bali Sea
  Makassar Strait
  Java Sea
  Savu Sea
South China Sea (Nan Hai)
Eastern China Sea (Tung Hai)
Yellow Sea (Hwang Hai)
Japan Sea
Inland Sea (Seto Naikai)
Sea of Okhotsk
Bering Sea
Philippine Sea
North Pacific Ocean
  NE Pacific (Limit 180 deg.)
  NW Pacific (Limit 180 deg.)
Gulf of Alaska
Coastal Waters of SE Alaska and British Columbia
Gulf of California
South Pacific Ocean
  SE Pacific (Limit 140 W)
  SW Pacific (Limit 140 W)
Great Australian Bight
  Bass Strait
Tasman Sea
Coral Sea
Solomon Sea
Bismarck Sea
Southern Ocean
  Atlantic Sector of Southern Ocean
  Indian Ocean Sector of Southern Ocean
  Pacific Sector of Southern Ocean
Land Areas
Gulf of St. Lawrence

Bay of Fundy
Gulf of Mexico
Caribbean Sea
Mediterranean Sea
  Western Basin
  Eastern Basin
  Strait of Gibraltar
  Alboran Sea
  Balearic Sea (or Iberian Sea)
  Ligurian Sea
  Tyrrhenian Sea
  Ionian Sea
  Adriatic Sea
  Aegean Sea (The Archipelago)

Sea of Marmara
Black Sea
Sea of Azov
South Atlantic Ocean
  SE Atlantic (Limit 20 W)
  SW Atlantic (Limit 20 W)
Rio de La Plata
Gulf of Guinea
Gulf of Suez
Gulf of Aqaba
Red Sea
Gulf of Aden
Arabian Sea
Gulf of Oman
Persian Gulf [1]
Laccadive Sea
Bay of Bengal
Andaman or Burma Sea
Indian Ocean
  Mozambique Channel

1. Persian Gulf: Changed from Gulf of Iran (Ref. ASFIS Reference Series, No. 7, Rev. 2, FAO, 1992)

APPENDIX II

Data types

These names are adapted from those used for the ROSCOP form with slight modifications. The data types - 'Data catalogue' and 'Data inventory', have been added.

GENERAL

Data catalogue
Data inventory

PHYSICAL OCEANOGRAPHY

Surface measurements underway (T°,S°/$_{oo}$)
Bathythermograph drops
Water bottle stations
CTD stations
Subsurface measurements underway (T°,S°/$_{oo}$)
Thermistor chain
Transparency (e.g., transmissometer)
Optics (e.g., underwater light levels)
Geochemical tracers (e.g., freons)
Current meters
Current profiler (e.g., ADCP)
Currents measured from ship drift
GEK
Surface drifters/drifting buoys
Neutrally buoyant floats
Sea level measurements (including bottom pressure recorders & inverted echo-sounders)
Instrumented wave measurements
Other physical oceanographic measurements

CHEMICAL OCEANOGRAPHY

Oxygen
Carbon dioxide
Other dissolved gases
Phosphates
Total-P
Nitrates
Nitrites
Total-N
Ammonia
Silicates
Alkalinity
pH
Trace elements
Radio activity
Isotopes
Other chemical oceanographic measurements

CONTAMINATION

Suspended matter
Trace metals
Petroleum residues
Chlorinated hydrocarbons
Other dissolved substances
Bottom deposits
Contaminants in organisms
Other contaminant measurements

BIOLOGY & FISHERIES

Primary productivity
Phytoplankton pigments (e.g., chlorophyll, fluorescence)
Particulate organic matter (e.g., POC, PON)
Dissolved organic matter (e.g., DOC)
Biochemical measurements (e.g., lipids, aminoacids)
Sediment traps
Phytoplankton
Zooplankton
Seston
Neuston
Nekton
Eggs/Larvae
Pelagic bacteria.micro organisms
Benthic bacteria/micro-organisms
Phytobenthos
Zoobenthos
Birds
Mammals & reptiles
Pelagic fish
Demersal fish
Molluscs
Crustaceans
Acoustic reflection on marine organisms
Tagging
Gear research
Exploratory fishing
Other Biological/fishery measurements

METEOROLOGY

Upper air observations
Incident radiation
Occasional standard measurements
Routine standard measurements
Atmospheric chemistry
Other meteorological measurements

GEOLOGY & GEOPHYSICS

Dredge
Grab
Core - rock
Core - soft bottom
Bottom photography
In-situ sea floor measurements
Geophysical measurements made at depth (below near surface & above sea floor)
Single-beam echo sounding
Multi-beam echo sounding
Long/short range side scan sonar
Single channel seismic reflection
Multichannel seismic reflection
Seismic refraction
Gravity measurements
Magnetic measurements
Other geological or geophysical measurements

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FICHIERS PAR PAYS

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Australie
Bulgarie
Canada
Chili
Chine
Croatie
Egypte
Equateur
Espagne
Etats-Unis d'Amérique
Fédération de Russie
Finlande
Grèce
Inde
Irak
Japon
Norvège
Pakistan
Panama
Pays-Bas
République de Corée
Royaume-Uni
Seychelles
Suède

Conseil international pour l'exploration de la mer (CIEM)

QUESTIONNAIRE RELATIF A L'EVALUATION DU PRODUIT

PREFACE

Le Système d'accès aux données et informations sur le milieu marin (MEDI) contient les descriptions techniques des collections de données sur la mer des organisations participantes sous une forme normalisée. Le Système MEDI a été mis au point à la fin des années 70 sur la recommandation du Groupe de travail de la Commission océanographique intergouvernementale (COI) sur l'échange international des données et de l'information océanographiques. Il a pour objectif de renforcer l'efficacité des services offerts par les centres de données marines en donnant aux utilisateurs des informations sur les données détenues par des organisations et institutions du monde entier et sur les endroits où il est possible de les obtenir. La première édition du catalogue MEDI a été diffusée en 1979 ; depuis cette époque, de nouvelles éditions ont été publiées périodiquement par le Centre de coordination du MEDI de la COI.

Ces dernières années, nombre d'organisations et de particuliers se sont montrés de plus en plus intéressés par le type d'information répertoriée fournie par le MEDI qui permet de répondre aux besoins des nouveaux programmes mondiaux de recherche, notamment et plus spécialement les programmes mondiaux sur le climat et le changement planétaire et les activités connexes. Le MEDI est destiné à fournir des informations sur les organisations/institutions possédant des collections de données océanographiques, en particulier celles ayant une grande portée internationale.

La COI se propose d'utiliser le système MEDI en tant que base de données à production polyvalente axée sur des programmes d'intérêt très général, très souvent à caractère pluridisciplinaire. Du simple fait qu'il existe une unique source d'information uniforme accessible par l'intermédiaire de la COI, il suffira aux centres de données de fournir des apports au Centre de coordination du MEDI pour toucher la communauté océanographique internationale.

La présente version publiée de la base de données du MEDI a été établie par la COI avec le concours du Centre mondial de données-A (océanographie). Il est prévu de publier régulièrement les mises à jour de l'information disponible qui seront transmises au Centre de coordination du MEDI de la COI et de les distribuer à toutes les parties intéressées.

Comment remplir une fiche MEDI

Le but

MEDI est un système qui sert à répertorier les fichiers, les catalogues et les inventaires de données qui existent dans le cadre du Système d'échange international des données océanographiques (IODE) de la COI. Les fiches MEDI sont simples de conception ; cette simplicité doit permettre de les collecter et de les diffuser aussi rapidement que possible.

Si vous prenez le temps de remplir une fiche MEDI pour votre institution, les données que vous détenez, vous ou votre institution, deviendront *ipso facto* accessibles aux scientifiques et autres utilisateurs de l'océan qui sont toujours plus nombreux à chercher des données. Pour accélérer la saisie des données et mettre aussi vite que possible les renseignements contenus dans le répertoire à la disposition des utilisateurs, nous vous saurions gré de vous conformer aux instructions ci-après. Si vous disposez d'ores et déjà d'un document contenant tous ou presque tous les renseignements demandés, vous pouvez aussi l'utiliser pour les transmettre. La série de données que vous détenez est peut-être précisément celle que les utilisateurs cherchent : assurez-vous qu'ils la trouveront ; remplissez votre fiche MEDI sans plus attendre, aujourd'hui... tout de suite !

Comment remplir une fiche MEDI ?

Une fiche MEDI comporte une première section consacrée à la description de l'institution qui conserve les données. Viennent ensuite une ou plusieurs sections décrivant chacune un et un seul ensemble de données ou catalogues de données ou inventaire de données détenu par votre institution.

Description de l'institution

La section de la fiche MEDI qui décrit l'institution se compose de trois éléments : le nom de l'institution ; l'adresse de l'institution ; sa description en langage naturel. Indiquez l'adresse à laquelle les utilisateurs doivent envoyer leurs demandes de renseignements. Dans l'adresse, indiquez : l'adresse postale, le numéro de téléphone, le numéro de télécopieur, le numéro de télex, l'adresse télégraphique, l'adresse de la boîte à lettres électronique et le nom du réseau de communication, le cas échéant. Dans votre description, mentionnez toutes les conditions et procédures particulières qui s'appliquent à la fourniture des données.

Description

Le CNDO des Etats-Unis est un CNDO du système IODE qui gère le CMD-A (océanographie), le CNDOR pour le SMISO et le CNDOR pour CARIPOL. Il est possible de se procurer auprès du CNDO les ensembles de données archivés de ce centre sous forme de copies de sous-ensembles spécifiques de données sur bandes magnétiques. Pour les grands fichiers généraux, les données peuvent également s'obtenir sous forme de sorties imprimées formatées, d'états récapitulatifs de données, d'analyses de données, et de courbes ou autres représentations graphiques. Les fichiers sont classés d'après le numéro de campagne ("cruise file"/fichier de campagne) et selon un système de quadrillage géographique ("geofile"). Les ensembles de données au format de l'institution source sont fournis uniquement sous forme de reproductions de bandes de données complètes. Il n'est pas possible de rechercher des sous-ensembles. Les fichiers, les produits et les inventaires de données, de même que les renseignements relatifs aux coûts sont décrits de façon plus détaillée dans le NODC Users Guide (guide de l'utilisateur du CNDO). Les données sont enregistrées sur des bandes à 1.600 bits/pouce, sauf s'il est précisé qu'il s'agit de bandes à 6.250 bits/pouce.

Description d'une collection de données

La description d'une collection de données doit, dans une notice MEDI, se composer des éléments suivants : le nom de la collection de données ; les identificateurs qui donnent de la collection une description générale et un résumé explicatif. Ce résumé fournit des renseignements supplémentaires qui peuvent aider l'utilisateur à choisir un ensemble de données. Pour les zones contenant les identificateurs, la COI a extrait du Directory Interchange Format (DIF) un sous-ensemble de zones qui semble particulièrement convenir aux données relatives à l'océan et aux données connexes ; elle préférerait dorénavant recevoir des fiches remplies en suivant d'aussi près que possible les indications ci-après.

Schématiquement, la fiche DIF simplifiée, se présente comme suit :

FILE	Ecrire le nom utilisé pour désigner le fichier par l'institution qui conserve les données.
GEOGRAPHIC COVERAGE	Prière de se conformer à la nomenclature qui figure à l'appendice I.
TIME PERIOD	Indiquer la date de début et, le cas échéant, celle de la fin.
PARAMETERS	Utiliser les dénominations employées dans la liste de types de données qui figure à l'appendice II ; cette liste a été dressée à partir de celle que la COI vient d'adopter pour l'établissement des comptes rendus de campagnes océanographiques. Comme elle est destinée aux collections de données, recueillies par des navires océanographiques, il est possible de la compléter en introduisant les noms de tous les paramètres supplémentaires jugés pertinents par l'institution qui détient les données.
SENSOR/INSTRUMENT	Indiquer les types d'instruments utilisés pour recueillir les données ; laisser un blanc chaque fois qu'un type d'instrument ne correspond pas à la collection de données qui est visée par le formulaire.
FILE SIZE	Prière d'indiquer le nombre de stations d'observations et, le cas échéant, la longueur du fichier, en termes d'octets ou autre mesure équivalente.
STORAGE MEDIA/FORMAT	Indiquer le support sur lequel les données sont archivées ; s'il s'agit de bandes magnétiques ou de disques, prière de fournir des renseignements généraux sur le format : indiquer, par exemple, s'il s'agit d'un format local ou d'un format reconnu internationalement comme le GF3.
NARRATIVE SUMMARY	Fournir, en clair, toutes informations complémentaires de nature à aider les utilisateurs potentiels à choisir les fichiers qui peuvent leur être nécessaires pour les besoins d'un programme ou projet de recherche. Préciser, par exemple, à propos des sources de données - si l'ensemble de données a été constitué à partir de sources exclusivement nationales ou aussi de sources étrangères. Y a-t-il, par rapport à la disponibilité des données, des restrictions que l'utilisateur devrait connaître ? La collection de données décrite était-elle associée à un projet national ou international qui ne figure pas dans l'intitulé du fichier ? Le fichier fait-il partie d'une longue série chronologique de données et présente-t-il un intérêt pour les recherches sur le changement climatique ? Y a-t-il, concernant la qualité, des caractéristiques que l'utilisateur devrait connaître ? Si vous n'avez rien de particulier à ajouter, vous êtes libre de laisser cette zone en blanc.

Comment envoyer la fiche MEDI

Le plus rapide est d'envoyer la fiche MEDI par messagerie électronique, à l'adresse IOC.SECRETARIAT (Omnet), en précisant "MEDI INPUT".

A défaut, la notice MEDI peut être transmise sur disquette compatible IBM-PC (3 ½" ou 5 ¼", bande enregistrée en faible densité ou en haute densité). L'idéal est un simple fichier DOS text mais la plupart des formats courants de fichiers pour logiciels de traitement de texte sont également acceptés.

Autre possibilité : envoyer la fiche MEDI, rédigée sur papier, par la poste ou par télécopieur.

Les fiches MEDI sur disquette ou sur papier doivent être envoyées à l'adresse suivante :

Centre de coordination du MEDI
Commission océanographique intergouvernementale
UNESCO
1, rue Miollis
75732 Paris Cédex 15
France
Téléphone : (33) (1) 45 68 40 46
Télécopieur : (33) (1) 40 56 93 16
Courrier électronique : IOC.SECRETARIAT (Omnet)

Ce même centre vous renseignera sur la façon d'obtenir des informations du MEDI.

APPENDICE I

Noms des secteurs géographiques

Les noms reproduits ci-après sont repris de la Publication spéciale BHI n° 23 (Troisième édition, 1953) - "Limites des océans et des mers", qui contient une définition précise de chaque secteur. Par rapport au système du BHI, la présente liste comporte : (a) de nouvelles subdivisions pour les grands océans ; (b) les noms des secteurs de l'océan Austral (la limite australe de cet océan est le continent antarctique ; sa limite septentrionale, qui est fonction des conditions océanographiques et par exemple de la Convergence antarctique, est typiquement de 50e degré de latitude S) ; (c) l'introduction de l'expression "données mondiales" pour décrire des collections de données couvrant toute la planète. A l'exception de l'expression "données mondiales", la nomenclature utilisée ici est celle de la formule ROSCOP et du système de formatage de données du GF3.

APPENDICE II

Types de données

Les dénominations utilisées sont empruntées à la formule ROSCOP avec de légères modifications. Deux types de données ont été ajoutés : "catalogue de données" ; "inventaire de données".

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Australia
Bulgaria
Canadá
Chile
China
Croacia
Ecuador
Egipto
Finlandia
Alemania
Grecia
India
Iraq
Japón
República de Corea
Países Bajos
Noruega
Pakistán
Panamá
Federación de Rusia
Seychelles
España
Suecia
Reino Unido
Estados Unidos de América

Consejo Internacional para la Exploración del Mar (CIEM)

CUESTIONARIO DE EVALUACION DEL PRODUCTO

PREFACIO

El Sistema de Reenvío a las Fuentes de Datos e Información relativos al Medio Marino (MEDI) contiene descripciones técnicas normalizadas de las colecciones de datos de las organizaciones participantes. El MEDI fue creado a finales de la década de los 70 por recomendación del Grupo de Trabajo de la Comisión Oceanográfica Intergubernamental (COI) sobre Intercambio Internacional de Datos Oceanográficos. Su objetivo es promover la capacidad de servicio de los centros de datos marinos proporcionando a los usuarios información acerca de la localización y disponibilidad de los datos sobre el medio ambiente de las organizaciones e instituciones de todo el mundo. La primera edición del Catálogo del MEDI data de 1979 y desde entonces el Centro de Coordinación COI-MEDI ha venido publicando periódicamente nuevas ediciones.

En los últimos años, numerosas organizaciones y particulares han mostrado un interés creciente en el tipo de información de repertorio que ofrece el MEDI para atender a las necesidades de los nuevos programas de investigación mundiales, muy en particular el Programa Mundial sobre el Clima y el Programa sobre Cambios a Escala Mundial y actividades conexas. El MEDI ha sido concebido para facilitar información sobre organizaciones e instituciones que posean colecciones de datos oceanográficos especialmente cuando éstas ofrecen amplio interés internacional.

La COI proyecta utilizar el MEDI como una base de datos de fines múltiples dirigida a programas de intereses variados, muchos de ellos de carácter pluridisciplinario. La existencia de una fuente de información uniforme y única a través de la COI supondrá que los centros sólo tendrán que comunicar sus datos al Centro de Coordinación del MEDI para ponerse en contacto con la comunidad oceanográfica internacional.

La publicación de esta versión de la base de datos MEDI ha corrido a cargo de la COI en colaboración con el Centro Mundial de Datos A, Oceanografía. Se prevé que las actualizaciones de la información disponible que reciba el Centro de Coordinación COI-MEDI se publicarán regularmente y se comunicarán a todas las partes interesadas.

COMO PREPARAR UN REGISTRO PARA EL MEDI

Justificación

El MEDI es un sistema de repertorio para conjuntos de datos, catálogos de datos e inventarios de datos del sistema de Intercambio Internacional de Datos e Información Oceanográficos (IODE) de la COI. Los registros se hacen deliberadamente sencillos para que puedan ser acopiados y difundidos lo más rápidamente posible.

Tomándose el tiempo de elaborar un registro de MEDI para su organización, pondrá los datos que usted o su organización poseen a disposición del número cada vez mayor de científicos y usuarios relacionados con el océano que están buscando datos. Para acelerar el registro de los datos y transmitir la información del repertorio a los usuarios lo más pronto posible, preferiríamos que siguiera las instrucciones dadas a continuación. Si tiene usted un documento que contiene ya toda o casi toda la información solicitada, puede usarlo como otro método de presentar la información. Su conjunto de datos puede ser precisamente el que los usuarios están necesitando. Asegúrese de que la información les llegue preparando su registro de MEDI ¡ya mismo!

Redacción del registro

Cada registro del MEDI comienza con una sección descriptiva del organismo que posee los datos. A continuación, una o más secciones, cada una de las cuales contiene una descripción de un solo conjunto de datos, catálogo de datos o inventario de datos que posee el organismo.

Descripción del organismo

La sección del registro de MEDI que describe el organismo debe contener tres elementos: el nombre del organismo, su dirección y una descripción en palabras sencillas. Dé la dirección a la que pueden dirigirse los usuarios, indicando la dirección postal y cablegráfica y demás señas, según el caso: teléfono, fax, télex, correo electrónico y red de comunicaciones. En su descripción, mencione cualesquier condiciones y procedimientos especiales para el suministro de datos.

Ejemplo

Nombre del organismo:
Dirección para los servicios:
Dirección:

Descripción

El US NODC es un NODC del sistema IODE que opera un WDC-A, Oceanografía, y RNODC de IGOSS y CARIPOL. Los conjuntos de datos archivados de los NODC pueden obtenerse en el US NODC, en copias de cinta magnética de subconjuntos de datos

determinados. Para los grandes archivos mundiales, también hay datos disponibles en impresiones formateadas, resúmenes de datos, análisis y diagramas. Estos archivos se seleccionan por número de crucero (archivo de cruceros) y mediante un sistema de cuadrícula geográfica (Geoarchivo). Los conjuntos de datos en formatos de quien los origina se suministran sólo como copias directas de cintas enteras de datos. No se pueden hacer subconjuntos. Los archivos de datos, así como los productos, los inventarios, y la información sobre costo, se describen en mayor detalle en la Guía de los Usuarios de NODC (que puede obtenerse dirigiéndose a la dirección anterior). Los datos están en cintas de 1600 bpi a menos que se mencione que están en cintas de 6250 bpi.

Descripción de una colección de datos

El registro de MEDI que describa la colección de datos debe contener el nombre de la colección, identificaciones que describan la colección en términos generales, y un resumen en lenguaje corriente. El resumen da información adicional que puede ayudar al usuario a elegir un conjunto de datos. Para los campos de identificación, la COI ha condensado un subconjunto de campos del Formato de Intercambio de Directorios (DIF) que parecen los más adecuados para los datos oceánicos y relacionados con el océano, y sería preferible que los nuevos registros que se envíen se ajusten tanto como sea posible al esquema presentado a continuación.

El esquema simplificado de registro de DFI es el siguiente:

ARCHIVO:	Escribir el nombre del archivo tal como lo usa el organismo que mantiene la colección de datos.
COBERTURA GEOGRAFICA:	Escoger nombres de la lista del Anexo I.
PERIODO DE TIEMPO:	Indicar la fecha de comienzo y la fecha de terminación, cuando proceda.
PARAMETROS:	Escoger nombres de la lista tipo de datos que figura en el Anexo II basada en la utilizada en el informe de resúmenes de cruceros oceanográficos adoptado recientemente por la COI. Como esta lista es específica para el acopio de los buques oceanográficos, la lista de parámetros puede ser complementada con nombres adicionales utilizando cualquier parámetro que la institución que mantiene los datos considere apropiado.
SENSOR:	Indicar los tipos de instrumentos utilizados para recolectar los datos. Dejar en blanco si el tipo de instrumento no se presta para una colección de datos.

TAMAÑO DEL ARCHIVO: Dar el número de estaciones y observaciones y, si procede, el tamaño en términos de bytes o el equivalente.

MATERIAL Y FORMATO DE LOS DATOS ALMACENADOS: Indicar en qué material están archivados los datos. Para los datos que se hallan en cinta o disco magnéticos, indicar la información general del formato para precisar si está en formato local o en uno internacionalmente reconocido, como el GF3.

RESUMEN EN LENGUAJE CORRIENTE: Añadir en lenguaje corriente cualquier información que pueda ayudar a los posibles usuarios a seleccionar los archivos que pueden ser necesarios para satisfacer los objetivos de un programa o un proyecto de investigación. Entre dichos elementos podrían mencionarse las fuentes de los datos, por ejemplo, si se utilizaron exclusivamente fuentes nacionales o bien algunas extranjeras para recopilar el conjunto de datos, si hay restricciones acerca de la disponibilidad de los datos que el usuario deba conocer, si la colección de datos estaba asociada con un proyecto nacional o internacional que no figura en la denominación del archivo, si se trata de una parte de una serie cronológica larga y si es útil para estudiar los cambios climáticos, si hay determinadas características de calidad que el usuario deba conocer. Si no hay nada especial que añadir, deje este campo en blanco.

Ejemplo

CENTRO DE DATOS: NODC (EE.UU.)
ARCHIVO: Serie Cronológica del Pacífico Norte
COBERTURA GEOGRAFICA: Región de la Corriente de California
PERIODO DE TIEMPO: Mayo de 1952 a mayo de 1986
PARAMETROS: Temperatura, salinidad, oxígeno, nutrientes, pH, color y transparencia del agua
SENSOR O INSTRUMENTOS: Lanzamiento de varias botellas de Nansen con termómetros inversores, tomamuestras de agua, y STD/CTD
TAMAÑO DEL ARCHIVO: 38.081 estaciones; 98.018.712 bytes
MATERIAL Y FORMATO DE LOS DATOS ALMACENADOS: Cintas magnéticas en formato NODC SDII
RESUMEN EN LENGUAJE CORRIENTE: Este archivo contiene datos físicos y químicos oceanográficos registrados a niveles discretos de profundidad; el 5% se obtuvieron mediante instrumentos CTD o STD. Los datos CTD y STD fueron remitidos a NODC a niveles de profundidad equivalentes a datos de lanzamientos Nansen, y están procesados y archivados

igual que los datos Nansen. Se computan valores de velocidad del sonido, sigma -t y anomalía de profundidad dinámica. Para cada estación se da información respecto al crucero, a la posición, la fecha y la hora, y cada estación contiene las medidas tomadas a niveles observados, pero también incluye valores de datos interpolados en un conjunto de niveles de profundidad estándar.

Envío de su registro de MEDI

La forma más rápida de presentar su registro de MEDI es enviarlo como mensaje por correo electrónico a la Secretaría de la COI (Omnet) indicando que se trata de "INSUMO MEDI".

Si no puede utilizar este medio, envíe el registro MEDI en disco flexible (de 3,5" o de 5,25", de baja o alta densidad) compatible con computadora personal IBM. Lo mejor es un registro en texto DOS, pero también se pueden aceptar los formatos de procesador de texto más comunes.

Otra posibilidad es enviar el registro MEDI en papel.

Los registros MEDI en disco flexible y papel deben dirigirse a:

Centro de Coordinación de MEDI
Comisión Oceanográfica Intergubernamental
COI
1, rue Miollis
75732 París Cedex 15
Francia
Teléfono: 33(1) 45 68 40 46
Fax: 33(1) 40 56 93 16
Tlm: IOC.SECRETARIAT (Omnet)

Este mismo centro le dará detalles sobre cómo obtener información de MEDI.

ANEXO I

Denominaciones de zonas geográficas

Estas denominaciones se basan en las de la Publicación especial I.H.B N° 23 (Tercera Edición, 1953) - "Límites de los océanos y de los mares", que contiene una definición precisa de cada zona. Entre las modificaciones del I.H.B. se cuentan la adición de subdivisiones de los grandes océanos y de nuevos epígrafes correspondientes al Océano Austral (el límite meridional -el Continente Antártico, cuyo límite septentrional depende de las condiciones oceanográficas, por ejemplo la convergencia antártica, y es por lo común 50° S) y la utilización de la denominación "mundial" para describir colecciones de datos de cobertura mundial. Exceptuando la denominación "mundial", también se usan las mismas denominaciones en el formato ROSCOP y en el sistema de formateado de datos GF3.

DENOMINACIONES DE ZONAS OCEANICAS Y MARINAS

Mundial
Mar Báltico
    Golfo de Botnia
    Golfo de Finlandia
    Golfo de Riga
Kattegat, Canal y fajas costeras
Skagerrak
Mar del Norte
Mar de Groenlandia
Mar de Noruega
Mar de Barents
Mar Blanco
Mar de Kara
Mar de Laptev (o Nordenskjöld)
Mar de Siberia Oriental
Mar de Chukots
Mar de Beaufort
Pasos Nordoccidentales
  de la Bahía de Baffin
Estrecho de Davis
    Mar del Labrador
Bahía de Hudson
    Estrecho de Hudson
Océano Artico
    Mar de Lincoln
Mares Interiores fuera de la Costa
  Occidental de Escocia
Mar de Irlanda y Canal de San Jorge
Canal de Bristol
Canal de Inglaterra
Golfo de Vizcaya
Océano Atlántico Septentrional
    Atlántico NE (Límite 40° 0)
    Atlántico NO (Límite 40° 0)
    Estrecho de Malaca
    Estrecho de Singapur
Golfo de Tailandia (Siam)
Archipiélago de las Indias Orientales
(Indonesia)
    Mar de Sulu
    Mar de las Célebes
    Mar de las Molucas
    Golfo de Tomini
    Mar de Halmahera
    Mar de Ceram
    Mar de Banda
    Mar de Arafura
    Mar de Timor
    Mar de Flores
    Golfo de Boni
    Mar de Bali
    Estrecho de Makassar
    Mar de Java
    Mar de Savu
Mar Meridional de la China (Nan Hai)
Mar Oriental de la China (Tung Hai)
Mar Amarillo (Hwang Hai)
Mar del Japón
Mar Interior (Seto Nakai)
Mar de Ojotsk

Mar Interior (Seto Nakai)
Mar de Ojotsk
Mar de Bering
Mar de Filipinas
Océano Pacífico Septentrional
    Pacífico NE (Límite 180°)
    Pacífico NO (Límite 180°)
Golfo de Alaska
Aguas Costeras del Sudeste de Alaska y de Columbia Británica
Golfo de California
Océano Pacífico Meridional
    Pacífico SE (Límite 140° 0)
    Pacífico SO (Límite 140° 0)
Gran Bahía Australiana
    Estrecho de Bass
Mar de Tasmania
Mar de Coral
Mar de Salomón
Mar de Bismarck
Océano Austral
    Sector Atlántico de '700'
    Sector Indico de '700'
    Sector Pacífico de '700'
Zonas terrestres
Golfo de San Lorenzo
Bahía de Fundy
Golfo de México
Mar Caribe
Mar Mediterráneo
    Cuenca Occidental
    Cuenca Oriental
    Estrecho de Gibraltar
    Mar de Alborán
    Mar de las Baleares (o Mar Ibérico)
    Mar Ligur
    Mar Tirreno
    Mar Jónico
    Mar Adriático
    Mar Egeo (el Archipiélago)
Mar de Mármara
Mar Negro
Mar de Azov
Océano Atlántico Meridional
    Atlántico SE (Límite 20° 0)
    Atlántico SO (Límite 20° 0)
Río de la Plata
Golfo de Guinea
Golfo de Suez
Golfo de Aqaba
Mar Rojo
Golfo de Adén
Mar de Arabia
Golfo de Omán
Golfo Pérsico[1]
Mar de Laccadive
Bahía de Bengala
Mar de Andamán o Birmania
Océano Indico
    Canal de Mozambique

1 Golfo Pérsico: Cambiado, en lugar de Golfo de Irán (Ref. ASFIS Reference Series, N° 7, Rev. 2, FAO, 1992)

ANEXO II

Tipos de datos

Las denominaciones siguientes se han adaptado de las que se utilizan en el formulario ROSCOP con ligeras modificaciones. Se añaden los tipos de datos "Catálogo de datos" e "Inventario de datos".

DATOS GENERALES

Catálogo de datos
Inventario de datos

OCEANOGRAFIA FISICA

Mediciones superficiales en ruta T, S
Calados de batitermógrafo
Estaciones de botellas de agua
Estaciones CTD
Mediciones submarinas en ruta T, S
Cadena de termistores
Transparencia (p.e. transmisómetro)
Optica (p.e. niveles de luz submarinos)
Trazadores geoquímicos (p.e. freones)
Correntímetros
Trazador de perfiles de corrientes (p.e. ADCP)
Corrientes deducidas de la deriva
GEK
Flotadores/boyas a la deriva
Flotadores en deriva neutral
Mediciones del nivel del mar (incluidos registradores de presión del fondo y ecosondas invertidas)
Mediciones del oleaje con instrumentos
Otras mediciones de oceanografía física

OCEANOGRAFIA QUIMICA

Oxígeno
Dióxido de carbono
Otros gases disueltos
Fosfatos
Fósforo total
Nitratos
Nitritos
Nitrógeno total
Amoníaco
Silicatos

Alcalinidad
pH
Elementos traza
Radiactividad
Isótopos
Otras mediciones de oceanografía química

CONTAMINACION

Sólidos en suspensión
Metales traza
Residuos del petróleo
Hidrocarburos clorados
Otras sustancias disueltas
Depósitos bentónicos
Organismos contaminados
Otras mediciones de contaminantes

BIOLOGIA Y PESCA

Producción primaria
Pigmentos fitoplanctónicos (p.e. clorofila, fluorescencia)
Materia orgánica granulosa (p.e. POC, PON)
Materia orgánica disuelta (p.e. DOC)
Mediciones de bioquímica (p.e. lípidos, aminoácidos)
Trampas de sedimentos
Fitoplancton
Zooplancton
Seston

Neuston
Necton
Huevos y larvas
Bacterias y microorganismos pelágicos
Bacterias y microorganismos bentónicos
Fitobentos
Zoobentos
Aves
Mamíferos y reptiles
Peces pelágicos
Peces demersales
Moluscos
Crustáceos
Reflexión acústica sobre organismos marinos
Marcado
Ensayo de equipo y aparejos
Pesca exploratoria
Otras mediciones de biología y pesca

METEOROLOGIA

Observaciones aerológicas
Radiación incidente
Mediciones ordinarias ocasionales
Mediciones ordinarias
Química atmosférica
Otras mediciones meteorológicas

GEOLOGIA Y GEOFISICA

Muestras por dragado
Muestras por excavación
Testigos (fondos rocosos)
Testigos (fondos blandos)
Fotografía del fondo
Mediciones del fondo in situ
Mediciones geofísicas efectuadas a profundidad (cerca de la superficie y por encima del fondo)
Ecosonda de haz único
Ecosonda de haz múltiple
Sonar de barrido lateral de largo/corto alcance
Reflexión sísmica de canal único
Reflexión sísmica de varios canales
Refracción sísmica
Gravimetría
Magnetismo
Otras mediciones de geología y geofísica

СОДЕРЖАНИЕ

ПРЕДИСЛОВИЕ
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Египет
Индия
Ирак
Испания
Канада
Китай
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Пакистан
Панама
Российская Федерация
Сейшельские острова
Соединенное Королевство
Соединенные Штаты Америки
Финляндия
Хорватия
Чили
Швеция
Эквадор
Япония

Международный совет по исследованию моря (МСИМ)

ВОПРОСНИК ПО ОЦЕНКЕ ПРОДУКЦИИ

ПРЕДИСЛОВИЕ

Справочная система по источникам данных и информации о морской среде (МЕДИ) содержит технические описания фондов океанографических данных участвующих организаций, представленные в стандартной форме. МЕДИ была разработана в конце 70–х годов по рекомендации Рабочей группы Межправительственной океанографической комиссии по международному обмену океанографическими данными и информацией. Цель МЕДИ заключается в том, чтобы увеличить обслуживающие возможности центров океанографических данных для обеспечения пользователей информацией о местонахождении и наличии данных об окружающей среде, которые имеются в распоряжении организаций и учреждений во всем мире. Первое издание каталога МЕДИ было выпущено в 1979 г.; с этого времени новые издания Каталога периодически публикуются Координационным центром МОК МЕДИ.

За последние годы многие организации и отдельные лица проявляют возросший интерес к тому типу справочной информации, которая имеется у МЕДИ, для удовлетворения потребностей новых глобальных исследовательских программ. Это особенно справедливо в отношении всемирных программ по изучению климата и глобальных изменений и связанных с ними мероприятий. МЕДИ должна обеспечивать информацию об организациях/учреждениях, имеющих фонды океанографических данных, особенно, которые представляют широкий международный интерес.

МОК планирует использовать МЕДИ в качестве базы данных многоцелевого назначения, ориентированной на программы, представляющие широкий интерес. Многие эти программы по своему характеру многодисциплинарны. Наличие единого, унифицированного источника информации, которым можно пользоваться через МОК, будет означать, что для охвата международного океанографического сообщества от центров потребуется только предоставление информации в Координационный центр МЕДИ.

Этот опубликованный вариант базы данных МЕДИ был подготовлен МОК при содействии мирового центра данных–А (Океанография). Дополнения к имеющейся информации, полученной Координационным центром МЕДИ (МОК), планируется регулярно публиковать и распространять среди всех заинтересованных сторон.

КАК ГОТОВИТЬ ДАННЫЕ ДЛЯ ВВОДА В СИСТЕМУ МЕДИ

Для чего это нужно?

МЕДИ представляет собой справочную систему для наборов, каталогов и перечней данных в рамках системы МОК по Международному обмену океанографическими данными (МООД). Вводимые данные намеренно оформляются в упрощенном виде с тем, чтобы их можно было собирать и распространять как можно быстрее.

Затрачивая время на подготовку данных МЕДИ по вашей организации, вы будете обеспечивать доступ к хранимым вами или вашей организацией данным для все более широкого круга ученых и океанографических пользователей, которые в них нуждаются. В целях ускорения ввода данных и как можно более быстрого предоставления пользователям справочной информации было бы предпочтительно, чтобы вы следовали указанным ниже интрукциям. Если вы располагаете документом, который уже содержит всю или почти всю требуемую информацию, вы можете использовать его в качестве альтернативного метода предоставления сведений. Ваш набор данных может оказаться именно тем, который ищут пользователи; обеспечьте им возможность найти его; оформите ваши данные МЕДИ сегодня... прямо сейчас!

Оформление представляемых вами данных

Все представляемые данные МЕДИ начинаются с раздела, описывающего организацию, располагающую данными. За ним следует один или несколько разделов, в каждом из которых содержится описание одного набора данных, каталога данных или перечня данных, имеющихся в этой организации.

Описание организации

Раздел формы МЕДИ, описывающий организацию, должен содержать три компонента: название организации, адрес организации и некодированный описательный текст. Указывайте адрес, куда пользователи могут направлять запросы. В адресе указываются сведения для почты, телефона, факса, телекса, телеграфа, электронной почты и коммуникационных сетей при наличии таковых. В вашем описании указывайте любые особые условия и процедуры для предоставления данных.

Пример

Название организации: National Oceanographic Data Center
Предоставление услуг: User Services Branch
Адрес: NOAA/NESDIS/E/OC21
Washington, DC 20235
USA
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SPAN: NODC::SERVICES

Описание:

Национальный центр океанографических данных США является НЦОД в системе МООД и выполняет функции МЦД–А (Океанография) и ОНЦОД для ОГСОС и КАРИПОЛ. Хранящиеся наборы данных НЦОД можно получить в ОНЦОД США в виде копии конкретных поднаборов данных на магнитной ленте. В отношении основных глобальных файлов данные предоставляются также в виде форматированных распечаток, резюме, анализов и графиков. Эти файлы классифицируются по номеру экспедиции (файлы экспедиции) и по географической системе координат (гео–файлы). Наборы данных в форматах производителей данных предоставляются только в виде непосредственных копий целых лент данных. Поднаборы получить нельзя. Файлы данных, а также продукты данных, перечни и информация о стоимости более подробно описываются в Практическом руководстве НЦОД (имеющемся по вышеуказанному адресу). Данные предоставляются на пленках 1600 байт/дюйм, если не указываются пленки с 6250 байт/дюйм.

Описание имеющихся данных

Форма МЕДИ, описывающая имеющиеся данные, должна указывать наименование хранимых данных, идентификаторы, дающие о них общее представление, а также описательное резюме. В резюме содержится дополнительная информация, которая может помочь пользователю выбрать набор данных. Для полей идентификаторов МОК выделила поднабор полей Справочного формата взаимообмена Directory Interchange Format (DIF), который представляется наиболее приемлемым для океанических и связанных с океаном данных, и предпочла бы получать новые данные, составленные по возможности согласно приводимой ниже схеме.

Упрощенное описание сообщения **DIF** выглядит следующим образом:

FILE	Запишите наименование файла в том виде, как оно используется организацией, хранящей данные.
GEOGRAPHIC COVERAGE	Выберите названия из списка в Приложении I.
TIME PERIOD	Укажите в надлежащих случаях начальную и конечную даты.
PARAMETERS	Выберите названия из списка типов данных, приведенного в Приложении II, основанного на перечне, используемом в справочнике "Краткий экспедиционный отчет", который недавно был принят МОК. Поскольку этот список конкретно касается данных, собираемых океанографическим судном, список параметров может быть пополнен дополнительными названиями с использованием любых параметров, которые сочтут целесообразными учреждения, хранящие данные.

SENSOR/INSTRUMENT	Укажите типы приборов, используемых для сбора данных; оставьте пропуск в том случае, если тип прибора не соответствует хранящимся данным.
FILE SIZE	Укажите количество станций/наблюдений и, в надлежащих случаях, объем в байтах или эквивалентных единицах.
STORAGE MEDIA /FORMAT	Укажите носитель, на котором хранятся данные; для данных на магнитной ленте или на магнитном диске укажите общие сведения о формате, т.е. является ли он местным форматом или одним из таких международно признанных форматов, как ОФ–3.
ОПИСАТЕЛЬНОЕ РЕЗЮМЕ	Добавьте некодированным текстом любую информацию, которая могла бы помочь потенциальным пользователям в выборе файлов, требующихся для достижения целей исследовательской программы или проекта. Среди этих аспектов могут указываться сведения об источниках данных, например, о том, являются ли все они национальными или для составления набора данных использовались иностранные источники. Имеются ли ограничения для доступа к данным, о которых должен быть уведомлен пользователь? Был ли связан этот массив данных с национальным или международным проектом, который не указан в наименовании файла? Являются ли они частью длительного временного ряда и пригодны ли они для изучения климатических изменений? Имеются ли некоторые особые характеристики, о которых должен быть уведомлен пользователь? Если у вас нет никаких особых дополнительных сведений, вы можете оставить в этом поле пропуск.

Образец:

ЦЕНТР ДАННЫХ: НЦОД (США)
ФАЙЛ: Временные ряды по северной части Тихого океана
ГЕОГРАФИЧЕСКИЙ ОХВАТ: район Калифорнийского течения
ПЕРИОД ВРЕМЕНИ: май 1952 г. – май 1986 г.
ПАРАМЕТРЫ: температура, соленость, содержание кислорода, питательных веществ, pH, цвет, прозрачность воды
ДАТЧИК/ПРИБОР: многоемкостные батометры Нансена с опрокидывающимися термометрами, водоотборники и датчики СТД/КТД
РАЗМЕР ФАЙЛА: 38 081 станция; 98 018 712 байтов
НОСИТЕЛЬ/ФОРМАТ ХРАНИМЫХ ДАННЫХ: магнитные ленты в формате НЦОД SD II
ОПИСАТЕЛЬНОЕ РЕЗЮМЕ: Этот файл содержит физико–химические океанографические данные, записанные на дискретных уровнях глубины с интервалом в 5% с использованием датчиков КТД или СТД. Данные КТД/СТД передавались в НЦОД

по уровням глубины, эквивалентным данным замеров по Нансену; они обработаны и хранятся аналогично данным Нансена. Показатели скорости звука, сигма–t и динамических глубинных аномалий получены методом расчета. Информация об экспедиции, местонахождение, дата и время сообщаются по каждой станции: по каждой станции приводятся измерения, сделанные на уровнях наблюдений, а также указываются значения данных, интерполированные по набору стандартных уровней глубины.

Отсылка ваших данных МЕДИ

Наиболее быстрым способом предоставления ваших данных МЕДИ является их отсылка электронной почтой по адресу: IOC.SECRETARIAT (Omnet) с указанием темы: "MEDI INPUT".

Если вам не удается воспользоваться этим средством, вы можете предоставить данные МЕДИ на гибком диске (3 1/2" или 5 1/4", с низкой или высокой плотностью), совместимом с IBM-PC. Лучше использовать простой текстовый файл DOC, но приемлемыми могут быть также и наиболее распространенные форматы файлов для текстовых процессоров.

В других случаях отсылайте данные МЕДИ просто на бумаге по почте или с помощью факса.

Сообщения МЕДИ на гибком диске и на бумаге следует направлять по адресу:

MEDI Co-ordinating Centre
Intergovernmental Oceanographic Commission
IOC
1, rue Miollis
75732 Paris Cedex 15
France
Tel: (33) (1) 45 68 40 46
Fax: (33) (1) 40 56 93 16
Tlm: IOC.SECRETARIAT (Omnet)

В этом же центре вам подробно сообщат о том, как можно получить информацию из МЕДИ.

ПРИЛОЖЕНИЕ I

НАЗВАНИЕ ГЕОГРАФИЧЕСКИХ РАЙОНОВ

Эти названия основаны на Специализированной публикации МГБ N 23 (третье издание, 1953 г.) – "Границы океанов и морей", которая содержит точное определение каждого района. К числу изменений, внесенных в систему МГБ, относится более подробное деление основных океанов и включение данных по южным океанам (Южная граница – Антарктический континент; северная граница зависит от океанографических условий, например антарктической конвергенции, и обычно проходит по 50° южной широты) и использование термина "глобальные" для описания хранящихся данных с охватом во всемирном масштабе. За исключением термина "глобальные" аналогичные названия применяются в системе кодирования данных ОФ–3.

НАЗВАНИЕ ОКЕАНОВ И МОРЕЙ

Global
Baltic Sea
  Gulf of Bothnia
  Gulf of Finland
  Gulf of Riga
Kattegat, Sound and Belts
Skagerrak
North Sea
Greenland Sea
Norwegian Sea
Barents Sea
White Sea
Kara Sea
Laptev (or Nordenskjold) Sea
East Siberian Sea
Chukchi Sea
Beaufort Sea
The Northwestern Passages
  Baffin Bay
Davis Strait
  Labrador Sea
Hudson Bay
  Hudson Strait
Arctic Ocean
  Lincoln Sea
Inner Seas off the West Coast of Scotland
Irish Sea and St. George's Channel
Bristol Channel
English Channel
Bay of Biscay
North Atlantic Ocean
  NE Atlantic (Limit 40 W)
  NW Atlantic (Limit 40 W)
  Malacca Strait
  Singapore Strait
Gulf of Thailand (Siam)
East Indian Archipelago (Indonesia)
  Sulu Sea
  Celebes Sea
  Molukka Sea
  Gulf of Tomini
  Halmahera Sea
  Ceram Sea
  Banda Sea
  Arafura Sea
  Timor Sea
  Flores Sea
  Gulf of Boni
  Bali Sea
  Makassar Strait
  Java Sea
  Savu Sea
South China Sea (Nan Hai)
Eastern China Sea (Tung Hai)
Yellow Sea (Hwang Hai)
Japan Sea
Inland Sea (Seto Naikai)
Sea of Okhotsk
Bering Sea
Philippine Sea
North Pacific Ocean
  NE Pacific (Limit 180 deg.)
  NW Pacific (Limit 180 deg.)
Gulf of Alaska
Coastal Waters of SE Alaska and British Columbia
Gulf of California
South Pacific Ocean
  SE Pacific (Limit 140 W)
  SW Pacific (Limit 140 W)
Great Australian Bight
  Bass Strait
Tasman Sea
Coral Sea
Solomon Sea
Bismarck Sea
Southern Ocean
  Atlantic Sector of Southern Ocean
  Indian Ocean Sector of Southern Ocean
  Pacific Sector of Southern Ocean
Land Areas
Gulf of St. Lawrence

Bay of Fundy
Gulf of Mexico
Caribbean Sea
Mediterranean Sea
  Western Basin
  Eastern Basin
  Strait of Gibraltar
  Alboran Sea
  Balearic Sea (or Iberian Sea)
  Ligurian Sea
  Tyrrhenian Sea
  Ionian Sea
  Adriatic Sea
  Aegean Sea (The Archipelago)

Sea of Marmara
Black Sea
Sea of Azov
South Atlantic Ocean
  SE Atlantic (Limit 20 W)
  SW Atlantic (Limit 20 W)
Rio de La Plata
Gulf of Guinea
Gulf of Suez
Gulf of Aqaba
Red Sea
Gulf of Aden
Arabian Sea
Gulf of Oman
Persian Gulf [1]
Laccadive Sea
Bay of Bengal
Andaman or Burma Sea
Indian Ocean
  Mozambique Channel

1. Персидский залив: В английском языке ранее употреблялось название Иранский залив (Gulf of Iran) (см. ASFIS Reference Series, No 7, Rev.2, FAO, 1992)

ПРИЛОЖЕНИЕ II

Типы данных

Эти названия приняты на основе терминов, используемых для формы РОСКОП с незначительными изменениями. Были добавлены типы данных "Каталог данных" и "Опись данных".

ОБЩИЕ ДАННЫЕ

Data catalogue
Data inventory

ФИЗИЧЕСКАЯ ОКЕАНОГРАФИЯ

Surface measurements underway (T°,S°/$_{oo}$)
Bathythermograph drops
Water bottle stations
CTD stations
Subsurface measurements underway (T°,S°/$_{oo}$)
Thermistor chain
Transparency (e.g., transmissometer)
Optics (e.g., underwater light levels)
Geochemical tracers (e.g., freons)
Current meters
Current profiler (e.g., ADCP)
Currents measured from ship drift
GEK
Surface drifters/drifting buoys
Neutrally buoyant floats
Sea level measurements (including bottom pressure recorders & inverted echo-sounders)
Instrumented wave measurements
Other physical oceanographic measurements

ХИМИЧЕСКАЯ ОКЕАНОГРАФИЯ

Oxygen
Carbon dioxide
Other dissolved gases
Phosphates
Total-P
Nitrates
Nitrites
Total-N
Ammonia
Silicates
Alkalinity
pH
Trace elements
Radio activity
Isotopes
Other chemical oceanographic measurements

ЗАГРЯЗНЕНИЕ

Suspended matter
Trace metals
Petroleum residues
Chlorinated hydrocarbons
Other dissolved substances
Bottom deposits
Contaminants in organisms
Other contaminant measurements

БИОЛОГИЯ И РЫБОЛОВСТВО

Primary productivity
Phytoplankton pigments (e.g., chlorophyll, fluorescence)
Particulate organic matter (e.g., POC, PON)
Dissolved organic matter (e.g., DOC)
Biochemical measurements (e.g., lipids, aminoacids)
Sediment traps
Phytoplankton
Zooplankton
Seston
Neuston
Nekton
Eggs/Larvae
Pelagic bacteria.micro organisms
Benthic bacteria/micro-organisms
Phytobenthos
Zoobenthos
Birds
Mammals & reptiles
Pelagic fish
Demersal fish
Molluscs
Crustaceans
Acoustic reflection on marine organisms
Tagging
Gear research
Exploratory fishing
Other Biological/fishery measurements

МЕТЕОРОЛОГИЯ

Upper air observations
Incident radiation
Occasional standard measurements
Routine standard measurements
Atmospheric chemistry
Other meteorological measurements

ГЕОЛОГИЯ И ГЕОФИЗИКА

Dredge
Grab
Core - rock
Core - soft bottom
Bottom photography
In-situ sea floor measurements
Geophysical measurements made at depth (below near surface & above sea floor)
Single-beam echo sounding
Multi-beam echo sounding
Long/short range side scan sonar
Single channel seismic reflection
Multichannel seismic reflection
Seismic refraction
Gravity measurements
Magnetic measurements
Other geological or geophysical measurements

ARGENTINA

ORGANIZATION

NAME: Centro Argentino de Datos Oceanograficos (CEADO)
CONTACT: Director
ADDRESS: Av. Montes de Oca 2124
Buenos Aires 1271
ARGENTINA
Tel: (54) (1) 21 00 61/67 (Ext. 59)
Fax: (54) (1) 21 77 97
Tlx: 21338 RACEL AR (Attn: SIHN)

DESCRIPTION

The Argentine Oceanographic Data Centre (CEADO), created in 1974, has been organized having a dependence of the Navy Hydrographic Service (SHN) and the National Scientific and Technical Research Council (CONICET), a governmental organism depending on the Secretary of Science and Technology. The principal aim of the CEADO is to acquire, control quality, process and store the oceanographic data in areas of national interest, to provide adequate information to the scientific community, private and public enterprises and other marine users. The CEADO performs the specific functions of a National Oceanographic Data Centre established by the Intergovernmental Oceanographic Commission (IOC) within the International Oceanographic Data and Information Exchange system (IODE) structured by that Commission. In 1987, the CEADO received its accreditation to operate as a Responsible National Oceanographic Data Centre for the Southern Oceans (RNODC/SOC) within the IODE System, having as its principal aim to collaborate with World Data Centres in all matters related to physical and chemical oceanographic data obtained by the countries within the area south to parallel 50° South Latitude. In 1990, the CEADO was accredited by the IOC and the World Meteorological Organization (WMO) to operate as a Specialized Oceanographic Center within the Integrated Global Ocean Services System (IGOSS) covering an area of responsibility in the South Atlantic Ocean.

FILE DESCRIPTIONS

DATA CENTRE: Centro Argentino de Datos Oceanograficos (CEADO).

FILE: FQ (Fisico-quimicos) C1832.
GEOGRAPHIC COVERAGE: SW Atlantic and SE Pacific.
TIME PERIOD: 1911 - present.
PARAMETERS: wind, oil, waves, water T°, water color, transparency, $S°/_{oo}$, O_2, phosphates, nitrites, nitrates, silicates, pH and alkalinity.
SENSOR/INSTRUMENT: Multi-bottle Nansen cast with reversing thermometers, other water samplers and STD/CTD.
FILE SIZE: 30,439 stations; 69998 Kb.
STORAGE MEDIA/FORMAT: Disk in local format.
NARRATIVE SUMMARY: Physico-chemical data file which stores all data obtained during national and foreign cruises.

DATA CENTRE: Centro Argentino de Datos Oceanograficos (CEADO).

FILE: BT (Batitermografico) C1842C12.
GEOGRAPHIC COVERAGE: SW Atlantic; Rio de la Plata and SE Pacific.
TIME PERIOD: 1954 - present.
PARAMETERS: T°, depth.
SENSOR/INSTRUMENT: MBT and XBT.
FILE SIZE: 47,000 observations; 18985 Kb.
STORAGE MEDIA/FORMAT: Disk in local format.
NARRATIVE SUMMARY: Bathythermographic data file which stores all temperature versus depth each 5 meters obtained during national and foreign cruises.

DATA CENTRE: Centro Argentino de Datos Oceanograficos (CEADO).

FILE: SOC (Fisico-quimicos de los Oceanos Australes) C35SOC.
GEOGRAPHIC COVERAGE: Southern Oceans (all sectors).
TIME PERIOD: 1911 - present.
PARAMETERS: Wind, waves, water T°, water color, transparency, S°/$_{oo}$, O_2, phosphates, nitrites, nitrates, silicates, pH, and alkalinity.
SENSOR/INSTRUMENT: Multi-bottle Nansen cast with reversing thermometers, other water samplers and STD/CTD.
FILE SIZE: 10,353 stations; 29700 Kb.
STORAGE MEDIA/FORMAT: Disk in local format.
NARRATIVE SUMMARY: Physico-chemical and nutrients data file which stores all data obtained during national and foreign cruises.

DATA CENTRE: Centro Argentino de Datos Oceanograficos (CEADO).

FILE: EF (Estaciones Fijas) C3285.
GEOGRAPHIC COVERAGE: SW Atlantic and Rio de la Plata.
TIME PERIOD: 1946 - present.
PARAMETERS: Air T°, sea T°, S°/$_{oo}$.
SENSOR/INSTRUMENT: Thermometers, salinometers.
FILE SIZE: 99,461 observations; 3691 Kb.
STORAGE MEDIA/FORMAT: Disk in local format.
NARRATIVE SUMMARY: The purpose of this file is to offer users data collected daily by coastal stations: air and sea temperature on surface and salinity.

DATA CENTRE: Centro Argentino de Datos Oceanograficos (CEADO).

FILE: IGOSS (Mensajes BATHY-TESAC-TRACKOB).
GEOGRAPHIC COVERAGE: South Atlantic.
TIME PERIOD: 1975 - present.
PARAMETERS: water T°, S°/$_{oo}$, current, wind T°, air T°.
SENSOR/INSTRUMENT: MBT, XBT, CTD, STD.
FILE SIZE: 1,909 Observations, 1800 Kb.
STORAGE MEDIA/FORMAT: Disk in local format.
NARRATIVE SUMMARY: This file stores the data corresponding with the operational programme BATHY-TESAC-TRACKOB of the Integrated Global Ocean Services System (IGOSS).

AUSTRALIA

ORGANIZATION

NAME: National Tidal Facility
CONTACT: Director
ADDRESS: National Tidal Facility
Flinders University of South Australia
G.P.O. Box 2100
Adelaide SA 5001
AUSTRALIA
Tel: (61) (8) 201 75 32
Fax: (61) (8) 201 75 23
Email: motid@pippin.cc.flinders.edu.au (Internet)

DESCRIPTION

The Australian National Tidal Facility (NTF) is responsible for the maintenance of the national tide and sea-level database, and is the national contact for GLOSS and the IGOSS Sea-Level Project - Pacific. The database contains over 1,250 port years of sea-level data. In addition to sea-level time-series, the database contains tidal harmonic constants, time-series of non-tidal residuals, mean sea-levels and extreme level data. Much of the data is provided through the co-operation of local and state port and marine authorities, whose permission may be required for release of data. Data can be provided in a variety of formats and media. The NTF is also responsible for the maintenance of a similar database on behalf of the member states of the Association of South East Asian Nations (ASEAN), and is the operational centre for a long-term sea-level and climate monitoring project in the South Pacific Ocean.

FILE DESCRIPTIONS

DATA CENTRE: National Tidal Facility.

FILE: National Sea-Level Data Base.
GEOGRAPHIC COVERAGE: Arafura Sea, Timor Sea, SW Pacific Ocean, Tasman Sea, Coral Sea, Great Australian Bight, Bass Strait, Southern Ocean, Indian Ocean.
TIME PERIOD: 1897 - present.
PARAMETERS: Tidal observations .
SENSOR/INSTRUMENTS: Variety of tide gauges, mainly float operated analogue recorders
FILE SIZE: 1,250 port years of sea-level data.
STORAGE MEDIA/FORMAT: Rewritable Optical Disk in local format. Data can be provided in GF3 if required.
NARRATIVE SUMMARY: The database contains hourly tidal data, harmonic constants, hourly non-tidal residuals, monthly mean sea-levels, yearly mean sea-levels, annual extreme sea-levels for some 300 stations in the Australasian area.

DATA CENTRE: National Tidal Facility.

FILE: ASEAN Sea-Level Data Base.
GEOGRAPHIC COVERAGE: Malacca Strait, Singapore Strait, Gulf of Thailand, East Indian Archipelago, Sulu Sea, Celebes Sea, Molucca Sea, Bali Sea, Java Sea, South China Sea, Philippine Sea, NW Pacific Ocean.
TIME PERIOD: 1973 - present.
PARAMETERS: Tidal observations.
SENSORS/INSTRUMENTS: Variety of tide gauges, float operated and pressure systems, analogue and digital recorders.
FILE SIZE: 380 port years of sea-level data.
STORAGE MEDIA/FORMAT: IBM compatible PC diskettes.
NARRATIVE SUMMARY: The database contains hourly tidal data for 59 stations in the ASEAN region. The permission of the country or countries concerned is required for the release of data.

DATA CENTRE: National Tidal Facility (Australia).

FILE: Baseline Sea-Level Data Base.
GEOGRAPHIC COVERAGE: Timor Sea, Indian Ocean, SW Pacific Ocean, Tasman Sea, Coral Sea, Great Australian Bight, Bass Strait, Southern Ocean.
TIME PERIOD: May 1990 - present.
PARAMETERS: Tidal observations, meteorological measurements, sea surface T°.
SENSORS/INSTRUMENTS: Acoustic in-air sea-level sensors, anemometers, air and water T° sensors, water pressure sensor, barometric pressure sensor.
FILE SIZE: 12 stations, approx 60 Mbyte per station year.
STORAGE MEDIA/ FORMAT: Rewritable Optical disk in local format.
NARRATIVE SUMMARY: Sea-level and climate data from high resolution monitoring stations, including 6-minute data (average of 181 one-second samples) for sea-level (2 sensors) and hourly data for air temperature, water temperature, wind speed and direction, and maximum wind gust. The stations have been progressively installed since May 1990. Three stations are operated co-operatively with the US National Ocean Service. A similar array of stations is to be installed in the South Pacific region commencing in September 1992.

ORGANIZATION

NAME: Bureau of Meteorology
CONTACT: Data Services, National Climate Centre
ADDRESS: National Climate Centre
Bureau of Meteorology
P.O. Box 1289K
Melbourne, VIC 3001
AUSTRALIA
Tel: (61) (3) 669 40 00
Fax: (61) (3) 669 45 15 (for National Climate Centre (NCC) only)
Fax: (61) (3) 669 46 99 (General Bureau of Meteorology number)

DESCRIPTION

The National Climate Centre is a branch of the Australian Bureau of Meteorology and is responsible for the National Climate Data Archive, which includes numerous manuscript holdings as well as the computer archive for the nation. In addition some other datasets created by such operational areas as the National Meteorological Centre can also be accessed. Very few special marine datasets are held. There are large archives of the Australian surface and upper air land data, and satellite data from the VIS and IR readouts of GMS are also stored. Most data are stored in NCC formats. A charge is made to cover the cost of extracting information for specific requests and more details are available from the NCC itself. NCC will provide data in ASCII/EBCDIC on both 1600 and 6250 bpi tapes, 3,480 cartridges and in the case of smaller requests (less than 20-30 MB) on floppy discs. It should be noted that provision of satellite data in any quantity is very expensive due to the sheer volume of cartridges involved (>3000 and increasing at 365 per year). Extraction of information from the real-time archives is also expensive for similar reasons.

FILE DESCRIPTIONS

DATA CENTRE: National Climate Centre (NCC).

FILE: Sea Surface temperatures.
GEOGRAPHIC COVERAGE: 1° by 1° grid from 70 N to 70 S, all longitudes.
TIME PERIOD: Aug 1988 - present; 7 day means.
PARAMETERS: Sea surface T°.
SENSOR/INSTRUMENT: Satellite data only.
FILE SIZE: Approx. one cartridge per year.
STORAGE MEDIA/FORMAT: Magnetic 3,480 cartridges, RS file format (BMRC).
NARRATIVE SUMMARY: The file contains weekly analyses in grid point form of the satellite derived sea surface temperature data received on the GTS from NOAA/NESDIS. The analysis system is a statistical interpolation scheme using the monthly climatology of Reynolds (CAC, NMC Washington) as the first guess field.

DATA CENTRE: National Climate Centre (NCC).

FILE: SHIPACCESS.
GEOGRAPHIC COVERAGE: Variable but in general coastal waters of Australia, southern Indian and southern Pacific Oceans.
TIME PERIOD: late 1950s - 1981 inclusive.
PARAMETERS: Normal parameters included in SHIP reports including air and water T°, weather, wind, pressure, sea and swell.
SENSOR/INSTRUMENT: Variable.
FILE SIZE: > 525,000 records, one cartridge.
STORAGE MEDIA/FORMAT: Magnetic 3,480 cartridge; NCC format.
NARRATIVE SUMMARY: The file contains information reported by the ships of the Australian observing fleet, i.e., Australian Selected Ships. The source is the original ships meteorological logbooks and quality control has been applied. Elements reported, sensors used and geographical coverage will all be variable. The dataset ceases at 1 January 1982 when the new SYNOP and SHIP codes were introduced.

DATA CENTRE: National Climate Centre (NCC).

FILE: SHIPARCH.
GEOGRAPHIC COVERAGE: Variable but global from mid 1989.
TIME PERIOD: 1982 - present
PARAMETERS: Normal parameters included in SHIP reports including air and water T°, weather, wind, pressure, sea and swell.
SENSOR/INSTRUMENT: Variable.
FILE SIZE: One cartridge per year.
STORAGE MEDIA/FORMAT: Magnetic 3,480 cartridges; NCC format IMMT format.
NARRATIVE SUMMARY: The dataset stores all SHIP messages which were received over the global telecommunications network since January 1982 and which had been stored in the Bureau's real-time archives. The messages are decoded but no quality control has occurred. Data are stored in NCC format but can be supplied in IMMT format if required.

DATA CENTRE: National Climate Centre (NCC).

FILE: Real-time archives.
GEOGRAPHIC COVERAGE: Variable but global from July 1989.
TIME PERIOD: 1973 - present, however more limited in early years.
PARAMETERS: SYNOP, SHIP, PILOT, TEMP, DRIBU messages.
SENSOR/INSTRUMENT:
FILE SIZE: > 140 cartridges increasing at 24 per year.
STORAGE MEDIA/FORMAT: 3,480 cartridges; NCC format but very similar to original coded messages.
NARRATIVE SUMMARY: The dataset stores the messages received over the global telecommunications network since about 1973. No decoding nor any quality control has occurred and the data are stored as received on a month by month basis, with no sorting being done. Hence for a particular message type, all cartridges must be accessed for the time period of interest. This makes access expensive. The data are global from mid-1989 but not complete in that many messages are not received for telecommunications and other reasons.

BULGARIA (Note only dataset description updated).

ORGANIZATION

NAME: Regional Hydrometeorological Service
CONTACT: Head of Department
ADDRESS: Meteorological Servicing of the National Economy
Regional Hydrometeorological Service
Mestnost "*Sveti Nikola*" No. 10
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BULGARIA
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DESCRIPTION

The Regional Hydrometeorological Service in Varna is carrying out marine meteorological servicing (MMS) of the navigation in the Western water area of the Black Sea and of other different activities as well related to the marine resources development. It is collecting meteorological and marine information from land and ship stations and is ensuring operational control on the mentioned information.

Regional Coverage -
Black Sea

Working Languages -
Bulgarian
Russian
English

Sponsorship -
National
Governmental

Activities -
Provision of information
Provision of services
Forecasting
Research
Advice
Consultation

Functions of Source -
Operational Unit
Weather Observing Stations

Availability -
No restriction
With permit only

Output -
Unprocessed data
Processed/analyzed data
Bulletins
Publications or Reports
Handwritten/typed
Expert consultation or advice

Most relevant attributes -
Marine Meteorological Service (MMS)
Meteorology and Climate

Other Associated Attributes -
Hydrography
Oceanology

Supporting Documentation -
Scales of meteorological and marine data collected from Bulgarian coastal stations.
Meteorological annuals
Hydrological annuals
Climate reference books

DATA CENTER: Regional Hydrometeorological Service.

FILE: Marine Meteorological Observations.
GEOGRAPHIC COVERAGE: Black Sea, Coastal waters.
TIME PERIOD: January 1975 - present.
PARAMETERS: Meteorology, standard meteorological observations, sea state and swell, sea water T°, S°/$_{oo}$, O_2, pH, sea-level.
SENSOR/INSTRUMENT: Water Samplers, Automatic Recorders.
FILE SIZE: Standard surface meteorological and marine observations at the coastal stations and expeditionary observations.
STORAGE MEDIA/FORMAT: Data Sheets.
NARRATIVE SUMMARY: That file is needed for operational provision of different marine activities as well as for research purposes.

CANADA

ORGANIZATION

NAME: Marine Environmental Data Service (MEDS)
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Physical and Chemical Sciences Directorate
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CANADA
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Tlx: 0534228
Email: R.WILSON.MEDS (Omnet)

DESCRIPTION

The Marine Environmental Data Service (MEDS) is an NODC within the IODE system and operates the RNODC for drifting buoy data for the whole world. It serves as a national data centre for Canada for physical and chemical oceanographic data, instrumental wave and wave direction data, tides and water level data. MEDS is Canada's focus for the management and archival of oceanographic and related data collected by Canadian research and survey agencies. It is also the contact point and archival centre for the same kind of data collected by foreign agencies operating in the Canadian ocean of primary interest, namely the area bounded by 40° W longitude to 180° W longitude, and from 35° N latitude on the east coast and 40° N latitude on the west coast to the north geographic pole. The data files, as well as products, inventories and cost information are described in more detail in the MEDS Users Guide, which is available free-of-charge at the above address.

FILE DESCRIPTIONS

DATA CENTRE: Marine Environmental Data Service (MEDS).

FILE: Oceanographic Station Data.
GEOGRAPHIC COVERAGE: 40° W longitude to 180° W longitude, and from 35° N latitude on the east coast and 40° N latitude on the west coast to the north geographic pole.
TIME PERIOD: 1900 - present.
PARAMETERS: Mainly T° and $S°/_{oo}$.
SENSOR/INSTRUMENT: Bottle Casts and CTD/STD.
FILE SIZE: 210,000 Stations.
STORAGE MEDIA/FORMAT: Disk; index sequential file.
NARRATIVE SUMMARY: Classical oceanographic bottle stations and vertical profiles (STD/CTD). 210,000 stations. Data organized by cruise, station and level. Cruise, time period and area retrieval are available. Data can be supplied on computer magnetic tape or on floppy disk. Oceanographic data at significant levels mainly from Nansen or other bottle casts (24% are CTD/STD data). Principal parameters are temperature and salinity; however, Oxygen, PO_4, P, SiO_2, NO_2, NO_3, pH, and others can be archived. Values of sound velocity, sigma-T, and geopotential anomaly can be computed.

DATA CENTRE: Marine Environmental Data Service (MEDS).

FILE: Bathythermograph Data.
GEOGRAPHIC COVERAGE: 40° W longitude to 180° W longitude, and from 35° N latitude on the east coast and 40° N latitude on the west coast to the north geographic pole.
TIME PERIOD: 1960 - present.
PARAMETERS: T° profiles.
SENSOR/INSTRUMENT: Mechanical (MBT) and Expendable bathythermograph (XBT).
FILE SIZE: 197,213 stations.
STORAGE MEDIA/FORMAT: Disk; index sequential file.
NARRATIVE SUMMARY: Mechanical bathythermograph (MBT) and expendable bathythermograph data (XBT) and vertical profiles. Data organized by cruise, station and level. Cruise, time period and area retrieval are available. Data can be supplied on computer magnetic tape or on floppy disk. Temperature data at significant levels from XBT and MBT probes, including sea surface temperature.

DATA CENTRE: Marine Environmental Data Service (MEDS).

FILE: Spectral Wave Archive.
GEOGRAPHIC COVERAGE: Marine and inland waters of Canada.
TIME PERIOD: 1969 - present.
PARAMETERS: Non-directional wave spectra, significant wave height and peak period.
SENSOR/INSTRUMENT: variety of measuring instruments.
FILE SIZE: 674,006 twenty-minute wave records.
STORAGE MEDIA/FORMAT: Disk; index sequential file.
NARRATIVE SUMMARY: Surface wave data at approximately 416 locations in marine and inland waters of Canada. Data have been collected since 1969. The data have been collected by a variety of measuring instruments such as wave staffs, bottom-mounted pressure sensors, shipborne recorders and surface-following accelerometer buoys. Non-directional wave spectra, significant wave height and peak period for all the 20-minute wave records. Data retrieval by station and time period.

DATA CENTRE: Marine Environmental Data Service (MEDS).

FILE: Surface Wavec Data.
GEOGRAPHIC COVERAGE: marine waters of Canada.
TIME PERIOD: 1984 - present.
PARAMETERS: Surface wave height and direction.
SENSOR/INSTRUMENT: Datawell Wavec recorder.
FILE SIZE: 11,542 records.
STORAGE MEDIA/FORMAT: Disk; index sequential file.
NARRATIVE SUMMARY: Surface wave height and direction data at 8 locations in marine waters of Canada. 11,542 wave records. Wave data have been collected since 1984. All the data have been collected using the Datawell Wave recorder. Directional wave spectra, significant wave height, peak period, and directional spread for all the wave records. Data retrieval by station and time period.

DATA CENTRE: Marine Environmental Data Service (MEDS).

FILE: Drifting Buoy Data - DRIBU.
GEOGRAPHIC COVERAGE: Global.
TIME PERIOD: 1978 - present.
PARAMETERS: Position and sea surface T° (SST), sea-level pressure (SLP), Sea-level tendency and sub-surface T°.
SENSOR/INSTRUMENT: Drifting Buoys.
FILE SIZE: 5.3 millions messages from 3,841 drifting buoys.
STORAGE MEDIA/FORMAT: Disk; index sequential file.
NARRATIVE SUMMARY: DRIBU data as measured by different types of sensors mounted on drifting buoys. MEDS is the RNODC for this type of data. Global coverage. Data have been archived in MEDS since 1978. All the FGGE year (1979) data are available from MEDS. 1,945,624 messages equivalent to 8,806 buoy months from 1,027 different drifting buoys. Data available on computer magnetic tape in GF-3 format. Data retrieval by area, time period and buoy number. Sea surface temperature (SST), Sea-level pressure (SLP), Sea-level tendency and sub-surface temperature.

DATA CENTRE: Marine Environmental Data Service (MEDS).

FILE: Water Level Data.
GEOGRAPHIC COVERAGE: ocean coasts,the Great Lakes (Superior, Huron, Erie and Ontario), the St. Lawrence River, its estuary and the Gulf, and the Fraser River.
TIME PERIOD: 1896 - present.
PARAMETERS: Hourly height water level, daily means, monthly mean and yearly means.
SENSOR/INSTRUMENT: most of the data were collected using an Ott recorder with a pen tracing the water level variations on a chart; some recent data are being collected using digital data logger and the data from those stations are pooled daily or bi-weekly.
FILE SIZE: Estimated 30 million hourly heights.
STORAGE MEDIA/FORMAT: Magnetic Tape; disk; index sequential file.
NARRATIVE SUMMARY: Hourly height water level data collected around the ocean coasts (Atlantic, Pacific, and Arctic) and around the Great Lakes (Superior, Huron, Erie and Ontario), the St. Lawrence River, its estuary and the Gulf, and the Fraser River. It holds data from different water level recorders and sensors but most of the data were collected using an Ott recorder with a pen tracing the water level variations on a chart. There are basically 2 types of water level stations. The permanent network which is continuously in operation and consists of approximately 110 stations. The temporary network which is run on a demand basis and mostly serves in hydrographic survey for sounding reduction. The data volume is estimated at 30 millions hourly heights on computer tape. Data retrieval by station and time period. Data available on computer magnetic tape or on floppy diskette. Hourly height water level, daily means, monthly means, yearly means.

DATA CENTRE: Marine Environmental Data Service (MEDS).

FILE: Tidal Constituent Data.
GEOGRAPHIC COVERAGE: Canadian Coast.
TIME PERIOD: 1900 - present.
PARAMETERS: harmonic constants and tidal characteristics.
SENSOR/INSTRUMENT: Tide Gauge.
FILE SIZE: approximately 1,000 stations.
STORAGE MEDIA/FORMAT: disk.
NARRATIVE SUMMARY: Set of harmonic constants and tidal characteristics derived from the hourly height water level data for Canadian stations where the tidal signal is predominant. Most of the data has been derived using standard tidal harmonic analysis. 1,000 stations. Retrieval by station identification. Data available on computer magnetic tape or on floppy disk. Name, amplitude and phase-lag for a set of constituents group in species (slow, diurnal and semi-diurnal, etc.).

DATA CENTRE: Marine Environmental Data Service (MEDS).

FILE: IHB Tidal Constituent.
GEOGRAPHIC COVERAGE: Global.
TIME PERIOD: 1900 - present.
PARAMETERS: harmonic constants and tidal characteristics.
SENSOR/INSTRUMENT: Tide Gauges.
FILE SIZE: 4,000+ stations.
STORAGE MEDIA/FORMAT: disk.
NARRATIVE SUMMARY: Set of harmonic constants and tidal characteristics for various tidal stations. Global coverage. More than 4,000 stations. These replaced the S.P. 26 sheets formerly used by IHB. Retrieval by area, country, body of water or station identification. Data available on computer magnetic tape or on floppy diskette. Name, amplitude and phase-lag for a set of constituents group in species.

DATA CENTRE: Marine Environmental Data Service (MEDS).

FILE: Oceanographic BATHY-TESAC.
GEOGRAPHIC COVERAGE: Global.
TIME PERIOD: 1978 - present.
PARAMETERS: T° and/or S°/$_{oo}$ profiles.
SENSOR/INSTRUMENT: Bottle Casts and/or CTD/STD and/or Mechanical (MBT) and Expendable bathythermograph (XBT).
FILE SIZE: 250,000 stations.
STORAGE MEDIA/FORMAT: disk; index sequential file.
NARRATIVE SUMMARY: Oceanographic station data that have been reported in real-time over the Global Telecommunication System (GTS) network. Data are received daily at MEDS, quality control and archived. Ship call-sign, time period and area retrieval are available. Data can be supplied on computer magnetic tape or on floppy disk. Temperature data at significant levels from XBT and MBT probes, including sea surface temperature.

DATA CENTRE: Marine Environmental Data Service (MEDS).

FILE: Canada Oil and Gas Lands Administration (COGLA).
GEOGRAPHIC COVERAGE: offshore in Canadian waters.
TIME PERIOD: 1980 - 1990.
PARAMETERS: meteorology, waves, ice conditions, current meters and oceanographic station data.
SENSOR/INSTRUMENT: variety of sensors depending on the data type.
FILE SIZE: 330 Well Heads stations.
STORAGE MEDIA/FORMAT: magnetic tape archive; GF-3 format
NARRATIVE SUMMARY: These particular datasets have been collected by private drill ship operators as per COGLA requirements for offshore operation in Canadian waters.

CHILE

ORGANIZATION

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Tlx: 230362 HIDRO CL

DESCRIPTION

CENDOC is a National Oceanographic Data Center (NODC) within the IODE system and a National Oceanographic Center (NOC) within the IGOSS system. Archived CENDOC datasets are available as magnetic tape copies of specified data subsets. These files are sorted by cruise number (cruise file) and by geographic grid system (Geofile). Data are on 1600 bpi tapes, ASCII code only. By special request, data is also available on 3.5 inches, 720 KB floppy disks.

FILE DESCRIPTIONS

DATA CENTRE: Centro Nacional de Datos Oceanograficos (CENDOC).

FILE: Oceanographic Station Data File.
GEOGRAPHIC COVERAGE: Lat. 10° N - 80° S, Long. 0° W - 180° W, 130° E - 180° E.
TIME PERIOD: 1900 - present.
PARAMETERS: Principal parameters are T°, $S°/_{oo}$, and in some instances O_2, PO_4, P, SiO_2, NO_2, NO_3, pH, water color and transparency. Values of sound velocity, sigma-T, and dynamic depth anomaly are computed.
SENSOR/INSTRUMENT: Classical oceanographic bottle stations.
FILE SIZE: 43,180 stations; Cruise file (3) 2,400' tapes (1600). Geofile (4) 2,400' tapes (1600).
STORAGE MEDIA/FORMAT: Magnetic Tapes.
NARRATIVE SUMMARY: Oceanographic data at discrete depth levels mainly from Nansen or other bottle casts. Principal parameters are temperature, salinity, and in many instances Oxygen, PO_4, P, SiO_2, NO_2, NO_3, pH, water color and transparency. Values of sound velocity, sigma-T, and dynamic depth anomaly are computed.

DATA CENTRE: Centro Nacional de Datos Oceanograficos (CENDOC).

FILE: Mechanical Bathythermograph Data File.
GEOGRAPHIC COVERAGE: Lat. 10° N - 80° S, Long. 0° W - 180° W, 130° E - 180° E.
TIME PERIOD:
PARAMETERS: T°, Depth profiles.
SENSOR/INSTRUMENT: Bathythermograph.
FILE SIZE: 5,529 stations; 108,107 records; (2) 2,400' tapes (1600 bpi).
STORAGE MEDIA/FORMAT: Magnetic Tapes.
NARRATIVE SUMMARY: This file contains temperature-depth profile data obtained using the mechanical bathythermograph (BT) instrument.

DATA CENTRE: Centro Nacional de Datos Oceanograficos (CENDOC).

FILE: Surface Water Temperature and Density at Tidal Stations File.
GEOGRAPHIC COVERAGE: Selected coastal tide stations.
TIME PERIOD: 1945 - 1987.
PARAMETERS: T° and density.
SENSOR/INSTRUMENT:
FILE SIZE: 16 tide stations; 100,892 records; (2) 2400' tapes (1600bpi).
STORAGE MEDIA/FORMAT: Magnetic Tapes.
NARRATIVE SUMMARY: This file contains temperature and density data sampled once a day for tidal mean sea-level reductions, at selected coastal tide stations.

DATA CENTRE: Centro Nacional de Datos Oceanograficos (CENDOC).

FILE: Tidal Harmonic Constants File.
GEOGRAPHIC COVERAGE: Worldwide.
TIME PERIOD:
PARAMETERS: Amplitude and phase of principal harmonic constants.
SENSOR/INSTRUMENT: Various Tide gauges.
FILE SIZE: 46 Chilean ports and 234 foreign ports; (2) 2,400' tapes (1600).
STORAGE MEDIA/FORMAT: Magnetic Tapes in IHB format.
NARRATIVE SUMMARY: This file contains the amplitude and phase of principal harmonic constants in I.H.B. format, at selected ports.

DATA CENTRE: Centro Nacional de Datos Oceanograficos (CENDOC).

FILE: Tidal Hourly Heights File.
GEOGRAPHIC COVERAGE: Chilean Coast.
TIME PERIOD: 1944 - 1987.
PARAMETERS: tidal heights sampled at one hour interval.
SENSOR/INSTRUMENT: Automatic Tide gauges.
FILE SIZE: 18 Chilean ports; 114,835 records; (18) 2,400' tapes (1600 bpi).
STORAGE MEDIA/FORMAT: Magnetic Tapes in IHB format.
NARRATIVE SUMMARY: This file contains tidal heights taken from automatic tide gauge records.

DATA CENTRE: Centro Nacional de Datos Oceanograficos (CENDOC).

FILE: Coastal Meteorological Station Data File.
GEOGRAPHIC COVERAGE: Chilean Coast.
TIME PERIOD: 1971 - 1980.
PARAMETERS:
SENSOR/INSTRUMENT:
FILE SIZE: (12) 2,400' tapes.
STORAGE MEDIA/FORMAT: Magnetic Tapes.
NARRATIVE SUMMARY: This file contains standard meteorological observations.

CHINA

ORGANIZATION

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DESCRIPTION

CNODC is the national data and information center of marine science and technology and concurrently the Publication and Documentation Depository Center of UNESCO's Intergovernmental Oceanographic Commission. The Center is mainly responsible for organizing and co-ordinating studies on national marine policies and projects, and working out regulations for marine data and information management. It is also responsible for data collecting, processing, storing, inter-agencies-exchange within China, publishing and serving as well as exchanging with other countries and international organizations for China. Nine new marine environmental data files and inventory for the information retrieval were successfully established in May 1987. All observations obtained during the last 34 years and the historical data obtained from other countries were recorded on 79 tapes (6,250 or 1600 bpi) in accordance with different parameters. Each data file has its own software for sorting, sequencing, removing repetition, inserting, merging, deleting, quality controlling and inquiring as well as analyzing and computing. The Oceanographic Station Data File is sorted by section numbers (section file) and by a geographic grid system (geofile). The data files, subfiles, inventories and products are described in detail in the CNODC's User Guide which will be published. It will be made available to users once it is published in English.

FILE DESCRIPTIONS

DATA CENTRE: China National Oceanographic Data Center (CNODC)

FILE: Oceanographic Station Data File.
GEOGRAPHIC COVERAGE: China Sea and Northwest Pacific Ocean.
TIME PERIOD: 1954 - 1986 (national), 1903 - present (abroad).
PARAMETERS: Principal parameters are water T° and S°/$_{oo}$.
SENSOR/INSTRUMENT: Bottle casts with reversing thermometers and STD/CTD.
FILE SIZE: About 360,000 stations.
SECTION FILE: 3 tapes; geofile: 38 tapes and Inventory: 4 tapes (6250 bpi).
STORAGE MEDIA/FORMAT: Magnetic tapes.
NARRATIVE SUMMARY: Conventional Oceanographic reversing water bottle station data and some vertical profiles (STD/CTD < 1%). Oceanographic station data obtained at discrete depths are mainly from Nansen or other reversing water bottle casts. Principal parameters are water temperature and salinity. However, such parameters may also be recorded as primary productivity, total phosphorus, oxygen, phosphate, ammonia, nitrate, nitrite, silicate, dissolved gases, heavy metals, pH, meteorological elements, ice observations and waves, water colour, transparency and MBT. Values of sound velocity, sigma-T and dynamic depth anomaly are computed. This file has the capacity for retrieving, inquiring, analyzing and computing.

DATA CENTRE: China National Oceanographic Data Center (CNODC)

FILE: Ocean Current Data File.
GEOGRAPHIC COVERAGE: China Sea and Northwest Pacific Ocean.
TIME PERIOD: 1853 - 1985.
PARAMETERS: Surface and subsurface currents (see narrative summary).
SENSOR/INSTRUMENT: current meters, GEK, drifters.
FILE SIZE: see narrative summary.
STORAGE MEDIA/FORMAT: 5 tapes (1600 bpi).
NARRATIVE SUMMARY: This file contains 3 subfiles for surface current data (34,664 stations); time-series data of ocean current (meter) (4,837 stations) and circadian time-series data of ocean current (meter) (5,034 observation-days). The file with software is capable of inquiring, retrieving, analyzing and computing, and its products are used to serve the users both from nationally and internationally. The main parameters are those of directions and speeds of both wind and current obtained by using current meters, GEK and drifters.

DATA CENTRE: China National Oceanographic Data Center (CNODC)

FILE: Wave Data File of Coastal Oceanographic Stations.
GEOGRAPHIC COVERAGE: The Coast Sea of China.
TIME PERIOD: 1960 - 1986.
PARAMETERS: Principal parameters are wind direction, speed or force, sea state, wave type, direction of sea and swell, period, wave height, max wave height, depth.
SENSOR/INSTRUMENT:
FILE SIZE: Accumulative total is about 901 Station-years.
STORAGE MEDIA/FORMAT: 3 tapes (1600 bpi).
NARRATIVE SUMMARY: This file is composed of the wave data from 42 coast stations. Principal parameters are wind direction, speed or force, sea state, wave type, direction of sea and swell, period, wave height, max wave height, depth. Observations were made 4 times a day at 8:00, 11:00, 14:00 and 17:00 (Beijing time). The file has its own capability for retrieving, inquiring, adding up and computing. It can provide the users with originator's formats and products.

DATA CENTRE: China National Oceanographic Data Center (CNODC)

FILE: Temperature and Salinity Data File of Coastal Oceanographic Stations.
GEOGRAPHIC COVERAGE: The Coast Sea of China.
TIME PERIOD: 1959 - 1986.
PARAMETERS: surface T° and S°/$_{oo}$ visibility and bioluminescence.
SENSOR/INSTRUMENT:
FILE SIZE: Accumulative total is about 1,441 station-years.
STORAGE MEDIA/FORMAT: 3 tapes (1600 bpi).
NARRATIVE SUMMARY: This file contains surface temperature and salinity data obtained from 61 fixed stations. Principal parameters are sea-surface temperature, salinity, visibility and bioluminescence, etc. The observations were conducted 3 times per day at 8:00, 14:00 and 20:00 (Beijing time), but salinity was measured only at 14:00 and bioluminescence was observed at night. The data file has its own programmes for retrieving, analyzing and computing anything on the tape. It produces some products too.

DATA CENTRE: China National Oceanographic Data Center (CNODC)

FILE: Tidal Observations File.
GEOGRAPHIC COVERAGE: The Coast Sea of China.
TIME PERIOD: 1942 - 1986.
PARAMETERS: Tides (hourly).
SENSOR/INSTRUMENT:
FILE SIZE: 1,911 station-years data from 242 tidal stations (see narrative summary).
STORAGE MEDIA/FORMAT: 5 tapes (1600 bpi).
NARRATIVE SUMMARY: This file contains 1,911 station-years' data of 242 tidal stations, of which 47 stations have records over 20 years. The longest recording from one station is nearly about 50 years among those that have been already recorded on tapes. In addition, it also has one tape containing 116 harmonic constants of amplitudes and lags of constituents. The tidal data file consists of hourly records collected by SOA, Navy, Ministry of Transportation and so on. It has the capability of producing products or analyzing and computing services.

DATA CENTRE: China National Oceanographic Data Center (CNODC)

FILE: Marine Geophysical Data File.
GEOGRAPHIC COVERAGE: China Sea and Northwest Pacific Ocean.
TIME PERIOD: 1961 - 1983.
PARAMETERS: Principal parameters are sea-level gravitations, air anomaly, magnetic field intensity, residual magnetic field intensity and depth.
SENSOR/INSTRUMENT:
FILE SIZE: 2,009,910 station (about 12,000,000 measuring nautical miles).
STORAGE MEDIA/FORMAT: 14 tapes (1600 bpi).
NARRATIVE SUMMARY: This file combined all data obtained from both nationally and internationally. Geophysical data were obtained at discrete stations or recorded by auto-continuous recording instruments at interval of about 10 minutes. The file has its capability for retrieving, analyzing and computing services.

DATA CENTRE: China National Oceanographic Data Center (CNODC)

FILE: Size Analyzing Data File of Sediments.
GEOGRAPHIC COVERAGE: China Sea and central Pacific Ocean.
TIME PERIOD: 1958 - 1979.
PARAMETERS: Main parameters are grain size wt.%, type of sediments, numbers of samples and sample layers, mean grain size, median grain size, modal grain size, skewness, kurtosis, sorting coefficient and standard deviation, etc.
SENSOR/INSTRUMENT:
FILE SIZE: 4,280 stations.
STORAGE MEDIA/FORMAT: One tape (1600 bpi).
NARRATIVE SUMMARY: Sediment samples were mainly collected from sea bottom using grab, dredge, core-rock and core-soft bottom. The file has the capacity for quick inquiring, retrieving, plotting and computing.

DATA CENTRE: China National Oceanographic Data Center (CNODC)

FILE: Marine Geochemical Data File.
GEOGRAPHIC COVERAGE: China Sea and central Pacific Ocean.
TIME PERIOD: 1958 - 1978.
PARAMETERS: Main parameters are pH, Fe, CaO, MgO, MnO, AlO, Organic carbon, phosphorus, silicate.
SENSOR/INSTRUMENT: various.
FILE SIZE: 2,101 stations.
STORAGE MEDIA/FORMAT: One tape (1600 bpi) for all data.
NARRATIVE SUMMARY: Geochemical data dealing with chemical analyses of sediments were mainly obtained by different organizations of China. The file has capability of inquiring, retrieving, carrying out quantity analysis for chemical elements.

DATA CENTRE: China National Oceanographic Data Center (CNODC)

FILE: Ocean Manganese Nodule Data File.
GEOGRAPHIC COVERAGE: Global.
TIME PERIOD: observed period is unknown.
PARAMETERS: Main parameters are the length of core, rocky property, existing mode, covering proportion, abundance, type of samples, substances in the nodule, the form of nodule, amount of elements in the nodule.
SENSOR/INSTRUMENT:
FILE SIZE: 2,758 stations.
STORAGE MEDIA/FORMAT: One tape (1600 bpi).
NARRATIVE SUMMARY: Manganese nodule data were mainly collected abroad. This file has the capability for retrieving, inquiring, plotting, analyzing and computing service.

CROATIA

ORGANIZATION

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DESCRIPTION

The Institute of Oceanography and Fisheries (IOF) was established in 1930 for research in oceanography and fisheries. IOF's Data Centre has a database containing hydrological, currents, wave, sea-level, biological and fisheries data. The function of the data centre is to compute, process, classify, store and disseminate data to IOF researchers.

FILE DESCRIPTIONS

DATA CENTRE: Institute of Oceanography and Fisheries

FILE: Hydro Data.
GEOGRAPHIC COVERAGE: Adriatic Sea.
TIME PERIOD: 1913 - present.
PARAMETERS: wind speed and direction, air T°, humidity, and pressure, visibility, clouds, weather, sea state, sea-surface T°, water transparency, water T°, $S°/_{oo}$, chlorinity, pH, O_2, phosphates, nitrites, silicates, alkalinity, heavy metals.
SENSOR/INSTRUMENT: Multi-bottle Nansen casts with reversing thermometers, other water samplers, CTD/STD.
FILE SIZE: 13,000+ stations.
STORAGE MEDIA/FORMAT: digital magnetic tape in standard format of Institute of Oceanography and Fisheries (IOF format) and GF3 format.
NARRATIVE SUMMARY: This file contains meteorological data above sea surface, and physical-chemical oceanographic data at the standard discrete depth levels. Cruise information, position, date and time are reported for each station.

DATA CENTRE: Institute of Oceanography and Fisheries

FILE: Tide Data.
GEOGRAPHIC COVERAGE: Adriatic Sea.
TIME PERIOD: 1930 - present.
PARAMETERS: Hourly tidal heights.
SENSOR/INSTRUMENT: tide gauge.
FILE SIZE: 12 stations.
STORAGE MEDIA/FORMAT: 6,400+ sheets and one digital magnetic tape, IOF and GF3 formats.
NARRATIVE SUMMARY: This file contains hourly tidal heights from 12 stations along the Croatian part of the Adriatic Sea.

DATA CENTRE: Institute of Oceanography and Fisheries

FILE: Wave Data.
GEOGRAPHIC COVERAGE: Adriatic Sea.
TIME PERIOD: 1978 - present.
PARAMETERS: wind speed and direction, sea height.
SENSOR/INSTRUMENT: DATAWELL/5000 wave gauge improved in Yugoslavia.
FILE SIZE: 5 stations.
STORAGE MEDIA/FORMAT: 100 sheets, and one digital magnetic tapes in IOF and GF3 formats
NARRATIVE SUMMARY: File consists of data measured every 3 hours for an 8 minute duration (a wind sample is taken every 6 seconds and sea height every 0.5 seconds). Data were measured during time with wave height greater then a half meter.

DATA CENTRE: Institute of Oceanography and Fisheries

FILE: Current data.
GEOGRAPHIC COVERAGE: Adriatic Sea.
TIME PERIOD: 1974 - present.
PARAMETERS: Current speed and direction, sea T°, conductivity.
SENSOR/INSTRUMENT: current meters ALEKSEJEV BPV2r, AANDERAA RCM4, INTEROCEAN 135M.
FILE SIZE: 457 series.
STORAGE MEDIA/FORMAT: 6 digital magnetic tapes, IOF and GF3 formats.
NARRATIVE SUMMARY: File consists of current data collected at a number of different stations. Most also contain sea temperatures and conductivity.

DATA CENTRE: Institute of Oceanography and Fisheries

FILE: Fisheries data.
GEOGRAPHIC COVERAGE: Adriatic Sea.
TIME PERIOD: 1947 - present.
PARAMETERS: fish data.
SENSOR/INSTRUMENT:
FILE SIZE: 124 series.
STORAGE MEDIA/FORMAT: digital magnetic tape, IOF format.
NARRATIVE SUMMARY: File consists of year and month, data on ship name, fish name, fishing effort and catch.

DATA CENTRE: Institute of Oceanography and Fisheries

FILE: Marine Plankton.
GEOGRAPHIC COVERAGE: Adriatic Sea.
TIME PERIOD: 1973 - present.
PARAMETERS: Zooplankton, Phytoplankton.
SENSOR/INSTRUMENT:
FILE SIZE: 470 stations, 230,580 bytes.
STORAGE MEDIA/FORMAT: Magnetic tape 1600 bpi, IOF format.
NARRATIVE SUMMARY: File consists of sampling data, marine zoo plankton and phytoplankton analysis data (concentration of cells, wet and dry weight, counts for each species).

ECUADOR

ORGANIZATION

NAME: Instituto Oceanografico de la Armada (INOCAR)
CONTACT: Director
ADDRESS: Ave. 25 de Julio Base Naval Sur.
P.O. Box 5940
Guayaquil
ECUADOR
Tel: (593-4) 43 13 00/43 18 16
Fax: (593-4) 44 21 51

DESCRIPTION

INOCAR is an NODC in charge of gathering data from oceanographic cruises, meteorological, state of the sea and bathymetric data available on diskette, as well as on lists. Relevant corresponding to the territorial Ecuadorian sea (south-east of the Pacific Ocean).

FILE DESCRIPTIONS

DATA CENTRE: Instituto Oceanografico de la Armada (INOCAR)

FILE: Oceanographic Cruise Data.
GEOGRAPHIC COVERAGE: Ecuadorian territorial sea (south-east Pacific Ocean).
TIME PERIOD: 1971 - present.
PARAMETERS: T° and S°/$_{oo}$, chemical data (O_2, phosphates, nitrites, nitrates, silicates and pH).
SENSOR/INSTRUMENT: Multi-bottle Niskin cast with reversing thermometers, and CTD.
FILE SIZE: 43 Ecuadorian Cruises.
STORAGE MEDIA/FORMAT: diskettes; ASCII format.
NARRATIVE SUMMARY: Oceanographic data are provided from depth 0 to 700 meters temperature and salinity, chemical data (oxygen, phosphates, nitrites, nitrates, silicates and pH). There also exist lists of the derived parameters, such as: velocity values, sound values and SIGMA-T. There are data on 43 national cruises from 1971 to this date, available on diskettes.

DATA CENTRE: Instituto Oceanografico de la Armada (INOCAR)

FILE: Meteorological Data.
GEOGRAPHIC COVERAGE: Ecuadorian coast.
TIME PERIOD: 1949, 1951, 1952, 1953, 1962.
PARAMETERS: air T°, pressure, rainfall, humidity, winds.
SENSOR/INSTRUMENT:
FILE SIZE: 9 fixed stations.
STORAGE MEDIA/FORMAT: on diskettes; ASCII format.
NARRATIVE SUMMARY: There are data on meteorological measures of 9 fixed stations along the Ecuadorian coast. Data are available from the following dates: Guayaquil (1962), San Lorenzo (1953), Salinas (1951), Puerto Bolivar (1952), San Cristobal (1951), Manta, Esmeraldas, Puna (1949). All this information is on diskette. There are 3 daily data of meteorological observations (07:00, 13:00, 19:00). Furthermore, there is information about salinity (from 1974 to this date for the same stations).

DATA CENTRE: Instituto Oceanografico de la Armada (INOCAR)

FILE: Tides Data.
GEOGRAPHIC COVERAGE: Ecuadorian coast.
TIME PERIOD: 1948, 1970, 1973, 1976, 1980, 1984, 1986.
PARAMETERS: Hourly tides and hourly sea-level.
SENSOR/INSTRUMENT: Various Tide Gauges.
FILE SIZE: 10 fixed stations.
STORAGE MEDIA/FORMAT: diskette.
NARRATIVE SUMMARY: Observations on tides from fixed stations along the Ecuadorian coast and in Galapagos are: La Libertad (from 1948), Bahia de Caraquez (from 1980), Puerto Bolivar (from 1970), Esmeraldas (from 1979), Manta (from 1973), Puerto Maritimo and Posorja (from 1984), Puna (from 1980), Capitania de Guayaquil (from 1976), Baltra (from 1986). Information on tide height and its high sea-level and low sea-level is available each hour.

DATA CENTRE: Instituto Oceanografico de la Armada (INOCAR)

FILE: Bathymetric Data.
GEOGRAPHIC COVERAGE: Ecuadorian area (south-east Pacific Ocean).
TIME PERIOD: 1984 - present.
PARAMETERS: depth and geographic co-ordinates of UTM.
SENSOR/INSTRUMENT: Echo sounders.
FILE SIZE:
STORAGE MEDIA/FORMAT: diskettes.
NARRATIVE SUMMARY: The bathymetric data for Ecuadorian area are classified by charts.

DATA CENTRE: Instituto Oceanografico de la Armada (INOCAR)

FILE: State of the Sea.
GEOGRAPHIC COVERAGE: Monteverde and Jaramijo areas.
TIME PERIOD: Monteverde 1981 - 1985; Jaramijo 1979 - 1980.
PARAMETERS: Wave height and period each half an hour.
SENSOR/INSTRUMENT: Wave gauge.
FILE SIZE:
STORAGE MEDIA/FORMAT: diskettes; ASCII format.
NARRATIVE SUMMARY:

EGYPT

ORGANIZATION

NAME: Egyptian National Oceanography Data Centre (ENODC)
CONTACT: Head of ENODC
ADDRESS: Dr. I.A. Maiyza
Head, ENODC
National Institute of Oceanography and Fisheries
Kayet Bay
Alexandria
EGYPT
Tel: (20-3) 80 71 38
Fax: (20-3) 80 11 74

DESCRIPTION

The Egyptian National Oceanography Data Centre is an ENODC within the National Institute of Oceanography and Fisheries of Egypt. Archived datasets will be available on magnetic tape, diskettes or printout. The data files, as well as products, inventories and cost information are described in more detail in the ENODC Users Guide (available from the above address).

FILE DESCRIPTIONS

DATA CENTRE: Egyptian National Oceanography Data Centre (ENODC)

FILE: 0001.dat.
GEOGRAPHIC COVERAGE: Mediterranean Sea - Eastern Basin.
TIME PERIOD: 1 January 1977 - 26 February 1978.
PARAMETERS: T°, $S^{o}/_{oo}$, O_2.
SENSOR/INSTRUMENT: Protected thermometer, Nansen bottles, Induction Salinometer, Winkler Method.
FILE SIZE: 34,782 bytes.
STORAGE MEDIA/FORMAT: 5.25 HD diskettes, free format.
NARRATIVE SUMMARY: This file contains physical oceanographic data recorded at standard depths. Egyptian Mediterranean Continental Shelf.

DATA CENTRE: Egyptian National Oceanography Data Centre (ENODC)

FILE: 0002.dat.
GEOGRAPHIC COVERAGE: Mediterranean Sea.
TIME PERIOD: 1 January - 19 November 1977.
PARAMETERS: T°, $S^{o}/_{oo}$, O_2.
SENSOR/INSTRUMENT: Protected thermometer, Nansen bottles, Induction Salinometer, Winkler Method.
FILE SIZE: 27,520 bytes.
STORAGE MEDIA/FORMAT: 5.25 HD diskettes, free format.
NARRATIVE SUMMARY: This file contains physical oceanographic data recorded at standard depths. Egyptian Mediterranean Continental Shelf, Abu-Qir Bay.

DATA CENTRE: Egyptian National Oceanography Data Centre (ENODC)

FILE: 0003.dat.
GEOGRAPHIC COVERAGE: Mediterranean Sea.
TIME PERIOD: 1 January - 12 December 1979.
PARAMETERS: T°, S°/$_{oo}$, O_2.
SENSOR/INSTRUMENT: Protected thermometer, Nansen bottles, Induction Salinometer, Winkler Method.
FILE SIZE: 13,812 bytes.
STORAGE MEDIA/FORMAT: 5.25 HD diskettes, free format.
NARRATIVE SUMMARY: This file contains physical oceanographic data recorded at standard depths. Egyptian Mediterranean Continental Shelf, Abu-Qir Bay.

DATA CENTRE: Egyptian National Oceanography Data Centre (ENODC)

FILE: 0004.dat.
GEOGRAPHIC COVERAGE: Mediterranean Sea.
TIME PERIOD: 29 January - 4 February 1980.
PARAMETERS: T°, S°/$_{oo}$, O_2.
SENSOR/INSTRUMENT: Protected thermometer, Nansen bottles, Induction Salinometer, Winkler Method.
FILE SIZE: 2,876 bytes.
STORAGE MEDIA/FORMAT: 5.25 HD diskettes, free format.
NARRATIVE SUMMARY: This file contains physical oceanographic data recorded at standard depths. Egyptian Mediterranean Continental Shelf, Abu-Qir Bay.

DATA CENTRE: Egyptian National Oceanography Data Centre (ENODC)

FILE: 0005.dat.
GEOGRAPHIC COVERAGE: Mediterranean Sea.
TIME PERIOD: 1 January - 1 November 1990.
PARAMETERS: T°, S°/$_{oo}$, O_2.
SENSOR/INSTRUMENT: Protected thermometer, Nansen bottles, Induction Salinometer, Winkler Method.
FILE SIZE: 12,558 bytes.
STORAGE MEDIA/FORMAT: 5.25 HD diskettes, free format.
NARRATIVE SUMMARY: This file contains physical oceanographic data recorded at standard depths. Egyptian Mediterranean Continental Shelf, Abu-Qir Bay.

DATA CENTRE: Egyptian National Oceanography Data Centre (ENODC)

FILE: 1001.dat.
GEOGRAPHIC COVERAGE: Mediterranean Sea.
TIME PERIOD: 25 January - 19 November 1977.
PARAMETERS: Air T° (Dry and Wet) - Wind (Speed and Direction).
SENSOR/INSTRUMENT: Thermometer, Wind anemometer and magnetic compass.
FILE SIZE: 6,077 bytes.
STORAGE MEDIA/FORMAT: 5.25 HD diskette, free format.
NARRATIVE SUMMARY: This file contains physical oceanographic data. Egyptian Mediterranean Continental Shelf, Abu-Qir Bay.

DATA CENTRE: Egyptian National Oceanography Data Centre (ENODC)

FILE: 1002.dat.
GEOGRAPHIC COVERAGE: Mediterranean Sea.
TIME PERIOD: 25 January - 19 November 1977.
PARAMETERS: Air T° (Dry and Wet) - Wind (Speed and Direction).
SENSOR/INSTRUMENT: Thermometer, Wind anemometer and magnetic compass.
FILE SIZE: 5,077 bytes.
STORAGE MEDIA/FORMAT: 5.25 HD diskette, free format.
NARRATIVE SUMMARY: This file contains physical oceanographic data. Egyptian Mediterranean Continental Shelf, Abu-Qir Bay.

DATA CENTRE: Egyptian National Oceanography Data Centre (ENODC)

FILE: 2001.dat.
GEOGRAPHIC COVERAGE: Mediterranean Sea - Eastern Basin (Alex. Met. St.).
TIME PERIOD: 1 January 1956 - 31 December 1990.
PARAMETERS: Air (T°, pressure, wind speed, wind direction, wind gusts, wave).
SENSOR/INSTRUMENT:
FILE SIZE: 3,991,424 bytes.
STORAGE MEDIA/FORMAT: 1600 bpi Magnetic tape, free format.
NARRATIVE SUMMARY: This file contains Meteorological parameters recorded at MSL for Ras El-Tin Meteorological off-shore station.

DATA CENTRE: Egyptian National Oceanography Data Centre (ENODC)

FILE: 2002.dat.
GEOGRAPHIC COVERAGE: Mediterranean Sea - Eastern Basin.
TIME PERIOD: 1 January 1983 - 31 December 1991.
PARAMETERS: Air (T°, pressure, wind speed, wind direction, wind gusts, wave).
SENSOR/INSTRUMENT:
FILE SIZE: 1,028,457 bytes.
STORAGE MEDIA/FORMAT: 1600 bpi Magnetic tape, free format.
NARRATIVE SUMMARY: This file contains Meteorological parameters recorded at MSL for Port Said Meteorological station.

DATA CENTRE: Egyptian National Oceanography Data Centre (ENODC)

FILE: 3001.dat.
GEOGRAPHIC COVERAGE: Mediterranean Sea - Edku.
TIME PERIOD: 4 July - 29 December 1979.
PARAMETERS: T°, $S°/_{oo}$, O_2.
SENSOR/INSTRUMENT:
FILE SIZE: 11,904 bytes.
STORAGE MEDIA/FORMAT: 5.25 HD diskettes, free format.
NARRATIVE SUMMARY: This file contains Limnological characteristics of Edku.

DATA CENTRE: Egyptian National Oceanography Data Centre (ENODC)

FILE: 3002.dat.
GEOGRAPHIC COVERAGE: Mediterranean Sea - Edku.
TIME PERIOD: 1 January - 9 February 1980.
PARAMETERS: T°, $S°/_{oo}$, O_2.
SENSOR/INSTRUMENT:
FILE SIZE: 3,376 bytes.
STORAGE MEDIA/FORMAT: 5.25 HD diskettes, free format.
NARRATIVE SUMMARY: This file contains Limnological characteristics of Edku.

DATA CENTRE: Egyptian National Oceanography Data Centre (ENODC)

FILE: 3003.dat.
GEOGRAPHIC COVERAGE: Mediterranean Sea - Burullus.
TIME PERIOD: 1 January - 31 December 1987.
PARAMETERS: (Transect, T° dept, air T° wind, wind speed, wind direction, cloud, water T°, surface T°, water T° bottom, $S°/_{oo}$ surface, $S°/_{oo}$ bottom, O_2 surface, O_2 bottom).
SENSOR/INSTRUMENT:
FILE SIZE: 16,648 bytes.
STORAGE MEDIA/FORMAT: 5.25 HD diskettes, free format.
NARRATIVE SUMMARY: This file contains Limnological characteristics of Burullus.

FINLAND

ORGANIZATION

NAME: Finnish Institute of Marine Research
CONTACT: Finnish Institute of Marine Research
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SF-00931 Helsinki
FINLAND
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Tlx: 125731 IMR SF

DESCRIPTION

The Finnish Institute of Marine Research is the leading (except in fisheries) institute doing research work in marine sciences in Finland. In this role, the institute largely co-ordinates the national oceanographic activities as well as the national and international data exchange.

FILE DESCRIPTIONS

DATA CENTRE: Finnish Institute of Marine Research

FILE: Oceanographic Station Data (ship based).
GEOGRAPHIC COVERAGE: Baltic Sea.
TIME PERIOD: 1898 - present.
PARAMETERS: Principal parameters are T°, S°/$_{oo}$, O_2 and after 1962, also nutrient data, hydrogen sulphide, silicate and pH.
SENSOR/INSTRUMENT: Classical oceanographic bottle stations.
FILE SIZE:
STORAGE MEDIA/FORMAT:
NARRATIVE SUMMARY: Oceanographic data at discrete levels mainly from Nansen or other bottle casts.

DATA CENTRE: Finnish Institute of Marine Research

FILE: CTD Data.
GEOGRAPHIC COVERAGE: Baltic sea.
TIME PERIOD: 1977 - present.
PARAMETERS: T°, S°/$_{oo}$.
SENSOR/INSTRUMENT: CTD.
FILE SIZE:
STORAGE MEDIA/FORMAT:
NARRATIVE SUMMARY:

DATA CENTRE: Finnish Institute of Marine Research

FILE: Fixed Oceanographic Stations Data.
GEOGRAPHIC COVERAGE: Gulf of Bothnia and Gulf of Finland.
TIME PERIOD: 1910 - present.
PARAMETERS: T°, S°/$_{oo}$.
SENSOR/INSTRUMENT: Bottle casts.
FILE SIZE:
STORAGE MEDIA/FORMAT:
NARRATIVE SUMMARY: Classical oceanographic stations near the coast observed on regular basis. Temperature and salinity observations from fixed discrete levels. Measured with about 10-day intervals.

DATA CENTRE: Finnish Institute of Marine Research

FILE: Sea-Level Data.
GEOGRAPHIC COVERAGE: Finnish Coast.
TIME PERIOD: 1887 - present.
PARAMETERS: Water level observations.
SENSOR/INSTRUMENT:
FILE SIZE:
STORAGE MEDIA/FORMAT:
NARRATIVE SUMMARY: Water level observations at the Finnish coast. Longest time-series 1887 - present. Continuous measurements at 13 locations around the Finnish coast.

DATA CENTRE: Finnish Institute of Marine Research

FILE: Wave Data.
GEOGRAPHIC COVERAGE: Gulf of Bothnia, Gulf of Finland and northern Baltic Sea.
TIME PERIOD:
PARAMETERS: Waves.
SENSOR/INSTRUMENT: Wave buoy.
FILE SIZE:
STORAGE MEDIA/FORMAT:
NARRATIVE SUMMARY: Wave buoy measurements from the Gulf of Bothnia, Gulf of Finland and northern Baltic Sea. Data from certain years.

DATA CENTRE: Finnish Institute of Marine Research

FILE: Sea Ice Data Bank.
GEOGRAPHIC COVERAGE: Baltic Sea.
TIME PERIOD: 1963 - present.
PARAMETERS: Ice conditions.
SENSOR/INSTRUMENT:
FILE SIZE:
STORAGE MEDIA/FORMAT:
NARRATIVE SUMMARY: Data of ice conditions such as concentration, thickness and quality of ice at the Baltic Sea. 1963 - present.

DATA CENTRE: Finnish Institute of Marine Research

FILE: Sea Current Data.
GEOGRAPHIC COVERAGE: Gulf of Bothnia, Gulf of Finland, Baltic Sea.
TIME PERIOD:
PARAMETERS: currents.
SENSOR/INSTRUMENT: Current meters.
FILE SIZE:
STORAGE MEDIA/FORMAT:
NARRATIVE SUMMARY: Current meter data from the Gulf of Bothnia, Gulf of Finland and Baltic Sea. Data from discrete projects.

DATA CENTRE: Finnish Institute of Marine Research

FILE: Marine Weather Station Data:
GEOGRAPHIC COVERAGE: Finnish coast.
TIME PERIOD: 1978 - present.
PARAMETERS:
SENSOR/INSTRUMENT:
FILE SIZE:
STORAGE MEDIA/FORMAT:
NARRATIVE SUMMARY: Automatic marine weather station data since 1978. Stations near the Finnish coasts.

GERMANY

ORGANIZATION

NAME: Institut fuer Meereskunde
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GERMANY
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Fax: (49) (37) 58366
Tlx: 31133

DESCRIPTION

The Institute co-operates within the IODE system and also operates according to data and information management guidelines for IOC/WMO IGOSS, ICES - and HELCOM-Programmes.

FILE DESCRIPTION

DATA CENTER: Institut fuer Meereskunde, FD2.

FILE: Hydrological Data Baltic Sea.
GEOGRAPHIC COVERAGE: Baltic Sea, Kattegat, Skagerrak.
TIME PERIOD: 1951 - present.
PARAMETERS: Principal parameters are P, T°, S°/$_{oo}$, O_2, NH_4, PO_4, CO_2, NO_3, NO_2.
SENSOR/INSTRUMENT: Bottle casts.
FILE SIZE: 14,500 stations.
STORAGE MEDIA/FORMAT: Magnetic tapes.
NARRATIVE SUMMARY: 14,500 classical oceanographic bottle stations from research vessels of the IfM. Oceanographic data are measured at discrete depth levels from Nansen or other bottle casts.

DATA CENTER: Institut fuer Meereskunde, FD2.

FILE: CTD data Baltic sea.
GEOGRAPHIC COVERAGE: Baltic Sea, Kattegat, Skagerrak.
TIME PERIOD: 1974 - present.
PARAMETERS: Parameters are P, T°, S°/$_{oo}$, O_2, sound velocity.
SENSOR/INSTRUMENT: CTD.
FILE SIZE: 11,275 stations.
STORAGE MEDIA/FORMAT: Magnetic tapes.
NARRATIVE SUMMARY: 11,275 CTD profiles from stations from research vessels of the IfM. Oceanographic data are on discrete one meter depth levels.

DATA CENTER: Institut fuer Meereskunde, FD2.

FILE: Hydrological Data North Sea.
GEOGRAPHIC COVERAGE: North Sea.
TIME PERIOD: 1965 - present.
PARAMETERS: Principal parameters are P, T°, S°/$_{oo}$, O_2, PO_4, NO_3, NO_2, NH_4, CO_2.
SENSOR/INSTRUMENT: Bottle casts.
FILE SIZE: 2,000 stations.
STORAGE MEDIA/FORMAT: Magnetic tapes.
NARRATIVE SUMMARY: 2,000 classical oceanographic bottle stations from research vessels of the IfM. Oceanographic data are measured at discrete depth levels from Nansen or other bottle casts.

DATA CENTER: Institut fuer Meereskunde, FD2.

FILE: CTD Data North Sea.
GEOGRAPHIC COVERAGE: North Sea.
TIME PERIOD: 1985 - present.
PARAMETERS: Parameters are P, T°, S°/$_{oo}$, O_2, sound velocity.
SENSOR/INSTRUMENT: CTD.
FILE SIZE: 500 stations.
STORAGE MEDIA/FORMAT: Magnetic tapes.
NARRATIVE SUMMARY: 500 CTD stations from research vessels of the IfM. Oceanographic data are on discrete one meter depth levels. The data were send to the ICES.

DATA CENTER: Institut fuer Meereskunde, FD2.

FILE: Hydrological Data Ocean.
GEOGRAPHIC COVERAGE: NE Atlantic, SE Atlantic, Gulf of Guinea, Mozambique Channel.
TIME PERIOD: 1970 - present.
PARAMETERS: Principal parameters are P, T°, S°/$_{oo}$, O_2, NH_4, P, CO_2.
SENSOR/INSTRUMENT: Bottle casts.
FILE SIZE: 3,320 stations.
STORAGE MEDIA/FORMAT: Magnetic tapes.
NARRATIVE SUMMARY: 3,320 stations from research vessels. Oceanographic data are measured at discrete depth levels from Nansen or other bottle casts. The datasets were measured during few expeditions with the research vessel *A.V. Humboldt*. The data from the first 8 cruises are stored in the GATE-Format and distributed to the ICES.

DATA CENTER: Institut fuer Meereskunde, FD2.

FILE: CTD Data Ocean.
GEOGRAPHIC COVERAGE: NE Atlantic, SE Atlantic, Gulf of Guinea, Mozambique Channel.
TIME PERIOD: 1970 - present.
PARAMETERS: Principal parameters are P, T°, S°/$_{oo}$, O_2.
SENSOR/INSTRUMENT: CTD.
FILE SIZE: 1,430 stations.
STORAGE MEDIA/FORMAT: Magnetic tapes.
NARRATIVE SUMMARY: 1,430 CTD stations from research vessels. The datasets were measured during few expeditions with the research vessel *A.V. Humboldt*. The data from the first eight cruises are stored in the GATE-Format and distributed to the ICES.

DATA CENTER: Institut fuer Meereskunde, FD2.

FILE: Current meter data Darss sill.
GEOGRAPHIC COVERAGE: Moored buoy on position 54 41.8' N 12 42.3' E.
TIME PERIOD: 1973 - present.
PARAMETERS: current speed and direction.
SENSOR/INSTRUMENT: Current meter.
FILE SIZE: Hourly means from 4 horizons.
STORAGE MEDIA/FORMAT: Magnetic tapes.
NARRATIVE SUMMARY: Current meter data from the moored buoy on position 54 41.8' N 12 42.3' E. Current meters are situated at 7m, 12m, 17m and 19.5m depth. The bottom depth on this position is 21.5m.

ORGANIZATION

NAME: Deutsches Hydrographisches Institut (DHI)
Deutsches Ozeanographisches Datenzentrum (DOD)
CONTACT: Christophe Brockmann, Director
ADDRESS: Postfach 30 12 20
2000 Hamburg 36
GERMANY
Tel: (49-40) 31901 - Exchange 5202 (C. Brockmann, Director DOD)
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Tlx: 211138 BMVHH D
Email: DHI.HAMBURG (Omnet)

DESCRIPTION

DOD is an NODC within the IODE system. Archived DOD Datasets are available from DOD as copies of specified datasets as well as individual or statistical values on magnetic tape or disc. For the major global files, data are also available as formatted printouts, data summaries, analyses and plots. This information is sorted by cruise number and by a geographic grid system. Tape densities of 800, 1600 and 6250 bpi and IBM-PC compatible floppy disc (5.25" low or high density) can be handled. For detailed information about data files, as well as products, inventories and cost please contact above address.

FILE DESCRIPTIONS

DATA CENTRE: Deutsches Hydrographisches Institut (DHI)
Deutsches Ozeanographisches Datenzentrum (DOD)

FILE: Oceanographic station data from German research vessels.
GEOGRAPHIC COVERAGE: Global, mainly North and Baltic Sea.
TIME PERIOD: 1873 - present.
PARAMETERS: Principal parameters are T°, $S°/_{oo}$ and partially recorded hydrochemicals O_2, P, PO_4, SiO_2, N, NO_2, NO_3, pH, NH_4, H_2S, alkalinity and chlorophyll-a as well as corresponding meteorological information. Derived parameters are computed.
SENSOR/INSTRUMENT: Nansen or other bottle casts.
FILE SIZE: 57,400 stations.
STORAGE MEDIA/FORMAT: Magnetic tape.
NARRATIVE SUMMARY: Classical oceanographic bottle stations, inclusive hydrochemicals (about 15 %). Oceanographic data at discrete depth levels mainly from Nansen or other bottle casts.

DATA CENTRE: Deutsches Hydrographisches Institut (DHI)
Deutsches Ozeanographisches Datenzentrum (DOD)

FILE: CTD/STD-data.
GEOGRAPHIC COVERAGE: Global, mainly North Atlantic, North and Baltic Sea.
TIME PERIOD: 1979 - present.
PARAMETERS: T°, $S°/_{oo}$, others.
SENSOR/INSTRUMENT: CTD/STD.
FILE SIZE: 8,900.
STORAGE MEDIA/FORMAT: Magnetic tape.
NARRATIVE SUMMARY:

DATA CENTRE: Deutsches Hydrographisches Institut (DHI)
Deutsches Ozeanographisches Datenzentrum (DOD)

FILE: BT/XBT-data.
GEOGRAPHIC COVERAGE: Global, mainly North Atlantic, North and Baltic Sea.
TIME PERIOD: 1958 - present.
PARAMETERS: T°/Depth.
SENSOR/INSTRUMENT: Mechanical BT and XBT.
FILE SIZE: 38,200.
STORAGE MEDIA/FORMAT: Magnetic Tape.
NARRATIVE SUMMARY:

DATA CENTRE: Deutsches Hydrographisches Institut (DHI)
Deutsches Ozeanographisches Datenzentrum (DOD)

FILE: Sea surface salinity and/or temperature data.
GEOGRAPHIC COVERAGE: Global, mainly North and Baltic Sea.
TIME PERIOD: 1877 - present.
PARAMETERS: Surface S°/$_{oo}$ and T°.
SENSOR/INSTRUMENT:
FILE SIZE: 207,900 stations.
STORAGE MEDIA/FORMAT: Magnetic Tape.
NARRATIVE SUMMARY:

DATA CENTRE: Deutsches Hydrographisches Institut (DHI)
Deutsches Ozeanographisches Datenzentrum (DOD)

FILE: Moored current time-series.
GEOGRAPHIC COVERAGE: NE Atlantic (GATE, 1974) and North Sea (FLEX, 1976).
TIME PERIOD: 1974, 1976.
PARAMETERS:
SENSOR/INSTRUMENT:
FILE SIZE: 110 stations.
STORAGE MEDIA/FORMAT: Magnetic Tape.
NARRATIVE SUMMARY:

DATA CENTRE: Deutsches Hydrographisches Institut (DHI)
Deutsches Ozeanographisches Datenzentrum (DOD)

FILE: Sea surface current data.
GEOGRAPHIC COVERAGE: Mainly North and Baltic Sea.
TIME PERIOD: 1924 - present.
PARAMETERS: Surface currents.
SENSOR/INSTRUMENT:
FILE SIZE: 788,000 observations.
STORAGE MEDIA/FORMAT: Magnetic Tape.
NARRATIVE SUMMARY: Sea surface current data at German, Federal Republic, light vessels

DATA CENTRE: Deutsches Hydrographisches Institut (DHI)
Deutsches Ozeanographisches Datenzentrum (DOD)

FILE: Vertical current profiles.
GEOGRAPHIC COVERAGE: NE Atlantic (GATE, 1974) and North Sea (FLEX, 1976).
TIME PERIOD: 1974, 1976.
PARAMETERS:
SENSOR/INSTRUMENT:
FILE SIZE: 1,230 stations.
STORAGE MEDIA/FORMAT: Magnetic Tape.
NARRATIVE SUMMARY:

DATA CENTRE: Deutsches Hydrographisches Institut (DHI)
Deutsches Ozeanographisches Datenzentrum (DOD)

FILE: Thermistor chain time-series.
GEOGRAPHIC COVERAGE: NE Atlantic (GATE, 1974) and North Sea (FLEX, 1976).
TIME PERIOD: 1974, 1976.
PARAMETERS:
SENSOR/INSTRUMENT: Thermistor chain.
FILE SIZE: 15 stations.
STORAGE MEDIA/FORMAT: Magnetic Tape.
NARRATIVE SUMMARY:

DATA CENTRE: Deutsches Hydrographisches Institut (DHI)
Deutsches Ozeanographisches Datenzentrum (DOD)

FILE: Wave spectra.
GEOGRAPHIC COVERAGE: NE Atlantic (GATE, 1974) and North Sea (FLEX, 1976).
TIME PERIOD: 1974, 1976.
PARAMETERS: Wave Spectra.
SENSOR/INSTRUMENT:
FILE SIZE: 601 spectra.
STORAGE MEDIA/FORMAT: Magnetic Tape.
NARRATIVE SUMMARY:

DATA CENTRE: Deutsches Hydrographisches Institut (DHI)
Deutsches Ozeanographisches Datenzentrum (DOD)

FILE: Wave observations.
GEOGRAPHIC COVERAGE: Mainly North and Baltic Sea.
TIME PERIOD: 1969 - present.
PARAMETERS:
SENSOR/INSTRUMENT:
FILE SIZE: 272,000 observations.
STORAGE MEDIA/FORMAT: Magnetic Tape.
NARRATIVE SUMMARY: Wave observations at German Federal Republic light vessels.

DATA CENTRE: Deutsches Hydrographisches Institut (DHI)
Deutsches Ozeanographisches Datenzentrum (DOD)

FILE: Tide gauge time-series.
GEOGRAPHIC COVERAGE: North Sea (FLEX, 1976).
TIME PERIOD: 1976.
PARAMETERS: sea-level.
SENSOR/INSTRUMENT: tide gauge.
FILE SIZE: 9 series.
STORAGE MEDIA/FORMAT: Magnetic Tape.
NARRATIVE SUMMARY:

DATA CENTRE: Deutsches Hydrographisches Institut (DHI)
Deutsches Ozeanographisches Datenzentrum (DOD)

FILE: Phytoplankton.
GEOGRAPHIC COVERAGE: North Sea (FLEX, 1976).
TIME PERIOD: 1976.
PARAMETERS:
SENSOR/INSTRUMENT:
FILE SIZE: 434 stations.
STORAGE MEDIA/FORMAT: Magnetic tape.
NARRATIVE SUMMARY:

DATA CENTRE: Deutsches Hydrographisches Institut (DHI)
Deutsches Ozeanographisches Datenzentrum (DOD)

FILE: ROSCOP-Information.
GEOGRAPHIC COVERAGE: Global, mainly North and Baltic Sea.
TIME PERIOD: 1968 - present; 1873 - 1967.
PARAMETERS: All ocean variables.
SENSOR/INSTRUMENT: various.
FILE SIZE: Over 1,500 Cruises.
STORAGE MEDIA/FORMAT:
NARRATIVE SUMMARY: Data inventory. Global, mainly North and Baltic Sea. 1968 - present. Over 1,500 cruises. Also information about 987 cruises 1873 - 1967.

FILE: ROSCOP Forms.
GEOGRAPHIC COVERAGE: Germany.
TIME PERIOD:
PARAMETERS: Many ocean variables.
SENSOR/INSTRUMENT: various.
FILE SIZE:
STORAGE MEDIA/FORMAT: Paper forms.
NARRATIVE SUMMARY: ROSCOP forms providing information about data collected on German Federal Republic research or charter vessels, light vessels as well as lighthouses.

GREECE

ORGANIZATION

NAME: National Centre for Marine Research (NCMR)
CONTACT: Greek National Oceanographic Data Centre (GNODC)
ADDRESS: 166 04 Hellinikon
GREECE
Tel: (30-1) 981 57 03
Fax: (30-1) 983 30 95
Tlx: 224135 NCMR GR

DESCRIPTION

Archived oceanographic datasets are available from coastal and open sea areas of the Aegean Sea (The Archipelago) and Ionian Sea. Data covering the period 1972 to present are stored on MS DOS media format, 1/2" (9 track, 1600 bpi) magnetic tapes, formatted printouts, data reports and scientific papers in paper form. Oceanographic data mainly obtained using reversing bottles, CTD, self recording current meters. Files mainly contain values of temperature, salinity, dissolved oxygen, current speed and direction, marine pollution data.

FILE DESCRIPTIONS

DATA CENTER REFERENCE: GNODC.

FILE: Oceanographic Station Data.
GEOGRAPHIC COVERAGE: Aegean Sea (The Archipelago), Ionian Sea.
TIME PERIOD: 1972 - present.
PARAMETERS: Water T°, $S°/_{oo}$, O_2, water transparency.
SENSOR/INSTRUMENT: Multi-bottle Nansen casts with reversing thermometers, water samplers and STD/CTD.
FILE SIZE: 3,750 stations; 30,675,000 bytes.
STORAGE MEDIA/FORMAT: MS DOS Media/Format, 1/2" magnetic tapes.
NARRATIVE SUMMARY: This file contains physical-chemical oceanographic data recorded at discrete depth levels with 80 % obtained using CTD instruments. Cruise information, position, data and time are reported for each station. CTD datasets exist since 1985.

DATA CENTER REFERENCE: GNODC.

FILE: Current meter station data.
GEOGRAPHIC COVERAGE: Aegean Sea (The Archipelago), Ionian Sea.
TIME PERIOD: 1975 - present.
PARAMETERS: Water T°, $S°/_{oo}$, current speed and direction.
SENSOR/INSTRUMENT: Self recording current meter.
FILE SIZE: 233 stations; 25,920,000 bytes.
STORAGE MEDIA/FORMAT: MS DOS Media/Format, 1/2" magnetic tapes.
NARRATIVE SUMMARY: This file contains self recording current meter datasets. Position, date and time of the first and last records are reported for each station. Current meter datasets exist since 1975.

DATA CENTER REFERENCE: National Centre for Marine Research.

FILE: Marine Pollution Data.
GEOGRAPHIC COVERAGE: Aegean Sea (The Archipelago), Ionian Sea.
TIME PERIOD: 1972- present.
PARAMETERS: Nutrients, heavy metals and chlorinated hydrocarbons.
SENSOR/INSTRUMENT: Technicon Autoanalyzer, Polarography, Gas Chromatography.
FILE SIZE: 3,000 stations, approximately.
STORAGE MEDIA/FORMAT: Reports and Publications in paper form.
NARRATIVE SUMMARY: Chemical pollution data exist since 1972 in technical reports and scientific papers. They concern nutrients, heavy metals and chlorinated hydrocarbons. Sets of basic data on the radioactive pollution in the Aegean Sea (the Archipelago) and Ionian Sea exist since 1975. Ecotoxicological data also from studies in the same areas exist since 1983 and they are archived in technical reports and scientific papers in paper form.

ORGANIZATION

NAME: Hellenic Navy Hydrographic Service (HNHS)
CONTACT: HNHS
ADDRESS: Oceanographic Department
Holargos, TGN 1040
Athens
GREECE
Tel: (30-1) 644 29 86
Tlx: 215835

DESCRIPTION

Oceanographic Data obtained in stations network covering the areas of the Aegean Sea (the Archipelago) and Ionian Sea. Data covering the period 1960 to 1989, are stored on MS DOS media format.
Oceanographic data mainly obtained using Nansen bottles method. CTD also exist for a limited number of stations. Files contain mainly values of temperature, dissolved oxygen, salinity at standard depths. Annual update.

FILE DESCRIPTIONS

DATA CENTER REFERENCE: HNHS.

FILE: Oceanographic Stations Data File.
GEOGRAPHIC COVERAGE: Aegean Sea and Ionian Sea.
TIME PERIOD: 1960 - 1987.
PARAMETERS: T°, dissolved O_2, $S°/_{oo}$ at standard depths.
SENSOR/INSTRUMENT: bottle casts and CTD.
FILE SIZE: 7 Mbytes approximately.
STORAGE MEDIA/FORMAT: MS DOS Media/Format.
NARRATIVE SUMMARY: Oceanographic Data obtained in stations network covering the areas of the Aegean Sea (the Archipelago) and Ionian Sea. From 1960 to 1989, independent files on MS DOS Media/Format. Oceanographic data mainly obtained using Nansen bottles method. CTD data also exist for a limited number of stations. Files contain mainly values of temperature, dissolved oxygen, salinity at standard depths. Annual update. Station data mainly obtained during oceanographic cruises with Hellenic Navy Hydrographic Service vessels.

INDIA

ORGANIZATION

Note that Mr. Sarupria's letter states that they have also approached Central Marine Fisheries Research Institute, Cochin and Geological Survey of India, Calcutta and that the NIO entry includes NIO Remote Sensing Centre AVHRR data holdings.

NAME: Indian National Oceanographic Data Centre (INODC)
CONTACT: Scientist-in-Charge
ADDRESS: National Institute of Oceanography
Dona Paula, Goa 403 004
INDIA
Tel: (91-62) 5356/5988
Fax: (91-62) 0832/4612
Tlx: 194216 NIO IN/194316 MGG IN
Cbl: OCEANOLOGY PANAJI

DESCRIPTION

INODC is an NODC within the IODE system. Archived IODC datasets are available as magnetic tape copies, formatted printouts, data summaries, analysis and plots. Data files are sorted and can be made available season wise, cruise wise, area wise, for various parameters. For details, please refer to the Guidelines for the Distribution/Exchange of Samples and Data, available at the above address. DESCRIBING A DATA HOLDING (Collected during N.O.P. Period 1976-88), IIOE Period (1960-1965), TOGA etc.

FILE DESCRIPTION

DATA CENTER: Indian NODC.

FILE: Geophysical data.
GEOGRAPHIC COVERAGE: Between latitude O° to 24° N and longitude 65° to 70° E.
TIME PERIOD: 1963 - 1978.
PARAMETERS: Navigation, bathymetry, magnetic, gravity and seismics.
SENSOR/INSTRUMENT: Satellite/Sextant, wide beam, air-gun and magnetometer.
FILE SIZE: 1,17,096 records from 43 cruises.
STORAGE MEDIA/FORMAT: Magnetic tapes and microfiche, micro-film reel.
NARRATIVE SUMMARY: Geophysical data of east Arabian Sea have been acquired from National Geophysical Data Centre (NODC), Colorado, USA. The seismic data is in analog form while bathymetry, magnetic and gravity data are in digital form. Internationally, accepted Marine Geophysical Data (MGD-77) format is adopted.

DATA CENTER: India Meteorological Department.

FILE:
GEOGRAPHIC COVERAGE: North of 15° S and between 20 - 100° E.
TIME PERIOD: 1961 - present.
PARAMETERS: Marine Meteorological Parameters viz. dry-bulb T°, wet-bulb, sea-surface T°, clouds, pressure, visibility, weather, wind, waves, etc.
SENSOR/INSTRUMENT: Meteorological instruments in use by the merchant ships.
FILE SIZE:
STORAGE MEDIA/FORMAT:Magnetic tapes, WMO recommended IMMPC and IMMT formats.
NARRATIVE SUMMARY: This is marine meteorological data collected by IVOF and ships of other maritime countries of the World. Data is recorded as per WMO guidelines and it is on magnetic tapes in IMMPC/IMMT formats.

DATA CENTER: Indian NODC.

FILE: Surface-Met.
GEOGRAPHIC COVERAGE: Indian Ocean including Arabian Sea, Bay of Bengal, Laccadive Sea and Andaman and Nicobar Sea.
TIME PERIOD: 1976 - contd.
PARAMETERS: SST, dry bulb T°, wet bulb T°, wind dir. and speed, pressure, cloud type and amount and sea state etc.
SENSOR/INSTRUMENT: Meteorological instruments.
FILE SIZE: 3,270 stations.
STORAGE MEDIA/FORMAT: Floppies (M.S. DOS), Magnetic Tapes.
NARRATIVE SUMMARY: Data collected during the cruises of *R.V. Gaveshani* and *O.R.V. Sagar Kanya*. This also includes wind data received from Indian Meteorological Department for 8 coastal stations for 4 years (1980-1984) at 6 hourly intervals.

DATA CENTER: Indian NODC.

FILE: BT data.
GEOGRAPHIC COVERAGE: Indian Ocean including Arabian Sea, Bay of Bengal, Laccadive Sea and Andaman and Nicobar Seas.
TIME PERIOD: 1960 to date.
PARAMETERS: Water T°.
SENSOR/INSTRUMENT: MBT, XBT and DBT.
FILE SIZE: 1,30,765 stations or profiles.
STORAGE MEDIA/FORMAT: Magnetic tapes in US format and IFS (INODC) format and MS DOS floppies.
NARRATIVE SUMMARY: File contains the data received for US NODC on XBT, MBT for the Indian Ocean. Also data received from TOGA centre for Indian Ocean. It also contains the data collected during IIOE period and collected in the cruises of *R.V. Gaveshani* and *O.R.V. Sagar Kanya* during 1976-1986.

DATA CENTER: Indian NODC.

FILE: Chemical data.
GEOGRAPHIC COVERAGE: Indian Ocean including Arabian Sea, Bay of Bengal, Laccadive Sea and Andaman and Nicobar Seas.
TIME PERIOD: 1960 - contd.
PARAMETERS: O_2, nitrate, nitrite, ammonia, phosphate, silicon, pH, etc.
SENSOR/INSTRUMENT: Nansen bottle.
FILE SIZE: 23,286 stations.
STORAGE MEDIA/FORMAT: Magnetic tapes and MS DOS floppies.
NARRATIVE SUMMARY: The file contains the data collected during IIOE (1960-1965) and data collected by *R.V. Gaveshani* and *O.R.V. Sagar Kanya* (1976-1988).

DATA CENTER: Indian NODC.

FILE: Nansen cast.
GEOGRAPHIC COVERAGE: Indian Ocean including Arabian Sea, Bay of Bengal, Laccadive Sea and Andaman Seas.
TIME PERIOD: 1960 to date.
PARAMETERS: Water T° and $S°/_{oo}$ at different depths.
SENSOR/INSTRUMENT: Nansen bottle with reversing thermometers.
FILE SIZE: 24,116 stations.
STORAGE MEDIA/FORMAT: Magnetic tapes, MS DOS floppies.
NARRATIVE SUMMARY: This file contains the data collected during IIOE (1960-1965), collected by GEOSEC (1977-1978), collected by *R.V. Gaveshani* (1976-1988) and *R.V Sagar Kanya* (1983-1988), ISMEX (1973) and MONEX (1979).

DATA CENTER: Indian NODC (INODC).
FILE: Biological data.
GEOGRAPHIC COVERAGE: Indian Ocean including Arabian Sea, Bay of Bengal and Andaman and Nicobar Sea.
TIME PERIOD: 1960 to date.
PARAMETERS: Zooplankton biomass, zoobenthos biomass, chlorophyll and primary productivity.
SENSOR/INSTRUMENT: Net, grab and 14C-techniques.
FILE SIZE: Chlorophyll - 2,287 stations, Zooplankton biomass - 3,640 stations, Zoobenthos biomass - 1,032 stations, Primary Production - 2,900 stations.
STORAGE MEDIA/FORMAT: Magnetic tapes in IFS format and MS DOS floppies.
NARRATIVE SUMMARY: This file contains the data collected during IIOE (1960-1965), collected by *I.N.S. Darshak* (1973-1974), *R.V. Gaveshani* (1976-1988) and *O.R.V. Sagar Kanya* (1983-1988). Partly data are available on MS DOS floppies.

DATA CENTER: NIO, Remote Sensing Section.

FILE: AVHRR data.
GEOGRAPHIC COVERAGE: Eastern Arabian Sea.
TIME PERIOD: June 1987 to May 1989.
PARAMETERS: Radiance values in Channels 1,2,3,4, and 5.
SENSOR/INSTRUMENT: AVHRR onboard NOAA-9.
FILE SIZE: 1250 x 2048 x 2 bytes.
STORAGE MEDIA/FORMAT : CCT/NRSA-HRPT Format.
NARRATIVE SUMMARY: Each CCT contains 16 bit raw data of radiance values for 2048 pixels for about 1250 scan lines for Channels 1,2,3,4 and 5 of AVHRR onboard NOAA-9.

DATA CENTER: Indian NODC.

FILE: Geochemistry Sedimentology.
GEOGRAPHIC COVERAGE: West Coast of India.
TIME PERIOD: 1976 to 1980.
PARAMETERS: Al_2O_3, Fe, TiO_2, P_2O_5, Al_2O_3, $CaCo_3$, Mn, Ni, Cu, Zn, SiO_2, Fe_2, O_3, Co, Sr and LI.
SENSOR/INSTRUMENT: Core or grab samples.
FILE SIZE: 375 stations..
STORAGE MEDIA/FORMAT: Mag tape, MS DOS floppies.
NARRATIVE SUMMARY: This file contains the Geochemistry data analyzed form core/grab samples collected by *R.V. Gaveshani* cruises (1976-1980).

DATA PRODUCTS

Inventories :

1. Inventory of stations and cruises of *R.V. Gaveshani*. Vol.1, (1976-1980), Ref. No. 1101, Vol. 1, (August 1986).

2. Inventory of stations and cruises of *R.V. Gaveshani*, Vol. 2, (1981-1985), Ref. No. 1102 (August 1986).

3. Inventory of stations and cruises of *O.R.V. Sagar Kanya*, (1983-1985), Vol. 3, Ref. No. 1103, (August 1986).

4. Inventory of cruises and stations of *F.O.R.V. Sagar Sampada*. 1-20 cruises, (February 1985 - September 1986).

5. Inventory of Geological Samples collected by *R.V. Gaveshani* cruises during 1976-1985, Vol. 4, Ref. No. 1104, December 1986.

6. Report on Inventory of the Geophysical cruises and fixes of *R.V. Gaveshani* (1980-1988), February 1989.

7. Inventory of cruises and stations of *R.V. Gaveshani* and *O.R.V. Sagar Kanya*. Ref. No. 1105, Vol. 5, (1986), March 1989.

8. Inventory of cruises and stations of *R.V. Gaveshani* and *O.R.V. Sagar Kanya*, Ref. No. 1106, Vol. 6 (1987), April 1989.

9. Inventory of cruises and stations of *R.V. Gaveshani* and *O.R.V. Sagar Kanya*. Ref. No. 1107, Vol. 7 (1988), May 1989.

10. Inventory of cruises and stations of *F.O.R.V. Sagar Sampada*. 21-50 (September 1986 - September 1988).

Data Reports :

1. Mechanical Bathythermograph Data Report (*R.V. Gaveshani* cruise 1976-1986), Ref. No. 1302, Vol. 1, January 1989.

2. Mechanical Bathythermograph Data Report (*O.R.V. Sagar Kanya* 1983-1986), Ref. No. 1302, Vol. 2, January 1989.

3. Surface Meteorological Data Report of *R.V. Gaveshani* (1976-1985), Ref. No. 1303, September 1989.

4. Nansen Cast Data Report of *R.V. Gaveshani* (1976-1980), Ref. No. 1304, November 1989.

Atlases :

1. Oceanographic Atlas of the EEZ, Ref. No. 1301, (January 1988).

2. Atlas of Mechanical Bathythermograph Data, Ref. No. 1301, Vol. 2, 1989.

General :

1. Oceanographic Tables for Practical Salinity (March 1985).

2. National Guidelines for the Distribution and Exchange of Samples and Data (June 1986).

3. Station Coverage in the Exclusive Economic Zone of India (December 1986).

4. Integrated Inventory Information System (IIIS), (January 1988)

5. Integrated File System (IFS) for Oceanographic Data Management, (March 1988).

6. A Guide to Formats for Marine Geophysical Data Storage and Exchange (July 1988).

7. A Guide to Formats for Biological Data Storage and Exchange (July 1988).

8. A Quality Control Procedure for Temperature Data, Technical Report, 1989.

ORGANIZATION

NAME: Indian National Oceanographic Data Centre (INODC)
CONTACT: Scientist-in-Charge
ADDRESS: National Institute of Oceanography
Dona Paula, Goa 403 004
INDIA
Tel: (91-62) 5356
Tlx: 194-216 NIO IN
Tlg: OCEANOLOGY PANAJI

DESCRIPTION

INODC is an NODC within the IODE system. Archived IODC datasets are available as magnetic tape copies, formatted printouts, data summaries, analysis and plots. Data files are sorted and can be made available season wise, cruise wise, area wise, for various parameters. For details, please refer to the Guidelines for the Distribution/Exchange of Samples and Data, available at the above address. DESCRIBING A DATA HOLDING (Collected during N.O.P. Period 1976-1987)

OCEANOGRAPHIC STATION DATA:

Physical parameter -

	Instruments	Station	methods
1.	Surface Meteorological Observations	4,200	
2.	Temperature and Salinity	2,940	Nansen casts
3.	STD	0,690	Guidelines
4.	MBT	3,060	Plessey
5.	XBT	1,550	Ship hours
6.	WAVE	2,558	

Chemical Parameters -

	Instruments	Stations	Methods
1.	O_2	2,540	
2.	pO_4	2,340	
3.	NO_2	2,230	
4.	NO_3	2,310	Standard
5.	SIO_2	1,540	Analysis
6.	ALK	0,768	
7.	pH	1,887	
8.	TRC - trace elements	00,96	
9.	NH_4	0,458	

Marine Pollution Parameters -

		Stations
1.	Suspended solids	210 (upto 1985)
2.	Heavy metals	138 (")
3.	Petroleum residues	222 (")
4.	Chlorinated hydrocarbon	325 (")
5.	Pesticides	78 (")

Biological Parameters -

	Instruments	Stations	methods
1.	Primary productivity	887	Van Dorn Sampler
2.	Phytoplankton pigments	412	Spectrophoto-meter
3.	Phytoplankton	287	Plankton sampler, nets
4.	Particulate organic carbon	567	
5.	Zooplankton	1,870	IOSN 200-0m Std. hauls
6.	Zoobenthos	1,178	Ekman dredge
7.	Chlorophyll	774	
8.	Microbiological	259	

Geological Parameters -

	Instruments	Stations	methods
1.	Grab samples	1,420	Peterson's grab
2.	Cores	120	Snapper, cores
3.	Dredge	165	
4.	Pictures of the sea floor	15	

OCEANOGRAPHY UNDERWAY DATA

Geophysical Parameters -

1.	Bathymetric data	54,000 line k.m.
2.	Magnetic data	47,200 line k.m.
3.	Seismic data	32,000 line k.m.
4.	Gravity data	8,000 line k.m.
5.	Side scan sonar	16,220 line k.m.

OCEANOGRAPHIC TIME-SERIES DATA

	Instruments	Stations	methods
1.	Current data	72	Mooring
2.	Wave	1,929	

GEOGRAPHIC AREA NAMES:

1. Arabian Sea
2. Laccadive Sea
3. Bay of Bengal
4. Andaman or Burma Sea
5. Indian Ocean
6. Indian Ocean sector of Southern Ocean

List of Useful Data Products Published by INODC

1. Five volumes of Inventory Reports of stations and cruises
2. Oceanographic Atlas of the Exclusive Economic Zone of India
3. Data reports
4. Oceanographic coverage status

For purchase, contact:

Publication Section
National Institute of Oceanography
Dona-Paula
Goa - 403 004
INDIA

ORGANIZATION

NAME: Indian National Oceanographic Data Centre (INODC)
CONTACT: Scientist-in-Charge
ADDRESS: Indian National Oceanographic Data Centre (INODC)
National Institute of Oceanography
Dona Paula, Goa 403 004
INDIA
Tel: (91-62) 5356
Tlx: 194-216 NIO IN
Tlg: OCEANOLOGY PANAJI

DESCRIPTION

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IRAQ

ORGANIZATION

NAME: Marine Science Centre, Basrah University
CONTACT: Marine Science Centre, Basrah University
ADDRESS:

DESCRIPTION

The idea of establishing an institution concerned with the study of the marine environment in the Irakian marine waters (Arabian Gulf) was born in 1971 following investigations carried out by UNESCO and presented to the University of Basrah. In February 1981, by a Republican decree, the centre was established and all research in marine fields throughout Iraq became part of this Institute. The Centre is directed by its General Manager, Dr. Najah Hussain, assisted by an administration board, consisting of the heads of the following departments:

1. Dept. of Environment Marine Chemistry (DEMC)
2. Dept. of Physical Oceanography of Estuarine and Coastal
3. Dept. of Marine Geology
4. Dept. of Marine Biology
5. Dept. of Marine Vertebrates (The Marine Data Unit [MDU])

This unit has been established since 1985 and is a member of the International Oceanographic Data Exchange of UNESCO. Its main aim is to exchange marine data from the Arabian Gulf and the inland waters of Iraq through IODE to all over the world and to support the research programmes by marine data in the Shatt-al Arab and Arabian Gulf. This unit consists of 3 sections:

1. Computer section
2. Library section
3. Secretary section

These sections are run by 2 qualified Phd's and one Msc., in addition to the secretary.

JAPAN

ORGANIZATION

NAME: Japan Oceanographic Data Center
CONTACT: Hydrographic Dept, Maritime Safety Agency
ADDRESS: 5-3-1, Tsukiji, Chuo-ku
Tokyo 104
JAPAN
Tel: (81-3) 3541-3811
Fax: (81-3) 3545-2885
Tlx: 2522452 JODC J
Email: T.MORI (Omnet), [JODC.TOKYO/JODC]ATI/JAPAN (Internet)

DESCRIPTION

JODC is a NODC within the IODE system and serves as RNODCs for WESTPAC, IGOSS, MARPOLMON, and ADCP. Archived JODC datasets are available from JODC as magnetic tape copies of specified datasets. Data are on 6250 bpi tapes unless noted as being 1600 bpi tapes.

FILE DESCRIPTIONS

FILE: Oceanographic Station Data File.
GEOGRAPHIC COVERAGE: Global.
TIME PERIOD: 1906 - present.
PARAMETERS: Principal parameters are T° and S°/$_{oo}$, however, O_2, PO_4, PO, NO_2, NO_3, pH, Si and another 16 parameters maybe recorded, as well as weather condition. Values of sound velocity, sigma-t, dynamic depth anomaly, thermosteric anomaly and specific volume are computed.
SENSOR/INSTRUMENT: Classical oceanographic bottle stations.
FILE SIZE: 400,868 Stations; cruise file/geofile 3 tapes storage.
MEDIA/FORMAT: 6250 bpi magnetic tapes.
NARRATIVE SUMMARY: Oceanographic data at discrete depth and standard depth interpolated, including data observed under framework of IOC-WESTPAC project. Published in CSK, KER-data report, oceanographic atlas for JRK and serial station data catalogue annually.

FILE: STD data file.
GEOGRAPHIC COVERAGE: Northwestern pacific.
TIME PERIOD: 1977 - present.
PARAMETERS: T°, S°/$_{oo}$.
SENSOR/INSTRUMENT: STD.
FILE SIZE: 2,691 stations.
STORAGE MEDIA/FORMAT: Magnetic tapes 6250 BPI.
NARRATIVE SUMMARY: Oceanographic data from STD. Published in KER-data report and oceanographic atlas for JRK annually.

FILE: CTD data file.
GEOGRAPHIC COVERAGE: Northwestern pacific.
TIME PERIOD: 1983 - present.
PARAMETERS: T°, S°/$_{oo}$.
SENSOR/INSTRUMENT: CTD.
FILE SIZE: 1,940 stations.
STORAGE MEDIA/FORMAT: Magnetic tapes 6250 bpi.
NARRATIVE SUMMARY: Oceanographic data from STD. Published in KER-data report and oceanographic atlas for JRK annually.

FILE: BT (MBT, XBT, DBT) Data file.
GEOGRAPHIC COVERAGE: Mostly global (see narrative).
TIME PERIOD: 1942 - present (see narrative).
PARAMETERS: T°/depth profiles.
SENSOR/INSTRUMENT: Bathythermographs.
FILE SIZE: MBT - 1,264,142 Stations, XBT - 461,501 Stations, XBT - 30,790 Stations
STORAGE MEDIA/FORMAT: Magnetic tapes, 6250 bpi.
NARRATIVE SUMMARY: Mechanical bathythermograph (MBT): 1,264,142 stations. Global. 1942 - Present. Expendable Bathythermograph (XBT): 461,501 stations. Global. 1966 - present. Digital Bathythermograph (DBT): 30,794 stations. Adjacent seas of Japan. 1977 - Present. Published in CSK, KER-data report and oceanographic atlas for JRK annually. Bathythermographic data at discrete depth levels and standard depth levels interpolated.

FILE: Ocean current data file.
GEOGRAPHIC COVERAGE: Northwestern pacific.
TIME PERIOD: 1953 - present.
PARAMETERS: Current direction, velocity.
SENSOR/INSTRUMENT: GEK, ADCP.
FILE SIZE: 205,613 stations.
STORAGE MEDIA/FORMAT: Magnetic tape 6250 bpi.
NARRATIVE SUMMARY: Ocean current data observed by GEK. Published in CSK, KER data report and oceanographic atlas for JRK annually.

FILE: IGOSS BATHY/TESAC data file.
GEOGRAPHIC COVERAGE: Northwestern pacific and global (see narrative summary).
TIME PERIOD: 1976 - present (see file size).
PARAMETERS: T° and depth.
SENSOR/INSTRUMENT: Bathythermograph.
FILE SIZE: 1976 - 1981. 68,963 stations; 1982 - present. 310,564 Stations.
STORAGE MEDIA/FORMAT: Magnetic tape 6250 bpi.
NARRATIVE SUMMARY: 1976 - 1981 Northwest pacific; 1982 - present file is global. Data observed under framework of IOC. IGOSS project and collected as RNODC. Semi-annual catalogues submitted to IOC.

FILE: MARPOLMON data file.
GEOGRAPHIC COVERAGE: Northwestern pacific and Indian ocean.
TIME PERIOD: 1975 - present.
PARAMETERS: Tar ball, oil slick, beach tar and hydrocarbon.
SENSOR/INSTRUMENT: Visual observations.
FILE SIZE: 134,855 stations.
STORAGE MEDIA/FORMAT: Magnetic tape 6250 bpi.
NARRATIVE SUMMARY: Data observed under framework of IOC-MARPOLMON project and collected as RNODC. File is composed of data on tar ball, oil slick, beach tar and hydrocarbon.

FILE: Wave data file.
GEOGRAPHIC COVERAGE: Coasts of Japan.
TIME PERIOD: See narrative summary.
PARAMETERS: Wave direction, height and period.
SENSOR/INSTRUMENT: See narrative summary.
FILE SIZE: See narrative summary.
STORAGE MEDIA/FORMAT: Magnetic tape 6250 bpi.
NARRATIVE SUMMARY: Observed with instruments 1977 - present. 20 Stations. Observed visually on board. 1978 - Present. 320,760 Points. Observed at lighthouses. 1953 - Present. 27 Stations.

FILE: Tidal harmonic constants file.
GEOGRAPHIC COVERAGE: Coasts of Japan.
TIME PERIOD: 1882 - present.
PARAMETERS: Harmonic constants.
SENSOR/INSTRUMENT: Tide gauges.
FILE SIZE: 736 stations.
STORAGE MEDIA/FORMAT: Magnetic tape 6250 bpi.
NARRATIVE SUMMARY: Composed of results of 15 days, 30 days, 369 days harmonic analysis. Harmonic constants table published in 1992 by Hydrographic Department, Maritime Safety Agency.

FILE: Tidal data file.
GEOGRAPHIC COVERAGE: Coasts of Japan.
TIME PERIOD: 1961 - present.
PARAMETERS: Tidal heights.
SENSOR/INSTRUMENT: Tide gauges.
FILE SIZE: 92 stations.
STORAGE MEDIA/FORMAT: Magnetic tape 6250 bpi.
NARRATIVE SUMMARY: Hourly heights of tide stations.

FILE: Tidal current data file.
GEOGRAPHIC COVERAGE: Coasts of Japan.
TIME PERIOD: 1923 - present.
PARAMETERS: Tidal current direction and speed + interpolated values.
SENSOR/INSTRUMENT: Current meters.
FILE SIZE: 17,504 stations.
STORAGE MEDIA/FORMAT: Magnetic tape 6250 bpi.
NARRATIVE SUMMARY: Tidal current data measured by current meter for 1 day, 15 days, 30 days and 1 year. Data is composed by direction and speed at regular sampling interval or irregular sampling interval, interpolated values at every hour, tidal current harmonic constants and tidal current ellipse.

FILE: Marine organisms data file.
GEOGRAPHIC COVERAGE: Northwestern pacific.
TIME PERIOD: 1975 - present.
PARAMETERS: Plankton.
SENSOR/INSTRUMENT: Water sampling bottle, plankton net.
FILE SIZE: 10,000 stations.
STORAGE MEDIA/FORMAT: Magnetic tape 6250 bpi.
NARRATIVE SUMMARY: This file contains plankton data collected by principal Japanese marine research organizations.

FILE: MGD77 file.
GEOGRAPHIC COVERAGE: Global.
TIME PERIOD: 1953 - present.
PARAMETERS: Bathymetry, magnetic and gravity observed on board.
SENSOR/INSTRUMENT: Various geophysical instruments.
FILE SIZE: 11,851,822 records.
STORAGE MEDIA/FORMAT: Magnetic tape in MGD77 format.
NARRATIVE SUMMARY: This file contains bathymetry, magnetic and gravity data in the Pacific Ocean. Data sources are mainly from Japan and the United States. Data are stored in MGD77 format.

FILE: Bathymetric plotting sheets.
GEOGRAPHIC COVERAGE: Adjacent seas of Japan.
TIME PERIOD: 1920 - present.
PARAMETERS: Bathymetry.
SENSOR/INSTRUMENT: Echo, wire.
FILE SIZE: Digitized from 384 charts; 1,348,605 points.
STORAGE MEDIA/FORMAT: Magnetic tape 6250 bpi.
NARRATIVE SUMMARY: This file contains each sounding, bottom sediment, contour lines and coast lines digitized from the basic maps of the sea of a scale at 1:50,000 and 1:1m plotting sheets of GEBCO.

FILE: ROSCOP file.
GEOGRAPHIC COVERAGE: Western Pacific.
TIME PERIOD: 1975 - present.
PARAMETERS: See narrative summary.
SENSOR/INSTRUMENT: See narrative summary.
FILE SIZE: 2,400 cruises.
STORAGE MEDIA/FORMAT: Paper forms, magnetic tapes.
NARRATIVE SUMMARY: Data inventory forms from 6 countries, providing information on ocean surveys conducted in the Western Pacific.

REPUBLIC OF KOREA

ORGANIZATION

NAME: Korea Oceanographic Data Centre (KODC)
ADDRESS: National Fisheries Research and Development Agency
Shirang-Ri, Kijang-Up, Yangsan-Gun, Kyungsangnam-Do 626-900
REPUBLIC OF KOREA
Tel: (82-51) 465 00 91
Fax: (82-52) 361 80 76
Tlx: K 52647

DESCRIPTION

The KODC is a NODC within the IODE system. According to the spirit of IODE, the KODC data are exchanged only through NODCs in principle, and in this case there are no charges for providing them. The KODC data are available on magnetic tape, floppy disk, VCR tape, hard copy and published data. The data can be made on 1600 bpi magnetic tape.

FILE DESCRIPTIONS

FILE: Korean Serial Oceanographic Stations Data (KSD).
Korean Coastal Oceanographic Data (KCD).
Korean Remote Sensing Data (KRD).
GEOGRAPHIC COVERAGE: Yellow Sea, Japan Sea and East China Sea.
TIME PERIOD:
PARAMETERS:
KSD: Water T°, S°/$_{oo}$, O_2, nutrients, pH, water colour, water transparency, plankton, air T°, barometric pressure, wind, wave, swell, cloud, weather.
KCD: SST, air, T°, specific gravity, weather, cloud, precipitation.
KRD: SST from AVHRR data of NOAA satellites.
SENSOR/INSTRUMENT:
KSD: Multi-bottle Nansen casts with reversing thermometers and CTD.
KCD: Water sampler, thermometer and hydrometer.
KRD: NOAA HRPT receiver and multi-analyzing remote sensing systems.
FILE SIZE:
KSD: 29,962 stations.
KCD: 400,555 days.
KRD: 320MB per day.
STORAGE MEDIA/FORMAT:
NARRATIVE SUMMARY: Korean Serial Oceanographic Stations Data have been routinely obtained at the 175 fixed stations in the area 33° N - 38° N and 124° E - 132° E by the National Fisheries Research and Development Agency (NFRDA) since 1917. The data from 1961 to 1990 are now available on magnetic tape or floppy disk. Korean Coastal Oceanographic Data have been obtained at the 81 fixed stations, mainly island lighthouses since 1916 by NFRDA. Among them, the data from 41 stations for 1923-1982 have been computerized and other data are being computerized. Korean Remote Sensing Data are AVHRR data received by HRPT from NOAA satellites since 1990 and they are collected 4 times a day by the Marine Remote Sensing Laboratory, NFRDA. The covered area is 25° N - 45° N and 120° E - 140° E. The raw data are stored on 8mm VCR tape and the processed data are stored on magnetic tapes.

NETHERLANDS

ORGANIZATION

NAME: Netherlands Centre for Oceanographic Data
CONTACT: Director
ADDRESS: C/O KNMI
P.O.Box 201
3730 AE de Bilt
NETHERLANDS
Tel: (31-30) 20 66 41
Fax: (31-30) 21 04 07
Tlx: 47096 KNMI/NCOG
Email: P.GEERDERS (Omnet)

DESCRIPTION

NCOG is an NODC within the IODE system. The NCOG holds no data but referral information to marine data and related information. Data and information can be made available on a variety of media, including magnetic tape and floppy diskette. NCOG publishes regularly a survey of planned and completed marine research projects. NCOG also holds information about expertise in the marine field, about foreign research projects along the Dutch coast, a list of abbreviations and acronyms and a list of satellite images of the SE North Sea. It is possible that NCOG will be integrated with MARIS (Marine Information Service) from 1 1 January 1989.

FILE DESCRIPTIONS

FILE: ROSCOP file.
GEOGRAPHIC COVERAGE: Global.
TIME PERIOD:
PARAMETERS: see Narrative summary.
SENSOR/INSTRUMENT: not applicable.
FILE SIZE:
STORAGE MEDIA/FORMAT:
NARRATIVE SUMMARY: Information about planned and completed Dutch oceanographic research cruises all over the world. Format based upon the ROSCOP form.

FILE: FOREIGN RESEARCH file.
GEOGRAPHIC COVERAGE: Dutch waters.
TIME PERIOD:
PARAMETERS: not applicable.
SENSOR/INSTRUMENT: not applicable.
FILE SIZE:
STORAGE MEDIA/FORMAT:
NARRATIVE SUMMARY: A list of descriptions of planned foreign research projects in the Dutch waters, based upon applications at the Foreign Affairs Department.

FILE: SATELLITE IMAGES file.
GEOGRAPHIC COVERAGE: SE North Sea.
TIME PERIOD:
PARAMETERS: imagery.
SENSOR/INSTRUMENT:
FILE SIZE:
STORAGE MEDIA/FORMAT:
NARRATIVE SUMMARY: A list of short descriptions of mainly NOAA satellite imagery of the SE North Sea, with rough indication of cloud cover.

NORWAY

ORGANIZATION

NAME: Norsk Oseanografisk Datasenter (NOD)
CONTACT: NOD
ADDRESS: Postboks 1870/72
5024 Bergen
NORWAY
Tel: (47) 532 71 69
Fax: (47) 532 13 59
Tlx: 42297 OCEAN N
Email: NODS.NORWAY (Omnet)

DESCRIPTION

NOD is an NODC within the IODE system. Data are available from NOD as magnetic tape, printouts, data summaries, analyses and plots. The data are sorted by geographic area.

FILE DESCRIPTION

FILE: Classical oceanographic bottle stations and vertical profiles.
GEOGRAPHIC COVERAGE: Mainly North East Atlantic.
TIME PERIOD: 1900 - present.
PARAMETERS: Principal parameters are T°, S°/$_{oo}$, however O_2, PO_4, P, SiO_2, NO_2 and NO_3 may be recorded. Values of sound velocity, sigma-T and dynamic depth anomaly are computed.
SENSOR/INSTRUMENT: Bottle casts or STD/CTD.
FILE SIZE: 200,000 stations.
STORAGE MEDIA/FORMAT:
NARRATIVE SUMMARY: Classical oceanographic bottle stations and vertical profiles (STD/CTD). Global data subsets by a geographic grid system. Oceanographic data at discrete depth levels mainly from Nansen bottle casts.

PAKISTAN

ORGANIZATION

NAME: National Oceanographic Data Centre
CONTACT: National Oceanographic Data Centre
ADDRESS: National Oceanographic Data Centre
C/o National Institute of Oceanography
37-K Block 6
P.E.C.H.S.
Karachi
PAKISTAN
Tel: (92-21) 43 43 08/44 04 60
Tlx: 24681 NIO PK

DESCRIPTION

Special request forms are available for the demand of data archived in the NODC Pakistan. Presently, data can be had either on magnetic medias, like tapes and floppy disks, or through computer printouts. Datasets are presently stored in ICES (International Council for the Exploration of the Sea) formats, however, on IODE's recommendation, measures are underway to switch the formats to GF3. Data files are sorted by cruise number, geographic grid system (WMO) and on temporal basis.

FILE DESCRIPTIONS

FILE: Oceanographic Station Data.
GEOGRAPHIC COVERAGE: Arabian Sea.
TIME PERIOD:
PARAMETERS: Principal parameters are T° and S°/$_{oo}$; however, O_2, PO_4, SiO_2, NO_2, NO_3 and pH are also recorded where possible, together with important meteorological information in the header structure.
SENSOR/INSTRUMENT: Nansen bottles.
FILE SIZE:
STORAGE MEDIA/FORMAT: Magnetic Tape in ICES Format.
NARRATIVE SUMMARY: Oceanographic data at discrete depths from Nansen bottles for the Arabian Sea.

FILE: Tidal Data.
GEOGRAPHIC COVERAGE: Karachi Port, Gwadar Port.
TIME PERIOD: 1960 - present (Karachi); 1987 (Gwadar).
PARAMETERS: Hourly Tides.
SENSOR/INSTRUMENT:
FILE SIZE:
STORAGE MEDIA/FORMAT: Some on magnetic Tape (see narrative).
NARRATIVE SUMMARY: Long period hourly tidal data is available (presently, not all on magnetic storage) for the Karachi Port, since 1960 (with minor gaps). Tidal data is also available for the Gwadar Port, since January 1987.

FILE: Sea-Level Data.
GEOGRAPHIC COVERAGE: Mainly Karachi Port.
TIME PERIOD: 1916 - present, with gaps (see narrative).
PARAMETERS: Mean sea-level.
SENSOR/INSTRUMENT:
FILE SIZE:
STORAGE MEDIA/FORMAT:
NARRATIVE SUMMARY: Mean sea-level data is available for the Karachi Port for the following years: 1916-1920, 1937-1948, 1957-present. Limited sea-level data is also available for Gwadar.

FILE: Bathythermograph Data.
GEOGRAPHIC COVERAGE: Arabian Sea.
TIME PERIOD:
PARAMETERS: T° profiles.
SENSOR/INSTRUMENT: Micon BT and XBT.
FILE SIZE: 100 (MBT) and 30 (XBT).
STORAGE MEDIA/FORMAT:
NARRATIVE SUMMARY: Hundred station data using Micon BT and 30 station data using XBT are available for the Arabian Sea.

PANAMA

ORGANIZATION

NAME: Centro de Estudios de Recursos Bioticos
CONTACT: c/o Vicerrectoria de Investigacion y Postgrado
ADDRESS: Centro de Estudios de Recursos Bioticos
c/o Vicerrectoria de Investigacion y Postgrado
Universidad de Panama
Estafeta Universitaria
PANAMA
Tel: (507) 23 99 85/69 22 95
Tlx: 2661 CAB PUB ATTN PG

DESCRIPTION

The main objectives of the Biotic Resources Study Centre are as follows:

- evaluation of the state of the country's renewable natural resources;
- identification of critical areas and the causes of the problems involved;
- quantification of the impact of the devastation of renewable natural resources;
- development of programmes or projects designed to rescue, preserve, improve, reproduce and develop our renewable natural resources;
- provision of environmental education for various sections of the population and controlling pressure on the renewable natural resources of the national marine environment.

FILE DESCRIPTIONS

FILE: Near Sea Floor.
GEOGRAPHIC COVERAGE: Caribbean Sea, South Pacific Ocean.
TIME PERIOD:
PARAMETERS: T°, S°/$_{oo}$.
SENSOR/INSTRUMENT: see narrative summary.
FILE SIZE:
STORAGE MEDIA/FORMAT:
NARRATIVE SUMMARY: Records of temperature and records of salinity by means of instruments such as refractometers of salinity and salinometers or chemical analysis by indirect measurement of chlorinity and use of Knudsens tables. Temperature is recorded by means of thermometers and densimeters with temperature scales.

FILE: Chemical.
GEOGRAPHIC COVERAGE: Caribbean Sea, South Pacific Ocean.
TIME PERIOD:
PARAMETERS: O_2, phosphates, nitrates, pH.
SENSOR/INSTRUMENT: see narrative summary.
FILE SIZE:
STORAGE MEDIA/FORMAT:
NARRATIVE SUMMARY: The traditional Winkler method is used for oxygen. A model 340 Sequoia Turner digital spectrophometer is used for phosphates and nitrates and an Orion pH-meter for pH.

FILE: Pollution.
GEOGRAPHIC COVERAGE: Caribbean Sea, South Pacific Ocean.
TIME PERIOD:
PARAMETERS: Heavy metals, Oil residues, Chlorinated hydrocarbons.
SENSOR/INSTRUMENT:
FILE SIZE:
STORAGE MEDIA/FORMAT:
NARRATIVE SUMMARY:

FILE: Biology.
GEOGRAPHIC COVERAGE: Caribbean Sea, South Pacific Ocean.
TIME PERIOD:
PARAMETERS: Microbiology, Herpetology, Birds, Mammals, Commercial benthic crustaceans.
SENSOR/INSTRUMENT: see narrative summary.
FILE SIZE:
STORAGE MEDIA/FORMAT: Publications, papers others.
NARRATIVE SUMMARY: Types of Study.
Identification.
Spatial and temporal distribution.
Monitoring and surveillance.
Description of communities.
Communities and the environment.
Structure of communities.
Taxonomy, systematics, classification.
Behaviour.
Pathology and parasitology.
Sea farming.

RUSSIAN FEDERATION

ORGANIZATION

NAME: Ukrainian Academy of Sciences Marine Hydrophysical Institute (MGI)
CONTACT: MGI
ADDRESS: 28, Lenin Str.
Sebastopol 335000
RUSSIAN FEDERATION
Tel: (70692) 52 53 10/52 07 92
Tlx: 187 115 SWSWO SU HYDROPHYS

DESCRIPTION

MGI databases are available as certain datasets, sorted out by region or time, on EC magnetic tapes or on IBM-PC compatible diskettes according to the database.

FILE DESCRIPTIONS

FILE: The Black Sea.
GEOGRAPHIC COVERAGE: Black Sea.
TIME PERIOD: 1910 - 1989.
PARAMETERS: see narrative summary.
SENSOR/INSTRUMENT: see narrative summary.
FILE SIZE: 40,000 stations.
STORAGE MEDIA/FORMAT: magnetic tapes and diskettes.
NARRATIVE SUMMARY: Vertical profiles of oceanographic features for 1910-1989; meteorological observations at coastal stations for 1984; hydrochemical observations for 1984-1987. 40,000 stations. Magnetic tape. Oceanographic data include temperature and salinity recording at standard depths using bathometers or Istok instruments with a resolution of 5m. Meteorological observations include wind velocity and wind direction, air temperature and air humidity, air pressure, etc. The OKA database management system is used to operate the database.

FILE: The Atlantic.
GEOGRAPHIC COVERAGE: Atlantic Ocean - 20° S to 60° N.
TIME PERIOD: 1900 - 1989.
PARAMETERS: T° and S°/$_{oo}$.
SENSOR/INSTRUMENT: bathometers, STD sondes.
FILE SIZE: 80,000 stations.
STORAGE MEDIA/FORMAT: Magnetic tapes and diskettes.
NARRATIVE SUMMARY: Vertical profiles of oceanographic features for 1900-1989. Oceanographic data include temperature and salinity recording at standard depths or with a resolution of 5m. The OKA database management system is used to operate the database.

FILE: The Black Sea - Interkosmos - 1984 Experiment.
GEOGRAPHIC COVERAGE: North-West Black Sea.
TIME PERIOD: 1984.
PARAMETERS: transparency, T°, S°/$_{oo}$, chlorophyll a content.
SENSOR/INSTRUMENT: see narrative summary.
FILE SIZE: 36 stations.
STORAGE MEDIA/FORMAT: IBM-PC compatible diskette.
NARRATIVE SUMMARY: Vertical profiles of oceanographic features and visual range seastate remote sensing data. Oceanographic data with 5m. intervals to the depth of 100m. Principal parameters are transparency, temperature, salinity, chlorophyll-a content. For a number of stations, data are available for colour index, transparency measured with Secchi disk, sea radiance index spectra, diffuse reflectance, vertical attenuation co-efficient, non-organic phosphorus content, atmospheric transparency spectra, sea surface irradiance spectra, sky brightness indicatrix. For a number of stations, complementary aircraft data are available for sea radiance spectra measured at different altitudes.

FILE: Hydro-optical Features for Coastal Guinea.
GEOGRAPHIC COVERAGE: NE Atlantic, Coastal Guinea (depth range: 0.5 - 30m).
TIME PERIOD: 1980 - 1986.
PARAMETERS: transparency measured with Secchi disk, T°, and S°/$_{oo}$, at the surface; see narrative for others.
SENSOR/INSTRUMENT: see narrative summary.
FILE SIZE: 670 stations.
STORAGE MEDIA/FORMAT: IBM-PC compatible diskette.
NARRATIVE SUMMARY: Hydro-optical, hydrological, chemical and biological features mostly for 0m. depth. Principal parameters are transparency measured with Secchi disk, temperature and salinity at the surface. Complementary parameters are Si, suspended matter, chlorophyll-a, seston; water colour, colour indices for 6 spectral bands at standard depths from one to 4.

FILE: Hydrological and Hydrochemical Features for Coastal Guinea.
GEOGRAPHIC COVERAGE: Guinean coastal waters (including estuaries).
TIME PERIOD: 1981 - 1987.
PARAMETERS: Principal parameters are T°, S°/$_{oo}$; see narrative summary for others.
SENSOR/INSTRUMENT: sampling by bathometers.
FILE SIZE: 1,400 stations.
STORAGE MEDIA/FORMAT: IBM-PC compatible diskette.
NARRATIVE SUMMARY: Hydrological and hydrochemical features of Guinean coastal waters (including estuaries) at selected depths. Principal parameters are temperature and salinity. Complementary parameters are dissolved oxygen, phosphates, silicates, pH, alkalinity.

FILE: The Black Sea - Secchi disk.
GEOGRAPHIC COVERAGE: Black Sea.
TIME PERIOD: 1977 - 1989.
PARAMETERS: transparency measured with Secchi disk and water colour by Forel-Ule's colour scale.
SENSOR/INSTRUMENT: Secchi dish and Forel-Ule's colour scale.
FILE SIZE: 570 stations.
STORAGE MEDIA/FORMAT: IBM-PC compatible diskette.
NARRATIVE SUMMARY: Measurements have been made in the Black Sea aquatorium from MGI's ships.

FILE: The Black Sea - Transparency Profiles.
GEOGRAPHIC COVERAGE: Black Sea.
TIME PERIOD: 1976 - 1989.
PARAMETERS: vertical transparency profiles at an individual wave length.
SENSOR/INSTRUMENT: sounding transparency meters.
FILE SIZE: 1,005 profiles.
STORAGE MEDIA/FORMAT: IBM-PC compatible diskette.
NARRATIVE SUMMARY: Conductivity measurements at an individual wave length from 405-465mm up to 100-400m using sounding transparency meters designed at MGI.

ORGANIZATION

NAME: All Union Research Institute of Hydrometeorological Information - World Data Centre (VNIIGMI-WDC)
CONTACT: VNIIGMI-WDC
ADDRESS: 6, Korolev Str.
Obninsk, Kaluga 249020
RUSSIAN FEDERATION
Tel: (7-8439) 239 10
Fax: (7-8439) 255 66 84
Tlx: 412633 INFOR SU

DESCRIPTION

VNIIGMI-WDC conducts acquisition, processing and holding of environmental data as well as makes them available to users. Global oceanographic datasets held in national format are available from VNIIGMI-WDC as 1600 bpi magnetic tape copies or data products (i.e., formatted printouts, data summaries, analyses and plots).

FILE DESCRIPTIONS

FILE: IGOSS Temperature and Salinity Data Received via GTS.
GEOGRAPHIC COVERAGE: North Pacific Ocean, Baltic Sea, North Sea, Indian Ocean, North Atlantic Ocean.
TIME PERIOD: 1984 - present.
PARAMETERS: T°, S°/$_{oo}$.
SENSOR/INSTRUMENT: variable.
FILE SIZE: 243,000 reports (BATHY), 42,000 reports (TESAC).
STORAGE MEDIA/FORMAT: 2 magnetic tapes.
NARRATIVE SUMMARY: IGOSS verified Soviet and foreign datasets (BATHY/TESAC reports) available for international exchange without restriction.

FILE: Meteorological Data for the North Atlantic Ocean.
GEOGRAPHIC COVERAGE: North Atlantic Ocean.
TIME PERIOD: 1982 - 1987.
PARAMETERS: water and air T°, air pressure, dew point T°.
SENSOR/INSTRUMENT: meteorological instruments.
FILE SIZE: 2,698,441 observations.
STORAGE MEDIA/FORMAT: 8 magnetic tapes.
NARRATIVE SUMMARY: Ranged Soviet and foreign dataset for major parameters (water and air temperature, air pressure, dew point temperature) from ship observations. 2,698,441 observations (1982 - 338,347, 1983 - 340,782, 1984 - 396,897, 1985 - 501,157, 1986 - 561,852, 1987 - 559,406).

FILE: Hydrological and Hydrochemical Data from Co-operative Investigations in the Mediterranean (CIM).
GEOGRAPHIC COVERAGE: Mediterranean Sea.
TIME PERIOD: 1969 - 1981.
PARAMETERS: T°, S°/$_{oo}$, O_2, pH, Alk, PO_4-P, SiO_3-Si, NO_2-N, NO_3-N.
SENSOR/INSTRUMENT: Nansen bottles.
FILE SIZE: 4,100 stations.
STORAGE MEDIA/FORMAT: Magnetic tapes, tables.
NARRATIVE SUMMARY: Soviet and foreign verified data held on magnetic tape in national format and in publications *"Data Report of CIM"* available for international exchange without restriction. In addition, VNIIGMI-WDC holds data for cruise deep oceanic observations made within CIM and in the CIM area of responsibility (1908-1969; 11,470 stations; magnetic tapes (national format) and tables).

FILE: MEDALPEX Data.
GEOGRAPHIC COVERAGE: Ligurian-Provencal Basin, Adriatic Sea, Catalan Sea
TIME PERIOD: July 1981 - September 1982.
PARAMETERS: T°, S°/$_{oo}$, O_2, pH, Alk, PO_4-P, P, SiO_3-Si, NO_2-N, NO_3-N, conductivity, currents, biology, aerology, waves.
SENSOR/INSTRUMENT: Nansen bottles, STD, wave and current meters.
FILE SIZE: 2,000 stations (hydrology and hydrochemistry); 64,259 records (temperature, conductivity); 144,280 records (currents); 500 stations (biology); 37,752 observations (waves); 191 sensing (aerology).
STORAGE MEDIA/FORMAT: 3 magnetic tapes, tables.
NARRATIVE SUMMARY: Soviet and foreign data for MEDALPEX cruise deep oceanic observations available for international exchange without restriction.

FILE: Soviet BT Data Catalogue.
GEOGRAPHIC COVERAGE: North Atlantic Ocean.
TIME PERIOD: 1960 - 1985.
PARAMETERS: n/a.
SENSOR/INSTRUMENT: BT data.
FILE SIZE: 100,000 stations.
STORAGE MEDIA/FORMAT: one magnetic tape.
NARRATIVE SUMMARY: BT data for 10° Marsden squares available on agreement terms.

FILE: Ocean Weather Station Data.
GEOGRAPHIC COVERAGE: North Atlantic Ocean.
TIME PERIOD: 1950 - 1984.
PARAMETERS: T°, S°/$_{oo}$.
SENSOR/INSTRUMENT: various.
FILE SIZE: 10,000 stations.
STORAGE MEDIA/FORMAT: one magnetic tape.
NARRATIVE SUMMARY: Time-ranged dataset of time-series from deep temperature and salinity observations at ocean weather stations T,J,K. North Atlantic Ocean. Available on agreement terms.

ORGANIZATION

NAME: Far East Research Institute for Hydrometeorology (DVNII)
CONTACT: DVNII
ADDRESS: 24, Dzerzhinski Str.
Vladivostok 690600
RUSSIAN FEDERATION
Tlx: 412633 INFOR (VNIIGMI-WDC)

DESCRIPTION

DVNII holds oceanographic datasets on magnetic tapes.

FILE DESCRIPTIONS

FILE: Deep-sea oceanographic data for the North-West Pacific.
GEOGRAPHIC COVERAGE: 18° N - 44° N, 127° E - 156° E.
TIME PERIOD: 1930 - 1988 (being updated).
PARAMETERS: T°, S°/$_{oo}$.
SENSOR/INSTRUMENT: Bathometer series, STD.
FILE SIZE: Over 42,000 oceanographic stations.
STORAGE MEDIA/FORMAT: Magnetic tape.
NARRATIVE SUMMARY: Russian data prevail; a great number of Japan data for SIK and KER programmes taken from published sources is also available. Data access is restricted.

FILE: Deep-sea Oceanographic Data for the Sea of Japan, the Bering Sea and the Sea of Okhotsk.
GEOGRAPHIC COVERAGE: The Sea of Japan, the Bering Sea and the Sea of Okhotsk.
TIME PERIOD: 1930 - 1986 (being updated).
PARAMETERS: Observational elements: T°, S°/$_{oo}$, O_2, pH, PO_4, Si, NO_2, Alk (hydrochemical elements have not been measured at every station).
SENSOR/INSTRUMENT: Bathometer series, STD.
FILE SIZE: About 80,000 stations (the Sea of Japan), about 60,000 stations (the Sea of Okhotsk), about 37,500 stations (the Bering Sea).
STORAGE MEDIA/FORMAT: Magnetic tape.
NARRATIVE SUMMARY: Russian data prevail; USA and Japan data taken from published sources are also available. Data access is restricted.

FILE: Mean-monthly sea-surface temperature.
GEOGRAPHIC COVERAGE: To the north of 20° N - 30° N.
TIME PERIOD: 1966 - 1986.
PARAMETERS: Sea surface T°.
SENSOR/INSTRUMENT: not applicable.
FILE SIZE: 7,500 values.
STORAGE MEDIA/FORMAT: Magnetic tape.
NARRATIVE SUMMARY: 2.50 x 2.50 square dataset for mean-monthly sea-surface temperature and its anomalies in the North Pacific. Weather data are used to compile this dataset. Data access is restricted.

FILE: Deep-sea Oceanographic Data for the Tropical Indian.
GEOGRAPHIC COVERAGE: 20° S - 25° N, 40° E - 120° E.
TIME PERIOD: 1957 - 1989 (being updated).
PARAMETERS: SST, T°, S°/$_{oo}$, O_2, flow velocity from instrumental records.
SENSOR/INSTRUMENT: Bathometer series, STD.
FILE SIZE: About 50,000 stations.
STORAGE MEDIA/FORMAT: Magnetic tape.
NARRATIVE SUMMARY: Russian data prevail; data from international expeditions (IIOE) are also available. Data access is restricted.

FILE: Deep-sea Oceanographic Data for the East Tropical Pacific.
GEOGRAPHIC COVERAGE: 20° S - 20° N, 180° W - 90° W.
TIME PERIOD: 1964 - 1989 (being updated).
PARAMETERS: SST, T°, S°/$_{oo}$, O_2, flow velocity.
SENSOR/INSTRUMENT: Bathometer series, STD.
FILE SIZE: About 20,000 stations.
STORAGE MEDIA/FORMAT: Magnetic tape.
NARRATIVE SUMMARY: Russian data prevail; a great number of USA data from published sources (Passat Experiment and Shuttle) is also available. Data access is restricted.

ORGANIZATION

NAME: Odessa Branch of the State Oceanographic Institute (OdOGOIN)
CONTACT: OdOGOIN
ADDRESS: 89, Proletarski Boulevard
Odessa 270009
RUSSIAN FEDERATION

DESCRIPTION

OdOGOIN holds oceanographic, meteorological and aerological tabulated data from oceanographic research. Now the tabulated data are being prepared to be recorded on the automated data media (magnetic disks).

ORGANIZATION

NAME: Russian Academy of Sciences Marine Hydrophysical Institute (MGI)
CONTACT: MGI
ADDRESS: 28, Lenin Str.
Sebastopol 335000
RUSSIAN FEDERATION

DESCRIPTION

MGI databases are available as certain datasets, sorted out by region or time, on EC magnetic tapes or on IBM-PC compatible diskettes according to the database.

FILE DESCRIPTIONS

FILE: The Black Sea.
GEOGRAPHIC COVERAGE: Black Sea.
TIME PERIOD: 1981 - 1987.
PARAMETERS: see narrative summary.
SENSOR/INSTRUMENT: see narrative summary.
FILE SIZE: 40,000 stations.
STORAGE MEDIA/FORMAT: magnetic tapes and diskettes.
NARRATIVE SUMMARY: Vertical profiles of oceanographic features for 1981-1987; meteorological observations at coastal stations for 1984; hydrochemical observations for 1984-1987. 40,000 stations. Magnetic tape. Oceanographic data include temperature and salinity recording at standard depths using bathometers or Istok instruments with a resolution of 5m. Meteorological observations include wind velocity and wind direction, air temperature and air humidity, air pressure, etc. The OKA database management system is used to operate the database.

FILE: The Atlantic.
GEOGRAPHIC COVERAGE: Atlantic Ocean - 20° S to 60° N.
TIME PERIOD: 1900 - 1988.
PARAMETERS: T° and S°/$_{oo}$.
SENSOR/INSTRUMENT:
FILE SIZE: 80,000 stations.
STORAGE MEDIA/FORMAT: Magnetic tapes and diskettes.
NARRATIVE SUMMARY: Vertical profiles of oceanographic features for 1900-1988. Oceanographic data include temperature and salinity recording at standard depths or with a resolution of 5m. The OKA database management system is used to operate the database.

FILE: The Black Sea - Interspace - 1984 Experiment.
GEOGRAPHIC COVERAGE: North-West Black Sea.
TIME PERIOD: 1984.
PARAMETERS: transparency, T°, S°/$_{oo}$, chlorophyll a content.
SENSOR/INSTRUMENT: see narrative summary.
FILE SIZE: 36 stations.
STORAGE MEDIA/FORMAT: IBM-PC compatible diskette.
NARRATIVE SUMMARY: Vertical profiles of oceanographic features and visual range seastate sensing data. Oceanographic data with 5m. intervals to the depth of 100m. Principal parameters are transparency, temperature, salinity, chlorophyll a content. For a number of stations, data are available for colour index, transparency measured with Secchi disk, sea radiance index spectra, diffuse reflectance, vertical attenuation index, non-organic phosphorus content, atmospheric transparency spectra, sea surface irradiance spectra, sky brightness indicatrix. For a number of stations, complementary aircraft data are available for sea radiance spectra measured at different altitudes.

FILE: Hydro-optical Features for Coastal Guinea.
GEOGRAPHIC COVERAGE: NE Atlantic, Coastal Guinea (depth range: 0.5 - 30m).
TIME PERIOD: 1980 - 1986.
PARAMETERS: transparency measured with Secchi disk, T°, $S°/_{oo}$ at the surface; see narrative for others.
SENSOR/INSTRUMENT: see narrative summary.
FILE SIZE: 670 stations.
STORAGE MEDIA/FORMAT: IBM-PC compatible diskette.
NARRATIVE SUMMARY: Hydro-optical, hydrological, chemical and biological features mostly for 0m depth. Principal parameters are transparency measured with Secchi disk, temperature and salinity at the surface. Complementary parameters are Si, suspended matter, chlorophyll-a, surface sexton; water colour, colour indices for 6 spectral bands at standard depths from one to 4.

FILE: Hydrological and Hydrochemical Features for Coastal Guinea.
GEOGRAPHIC COVERAGE: Guinean coastal waters (including estuaries).
TIME PERIOD: 1981 - 1987.
PARAMETERS: Principal parameters are T°, $S°/_{oo}$; see narrative summary for others.
SENSOR/INSTRUMENT:
FILE SIZE: 1,400 stations.
STORAGE MEDIA/FORMAT: IBM-PC compatible diskette.
NARRATIVE SUMMARY: Hydrological and hydrochemical features of Guinean coastal waters (including estuaries) at selected depths. Principal parameters are temperature and salinity. Complementary parameters are dissolved oxygen, phosphates, silicates, pH, alkalinity.

The Russian Hydrographic Service
Research Oceanographic Centre
C-167
Leningrad 193167
RUSSIAN FEDERATION

The Russian Hydrographic Service holds oceanographic datasets available in the standard ROSCOP forms.

I. Classical Oceanographic Stations

The Mediterranean. 1972, 1981-1982. 539 stations. 3 cruises.
The Atlantic. 1971-1986. 1,268 stations. 10 cruises.
The Pacific. 1969-1974. 530 stations. 6 cruises.
The World Ocean. 1983, 1985. 365 stations. 2 cruises.
Principal parameters are T and S at observed depths.

II. Meteorological Observations

The Mediterranean. 1972, 1981-1982. 1,500 observational hours. 3 cruises.
The Atlantic. 1971-1986. 5,937 observational hours. 10 cruises.
The Pacific. 1969-1974. 2,720 observational hours. 10 cruises.
The World Ocean. 1983, 1985. 3,374 observational hours. 2 cruises.
The parameters included correspond to those in the weather telegram.

III. Bathythermograph Observations

The Mediterranean. 1972, 1981-1982. 902 stations. 3 cruises.
The Atlantic. 1971-1986. 3,507 stations. 10 cruises.
The Pacific. 1969-1974. 1,361 stations. 6 cruises.
The World Ocean. 1983, 1985. 1,886 stations. 2 cruises.
The principal parameter is T at a depth of 0 to 200m.

IV. Current Observations

The Mediterranean. 1972, 1981-1982. 3 buoy stations. 3 cruises.
The Atlantic. 1971-1986. 16 buoy stations. 10 cruises.
The Pacific. 1969-1974. 11 buoy stations. 6 cruises.
The World Ocean. 1983, 1985. 3 buoy stations. 2 cruises.
Principal parameters are current velocity and current direction at standard depths.

V. Aerological Observations

The Mediterranean. 1972, 1981-1982. 396 soundings. 3 cruises.
The Atlantic. 1971-1986. 543 soundings. 10 cruises.
The World Ocean. 1983, 1985. 396 soundings. 2 cruises.
Principal parameters are temperature, pressure and relative humidity at various heights up to tropopause.

ORGANIZATION

NAME: Far East Research Institute for Hydrometeorology (DVNII)
CONTACT: DVNII
ADDRESS: 24, Dzerzhinski Str.
Vladivostok 690600
RUSSIAN FEDERATION

DESCRIPTION

DVNII holds oceanographic datasets on magnetic tapes.

FILE DESCRIPTIONS

FILE: Deep-sea oceanographic data for the North-West Pacific.
GEOGRAPHIC COVERAGE: 18° N - 44° N, 127° E - 156° E.
TIME PERIOD: 1930 - 1988 (being updated).
PARAMETERS: T°, S°/$_{oo}$.
SENSOR/INSTRUMENT:
FILE SIZE: Over 42,000 oceanographic stations.
STORAGE MEDIA/FORMAT: Magnetic tape.
NARRATIVE SUMMARY:

FILE: Deep-sea Oceanographic Data for the Sea of Japan, the Bering Sea and the Sea of Okhotsk.
GEOGRAPHIC COVERAGE: The Sea of Japan, the Bering Sea and the Sea of Okhotsk.
TIME PERIOD: 1930 - 1986 (being updated).
PARAMETERS: Observational elements: T°, S°/$_{oo}$, O_2, pH, PO_4, Si, NO_2, Alk (hydrochemical elements have not been measured at every station).
SENSOR/INSTRUMENT:
FILE SIZE: About 80,000 stations (the Sea of Japan), about 60,000 stations (the Sea of Okhotsk), about 37,500 stations (the Bering Sea).
STORAGE MEDIA/FORMAT: Magnetic tape.
NARRATIVE SUMMARY:

FILE: Mean-monthly sea-surface temperature.
GEOGRAPHIC COVERAGE: To the north of 20° N - 30° N.
TIME PERIOD: 1966 - 1986.
PARAMETERS: Sea surface T°.
SENSOR/INSTRUMENT: not applicable.
FILE SIZE:
STORAGE MEDIA/FORMAT: Magnetic tape.
NARRATIVE SUMMARY: 2.50 x 2.50 square dataset for mean-monthly sea-surface temperature and its anomalies in the North Pacific.

FILE: Deep-sea Oceanographic Data for the Tropical Indian.
GEOGRAPHIC COVERAGE: 20° S - 25° N, 40° E - 120° E.
TIME PERIOD: 1957 - 1989 (being updated).
PARAMETERS: SST, T°, S°/$_{oo}$, O_2, flow velocity from instrumental records.
SENSOR/INSTRUMENT:
FILE SIZE: About 50,000 stations.
STORAGE MEDIA/FORMAT: Magnetic tape.
NARRATIVE SUMMARY:

FILE: Deep-sea Oceanographic Data for the East Tropical Pacific.
GEOGRAPHIC COVERAGE: 20° S - 20° N, 180° W - 90° W.
TIME PERIOD: 1964 - 1989 (being updated).
PARAMETERS: SST, T°, S°/$_{oo}$, O_2, flow velocity.
SENSOR/INSTRUMENT:
FILE SIZE: About 20,000 stations.
STORAGE MEDIA/FORMAT: Magnetic tape.
NARRATIVE SUMMARY:

ORGANIZATION

NAME: All-Union Research Institute for Marine Fishing and Oceanography (VNIRO)
CONTACT: Marine Fishery and Biological Data Centre
ADDRESS: 17-a, V. Krasnoselskaya Str.
Moscow, 107140
RUSSIAN FEDERATION
Tlg: Moscow, VNIRO

DESCRIPTION

VNIRO Marine Fishery and Biological Data Centre collects and holds marine biological data and makes them available to users. Datasets are held on tapes in exchange format.

FILE DESCRIPTIONS

FILE: Trawl Fishing, Biological Analysis and Total Length Distribution.
GEOGRAPHIC COVERAGE: Fishery areas of the World Ocean.
TIME PERIOD: 1974 - present.
PARAMETERS: see narrative summary.
SENSOR/INSTRUMENT: not applicable.
FILE SIZE: Biological data from over 1,500 cruises.
STORAGE MEDIA/FORMAT: Magnetic tapes.
NARRATIVE SUMMARY: Principal parameters are space time characteristics of cruise research, biological analysis characteristics, species representativity of fish, total length distribution, abiotic factors, trawl fishing characteristics, fishing quantification.

FILE: Drift-line and Seine-net Fishing Studies.
GEOGRAPHIC COVERAGE: Selected Fishery areas.
TIME PERIOD: 1984 - present.
PARAMETERS: see narrative summary.
SENSOR/INSTRUMENT: Drift-line and Seine-net.
FILE SIZE: Data from about 40 individual cruises.
STORAGE MEDIA/FORMAT: Magnetic Tapes.
NARRATIVE SUMMARY: Drift-line and Seine-net Fishing, Incomplete biological Analysis, Ichthyoplankton gathering, Biological Analysis of Krill. Principal parameters are space-time characteristics, species representativity of hydrobiont, characteristics of concentrations, ichthyoplankton, biological analysis of krill and Cephalopods, abiotic factors, drift-line and seine-net fishing characteristics, fishing quantification.

ORGANIZATION

NAME: Shirshov Institute of Oceanology
CONTACT: Ocean Climate Modelling Laboratory
ADDRESS: Russian Academy of Sciences
23, Krasikov Str.
Moscow, 1118
RUSSIAN FEDERATION
Tlx: 11968 OCEAN SU

SEYCHELLES

ORGANIZATION

NAME: Seychelles Fishing Authority
CONTACT: Managing Director
ADDRESS: Seychelles Fishing Authority
P.O. Box 449
Victoria, Mahe
SEYCHELLES
Tel: (01-248) 245 97
Fax: (01-248) 245 08
Tlx: 2284 SFA SZ

DESCRIPTION

The SFA in its research capacity collects catch and effort data on both artisanal and industrial fisheries. This encompasses the local fleet of small boats up to licensed foreign vessels (purse seiners, long liners) fishing in Seychelles waters for tuna. In addition, biological data is collected on key species from the fishery. Data are all maintained on PCs and computer diskettes. Certain tuna data is confidential and will not be released. Other data may be made available for a small cost to cover post and packaging and diskette copying or on a reciprocal basis.

FILE DESCRIPTIONS

FILE: ARTFISH.
GEOGRAPHIC COVERAGE: Indian Ocean.
TIME PERIOD: 1985 - ongoing.
PARAMETERS: Catch and effort information relating to small boat fishery (outboard powered craft and smaller).
SENSOR/INSTRUMENT:
FILE SIZE:
STORAGE MEDIA/FORMAT: Diskette, DBase 3+ format.
NARRATIVE SUMMARY: This database contains catch, effort, species composition data for the small boat fishery operating from the 3 main granitic islands of Seychelles: Mahe, Praslin and La Digue. Data relating to the sport fishery, to local fish purchases and exports is also collected, stored under sub-directories of the ARTFISH programme.

FILE: WHALER.
GEOGRAPHIC COVERAGE: Indian Ocean.
TIME PERIOD: 1985 - ongoing.
PARAMETERS: Catch and effort information relating to whale boat fishery (inboard undecked vessels).
SENSOR/INSTRUMENT:
FILE SIZE:
STORAGE MEDIA/FORMAT: Diskette, DBase 3+ format.
NARRATIVE SUMMARY: This database contains catch, effort, species composition data for the whale boat fishery operating from the 3 main granitic islands of Seychelles: Mahe, Praslin and La Digue.

FILE: SCHOONER.
GEOGRAPHIC COVERAGE: Indian Ocean.
TIME PERIOD: 1985 - ongoing.
PARAMETERS: Catch and effort information relating to schooner fishery (inboard decked vessels).
SENSOR/INSTRUMENT:
FILE SIZE:
STORAGE MEDIA/FORMAT: Diskette, DBase 3+ format.
NARRATIVE SUMMARY: This database contains catch, effort, species composition data for the schooner fishery operating from the 3 main granitic islands of Seychelles: Mahe, Praslin and La Digue.

FILE: PBRETON.
GEOGRAPHIC COVERAGE: Indian Ocean.
TIME PERIOD: 1991 - ongoing.
PARAMETERS: Catch and effort information relating to a mothership - dory fishing venture.
SENSOR/INSTRUMENT:
FILE SIZE:
STORAGE MEDIA/FORMAT: Diskette, DBase 3+ format.
NARRATIVE SUMMARY: This database contains catch, effort, species composition data for a mothership - dory fishing venture within Seychelles EEZ. Permission from the boat owner is required before this dataset can be released.

FILE: LFBIO.
GEOGRAPHIC COVERAGE: Indian ocean.
TIME PERIOD: 1990 - ongoing.
PARAMETERS: Biological and Morphometric data relating to key species from the artisanal fishery.
SENSOR/INSTRUMENT:
FILE SIZE:
STORAGE MEDIA/FORMAT: Diskette, Dbase 3+ format.
NARRATIVE SUMMARY: This database contains biological and morphometric data relating to key species from the artisanal fishery: *Pristipomoides filamentosus, Aprion virescens, Lutjanus sebae, Epinephelus chlorostigma, Carangoides gymnostethus, Ranina ranina, Panuliridae.* Each species is saved on a separate file under the LFBIO programme.

FILE: TUNA.
GEOGRAPHIC COVERAGE: Indian ocean.
TIME PERIOD: 1984 onwards.
PARAMETERS: Fishing logbooks, transhipment logbooks used as data source.
SENSOR/INSTRUMENT:
FILE SIZE: 20 Megabytes.
STORAGE MEDIA/FORMAT: Diskette, Foxbase 3+ format.
NARRATIVE SUMMARY: This database contains catch, effort and vessel information on the industrial tuna fishery of the central and western Indian ocean. Catch is noted by species, i.e., yellowfin, shipjack, bigeye tunas and albacore. Certain aspects of this dataset are restricted.

FILE: OBSERVER.
GEOGRAPHIC COVERAGE: Indian Ocean.
TIME PERIOD: 1990 - ongoing.
PARAMETERS: Tuna length-weight data, observer sightings, at sea activity record.
SENSOR/INSTRUMENT:
FILE SIZE: 2.6 megabytes.
STORAGE MEDIA/FORMAT: Diskette, Dbase 3+ format.
NARRATIVE SUMMARY: This database contains the data collected by the SFA tuna observer programme. Most of this data is collected at sea. It also holds tuna length-weight and length-frequency data from tunas sampled by the observers whilst at sea and in port.

SPAIN

ORGANIZATION

NAME: Centro Espanol de Datos Oceanograficos
CONTACT: Centro Espanol de Datos Oceanograficos
ADDRESS: Instituto Espanol de Oceanografía
Avda. de Brasil, No 31.
28020 Madrid
SPAIN
Tel: (34-1) 597 44 43
Fax: (34-1) 597 47 70
Tlx: 44460

DESCRIPTION

The Spanish Oceanographic Data Centre is a unit of the Spanish Institute of Oceanography responsible for compiling, storing and distributing data produced by the different research areas of the Institute. Acts as National Data Centre for the international data exchange works within the framework of IOC/IODE. For detail information about data files, as well as inventories and costs please contact above address.

FILE DESCRIPTIONS

FILE: Mean Sea-Level Data.
GEOGRAPHIC COVERAGE: Coast of Spain, the Balearic Islands, the Canaries and the north-western coast of Africa.
TIME PERIOD: 1943 - present.
PARAMETERS: Hourly tides.
SENSOR/INSTRUMENT: Tide Gauges.
FILE SIZE: see narrative summary.
STORAGE MEDIA/FORMAT: Hourly data on Magnetic Tape (see narrative).
NARRATIVE SUMMARY: CEDO's most systematic data relate to sea-level measurement in the form of hourly tide levels and the time and depth of high and low tides for about 25 ports on the coast of the peninsular Spain, the Balearic Islands, the Canaries and the north-western coast of Africa. The records for some of these ports cover the entire period since 1943, almost without interruption. Most of the hourly data are available on standard magnetic tape and the high and low tide data on special coding cards.

FILE: Temperature/Salinity Data.
GEOGRAPHIC COVERAGE: Iberian Peninsula, the Balearic Islands and the Canaries.
TIME PERIOD: 1900 - 1985.
PARAMETERS: T°, S°/$_{oo}$.
SENSOR/INSTRUMENT: STD, XBT, MBT.
FILE SIZE: 160,000 stations.
STORAGE MEDIA/FORMAT: Magnetic tape.
NARRATIVE SUMMARY: Contains data from about 160,000 STD, XBT and MBT stations for the maritime areas in the vicinity of the Iberian Peninsula, the Balearic Islands and Canary Islands, obtained from the United States National Oceanographic Data Centre and available on standard magnetic tape.

FILE: Spanish Hydrological Data.
GEOGRAPHIC COVERAGE: Iberian Peninsula, Balearic Islands, Canary Islands and adjacent waters.
TIME PERIOD: 1914 - present.
PARAMETERS: Sampling depth, T°, S°/$_{oo}$, nutrients, pigments, pollution and meteorological data.
SENSOR/INSTRUMENT: bottle casts, CTD.
FILE SIZE: About 200 campaigns.
STORAGE MEDIA/FORMAT: see narrative summary.
NARRATIVE SUMMARY: There is also a file containing reference data for about 200 oceanography campaigns carried out by Spanish vessels in the maritime zones surrounding our country. The lists of mainly hydrological data obtained in this way are available in a variety of formats ranging from standard magnetic tape to printed publications.

FILE: Coastal Data.
GEOGRAPHIC COVERAGE: Coastal Spain.
TIME PERIOD: 1956 - present.
PARAMETERS: Sea Surface T°, meteorological data, hydrological and chemical data.
SENSOR/INSTRUMENT: bottle casts, CTD.
FILE SIZE:
STORAGE MEDIA/FORMAT: see narrative summary.
NARRATIVE SUMMARY: In addition, we have data, chiefly physical and chemical parameters, obtained by our coastal oceanographic centres in Santander, La Coruna, Vigo, Fuengirola, Mar Menor, Palma de Mallorca and Santa Cruz de Tenerife. They include in particular, systematic measurements of surface sea temperatures on 7 beaches along our coast for periods between 1956 and 1977.

SWEDEN

ORGANIZATION

NAME: Swedish Meteorological and Hydrological Institute (SMHI)
CONTACT: SMHI
ADDRESS: Oceanographical Laboratory
P.O. Box 2212
S - 403 14 Goteborg
SWEDEN
Tel: (46-31) 63 03 30
Fax: (46-31) 13 04 47
Tlx: 27108 NATFISH S

DESCRIPTION

The laboratory operates as an Designated National Agency (DNA) for data management within the IODE system. A main task is to collect, quality control, archive and process hydrographical and hydrochemical data. The archive consists of data collected by Swedish institutes as well as data from the other Baltic countries. Since 1978, when the Swedish Monitoring Programme (PMK) started, also biological data are included in the archive. The laboratory co-operates with the other major marine data collecting institutes, that is, the Swedish Environmental Protection Board (biological data), the National Board of Fisheries (fisheries research) and the Oceanographic Institute at the University of Gothenburg (physical and chemical data). Data and/or products can, on mutual agreement, be available on magnetic tape, formatted printouts, data summaries and inventories, statistical analyses and graphical presentations.

FILE DESCRIPTIONS

FILE: Station data.
GEOGRAPHIC COVERAGE: Baltic Sea, Kattegat, Sound and Belts, Skagerrak.
TIME PERIOD: 1890 - present.
PARAMETERS: Principal parameters are T°, $S°/_{oo}$, O_2 (from 1900), PO_4, pH (from 1955), P, NO_2, NO_3, NH_4, N, SiO_2, Alkalinity (from 1965). Surface meteorology.
SENSOR/INSTRUMENT: Water bottles.
FILE SIZE: 70,000 stations.
STORAGE MEDIA/FORMAT: 3 magnetic tapes (1600 bpi).
NARRATIVE SUMMARY: Hydrography, physical and chemical. (Swedish and other Baltic countries).

FILE: CTD Casts.
GEOGRAPHIC COVERAGE: Baltic Sea, Kattegat, Sound and Belts, Skagerrak.
TIME PERIOD: 1979 - present.
PARAMETERS: Depth, T°, Cond, $S°/_{oo}$.
SENSOR/INSTRUMENT: Plessey and Neil-Brown CTD-sond.
FILE SIZE: 3,000 casts.
STORAGE MEDIA/FORMAT: 4 magnetic tapes (1600 bpi).
NARRATIVE SUMMARY: Hydrography, physical. Original profiles stored (Depth, temperature, Cond, salinity).

FILE: BT Casts.
GEOGRAPHIC COVERAGE: Baltic Sea, Kattegat, Sound and Belts, Skagerrak.
TIME PERIOD: 1948 - 1979.
PARAMETERS: T° profiles.
SENSOR/INSTRUMENT: Bathythermographs.
FILE SIZE: 15,000 observations.
STORAGE MEDIA/FORMAT: Photographs.
NARRATIVE SUMMARY: Hydrography, physical.

FILE: Light Ships.
GEOGRAPHIC COVERAGE: Baltic Sea, Kattegat, Sound and Belts, Skagerrak.
TIME PERIOD: 1880-1970 (varying duration).
PARAMETERS: T°, S°/$_{oo}$ and current.
SENSOR/INSTRUMENT: Water bottles and current meters.
FILE SIZE: 25,000 series.
STORAGE MEDIA/FORMAT: one magnetic tape (1600 bpi).
NARRATIVE SUMMARY: Hydrography, physical and dynamics from 11 lightships. In the earlier years, monthly means, then daily/every other day.

FILE: BORNO.
GEOGRAPHIC COVERAGE: Skagerrak (fixed station in the Gullmar Fjord on the Swedish west coast).
TIME PERIOD: 1909 - 1911, 1930 - present.
PARAMETERS: T°, S°/$_{oo}$ and current.
SENSOR/INSTRUMENT: Water bottles and current meters.
FILE SIZE: 15,000 series.
STORAGE MEDIA/FORMAT: one magnetic tape (1600 bpi).
NARRATIVE SUMMARY: Hydrography, physical and dynamics. Mostly daily measurements.

FILE: Biological data.
GEOGRAPHIC COVERAGE: Baltic Sea, Kattegat, Sound and Belts, Skagerrak.
TIME PERIOD: 1978 - present.
PARAMETERS: Primary productivity, phytoplankton pigments, phytoplankton, zooplankton, zoobenthos.
SENSOR/INSTRUMENT: Water bottles, nets, grabs.
FILE SIZE: 1,000 stations.
STORAGE MEDIA/FORMAT: one magnetic tape (1,600 bpi).
NARRATIVE SUMMARY: Biology. Zoobenthos collected once a year at 13 stations.

FILE: ROSCOP File.
GEOGRAPHIC COVERAGE: Baltic Sea, Kattegat, Sound and Belts, Skagerrak.
TIME PERIOD: 1974 - present.
PARAMETERS: various.
SENSOR/INSTRUMENT: not applicable.
FILE SIZE: 300 cruises.
STORAGE MEDIA/FORMAT: Paper forms.
NARRATIVE SUMMARY: Data inventory reported on ROSCOP forms. Information on data collected on board Swedish ships during an oceanographic cruise.

FILE: Ship Reports.
GEOGRAPHIC COVERAGE: Baltic Sea, Kattegat, Sound and Belts, Skagerrak.
TIME PERIOD: 1969 - present.
PARAMETERS: see narrative summary.
SENSOR/INSTRUMENT: see narrative summary.
FILE SIZE: 200 Reports.
STORAGE MEDIA/FORMAT: Printed reports.
NARRATIVE SUMMARY: Oceanographic cruise summary report. Short description of the actual conditions in the seas surrounding Sweden.

FILE: Data Catalogue.
GEOGRAPHIC COVERAGE: Baltic Sea, Kattegat, Sound and Belts, Skagerrak.
TIME PERIOD: 1964 - 1986.
PARAMETERS: Hydrographical and Hydrochemical data.
SENSOR/INSTRUMENT: see narrative summary.
FILE SIZE: 75 Publications.
STORAGE MEDIA/FORMAT: Printed.
NARRATIVE SUMMARY: Data catalogue. Listing of hydrographical and hydrochemical data from Swedish oceanographic cruises.

UNITED KINGDOM

ORGANIZATION

NAME: Permanent Service for Mean Sea-Level (PSMSL)
CONTACT: PSMSL
ADDRESS: Bidston Laboratory
Birkenhead
Merseyside L43 7RA
UNITED KINGDOM
Tel: (44) (51) 653 86 33
Fax: (44) (51) 653 62 69
Tlx: 628591 OCEANB G
Email: PSMSL.POL (Omnet)

DESCRIPTION

PSMSL was established in 1933 as an international data centre for mean sea-level. Today their responsibilities are the collection, publication and distribution of data, and the analysis and interpretation of this data. They also give information and advice on practical aspects of sea-level measurement and data reduction. PSMSL is participating in the IOC global sea-level network (GLOSS). The sea-level databank for the World Ocean Circulation Experiment (WOCE) is also at Bidston Observatory alongside the PSMSL.

FILE DESCRIPTION

DATA CENTRE: Permanent Service for Mean Sea-Level (PSMSL).

FILE: Monthly and Annual Sea-Level data.
GEOGRAPHIC COVERAGE: Global.
TIME PERIOD: 1806 - present.
PARAMETERS: Mean sea-level averaged by month and annually.
SENSOR/INSTRUMENT: Tide gauges.
FILE SIZE: More than 1,400 stations with approx. 600 stations with 20 years+ data, and approx. 120 stations with data prior to 1900. A total of 33,000 station-years of data.
STORAGE MEDIA/FORMAT: Data are normally distributed on magnetic tape in the IOC recommended GF3 format. Small quantities can be sent over electronic mail or on floppy disk.
NARRATIVE SUMMARY: Monthly and Annual values of sea-level are sent to PSMSL by national authorities, with details of gauge location, missing days, and definition of the datum to which measurements are referred. Received data are checked for consistency. If possible, values are reduced to a Revised Local Reference (RLR); this involves the identification of a stable, permanent benchmark. This ensures continuity with subsequent data, Geodetic information on benchmarks from new geodetic techniques (SLR + VLBI/GPS) related to the IERS global geodetic network will also be databanked by PSMSL. A 'GLOSS Handbook' describing in detail that subset of PSMSL gauges in the GLOSS network is in course of preparation.

ORGANIZATION

NAME: MIAS Data Banking Service (now British Oceanographic Data Service)
CONTACT: BODC
ADDRESS: Proudman Oceanographic Laboratory
Bidston Observatory
Birkenhead, Merseyside L43 7RA
UNITED KINGDOM
Tel: (44) (51) 653 86 33
Fax: (44) (51) 653 62 69
Tlx: 628591 OCEANSB G
Email: IOS.BIDSTON (Omnet)

DESCRIPTION

The MIAS Data Banking Service is the UK National Oceanographic Data Centre and for international data exchange works within the framework of IOC/IODE. It operates RNODCs for instrumentally measured wave data and for the JASIN78 Project. It also assists RNODC (Formats) by providing technical support and advice on the GF3 formatting system.

FILE DESCRIPTIONS

DATA CENTRE: British Oceanographic Data Service (BODC).

FILE: Moored Current Meter Data.
GEOGRAPHIC COVERAGE: NE Atlantic, North Sea and other sea areas around the British Isles.
TIME PERIOD: 1967 - present.
PARAMETERS: see narrative summary.
SENSOR/INSTRUMENT: primarily Aanderraa current meters.
FILE SIZE: 3,700 data series comprising 7,000 meter months of data. Approximately 20 million records.
STORAGE MEDIA/FORMAT: Magnetic tape/disc.
NARRATIVE SUMMARY: Time-series measurements of ocean currents from moored instruments, primarily Aanderraa current meters. Principal parameters are current speed and direction with sampling intervals varying between 5 and 60 mins. Meter deployments typically of 2 to 8 weeks duration in shelf areas but up to 12 months in the open ocean. About 50 sites with one or more years data - 6 sites with 3 to 8 years data. Data almost exclusively from UK laboratories but some non-UK data from JONSDAP76 and JASIN78 projects. About 1,000 series in areas with sea floor depth greater than 200m.

DATA CENTRE: British Oceanographic Data Service (BODC).

FILE: Offshore Tide Gauge Data.
GEOGRAPHIC COVERAGE: North Atlantic, North Sea and other sea areas around the British Isles.
TIME PERIOD: 1970 - present.
PARAMETERS: Total pressure (seawater + atmosphere).
SENSOR/INSTRUMENT: Offshore tide gauge.
FILE SIZE: Data from 128 sites comprising 350 observation-months. About 0.5 million records.
STORAGE MEDIA/FORMAT: Magnetic tape/disc.
NARRATIVE SUMMARY: Offshore tide gauge data. Time-series measurements of bottom pressure from offshore pressure gauges (shallow water and deep sea-tide gauges) mounted on the sea floor. Principal parameter is total pressure (seawater + atmosphere). Typical sampling interval 15 min. or hourly, over periods ranging from one to 6 months. Data exclusively from UK laboratories. Includes trans-ocean sections in the North Atlantic.

DATA CENTRE: British Oceanographic Data Service (BODC).

FILE: Coastal Tide Gauge Data.
GEOGRAPHIC COVERAGE: Global but primarily around the coastline the British Isles.
TIME PERIOD: 1915 - present.
PARAMETERS: Hourly Sea-level.
SENSOR/INSTRUMENT: Tide gauge.
FILE SIZE: Almost 10 million records. (see narrative summary).
STORAGE MEDIA/FORMAT: Magnetic tape/disc.
NARRATIVE SUMMARY: About 200 recording sites comprising in excess of 1,000 site-years of data. Time-series measurements from coastal tide gauges. Principal parameter is sea-level measured at hourly intervals. Recording periods vary from one month at some sites to over 50 years in the case of Newlyn, Dover, Southend, Tilbury and Tower Pier, London. Some 800 site-years of data are available for about 100 coastal locations around the British Isles - the remaining data are from coastal sites and islands scattered around the globe.

DATA CENTRE: British Oceanographic Data Service (BODC).

FILE: Wave Height and period data.
GEOGRAPHIC COVERAGE: NE Atlantic, North Sea and other sea areas around the British Isles.
TIME PERIOD: 1955 - present.
PARAMETERS: Principal parameters are significant wave height and mean zero crossing period (see narrative summary).
SENSOR/INSTRUMENT: *in situ* wave recorders at fixed locations.
FILE SIZE: Data from about 80 sites comprising over 2,000 observation-months. Approximately 0.5 million records.
STORAGE MEDIA/FORMAT: Magnetic tape/disc.
NARRATIVE SUMMARY: *In situ* wave height and period data. Time-series of wave height and period data from *in situ* wave recorders at fixed locations. Principal parameters are significant wave height and mean zero crossing period determined from 20-30 min. samples every 3 hours. Recording periods vary from 3 months at some sites to over 10 years at the Seven Stones Light Vessel. Data primarily from UK and Irish laboratories. Most of the data are from the continental shelf areas around the British Isles.

DATA CENTRE: British Oceanographic Data Service (BODC).

FILE: Wave Spectra.
GEOGRAPHIC COVERAGE: Seas around the British Isles.
TIME PERIOD: 1976 -present.
PARAMETERS: non-directional surface wave spectra.
SENSOR/INSTRUMENT: moored buoys, primarily waveriders.
FILE SIZE: Spectra from 14 sites comprising 500 observation months.
STORAGE MEDIA/FORMAT: Magnetic tape.
NARRATIVE SUMMARY: *In situ* measurements of surface wave spectra. Over 100,000 individual spectra. Time-series of non-directional surface wave spectra from moored buoys, primarily waveriders. Individual spectra comprise 60 or so estimates of wave energy spectral density at a range of frequencies, computed from 20 to 30 min recordings of sea surface heave/displacement. Spectra are computed at intervals ranging from one to 3 hours. Observation periods at specific sites vary from 6 months to 6 years. Data primarily from UK laboratories and for the continental shelf area around the British Isles.

DATA CENTRE: British Oceanographic Data Service (BODC).

FILE: Directional Wave Spectra.
GEOGRAPHIC COVERAGE: Seas around the British Isles.
TIME PERIOD: 1978 - present.
PARAMETERS: directional wave spectra (see narrative summary).
SENSOR/INSTRUMENT: moored, surface following buoys.
FILE SIZE: Cross spectra from 6 sites comprising 150 observation months. 35,000 sets of cross spectra.
STORAGE MEDIA/FORMAT: Magnetic tape.
NARRATIVE SUMMARY: *In situ* directional wave spectra. Time-series of directional wave spectra from moored, surface following buoys. Expressed as the co-spectra and quadrature spectra between the heave, pitch and roll signals registered by the buoy over periods of the order of 20 to 30 mins. Spectra are usually computed at intervals between one and 3 hours. Observation periods at specific sites vary from one month to 4 years. Data primarily from UK laboratories and for the continental shelf area around the British Isles.

UNITED STATES OF AMERICA

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DESCRIPTION

The US NODC is an NODC within the IODE system and operates WDC-A, Oceanography and RNODCs for IGOSS and CARIPOL. Archived NODC datasets are available from the US NODC as magnetic tape copies of specified data subsets. For the major global files, data are also available as formatted printouts, data summaries, analyses and plots. These files are sorted by cruise number (cruise file) and by a geographic grid system (geofile). Data sets in originator formats are provided only as direct copies of whole data tapes. Subsets cannot be retrieved. The data files, as well as products, inventories, and cost information, are described in more detail in the NODC Users Guide (available from the above address). Data are on 1600 bpi tapes unless noted as being 6250 bpi tapes.

FILE DESCRIPTION

DATA CENTRE: National Oceanographic Data Center.

FILE: Oceanographic Station Data (SD).
GEOGRAPHIC COVERAGE: Worldwide Oceans.
TIME PERIOD: 1900 - present.
PARAMETERS:
SENSOR/INSTRUMENT:
FILE ORGANIZATION: Cruise and Geographic order.
FILE SIZE: 701,411 stations; 1,217,251,600 bytes (1 October 1987); Cruise file - 19 magnetic tapes (6250 bpi); Geofile - 42 magnetic tapes (6250 bpi).
STORAGE MEDIA/FORMAT:
NARRATIVE SUMMARY: This file contains physical-chemical oceanographic data recorded at discrete depth levels. Most of the observations were made using multi-bottle Nansen casts or other types of water samplers. A small amount (about 5%) were obtained using electronic CTD (conductivity-temperature-depth) or STD (salinity-temperature-depth) recorders. The CTD/STD data were reported to NODC at depth levels equivalent to Nansen cast data, however, and have been processed and stored the same as the Nansen data. Cruise information, position, date and time are reported for each station. Each station contains the measurements taken at observed depth levels, but also includes data values interpolated to a set of standard depth levels.

DATA CENTRE: National Oceanographic Data Center.

FILE: Compressed CTD/STD Data.
GEOGRAPHIC COVERAGE: Worldwide Oceans.
TIME PERIOD: 1900 - present.
PARAMETERS:
SENSOR/INSTRUMENT:
FILE ORGANIZATION: Cruise and Geographic order.
FILE SIZE: 45,423 stations; 181,182,640 bytes (1 October 1987); Cruise file - 2 magnetic tapes (6250 bpi); Geofile - 3 magnetic tapes (6250 bpi).
STORAGE MEDIA/FORMAT:
NARRATIVE SUMMARY: This file contains physical-chemical oceanographic data collected using electronic CTD (conductivity-temperature-depth) and STD (salinity-temperature-depth) recorders. Following processing of original high-resolution CTD/STD data NODC creates a "compressed" low-resolution version of each cast by picking off data values at selected depth levels. Data values may be recorded at up to 106 depth levels including the 34 standard depth levels used in the Oceanographic Station Data File, which contains mainly Nansen cast data. The compressed CTD/STD data can therefore be used to supplement Nansen cast data in studies of gross ocean structure and features where finer depth spacing of the original records is not needed.

DATA CENTRE: National Oceanographic Data Center.

FILE: Mechanical Bathythermograph (MBT) Data.
GEOGRAPHIC COVERAGE: Worldwide Oceans.
TIME PERIOD: 1941 - present.
PARAMETERS:
SENSOR/INSTRUMENT:
FILE ORGANIZATION: Cruise and Geographic order.
FILE SIZE: 976,575 stations; 346,521,580 bytes (1 October 1987); Cruise file - 5 magnetic tapes (6250 bpi); Geofile - 7 magnetic tapes (6250 bpi).
STORAGE MEDIA/FORMAT:
NARRATIVE SUMMARY: This file contains temperature-depth profile data obtained using the mechanical bathythermograph (MBT) instrument. The maximum depth of MBT observations is approximately 285 m. Therefore, MBT data are useful only in studying the thermal structure of the upper layers of the ocean. Cruise information, date, position, and time are reported for each observation. The data record comprises pairs of temperature-depth values. Temperature data in this file are recorded at uniform 5 m depth intervals. Note: The mechanical bathythermograph instrument is now obsolete, having been superseded by the faster, easier-to-operate expendable bathythermograph.

DATA CENTRE: National Oceanographic Data Center.

FILE: Expendable Bathythermograph (XBT) Data.
GEOGRAPHIC COVERAGE: Worldwide Oceans.
TIME PERIOD: 1966 - present.
PARAMETERS:
SENSOR/INSTRUMENT:
FILE ORGANIZATION: Cruise and Geographic order.
FILE SIZE: 632,819 stations; 195,714,552 bytes (1 October 1987); Cruise file - 3 magnetic tapes (6250 bpi); Geofile - 5 magnetic tapes (6250 bpi).
STORAGE MEDIA/FORMAT:
NARRATIVE SUMMARY: This file contains temperature-depth profile data obtained using expendable bathythermograph (XBT) instrument. Standard XBTs can obtain profiles at depths of about 450 or 760m. With special instruments, measurements can be obtained to 1,830m. Cruise information, position, date, and time are reported for each observation. The data record comprises pairs of temperature-depth values. Unlike the MBT data file, in which temperature values are recorded at uniform 5m intervals, the XBT Data File contains temperature values at non-uniform depths. These depths are at a minimum number of points ("inflection points") required to record the temperature curve to an acceptable degree of accuracy. On output, however, the user may request temperature values either at inflection points or interpolated to uniform depth increments.

DATA CENTRE: National Oceanographic Data Center.

FILE: Surface Current Data System (SCUDS).
GEOGRAPHIC COVERAGE: Worldwide Oceans.
TIME PERIOD: 1850 - 1974.
PARAMETERS:
SENSOR/INSTRUMENT:
FILE SIZE: 4,175,000 observations; 16,701,656 bytes; 11 magnetic tapes (1 October 1987).
STORAGE MEDIA/FORMAT:
NARRATIVE SUMMARY: This file contains over 4 million surface current observations, almost all obtained by the ship drift method. Date, data source, position, (not latitude-longitude, but geographic grid numbers to 6-minute by 6-minute squares), and current direction and speed are recorded for each observation. With the exception of about 5,100 observations taken using the Geomagnetic Electrokinetograph (GEK), these are not instrument-measured current data. Rather, they are indirect determinations of ocean surface currents based on the ship drift method. In this method, the difference between a ship's dead-reckoned position (determined from its previous position, speed, and heading) and actual position determined from a navigational fix is ascribed solely to the effect of surface currents.

DATA CENTRE: National Oceanographic Data Center.

FILE: Water Physics and Chemistry File (File 004).
GEOGRAPHIC COVERAGE: US East and Gulf Coasts, California Coast, Puget Sound.
TIME PERIOD: 1951 - 1982.
PARAMETERS:
SENSOR/INSTRUMENT:
FILE ORGANIZATION: Cruise order.
FILE SIZE: 71,712 stations; 63,388,400 bytes (1 October 1987).
STORAGE MEDIA/FORMAT:
NARRATIVE SUMMARY: This file contains data from measurements and analyses of physical and chemical characteristics of the water column. Among chemical parameters that may be recorded are salinity, pH, and concentration of oxygen, ammonia, nitrate, phosphate, chlorophyll, and suspended solids. Physical parameters that may be recorded include temperature, density (sigma-t), transmissivity, and current velocity (east-west and north-south components). Cruise and station information, including environmental conditions of the study site at the time of observations, is also included.

DATA CENTRE: National Oceanographic Data Center.

FILE: Current Meter Data (Resultants) (File 005).
GEOGRAPHIC COVERAGE: Coastal US.
TIME PERIOD: 1973 - present.
PARAMETERS:
SENSOR/INSTRUMENT:
FILE ORGANIZATION: Cruise order.
FILE SIZE: 7,934 Observation-months; 592,305,000 bytes (1 October 1987).
STORAGE MEDIA/FORMAT:
NARRATIVE SUMMARY: This file contains time-series measurements of ocean currents obtained using moored current-measuring instruments, principally Aanderaa current meters (manufactured by Aanderaa Instruments Inc.). These data represent the Eulerian method of current measurement, i.e., the meters are deployed at a fixed mooring point and measure flow past the sensor. Position, water depth, and sensor depth are reported for each station. The data record comprises values of current direction and speed at specified date and time. Data values may be subject to averaging or filtering and are typically reported at 10-15 minute time intervals. Other environmental parameters may also be reported. These include: water temperature, salinity, conductivity, and transmissivity; wind direction and speed; and dominant wave direction, height, and period. A text field is available for optional comments.

DATA CENTRE: National Oceanographic Data Center.

FILE: Current Meter Data (Components) (File 015).
GEOGRAPHIC COVERAGE: US East Coast, Coastal Alaska, Puget Sound, Atlantic and Pacific Oceans.
TIME PERIOD: 1962 - present.
PARAMETERS:
SENSOR/INSTRUMENT:
FILE ORGANIZATION: Cruise order.
FILE SIZE: 12,693 Observation-months; 1,516,551,840 bytes (1 October 1987).
STORAGE MEDIA/FORMAT:
NARRATIVE SUMMARY: This file contains time-series measurements of ocean currents. These data are obtained from current meter moorings and represent Eulerian method of current measurement, i.e., the meters are deployed at a fixed point and measure flow past a sensor. Position, bottom depth, sensor depth, and meter characteristics are reported for each station. The data record comprises values of east-west (u) and north-south (v) current vector components at specified date and time. Current direction is defined as the direction toward which the water is flowing with positive directions east and north and negative directions west and south. Data values may be subject to averaging or filtering and are typically reported at 10-15 minute time intervals. Water temperature, pressure, and conductivity or salinity may also be reported. A text record is available for optional comments.

DATA CENTRE: National Oceanographic Data Center.

FILE: Pressure Gauge Data (File 017).
GEOGRAPHIC COVERAGE: Coastal Alaska, US Gulf Coast.
TIME PERIOD: 1975 - 1978.
PARAMETERS:
SENSOR/INSTRUMENT:
FILE ORGANIZATION: Cruise order.
FILE SIZE: 607 Observation-months; 45,087,750 bytes (1 October 1987).
STORAGE MEDIA/FORMAT:
NARRATIVE SUMMARY: This file contains time-series measurements of seawater pressure from anchored or bottom-mounted sensors. Measurements of variations at depth of seawater pressure provide information on tidal and storm flows, ocean circulation, and other phenomena that cause changes in sea surface elevation or slope and that can be detected from their pressure signature. Position, bottom depth, and gauge depth are reported for each station. The data record comprises values of total pressure at specified date and time. Data values may be subject to averaging or filtering and are typically reported at time intervals of 10-15 minutes. Seawater temperature may also be reported. Comments may be reported in a text record.

DATA CENTRE: National Oceanographic Data Center.

FILE: High-Resolution STD/CTD Data (File 022).
GEOGRAPHIC COVERAGE: Worldwide Oceans.
TIME PERIOD: 1969 - present.
PARAMETERS:
SENSOR/INSTRUMENT:
FILE ORGANIZATION: Cruise order.
FILE SIZE: 50,340 Stations; 618,122,280 bytes (1 October 1987).
STORAGE MEDIA/FORMAT:
NARRATIVE SUMMARY: This file contains high-resolution data collected using CTD (conductivity-temperature-depth) and STD (salinity-temperature-depth) instruments. As they are lowered and raised in the oceans, these electronic devices provide nearly continuous profiles of temperature, salinity, and other parameters. Data values may be subject to averaging or filtering or obtained by interpolation and may be reported at depth intervals as fine as one meter. Cruise and instrument information, position, date, time and sampling interval are reported for each station. Environmental data at the time of the cast (meteorological and sea surface conditions) may also be reported. The data record comprises values of temperature, salinity or conductivity, density (computed sigma-t), and possibly dissolved oxygen or transmissivity at specified depth or pressure levels. Data may be reported at either equally or unequally spaced depth or pressure intervals. A text record is available for comments.

DATA CENTRE: National Oceanographic Data Center.

FILE: Marine Chemistry (File 069).
GEOGRAPHIC COVERAGE: US Gulf Coast, Eastern Equatorial Pacific.
TIME PERIOD: 1975 - present.
PARAMETERS:
SENSOR/INSTRUMENT:
FILE ORGANIZATION: Cruise order.
FILE SIZE: 1,665 Stations; 2,731,040 bytes (1 October 1987).
STORAGE MEDIA/FORMAT:
NARRATIVE SUMMARY: This file contains data from chemical analyses of seawater samples. Cruise information, position, date, and time is reported for each station along with sample depth, temperature, salinity, and density (sigma-t). Chemical and biochemical parameters that may be reported include: dissolved oxygen, nitrate, nitrite, ammonia, inorganic phosphate, and silicate; dissolved organic carbon, particulate organic carbon, and particulate organic nitrogen; and apparent oxygen utilization, percent oxygen saturation, adenosine triphosphate, total phaeophytin, total chlorophyll, total suspended matter, total recoverable petroleum hydrocarbons, and total resolved light hydrocarbons.

DATA CENTRE: National Oceanographic Data Center.

FILE: Drifting Buoy Data (File 156).
GEOGRAPHIC COVERAGE: Coastal Alaska, Equatorial Atlantic and Pacific Oceans.
TIME PERIOD: 1975 - present.
PARAMETERS:
SENSOR/INSTRUMENT:
FILE ORGANIZATION: Cruise order.
FILE SIZE: 3,927 Observation Months; 47,863,360 bytes (1 October 1987).
STORAGE MEDIA/FORMAT:
NARRATIVE SUMMARY: This file contains time-series data on ocean circulation determined by the Lagrangian method, that is by tracking of drifting buoys, drogues, or other instrumented devices as they are carried with the flow. Movement is reported as point-to-point geographic locations determined by shore-based, surface ship, aircraft, or satellite observations. Data from both ocean currents and ice movement can be reported in this format over time periods ranging from minutes to months. Directions and speeds between individual observations may be computed from these data and presented in graphic or summary listing form to provide information on circulation patterns and mass transport in offshore and near-shore regions. Platform name (for platform acquiring data or deploying device), drogue characteristics, start and end positions and times, and observation frequency (if constant time interval) are reported for each series of observation. Other surface meteorological or oceanographic parameters (e.g., water temperature and salinity, air temperature and pressure, wind, waves) and subsurface data (depth, pressure, temperature) may also be reported. Text records may be used to report general comments or to describe individual drogue observations.

DATA CENTRE: National Oceanographic Data Center.

FILE: Geosat Geophysical Data Records (GEO).
GEOGRAPHIC COVERAGE: World-wide (Ocean) Between 72° N, 72° S.
TIME PERIOD: 8 November 1986 - present.
PARAMETERS:
SENSOR/INSTRUMENT:
FILE ORGANIZATION: Two 17-day exact repeat missions per tape.
FILE SIZE: Approximately 1.8 million records per tape. One magnetic tape (6250 bpi) every 34 days.
STORAGE MEDIA/FORMAT:
NARRATIVE SUMMARY: Global ocean significant wave height and other ocean data derived from altimetry observations taken during the exact repeat mission (ERM) of the US Navy Geodetic Satellite (GEOSAT). During the ERM, which began on 8 November 1986, GEOSAT is collecting data along an orbital ground track with a 17-day repeat cycle. GEOSAT sensor data records (SDRS) are converted to geophysical data records (GDRS) by a group within the NOAA National Ocean Service (NOS). This group transmits the data to NODC on magnetic tapes, each of which holds 34 days of data, or two 17-day repeat cycles. NODC provides GEOSAT GDRS on annual subscription (12 tapes) or by individual order.

DATA CENTRE: National Oceanographic Data Center.

FILE: Meteorology and Wave Spectra (File 191).
GEOGRAPHIC COVERAGE: Coastal US, Great Lakes.
TIME PERIOD: 1970 - present.
PARAMETERS:
SENSOR/INSTRUMENT:
FILE ORGANIZATION: Cruise Order.
FILE SIZE: 7,749 Observation Months; 3,116,740,920 bytes (1 October 1987).
STORAGE MEDIA/FORMAT:
NARRATIVE SUMMARY: This file contains time-series meteorological and oceanographic data collected from automated buoys operated by the NOAA Data Buoy Center (NDBC). These data are telecommunicated to US operational centers for use in real-time forecasting and then accumulated and transmitted on magnetic tape to NODC for permanent storage. Station identifier, position, date, time, sampling duration, and sampling rate are reported for each series of measurements. Reported meteorological parameters may include water temperature and salinity (or conductivity), significant wave height, average wave period and direction, dominant wave period and maximum wave height and steepness. Subsurface temperature, salinity, conductivity, pressure, and east and north current components may also be reported. Wave data may be reported as spectral density values or (for directional spectra) as co- and quadspectra or angular Fourier coefficients.

DATA CENTRE: National Oceanographic Data Center.

FILE: Selected Depth Bathythermograph Data (SBT).
GEOGRAPHIC COVERAGE: Global.
TIME PERIOD: 1955 - present.
PARAMETERS:
SENSOR/INSTRUMENT:
FILE ORGANIZATION: Cruise Order, Geographic Order.
FILE SIZE: 156,524 stations; 52.5 million bytes (1 October 1987).
STORAGE MEDIA/FORMAT:
NARRATIVE SUMMARY: This file contains temperature-depth data obtained from mechanical (MBT) and expendable (XBT) bathythermograph instruments. Data in this file were sent to NODC at depths selected by the originator - usually at standard horizons or some fixed interval. The MBT file holds data reported at a 5-meter depth interval, and depths in the XBT file are chosen at significant inflection points of the temperature-depth profile. SBT data can be selected from specific geographic regions or from specified cruises.

DATA CENTRE: National Oceanographic Data Center.

FILE: Wind Measurements from Buoys (File 101).
GEOGRAPHIC COVERAGE: Coastal Alaska, Puget Sound.
TIME PERIOD: 1975 - 1983.
PARAMETERS:
SENSOR/INSTRUMENT:
FILE ORGANIZATION: Cruise Order.
FILE SIZE: 6.7 million bytes (1 October 1987).
STORAGE MEDIA/FORMAT:
NARRATIVE SUMMARY: This file contains time-series measurements of wind and other surface meteorological parameters taken at fixed locations. The instrument arrays may be deployed on automated buoys, ships, or towers. Position, platform type and height, and instrument elevation are reported for each station. The data record comprises values of east-west (u) and north-south (v) wind components at specified date and time. Wind values may be subject to averaging or filtering and are typically reported at time intervals of 10-15 minutes. Air temperature, atmospheric pressure, and dewpoint temperature may also be reported.

DATA CENTRE: National Oceanographic Data Center.

FILE: Phytoplankton (File 028).
GEOGRAPHIC COVERAGE: Coastal Alaska, Puget Sound, Gulf of Mexico.
TIME PERIOD: 1960 - present.
PARAMETERS:
SENSOR/INSTRUMENT:
FILE ORGANIZATION: Cruise order.
FILE SIZE: 2,257 Stations; 577,360 bytes (1 October 1987).
STORAGE MEDIA/FORMAT:
NARRATIVE SUMMARY: This file contains data from sampling and analysis of marine phytoplankton. Information on phytoplankton abundance, distribution, and productivity derived from these data support studies of marine populations and ecosystems. Data reported may include: position, date, and time of sampling; bottom depth and sampling depths; volume of water filtered; and concentration of cells, carbon concentration, wet and dry weight, and counts for each species reported. Comments may be relayed in a text record.

DATA CENTRE: National Oceanographic Data Center.

FILE: Zooplankton (File 124).
GEOGRAPHIC COVERAGE: Coastal Alaska, Puget Sound, US Gulf Coast.
TIME PERIOD: 1975 - present.
PARAMETERS:
SENSOR/INSTRUMENT:
FILE ORGANIZATION: Cruise order.
FILE SIZE: 15,068 Stations; 23,525,680 bytes (1 October 1987).
STORAGE MEDIA/FORMAT:
NARRATIVE SUMMARY: This file contains data from sampling and analysis of marine zooplankton. Information on zooplankton abundance, distribution, and productivity derived from these data support studies of marine populations and ecosystems. Data reported may include: cruise information, position, date, and time of sampling; bottom depth, sampling depths, temperature, and salinity; gear type, volume of water filtered, total dry and wet weight, and other data for total haul; and data for subsamples by species. Data on zooplankton catch by species may include subsample size, zooplankton concentration, life history code, and numbers of adults, juveniles, eggs, and larvae. Estimated density of holoplankton and meroplankton and data on ichthyoplankton may also be reported. A text record is available for comments.
Note: there are 2 options for reporting subsample counts of individuals at different life history stages. If life history codes are used, only number of adults should be reported on that record. Additional separate records should then be used to report number of juveniles and so on. Alternatively, life history codes may not be used and number of adults, juveniles, and so entered in the proper fields of a single record.

DATA CENTRE: National Oceanographic Data Center.

FILE: Primary Productivity 1 (File 029).
GEOGRAPHIC COVERAGE: Coastal Alaska, North Pacific, Arctic Ocean, Gulf of Mexico.
TIME PERIOD: 1958 - present.
PARAMETERS:
SENSOR/INSTRUMENT:
FILE ORGANIZATION: Cruise order.
FILE SIZE: 5,077 Stations; 2,389,760 bytes (1 October 1987).
STORAGE MEDIA/FORMAT:
NARRATIVE SUMMARY: This file contains data from measurements of primary productivity. The data are collected to provide information on nutrient levels and nutrient flow in offshore areas. In addition to cruise information, position, date, time, sampling depths, bottom depth, and environmental information, this file may contain measured parameters including: concentrations of nutrients such as phosphate, nitrate, silicate, and ammonia; temperature and salinity; and carbon assimilation. Measurements of chlorophyll A, phaeopigment, and carbon assimilation may be reported as integrated values. A free-text record is available for comments.

DATA CENTRE: National Oceanographic Data Center.

FILE: Fish/Shellfish Surveys (File 123).
GEOGRAPHIC COVERAGE: Coastal Alaska, Puget Sound, Gulf Coast.
TIME PERIOD: 1975 - present.
PARAMETERS:
SENSOR/INSTRUMENT:
FILE ORGANIZATION: Cruise order.
FILE SIZE: 14,487 Stations; 68,147,440 bytes (1 October 1987).
STORAGE MEDIA/FORMAT:
NARRATIVE SUMMARY: This file contains data from field sampling of marine fish and shellfish. The data derive from analysis of midwater or bottom tow catches and provide information on population density and distribution. Cruise information, position, date, time, gear type, fishing distance and duration, and number of hauls are reported for each survey. Environmental data may include meteorological conditions, surface and bottom temperature and salinity, and current direction and speed. Bottom trawl or other gear dimensions and characteristics are also reported. Catch statistics (e.g., weight, volume, number of fish per unit volume) may be reported for both total haul and for individual species. Biological characteristics of selected specimens, predator/prey information (from stomach contents analysis), and growth data may also be included. A text record is available for comments.

DATA CENTRE: National Oceanographic Data Center.

FILE: Intertidal Organisms and Habitats (File 030).
GEOGRAPHIC COVERAGE: Coastal Alaska.
TIME PERIOD: 1974 - 1980.
PARAMETERS:
SENSOR/INSTRUMENT:
FILE ORGANIZATION: Cruise order.
FILE SIZE: 975 Stations; 20,701,082 bytes (1 October 1987).
STORAGE MEDIA/FORMAT:
NARRATIVE SUMMARY: This file contains data from field sampling of marine organisms in intertidal or subtidal habitats. The data are collected to provide information about species abundance and distribution. Data from each observation may include: cruise and station information such as vessel name, senior scientist, position, date, and time; environmental conditions such as surface temperature and salinity, wind speed and direction, and sea state; sediment and habitat descriptors; and species identification and organism counts and measurements. Data may be reported for either individual or composite samples. A text record is available for reporting comments.

DATA CENTRE: National Oceanographic Data Center.

FILE: Intertidal Organisms and Habitats (File 100).
GEOGRAPHIC COVERAGE: Puget Sound.
TIME PERIOD: 1974 - 1979.
PARAMETERS:
SENSOR/INSTRUMENT:
FILE ORGANIZATION: Cruise order.
FILE SIZE: 280 Stations; 8,736,000 bytes (1 October 1987).
STORAGE MEDIA/FORMAT:
NARRATIVE SUMMARY: This file contains data from field sampling of marine organisms in intertidal or subtidal habitats. The data are collected to provide information about species abundance and distribution. Data reported may include: position, date, and time; sea surface temperature and salinity, sediment size analysis, habitat descriptors, and other supporting environmental data; sampling methods and equipment; species identification and organism counts and weights for any number of species; biological condition of individual specimens including age, sex, dimensions, and parasites; and stomach contents analysis. A text record is available for reporting comments.

DATA CENTRE: National Oceanographic Data Center.

FILE: Benthic Macrofauna (File 002).
GEOGRAPHIC COVERAGE: Mid-Atlantic Bight, US Gulf Coast.
TIME PERIOD: 1957 - 1979.
PARAMETERS:
SENSOR/INSTRUMENT:
FILE ORGANIZATION: Cruise order.
FILE SIZE: 3,811 Stations; 15,012,360 bytes (1 October 1987).
STORAGE MEDIA/FORMAT:
NARRATIVE SUMMARY: This file contains data from field sampling of bottom dwelling macrofauna. These data are collected to provide information on population densities and distributions. Cruise information, position, date, and time, gear type and sampling methods are reported for each station. Environmental data may include water temperature, salinity and oxygen; meteorological and sea surface conditions; and sediment characteristics. Sampling data are reported by species and include number of individuals and mass of organisms.

DATA CENTRE: National Oceanographic Data Center.

FILE: Benthic Organisms (File 132).
GEOGRAPHIC COVERAGE: Coastal Alaska, Gulf of Mexico.
TIME PERIOD: 1974 - 1984.
PARAMETERS:
SENSOR/INSTRUMENT:
FILE ORGANIZATION: Cruise order.
FILE SIZE: 26,218 Stations; 34,077,758 bytes (1 October 1987).
STORAGE MEDIA/FORMAT:
NARRATIVE SUMMARY: This file contains data from field sampling or surveys of bottom dwelling marine organisms. The data provide information on species abundance, distribution, and biomass; they may have been collected by point sampling (grab or core), by tow (dredge, trawl or net), by photographic surveys, or by other methods. Cruise information such as vessel, start and end dates, investigator, and institution/agency; station numbers, positions and times; and equipment and methods are reported for each survey. Environmental data reported at each sampling site may include meteorological and sea surface conditions; surface and bottom temperature, salinity and dissolved oxygen; and sediment characteristics. Number of individual organisms and total weight of organisms is reported for each species. A text record is available for comments.

DATA CENTRE: National Oceanographic Data Center.

FILE: Marine Toxic Substances and Pollutants (File 144).
GEOGRAPHIC COVERAGE: US Gulf Coast, Coastal Alaska, Puget Sound, New York Bight.
TIME PERIOD: 1974 - present.
PARAMETERS:
SENSOR/INSTRUMENT:
FILE ORGANIZATION: Cruise order.
FILE SIZE: 23,779 Stations; 20,915,600 bytes (1 October 1987).
STORAGE MEDIA/FORMAT:
NARRATIVE SUMMARY: This file contains data on ambient concentrations of toxic substances and other pollutants in the marine environment. The data derive from laboratory analyses of samples of water, sediment, or marine organisms. Samples may have been collected near marine discharge sites or during ocean monitoring surveys of large areas. Field observations of tar deposits on beaches may also be reported. Survey information includes platform type, start and end dates, and investigator and institution. If data are collected near a discharge site, discharge location, depth, distance to shore, average volume, and other characteristics are reported. Position, date, time and environmental conditions are reported for each sample station. Environmental data may include meteorological and sea surface conditions, tide stage and height, depth of the thermocline or mixed layer surface temperature and salinity, and wave height and periods. Sample characteristics, collection methods, and laboratory techniques are reported for each sample collected and analyzed. The data record comprises concentration values (or a code to indicate trace amounts) for each chemical substance analyzed. Chemical substances are identified by codes based on the registry numbers assigned by the Chemical Abstracts Service (CAS) of the American Chemical Society. Marine organisms from which samples have been taken are identified using the 12-digit NODC Taxonomic Code. A text record is available for optional comments.

DATA CENTRE: National Oceanographic Data Center.

FILE: Marine Animal Sighting and Census (F127).
GEOGRAPHIC COVERAGE: Coastal Alaska.
TIME PERIOD: 1979 - 1983.
PARAMETERS:
SENSOR/INSTRUMENT:
FILE ORGANIZATION: Cruise order.
FILE SIZE: 49,518 Stations; 10,332,320 bytes (1 October 1987).
STORAGE MEDIA/FORMAT:
NARRATIVE SUMMARY: This file contains data from field observations of marine animals. Data may be reported either for individual, random sightings or for sightings made as part of systematic ship or aircraft surveys along specified tracks. These data provide information on animal population densities and distributions, activities, migratory routes and breeding locales. Cruise or survey information, start and end positions, start and end times, and platform speed, direction, and altitude are reported for each observation or series of observations. Position, date and time are reported for each sighting location, along with a code indicating presence or absence of animals and, if present, their distance to the observer, shoreline, and ice edge and heading direction. For each sighting location, animal sighting data are reported by species for all observed species. Species identification, total number of individuals, and counts by age group (adults, subadults, juveniles, unknown) may be reported in summary for all animals sighted or by subgroups distinguished by sex, behavior, markings, or other characteristics. A text record is available for comments.

DATA CENTRE: National Oceanographic Data Center.

FILE: Marine Mammal Specimen (F025).
GEOGRAPHIC COVERAGE: Coastal Alaska.
TIME PERIOD: 1975 - 1981.
PARAMETERS:
SENSOR/INSTRUMENT:
FILE ORGANIZATION: Cruise order.
FILE SIZE: 4,467 Stations; 3,072,960 bytes (1 October 1987).
STORAGE MEDIA/FORMAT:
NARRATIVE SUMMARY: This file contains data from examinations of marine mammal specimens. The data are collected to define behavior, population dynamics, and trophic relationships of marine mammals. In addition to species, position, time and environmental conditions at the collection site, data for each specimen may include weight and body dimensions, sex and reproductive status, age, primary cause of death, and analysis of stomach contents. The species of both the specimen and its ingested prey are encoded using the NODC Taxonomic Code. Comments may be reported in a free-text record.

DATA CENTRE: National Oceanographic Data Center.

FILE: Marine Bird Sighting, Ship/Aircraft Census (F033).
GEOGRAPHIC COVERAGE: Coastal Alaska, North Pacific.
TIME PERIOD: 1974 - 1982.
PARAMETERS:
SENSOR/INSTRUMENT:
FILE ORGANIZATION: Cruise order.
FILE SIZE: 32,916 Stations; 32,873,395 bytes (1 October 1987).
STORAGE MEDIA/FORMAT:
NARRATIVE SUMMARY: This file contains data from field observations of marine birds made along ship or aircraft survey tracks. These data are collected to provide information on population density and distribution. Start and end position, date and elapsed time, speed and course, platform type, and observing techniques are reported for each survey. Environmental information may include meteorological and sea surface conditions, distances to the shoreline and shelf break, ice characteristics within and outside each transect, and surface debris, including oil slicks. Species data may include age, sex, color, plumage, number of individuals, direction of flight, behavior, and food source association. Any number of species may be reported within one observation time span. A text record is available for comments.

DATA CENTRE: National Oceanographic Data Center.

FILE: Marine Bird Sighting, Land Census (F034).
GEOGRAPHIC COVERAGE: Coastal Alaska.
TIME PERIOD: 1975 - 1980.
PARAMETERS:
SENSOR/INSTRUMENT:
FILE ORGANIZATION: Cruise order.
FILE SIZE: 7,994 Stations; 4,785,760 bytes (1 October 1987).
STORAGE MEDIA/FORMAT:
NARRATIVE SUMMARY: This file contains data from field observations of marine birds made along land survey tracks. These data are collected to provide information on population density and distribution and breeding locales. The contents and structure of this file is similar to File 033, although the transect distance of land surveys will normally be shorter than that of ship and aircraft surveys. In this file the investigator defines the unit lateral dimension of survey distance (a specified number of whole meters). Start and end position, date and elapsed time, and number of distance units are reported for each survey. Environmental information may include meteorological and adjacent sea surface conditions, distance to nearest shoreline, ice characteristics, and debris, including oil slicks. Species data may include age, sex, color, plumage, number of individuals, flight direction, behavior, and food source association. Any number of species may be reported within one observation time span. A text record is available for comments.

DATA CENTRE: National Oceanographic Data Center.

FILE: Marine Bird Specimen and Feeding Studies (F031).
GEOGRAPHIC COVERAGE: Coastal Alaska.
TIME PERIOD: 1975 - 1980.
PARAMETERS:
SENSOR/INSTRUMENT:
FILE ORGANIZATION: Cruise order.
FILE SIZE: 7,994 Stations; 1,498,080 bytes (1 October 1987).
STORAGE MEDIA/FORMAT:
NARRATIVE SUMMARY: This file contains data from laboratory examination of marine bird specimens collected in the field and analysis of food sample contents to determine prey species and characteristics. These data provide information on population dynamics and trophic relationships. Position, date, and time are reported for each sample station, along with environmental data at the sample site including ice conditions, if appropriate. Environmental data may include air temperature and pressure, wind direction and speed, sea surface temperature, tide conditions, and habitat and microenvironment descriptors. Species identification, general biological condition (e.g., age, sex, color), weight, and body dimensions are reported for each specimen (multiple specimens may be collected at each sample site). If food samples are taken, food sample source and characteristics are reported. From food sample analysis, prey species are identified and for each such species further detailed data may be presented including frequency distribution of prey or prey part length and weight. A text record is available for comments.

DATA CENTRE: National Oceanographic Data Center.

FILE: Marine Bird Habitats (F040).
GEOGRAPHIC COVERAGE: Coastal Alaska.
TIME PERIOD: 1975 - 1978.
PARAMETERS:
SENSOR/INSTRUMENT:
FILE ORGANIZATION: Cruise order.
FILE SIZE: 2,152 Stations; 2,766,320 bytes (1 October 1987).
STORAGE MEDIA/FORMAT:
NARRATIVE SUMMARY: This file contains data from field observations of marine bird species and their associated habitats. The data are collected to provide information about species abundance, distribution, and behavior. Position, date, time elapsed survey time, area and distance, platform type, and sampling technique are reported for each survey. Environmental information may include meteorological conditions, sea surface temperature and salinity, tide conditions, and ice characteristics. Species and habitat information may include number of species, number of individuals per species, age, sex, color, molt, behavior, physiographic features, substrate, cover, and distances to shore, barrier islands, or river deltas. Comments may be reported in a text record.

DATA CENTRE: National Oceanographic Data Center.

FILE: Marine Bird Surveys (F041).
GEOGRAPHIC COVERAGE: Puget Sound.
TIME PERIOD: 1978 - 1979.
PARAMETERS:
SENSOR/INSTRUMENT:
FILE ORGANIZATION: Cruise order.
FILE SIZE: 3,357 Stations; 3,518,560 bytes (1 October 1987).
STORAGE MEDIA/FORMAT:
NARRATIVE SUMMARY: This file contains data from field observations (land surveys) of marine birds and the environment in which they were sighted. These data are collected to provide information on population density and distribution. Position, date, start time, elapsed time, and survey segment area and distance are recorded for each survey. The survey environment is described by vegetation type, geological characteristics, beach substrate, upland type, nearshore bathymetry, meteorological and tidal conditions. Species information includes numbers of individuals by age and sex. Information such as age, sex, location, condition, presence of oil, and cause of death may also be reported for individual specimens. A text record is available for comments.

DATA CENTRE: National Oceanographic Data Center.

FILE: Feeding Flock (F037).
GEOGRAPHIC COVERAGE: Coastal Alaska.
TIME PERIOD: 1975 - 1976.
PARAMETERS:
SENSOR/INSTRUMENT:
FILE ORGANIZATION: Cruise order.
FILE SIZE: 223 Stations; 130,320 bytes (1 October 1987).
STORAGE MEDIA/FORMAT:
NARRATIVE SUMMARY: This file contains data from field observations of marine bird feeding flocks made during air or ship surveys. These data are collected to provide information on marine bird feeding dynamics, community structure, and trophic relationships. Start and end positions, date and elapsed time, course, speed, distance, altitude, platform type, and observing techniques are reported for each survey. Environmental information may include meteorological and sea surface conditions, distances to the shoreline and shelf break, ice characteristics, and surface debris, including oil slicks. Flock information may include flock height and dimensions, number of species, number of individuals per species, distance to land, species and number of associated marine mammals, flock behavior, interaction with other species, and arrival/departure activities.

DATA CENTRE: National Oceanographic Data Center.

FILE: Migratory Bird Sea Watch (F038).
GEOGRAPHIC COVERAGE: Coastal Alaska.
TIME PERIOD: 1977 - 1978.
PARAMETERS:
SENSOR/INSTRUMENT:
FILE ORGANIZATION: Cruise order.
FILE SIZE: 12 Stations; 80,640 bytes (1 October 1987).
STORAGE MEDIA/FORMAT:
NARRATIVE SUMMARY: This file contains data from field observations of migratory bird species made at fixed offshore positions. These data are collected to provide information about migratory routes and breeding locales of principal marine bird species. Position, date, start and end times, elapsed time, distance from shore, platform type, counting method, and sampling technique are reported for each series of observations. Environmental information may include meteorological and sea surface conditions, ice cover, and tide height and trend. Species information may include age, sex, color, plumage, molt, behavior, number of individuals, and number of species. A text record is available for comments.

DATA CENTRE: National Oceanographic Data Center.

FILE: Fin Rot (F006).
GEOGRAPHIC COVERAGE: US East Coast.
TIME PERIOD: 1973 - 1975.
PARAMETERS:
SENSOR/INSTRUMENT:
FILE ORGANIZATION: Cruise order.
FILE SIZE: 1,427 Stations; 557,760 bytes (1 October 1987).
STORAGE MEDIA/FORMAT:
NARRATIVE SUMMARY: This file contains data from examinations of the biological condition of diseased fishes. For tow samples collected, data include: total number of individuals of a given species, number of diseased fish of that species, and extent of damage to the body and various fins for up to 3 selected diseased individuals. The cruise, institution, senior scientist, and station are identified. Parameters defining environmental conditions at the sample location at the time of collection (e.g., water temperature and salinity, air temperature, wind direction and speed) may also be recorded.

DATA CENTRE: National Oceanographic Data Center.

FILE: Fish Pathology (F013).
GEOGRAPHIC COVERAGE: Coastal Alaska.
TIME PERIOD: 1975 - 1980.
PARAMETERS:
SENSOR/INSTRUMENT:
FILE ORGANIZATION: Cruise order.
FILE SIZE: 948 Stations; 3,230,400 bytes (1 October 1987).
STORAGE MEDIA/FORMAT:
NARRATIVE SUMMARY: This file contains data from examinations of diseased fishes. Although these data may be from field observations, they derive primarily from laboratory analyses. Data include: identification of the cruise, institution, and senior scientist; date, time, station location, and fishing duration, distance, and gear; catch statistics (e.g., total weight, number of individuals, age group, identity of diseases, and number of diseased individuals) by species for any number of species; and biological condition of selected specimens. The size, affected organ, location, and frequency of lesions may be reported for individual specimens. These data may be characteristics of individual lesions or average lesion statistics.

DATA CENTRE: National Oceanographic Data Center.

FILE: Marine Invertebrate Pathology (F063).
GEOGRAPHIC COVERAGE: Coastal Alaska, US Gulf Coast.
TIME PERIOD: 1976 - 1978.
PARAMETERS:
SENSOR/INSTRUMENT:
FILE ORGANIZATION: Cruise order.
FILE SIZE: 325 Stations; 559,520 bytes (1 October 1987).
STORAGE MEDIA/FORMAT:
NARRATIVE SUMMARY: This file contains data from examinations of diseased marine invertebrates. Although these data may be from field observations, they derive primarily from laboratory analyses. Data include: identification of cruise, institution and senior scientist; date, time, station location, and sampling gear and method; catch statistics (e.g., total weight, number of individuals, identity of diseases, and number of diseased individuals) by species for any number of species; and biological condition of selected specimens. The size, location, and frequency of lesions may be reported for individual specimens. A text record is available for comments.

DATA CENTRE: National Oceanographic Data Center.

FILE: Marine Bacteria (F009).
GEOGRAPHIC COVERAGE: US Gulf Coast.
TIME PERIOD: 1975 - 1979.
PARAMETERS:
SENSOR/INSTRUMENT:
FILE ORGANIZATION: Cruise order.
FILE SIZE: 325 Stations; 288,880 bytes (1 October 1987).
STORAGE MEDIA/FORMAT:
NARRATIVE SUMMARY: This file contains data from bacteriological studies of the water column and ocean bottom. Data include identification of the cruise station and senior scientist; physical measurements of the water or sediment; general environmental conditions at the time of sample collection; and the density (number per unit volume, weight, or area of sample) of heterotrophic, hydrocarbonoclastic, or halophilic bacteria.

DATA CENTRE: National Oceanographic Data Center.

FILE: Microbiological Degradation (F059).
GEOGRAPHIC COVERAGE: New York Bight, Puget Sound.
TIME PERIOD: 1977 - 1979.
PARAMETERS:
SENSOR/INSTRUMENT:
FILE ORGANIZATION: Cruise order.
FILE SIZE: 214 Stations; 384,320 bytes (1 October 1987).
STORAGE MEDIA/FORMAT:
NARRATIVE SUMMARY: This file contains data from laboratory analyses of bacteria, fungi, and other microbiota from samples collected in the marine environment. Position, date, time, and sampling interval (start and end dates) are reported for each series of observations. Environmental information may include meteorological conditions, temperature, salinity, and habitat characteristics. Sample data include laboratory techniques, sample treatment methods, incubation time and temperature, results of chemical analyses, and identity and density of microorganisms. Comments may be reported in a text record.

DATA CENTRE: National Oceanographic Data Center.

FILE: Seabed Oxygen Consumption (F050).
GEOGRAPHIC COVERAGE: New York Bight.
TIME PERIOD: 1974 - 1978.
PARAMETERS:
SENSOR/INSTRUMENT:
FILE ORGANIZATION: Cruise order.
FILE SIZE: 574 Stations; 179,010 bytes (1 October 1987).
STORAGE MEDIA/FORMAT:
NARRATIVE SUMMARY: This file contains data from analyses of seabed oxygen consumption determined from measurements over a specified time interval of initial and final dissolved oxygen concentration. Cruise information, position, date, time, number of replicates (repeat measurements), and bottom depth, temperature, dissolved oxygen concentration, and oxygen saturation are reported for each experiment. General environmental information may include meteorological and sea surface conditions and water transparency. Elapsed time, initial dissolved oxygen concentration, final dissolved oxygen concentration, oxygen consumption, and weight percent organic matter are reported for each replicate. Data on water column respiration (e.g., oxygen concentration, oxygen consumed or produced) may also be reported.

DATA CENTRE: National Oceanographic Data Center.

FILE: Herring Surveys (F057).
GEOGRAPHIC COVERAGE: Coastal Alaska.
TIME PERIOD: 1976 - 1977.
PARAMETERS:
SENSOR/INSTRUMENT:
FILE ORGANIZATION: Cruise order.
FILE SIZE: 457 Stations; 210,060 bytes (1 October 1987).
STORAGE MEDIA/FORMAT:
NARRATIVE SUMMARY: This file contains data from aircraft surveys of herring schools. These data are collected to provide information on herring population density and distribution. Start date and time, start and end positions, and aircraft type, altitude, and airspeed are reported for each survey. Surveys are conducted for preassigned areas and mid-point positions of census areas are reported. Environmental information may include meteorological conditions, sea state, air roughness, and water clarity. Census data include species identification, school position and activity, school size index, and number of schools sighted. Predominant beach type, biota type, and escarpment type may also be indicated. A text record is available for comments.

DATA CENTRE: National Oceanographic Data Center.

FILE: Southern Ocean Atlas Data.
GEOGRAPHIC COVERAGE: Circumpolar area; 30° S to 80° S.
TIME PERIOD:
PARAMETERS:
SENSOR/INSTRUMENT:
FILE ORGANIZATION:
FILE SIZE: Atlas DataSet: 6,313 stations one magnetic tape (1600 bpi). Grid Point DataSet: 9,231 Records (one for each grid point) one magnetic tape (1600 bpi).
STORAGE MEDIA/FORMAT:
NARRATIVE SUMMARY: High quality hydrographic dataset prepared in conjunction with the Southern Ocean Atlas (Columbia University Press) compiled by A. Gordon and co-authors.

DATA CENTRE: National Oceanographic Data Center.

FILE: Nearshore Sediment Transport Study: Torrey Pines Experiment.
GEOGRAPHIC COVERAGE: Torrey Pines Beach, San Diego, California.
TIME PERIOD: 4 November 1978 - 24 November 1978 with follow-on sand tracer experiment on 6 December 1978.
PARAMETERS:
SENSOR/INSTRUMENT:
FILE ORGANIZATION:
FILE SIZE: Approximately 16 million data points. 8 Magnetic tapes (unformatted binary, 1600 bpi).
STORAGE MEDIA/FORMAT:
NARRATIVE SUMMARY: Data on surf zone dynamics from NSTS Torrey Pines Experiment conducted at Torrey Pines Beach, San Diego, California.

DATA CENTRE: National Oceanographic Data Center.

FILE: Nearshore Sediment Transport Study: Santa Barbara Experiment.
GEOGRAPHIC COVERAGE: Leadbetter Beach, Santa Barbara, California.
TIME PERIOD: 27 January 1980 - 25 February 1980.
PARAMETERS:
SENSOR/INSTRUMENT:
FILE ORGANIZATION:
FILE SIZE: Approximately 1 billion words of data, 28 Magnetic tapes (unformatted binary, 1600 bpi).
STORAGE MEDIA/FORMAT:
NARRATIVE SUMMARY: Data on surf zone dynamics from NSTS Santa Barbara Experiment conducted at Leadbetter Beach, Santa Barbara, California. A 14-month sediment trap study began in October 1979.

DATA CENTRE: National Oceanographic Data Center.

FILE: Climatological Atlas of the World Ocean.
GEOGRAPHIC COVERAGE: World-wide oceans.
TIME PERIOD:
PARAMETERS:
SENSOR/INSTRUMENT:
FILE ORGANIZATION:
FILE SIZE: Annual Analyses: T°, S°/$_{oo}$, O_2 and O_2 saturation on one-degree grid - 2 Magnetic Tapes (1600 bpi), Seasonal Analyses: T and S on one-degree grid - 4 Magnetic Tapes (1600 bpi), Monthly Analyses: T only on one-degree grid - 3 Magnetic Tapes (1600 bpi).
STORAGE MEDIA/FORMAT:
NARRATIVE SUMMARY: Datasets prepared by S. Levitus of the NOAA Geophysical Fluid Dynamics Laboratory in conjunction with the Climatological Atlas of the World Ocean (NOAA Professional Paper No. 13, December 1982). Synthesis of temperature, salinity, and oxygen data from NODC's Oceanographic Station and Bathythermograph data files.

DATA CENTRE: National Oceanographic Data Center.

FILE: Worldwide Ocean Water Color/Water Transparency Data.
GEOGRAPHIC COVERAGE: World-wide oceans.
TIME PERIOD:
PARAMETERS:
SENSOR/INSTRUMENT:
FILE ORGANIZATION:
FILE SIZE: 116,350 stations, 1 Magnetic tape (1600 bpi).
STORAGE MEDIA/FORMAT:
NARRATIVE SUMMARY: Dataset derived from the NODC Oceanographic Station Data file and consisting of master records (station header information) from all stations reporting either water color or water transparency (116,350 stations selected from the total of over 700,000 stations held in this file as of December 1985). Water color recorded as 2-digit codes on the Forel-ule color scale. Water transparency recorded as secchi disc depth in whole meters.

DATA CENTRE: National Oceanographic Data Center.

FILE: Atlantic Remote Sensing Land/Ocean Experiment (F181).
GEOGRAPHIC COVERAGE: Coastal North Carolina.
TIME PERIOD: 1980.
PARAMETERS:
SENSOR/INSTRUMENT:
FILE ORGANIZATION: Cruise Order.
FILE SIZE: 75 Observation Months; 442,211,472 bytes (1 October 1987).
STORAGE MEDIA/FORMAT:
NARRATIVE SUMMARY: This file contains time-series coastal ocean wave and current data collected during the Atlantic Remote Sensing Land/Ocean Experiment (ARSLOE). ARSLOE was sponsored jointly by the Coastal Engineering Research Center (CERC) of the US Army Corps of Engineers and the National Ocean Survey (now Service) of NOAA; it was conducted from 6 October to 30 November 1980 in the area off Duck, N.C. near the CERC Field Research Facility. The data were collected using modern electronic sensors such as EM current meters, waveriders, wave staffs, and pressure gauges. Instrument type and characteristics, position, mean sea-level, initial time, time span of the data sample, and sampling period are reported for each series of measurements. Depending on the type of instrument used and data collected, data are reported in eight alternate data records. These contain: (1) EM current meter data (east and north components), (2) Baylor gauge data (water level), (3) pressure gauge data (water pressure), (4) waverider data (wave displacement), (5) wave direction buoy (wave displacement, east and north wave slope components), (6) wave spectra (co- and quadspectra), (7) wave data (angular Fourier coefficients), and (8) 3-axis current meter data (east and north components). A text record is available for providing additional documentation.

DATA CENTRE: National Oceanographic Data Center.

FILE: Coastal Wave Data (File 182).
GEOGRAPHIC COVERAGE: US East Coast.
TIME PERIOD: 1979 - 1983.
PARAMETERS:
SENSOR/INSTRUMENT:
FILE ORGANIZATION: Cruise Order.
FILE SIZE: 51 Observation Months; 190,856,448 bytes (1 October 1987) - 7 Magnetic tapes (6250 bpi).
STORAGE MEDIA/FORMAT:
NARRATIVE SUMMARY: This file contains time-series wave data collected by the Coastal Wave Programme of NOAA's National Ocean Service (NOS). The data are from wave-riders deployed in waters off the northeastern United States. Both measured wave displacement values and non-directional wave energy spectrum data are reported. Instrument type and characteristics, position, mean sea-level, date, initial time, time span of data sample, sampling frequency, total variance, and wave period of maximum spectral energy are reported for each series of measurements. The data record comprises frequency spectral values and wave displacement values.

DATA CENTRE: National Oceanographic Data Center.

FILE: Gulf Offshore Weather Observing Network (GOWON) (File 192).
GEOGRAPHIC COVERAGE: US Gulf Coast.
TIME PERIOD: 1981 - 1982.
PARAMETERS:
SENSOR/INSTRUMENT:
FILE ORGANIZATION: Cruise order.
FILE SIZE: 324 Observation-months; 52,465,888 bytes (1 October 1987).
STORAGE MEDIA/FORMAT:
NARRATIVE SUMMARY: This file contains time-series meteorological and ocean wave data measured by instruments deployed on offshore oil rigs in the Gulf of Mexico. The data are being collected as part of a cooperative programme between the NOAA National Weather Service and participating oil companies. A station identifier, position, and instrument altitude are reported for each series of observations. The data record comprises date and time and measured parameters that may include air temperature and pressure; wind direction; speed, and gust; significant wave height, maximum wave height, and wave period; and water level.

ICES

ORGANIZATION

NAME: ICES Service Hydrographique
CONTACT: ICES Service Hydrographique
ADDRESS: Palaegade 2,
DK-1261 Copenhagen K,
DENMARK
Tel: (45) (33) 115 42 25
Tlx: 22498
Email: ICES.DK (Omnet) ICES.SECRETARIAT (Omnet)
Fax: (45) (33) 193 42 15

DESCRIPTION

The data centre is contained within the Secretariat of the International Council for the Exploration of the Sea (ICES). It provides marine information and is a centre for oceanographic data from the ICES area (North Atlantic and adjacent seas excluding the Mediterranean). Acts as National Data Centre for some Scandinavian Countries and as project data centre for ICES sponsored oceanographic programmes, handling physical, chemical, biological and pollution data. All Oceanographic data are stored in ICES format and selections can be made available, at cost, on magnetic tape (800, 1600,6250 bpi) on MS DOS formatted floppy diskettes or printout. ROSCOP information can be supplied with retrieval software, also on MS DOS floppy diskette. ROSCOP information is freely available immediately on request but all project data and other data collected within the preceding 10 years are available only with the permission of the originator.

FILE DESCRIPTIONS

DATA CENTRE: ICES Service Hydrographique.

FILE: Oceanographic Station file.
GEOGRAPHIC COVERAGE: North Atlantic.
TIME PERIOD: 1900 - present.
PARAMETERS: T°, S°/$_{oo}$, nutrients.
SENSOR/INSTRUMENT: Bottle Stations.
FILE SIZE: 550,000 stations.
STORAGE MEDIA/FORMAT: ICES Format on Magnetic tape.
NARRATIVE SUMMARY: Classical Oceanographic bottle stations and reduced resolution CTD for North Atlantic area from 1900 to present. - 550,000 water bottle (or equivalent) stations, including 10,000 from North Atlantic Ocean Weather Stations.

DATA CENTRE: ICES Service Hydrographique.

FILE: Sea Surface Temperature and Salinity.
GEOGRAPHIC COVERAGE: North Atlantic.
TIME PERIOD:
PARAMETERS: T° and S°/$_{oo}$.
SENSOR/INSTRUMENT:
FILE SIZE: 400,000 stations.
STORAGE MEDIA/FORMAT: Tape 1800, 1600, 6250 bpi, Diskette (MS DOS) or print. ICES format. ROSCOP info available with retreival software (MS DOS diskette).
NARRATIVE SUMMARY: 400,000 SST/SSS stations;

DATA CENTRE: ICES Service Hydrographique.

FILE: Mechanical BT File (MBT).
GEOGRAPHIC COVERAGE: North sea and Baltic.
TIME PERIOD:
PARAMETERS: T°/Depth Profiles.
SENSOR/INSTRUMENT: MBT.
FILE SIZE: 60,000 stations.
STORAGE MEDIA/FORMAT: Tape 1800, 1600, 6250 bpi, Diskette (MS DOS) or print. ICES format.
ROSCOP info available with retreival software (MS DOS diskette).
NARRATIVE SUMMARY:

PRODUCT EVALUATION QUESTIONNAIRE

Your name : .....
Function: .....
Institution: .....
.....
Address: .....
.....
.....

A. INPUT

1. Has your institution provided input for the first edition of the MEDI catalogue (1979) — o yes o no

2. Has your institution provided input for the second edition of the MEDI catalogue (1985) — o yes o no

3. Has your institution provided input for the third edition of the MEDI catalogue (1992) — o yes o no

4. If your institution has not provided any input then please specify the reasons:

B. USAGE & APPRECIATION

5. Do you find the product useful — o yes o no

6. Do you (or other scientists in your institution use the catalogue (times/year):
   - o NO
   - o <1/year
   - o 1-11/year
   - o >12/year

7. Do you find the input instructions clear — o yes o no

8. Are you satisfied with the Geographic Area descriptors (Appendix I) — o yes o no
   8.1. If NO then what changes would you suggest
   .....
   .....
   .....
   .....
   .....

9. Are you satisfied with the Data types (subject descriptors) (Appendix II) — o yes o no
   9.1. If NO then what changes would you suggest
   .....
   .....
   .....
   .....
   .....

10. Are you satisfied with the current record structure:
    10.a.with the Organization Description (name, contact, address, description) — o yes o no
    10.a.1. If NO then what suggestions can you make:
    .....
    .....
    .....
    .....

10.b.with the Data Holding Description O yes O no
10.b.1. If NO then what suggestions can you make:
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11. With the quality of the entries O yes O no
11.1. If NO then please give details:
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C. SERVICES

12. Have you requested data or information from any of the input centres based on the MEDI catalogue? O yes O no
12.a. Did you receive a reply to you request? O yes O no
12.b. Did you receive the requsted information? O yes O no
12.c. Did you receive the requested data? O yes O no
12.d. How long did it take for you to get the requested information or data? O yes O no
12.e. Were you satisfied with the service provided by the centre? O yes O no

D. FORMAT

13. Are you satisfied with the printed version or would you prefer a computer searchable version O satisfied as is
O computer version

E. COMMENTS

Please provide any comments or suggestions which may assist us in improving MEDI's future development:
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.....

Please return the questionnaire to:

MEDI Co-ordinating Centre
Intergovernmental Oceanographic Commission
IOC
1, rue Miollis
75732 Paris Cedex 15
FRANCE

or fax it to us: (33 1) 40 56 93 16

We thank you for your cooperation

Date : . . / . . / . . Signature: .....

QUESTIONNAIRE RELATIF A L'EVALUATION DU PRODUIT

Nom : .....
Fonction : .....
Institution : .....
.....
Adresse : .....
.....
.....

A. ENREGISTREMENT DE DONNEES

1. Votre institution a-t-elle fourni des données pour la première édition du Catalogue MEDI (1979) ☐ oui ☐ non

2. Votre institution a-t-elle fourni des données pour la deuxième édition du Catalogue MEDI (1985) ☐ oui ☐ non

3. Votre institution a-t-elle fourni des données pour la troisième édition du Catalogue MEDI (1992) ☐ oui ☐ non

4. Si votre institution n'a pas fourni de données, veuillez en préciser les raisons :

B. UTILISATION ET APPRECIATION

5. Estimez-vous que ce produit est utile ? ☐ oui ☐ non

6. Combien de fois par an vous-même ou d'autres spécialistes scientifiques de votre institution vous servez-vous de ce catalogue :
   ☐ jamais
   ☐ <1 fois par an
   ☐ de 1 à 11 fois par an
   ☐ >12 fois par an

7. Estimez-vous que les instructions relatives à l'enregistrement des données sont suffisamment claires ? ☐ oui ☐ non

8. Etes-vous satisfait des descripteurs de zone géographique ? (Appendice I) ☐ oui ☐ non
   8.1 Si vous avez répondu non à cette question, quels changements suggérez-vous ?
   .....
   .....
   .....
   .....

9. Etes-vous satisfait des types de données (descripteurs thématiques) ? (Appendice II) ☐ oui ☐ non
   9.1 Si vous avez répondu non à cette question, quels changements suggérez-vous ?
   .....
   .....
   .....
   .....

10. Etes-vous satisfait de la structure d'enregistrement actuelle :
    10.a Description de l'organisation (nom, contact, adresse, description) ☐ oui ☐ non
    10.a.1 Si vous avez répondu non à cette question, quelles suggestions pouvez-vous formuler :
    .....
    .....
    .....
    .....

10.b Description des collections de données ☐ oui ☐ non

10.b.1 Si vous avez répondu non à cette question, quelles suggestions pouvez-vous formuler :

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11. Etes-vous satisfait de la qualité des entrées ? ☐ oui ☐ non

11.1 Si vous avez répondu non à cette question, veuillez préciser :

.....
.....
.....
.....

C. SERVICES

12. Avez-vous demandé des données ou des informations à l'un des centres d'enregistrement figurant dans le catalogue MEDI ? ☐ oui ☐ non

12.a Avez-vous reçu une réponse à votre demande ? ☐ oui ☐ non

12.b Avez-vous reçu l'information demandée ? ☐ oui ☐ non

12.c Avez-vous reçu les données demandées ? ☐ oui ☐ non

12.d Combien de temps vous a-t-il fallu pour obtenir l'information ou les données demandées ?

12.e Avez-vous été satisfait du service fourni par ce centre ? ☐ oui ☐ non

D. PRESENTATION

13. Etes-vous satisfait de la forme imprimée ou préféreriez-vous une forme se prêtant à des recherches automatisées

☐ satisfait de la forme actuelle
☐ préfère une forme pour recherches automatisées

E. OBSERVATIONS

Veuillez fournir des observations ou des suggestions qui pourraient nous aider à améliorer le Catalogue MEDI :

.....
.....
.....
.....
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.....

Veuillez retourner ce questionnaire à l'adresse suivante :

Centre de coordination du MEDI
Commission océanographique intergouvernementale COI
1, rue Miollis
75732 Paris Cédex 15
FRANCE

ou l'envoyer par télécopieur au numéro : (33 1) 40 56 93 16

Nous vous remercions de votre coopération

Date : . . . / . . . / . . . Signature : .....

CUESTIONARIO DE EVALUACION DEL PRODUCTO

Nombre y apellidos: .....
Función: .....
Institución: .....
Dirección: .....
.....
.....

A. DATOS

1. ¿Aportó su institución datos para la primera edición del cátalogo MEDI (1979)? ☐ Sí ☐ No

2. ¿Aportó su institución datos para la segunda edición del catálogo MEDI (1985)? ☐ Sí ☐ No

3. ¿Aportó su institución datos para la tercera edición del catálogo MEDI (1992)? ☐ Sí ☐ No

4. Si su institución no aportó ningún dato, indique el motivo:

B. UTILIZACION Y APRECIACION

5. ¿Le parece útil el producto? ☐ Sí ☐ No

6. ¿Utiliza usted (u otros científicos de su institución) el catálogo (veces/año):
   - ☐ No
   - ☐ menos de una vez al año
   - ☐ entre una y once veces al año
   - ☐ más de 12 veces al año

7. ¿Le parecen claras las instrucciones para la preparación del registro? ☐ Sí ☐ No

8. ¿Le parecen adecuados los descriptores de Areas Geográficas? (Anexo I) ☐ Sí ☐ No

   8.1 En caso negativo, indique qué cambios introduciría:
   .....
   .....
   .....
   .....

9. ¿Le parecen adecuados los descriptores de Tipos de Datos? (descriptores de tema) (Anexo II) ☐ Sí ☐ No

9.1 En caso negativo, indique qué cambios introduciría:
.....
.....
.....
.....

10. ¿Le parece apropiada la actual estructura del registro?:

10.a. La descripción de la organización (nombre, enlace, dirección, descripción) ☐ Sí ☐ No
10.a.1 En caso negativo, indique sus sugerencias:

10.b. La Descripción de la Colección de Datos ☐ Sí ☐ No

10.b.1 En caso negativo, indique sus sugerencias:
.....
.....
.....

11. ¿Está satisfecho de la calidad de los registros? ☐ Sí ☐ No

11.1. En caso negativo, sírvase dar detalles:
.....
.....
.....
.....

C. SERVICIOS

12. ¿Ha solicitado datos o información a alguno de los centros sobre la base del catálogo MEDI? ☐ Sí ☐ No
12.a. ¿Recibió contestación? ☐ Sí ☐ No
12.b. ¿Recibió la información solicitada? ☐ Sí ☐ No
12.c. ¿Recibió los datos pedidos? ☐ Sí ☐ No
12.d. ¿Cuánto tiempo tardó en recibir los datos o la información solicitada?
12.e. ¿Quedó satisfecho del servicio prestado por el centro? ☐ Sí ☐ No

D. FORMATO

13. ¿Le satisface la versión impresa o preferiría una versión electrónica?

☐ está satisfecho
☐ versión electrónica

E. COMENTARIOS

Le agradeceremos cualquier comentario o sugerencia que pueda ayudarnos a mejorar el desarrollo futuro del MEDI:

.....
.....
.....
.....
.....
.....

Sírvase remitir el cuestionario a la siguiente dirección:

Centro de Coordinación del MEDI
Comisión Oceanográfica Intergubernamental
COI
1, rue Miollis
75732 París Cedex 15
FRANCIA

o envíelo por fax al: (33 1) 40 56 93 16

Le agradecemos su cooperación

Fecha: ..... Firma: .....

ВОПРОСНИК ПО ОЦЕНКЕ ПРОДУКЦИИ

Фамилия: .....
Должность: .....
Учреждение: .....
.....
.....
Адрес: .....
.....
.....

A. СПРАВОЧНЫЕ ДАННЫЕ

1. Предоставило ли ваше учреждение данные для первого издания каталога МЕДИ (1979 г.) — o да o нет

2. Предоставило ли ваше учреждение данные для второго издания каталога МЕДИ (1985 г.) — o да o нет

3. Предоставило ли ваше учреждение данные для третьего издания каталога МЕДИ (1992 г.) — o да o нет

4. Если ваше учреждение не предоставило никаких данных, то укажите, пожалуйста, причины этого:

B. ИСПОЛЬЗОВАНИЕ И ОЦЕНКА

5. Считаете ли вы продукцию полезной? — o да o нет

6. Используете ли вы (или другие ученые вашего учреждения) этот каталог? (число раз/год):
   o нет
   o < 1/год
   o 1–11/год
   o > 12/год

7. Считаете ли вы инструкции по предоставлению данных понятными? — o да нет

8. Удовлетворяют ли вас дискрипторы географического района (Приложение I)? — o да o нет

8.1. Если нет, то какие бы изменения вы предложили?.....
.....
.....
.....
.....
.....

9. Удовлетворяют ли вас типы данных предметные дискрипторы (Приложение II) o да o нет
9.1. Если нет, то какие бы изменения вы предложили.....
.....
.....
.....
.....
.....

10. Удовлетворяет ли вас нынешняя структура записи:
10.a. Описание организации (название, представитель, адрес, описание) o да o нет
10.a.1 Если нет, то какие бы предложения вы внесли:
.....
.....
.....
.....
.....

10.b. Описание фондов данных o да o нет
10.b.1. Если нет, то какие бы предложения вы внесли:
.....
.....
.....
.....
.....
.....

11. Качество вводимых данных o да o нет
11.1. Если нет, то поясните, пожалуйста, подробнее
.....
.....
.....
.....
.....

C. СЛУЖБЫ

12. Запрашивали ли вы данные или информацию в каком–либо из центров справочных данных, основывающихся на каталоге МЕДИ?	o да	o нет
12.a. Получили ли вы ответ на вашу заявку?	o да	o нет
12.b. Получили ли вы запрашиваемую информацию?	o да	o нет
12.c. Получили ли вы запрашиваемые данные?	o да	o нет
12.d. Сколько времени потребовалось для того, чтобы получить запрашиваемую информацию или данные?	o да	o нет
12.e. Удовлетворяют ли вас оказываемые центром услуги?	o да	o нет

D. ФОРМАТ

13. Удовлетворяют ли вас печатные варианты или вы предпочитаете вариант на основе компьютерного поиска?

o удовлетворен нынешней процедурой
o предпочитаю компьютерный вариант

E. КОММЕНТАРИИ

Просьба указать любые замечания или предложения, которые могли бы помочь нам улучшить будущее развитие МЕДИ

.....
.....
.....
.....
.....
.....

Пожалуйста, направьте вопросник по следующему адресу:

MEDI Co-ordinating Centre
Intergouvernmental Oceanographic Commission
IOC
1, rue Miollis
75732 Paris Cedex 15
FRANCE

or fax it to us: (33 1) 40 56 93 16

Благодарим вас за сотрудничество

Дата : . . / . . / . . Подпись:.....