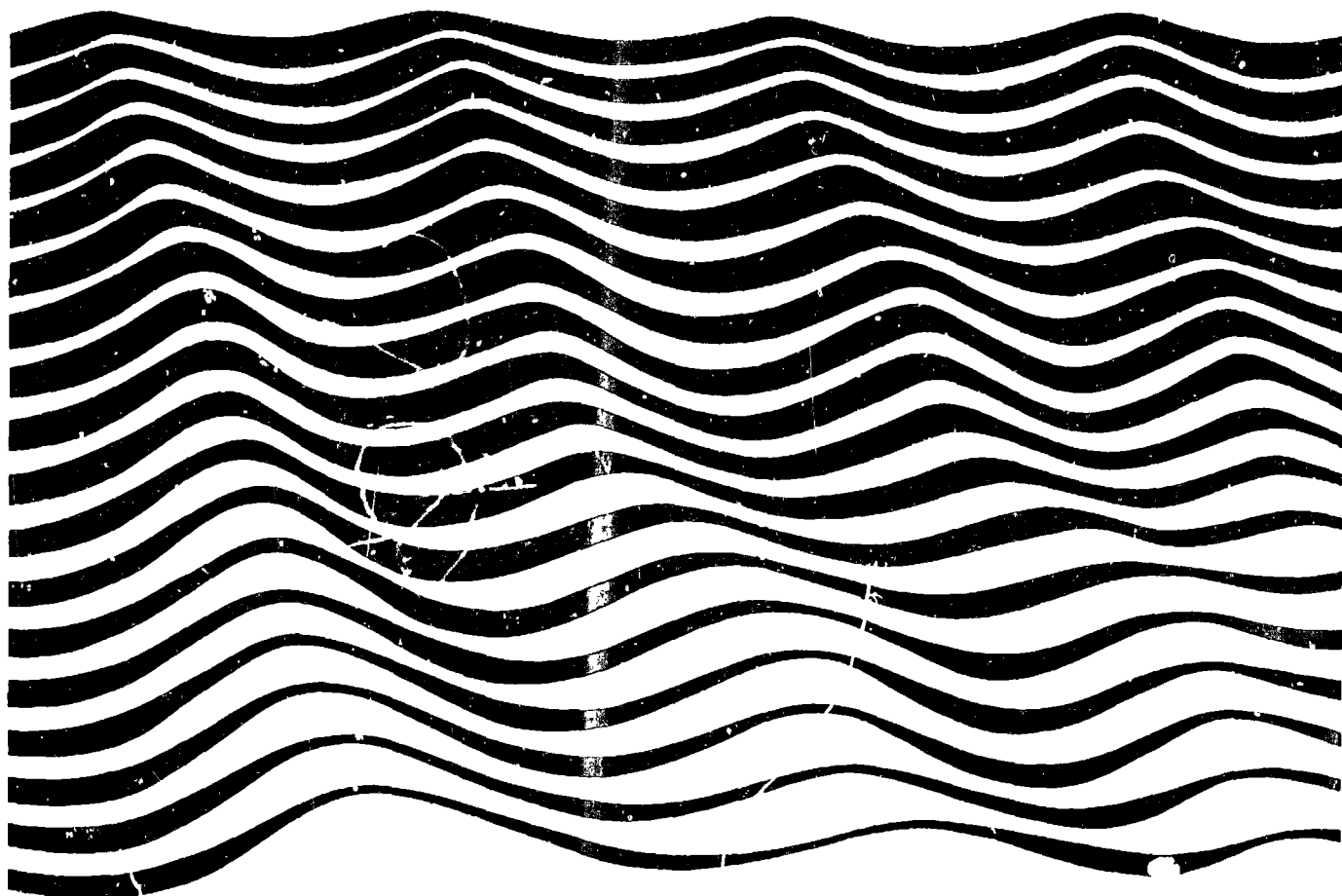


Unesco technical papers
in marine science 58

Directory of source materials for the history of oceanography



Unesco 1990

UNESCO TECHNICAL PAPERS IN MARINE SCIENCE

Numbers 2, 3, 5, 6, 7, 9, 10, 11, 12, 13, 15, 16, 17, 18, 20, 21, 22, 23, 24, 27, 28, 29, 30 and 32, are out of stock.

For full titles see inside back cover.

Numbers 1, 4, 8 and 14 are incorporated in No. 27.

No.	Year	SCOR WG	No.	Year	SCOR WG
19 Marine Science Teaching at the University Level Report of the Unesco Workshop on University Curricula-Available in Spanish and Arabic	1974	—	45 The International System of Units (SI) in Oceanography Report of IAPSO Working Group on Symbols, Units and Nomenclature in Physical Oceanography (SUN)	1985	—
25 Marine science programme for the Red Sea. Recommendations of the workshop held in Bremerhaven, FRG, 22-23 October 1974, sponsored by the Deutsche Forschungsgemein- schaft and Unesco	1976	—	46 Opportunities and problems in satellite measurements of the sea Report of SCOR Working Group 70 Available in Ar., Ch., F., R., and S.	1986	WG 70
26 Marine science in the Gulf area-Report of a consultative meeting, Paris, 11-14 November 1975	1976	—	47 Research on coastal marine systems Report of the third meeting of the Unesco/SCOR/IABO consultative panel on coastal systems October 1984	1986	—
31 Coastal lagoon survey (1976-1978)	1980	—	48 Coastal off-shore ecosystems relationships Final Report of SCOR/IABO/ Unesco Working Group 65 Texel, Netherlands, September 1983	1986	WG 65
33 Coastal lagoon research, present and future Proceedings of a seminar, Duke University, August 1978 (Unesco, IABO).	1981	—	49 Pelagic biogeography Proceedings of an international conference The Netherlands 29 May-5 June 1985	1986	—
34 The carbon budget of the oceans Report of a meeting, Paris, 12-13 November 1979	1980	WG 62	50 Progress on oceanographic tables and standards 1983-1986: Work and recommendations of the Unesco/SCOR/ICES/IAPSO Joint Panel	1987	—
35 Determination of chlorophyll in seawater. Report of intercalibration tests sponsored by SCOR and carried out by C. J. Lorenzen and S. W. Jeffrey, CSIRO Cronulla, N. S. W., Australia, September-October 1978	1980	—	51 Thermodynamics of the carbon dioxide system in seawater Report by the carbon dioxide subpanel of the joint panel on oceanographic tables and standards	1987	—
36 The practical salinity scale 1978 and the international equation of state of seawater 1980 Tenth report of the Joint Panel on Oceanographic Tables and Standards, (JPOTS) Sidney, B.C., Canada, 1-5 September 1980 Sponsored by Unesco, ICES, SCOR, IAPSO. Available in Ar, Ch, F, R, S	1981	WG 10	52 Research on coastal marine systems. Review and Recommendations for Unesco Programme 1987-1990 Report of the fourth meeting of the Unesco/SCOR/IABO consultative panel on coastal systems, Dakar, 15-17 December 1986	1987	—
(Примечание: Этот доклад (текст идентичен) был первоначально издан только на английском языке под заголовком <i>Tenth report of the Joint Panel on Oceanographic Tables and Standards</i> (Десятый доклад Объединенной группы по океанографическим таблицам и стандартам)) Имеется на арабском, испанском, китайском, русском и французском языках			53 Code of practice for scientific diving: Principles for the safe practice of scientific diving in different environments. Compiled and edited by the Scientific Committee of the Confédération mondiale des activités subaquatiques (CMSA)	1988	—
37 Background papers and supporting data on the Practical Salinity Scale 1978	1981	WG 10	54 The acquisition, calibration and analysis of CTD data. A report of SCOR Working Group 51	1988	WG 51
38 Background papers and supporting data on the International Equation of State of Seawater 1980.	1981	WG 10	55 River inputs to ocean systems. Status and recommendations for research Final Report of SCOR Working Group 46	1988	WG 46
39 International Oceanographic Tables, Vol. 3	1981	WG 10	56 The ocean as a source and sink for atmospheric trace constituents Final Report of SCOR Working Group 72	1989	WG 72
40 International Oceanographic Tables, Vol. 4.	1982	WG 10	57 Coastal marine systems: Review and research recommendations 1988-1990 Unesco/SCOR/IABO consultative panel on coastal systems 15-20 December 1988 São Luis, Maranhao, Brazil	1989	—
41 Ocean-Atmosphere Materials exchange (OAMEX) Report of SCOR Working Group 44, Unesco, Paris, 14-16 November 1979	1982	WG 44			
42 Carbon dioxide sub-group of the joint panel on oceanographic tables and standards. Report of a meeting Miami, Florida, 21-23 September 1981 sponsored by Unesco, ICES, SCOR, IAPSO	1983	—			
43 International Symposium on Coastal lagoons Bordeaux, France, 8-14 September 1981 Available in F and S	1982	—			
44 Algorithms for computation of fundamental properties of seawater. Endorsed by Unesco/SCOR/ICES/IAPSO Joint Panel on Oceanographic Tables and Standards and SCOR Working Group 51.	1983	—			

Unesco technical papers
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Directory of source materials for the history of oceanography

Anita McConnell
Project Co-ordinator

Unesco 1990

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PREFACE

This series, the *Unesco Technical Papers in Marine Science*, is produced by the Unesco Division of Marine Sciences as a means of informing the scientific community of recent advances in oceanographic research and on recommended research programmes and methods.

The texts in this series are prepared in co-operation with non-governmental scientific organizations. Many of the texts result from research activities of the Scientific Committee on Oceanic Research (SCOR) and are submitted to Unesco for printing following final approval by SCOR of the relevant working group report.

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ABSTRACT

This Directory lists institutions holding original source material for the history of oceanography, dating from 1600 to 1950. These materials include apparatus, collections of geological and biological samples and specimens, data, documents and written archives, and photographs. For each institution (listed by country) the Directory gives name, address, accessibility and services offered, and details of the holdings, mentioning important items. The Directory is intended to help scientists to locate earlier material relating to their present topic or area of study, to show historians where surviving records may be found, and to remind institutions holding this unique material of its value.

RESUME

Dans le présent répertoire sont inventoriés les établissements qui détiennent des matériels de référence originaux pour l'histoire de l'océanographie, datant de 1600 à 1950. Il s'agit notamment d'instruments, de collections d'échantillons et de spécimens géologiques et biologiques, de données, de documents et d'archives écrites, et de photographies. Pour chacun des établissements (dont la liste est établie par pays), le répertoire donne le nom, l'adresse, la communicabilité et les services offerts ainsi que des renseignements détaillés sur les matériels que détient l'établissement, mention étant faite des pièces importantes. Le répertoire vise à aider les chercheurs à localiser les matériels de référence anciens correspondant à leur sujet ou à leur domaine d'étude, à indiquer aux historiens où ils peuvent trouver les archives qui sont conservées, et à rappeler la valeur de ces matériels rares aux établissements qui les détiennent.

RESUMEN ANALITICO

En este Directorio figuran las instituciones que poseen fuentes originales de historia de la oceanografía entre 1600 y 1950. Los materiales comprenden aparatos, colecciones de muestras y especímenes biológicos y geológicos, datos, documentos y archivos escritos y fotografías. Se presentan las instituciones por país, consignándose su nombre y dirección, la manera de acceder a ellas y los servicios que proporcionan, sus fondos y los principales materiales que contienen. Gracias a este Directorio, los historiadores y especialistas podrán localizar los registros y materiales antiguos relacionados con su tema de estudio y las instituciones cobrarán conciencia del valor de los materiales que poseen.

РЕЗЮМЕ

В настоящем справочнике перечислены учреждения, которые имеют материалы, являющиеся первоисточниками по истории океанографии за период с 1600 г. по 1950 г. Эти материалы включают аппаратуру, коллекции геологических и биологических проб и образцов, данные, документы, а также печатные архивы и фотографии. Для каждого учреждения (перечислены по странам) в справочнике указываются название, адрес, доступность и предлагаемые услуги, а также приводятся подробные данные об имеющихся фондах с указанием наиболее важных единиц хранения. Справочник предназначен для оказания помощи ученым в поиске предыдущих материалов, касающихся их современной темы или области исследования, и для предоставления историкам информации о том, где могут быть найдены сохранившиеся архивы, а также для того, чтобы напомнить учреждениям, располагающим такими уникальными материалами, о их ценности.

مستخلص

يورد هذا الدليل قائمة بالمؤسسات التي تتوافر لديها مراجع أصلية خاصة بتاريخ الأقيانوغرافيا، يرجع تاريخها إلى ما بين عامي ١٦٠٠ و ١٩٥٠. وتتضمن هذه المواد معدات ومجموعات من العينات والنماذج الجيولوجية والبيولوجية وبيانات ووثائق ومحفوظات مكتوبة وصورا فوتوغرافية. ويقدم الدليل بيانات عن كل مؤسسة (ترد قائمتها بحسب البلدان) تتضمن اسمها وعنوانها وسبل الانتفاع بها والخدمات التي تؤديها وتفاصيل عن مقتنياتها مع ذكر المواد الهامة. ويهدف الدليل إلى مساعدة العلماء على تحديد موقع المواد القديمة المتعلقة بموضوعهم أو بمجال دراستهم الحالي، وإطلاع المؤرخين على مواقع السجلات التي لم تندثر، وتذكير المؤسسات التي تقتني هذه المواد الفريدة بما لها من قيمة.

摘 要

本书所列的是藏有1600年到1950年期间海洋学历史原始资料的机构名单。这些资料包括仪器收集的地质与生物标本、资料、文件和手书档案以及图片。以国家为单位列出的每个机构均注明名称、地址、联系办法与提供的服务、和入藏物品详细情况并举出重要物品的名称。本书旨在帮助科学工作者找到与其目前的研究课题及领域有关的早期资料，告诉历史工作者到哪里能够找到尚存的记录，并向藏有这类仅有资料的机构说明其价值。

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INTRODUCTION

Source materials for the history of oceanography include documents and written archives, photographs, instruments and apparatus, collections of geological and biological samples and specimens. It is difficult to know what has survived, and where it is now held. The idea of compiling a Directory which would list the locations of this evidence from the past was discussed informally in 1987 at the IVth International Congress for the History of Oceanography, in Hamburg. Preliminary enquiries suggested that it would be a worthwhile project, and with the active support of Unesco a Working Party was set up to implement it.

The Directory is intended to help scientists to find original earlier material appertaining to their present topics or areas of study; to publicise the primary resources that are available to historians; and to remind establishments holding this unique material of its value in these respects.

Members of the Working Party knew from their own experience how widely dispersed the original material has become. It was necessary to devise a questionnaire that could be answered by staff of marine and fisheries laboratories, museums, university departments, learned societies, national and local libraries and archives, meteorological institutions, and manufacturers, around the world. Our definition of oceanography included fishing and whaling techniques, since these were often used in the past by marine biologists, but we excluded studies of fresh water, navigation, submarine geology, and underwater engineering. The questionnaire, which is reproduced below, went out in English, with a guide to how it should be filled in, and a covering letter, written in English, French or Spanish, as appropriate. Replies came back in various languages.

Each Working Party member was responsible for identifying and mailing institutions in his or her area. The returned forms were then sent to me for translation, analysis and condensation into a format that would serve as the Directory entry. Some thirty percent of the questionnaires were returned and of these two-thirds of the replies proved to be useful. I discarded those from institutions whose holdings were too recent, or judged inappropriate, or giving a nil response.

Not all the world's coastal nations are represented here, for some have only recently embarked upon oceanographic research. Regrettably, we were unable to find anyone to assist with the countries of southern Africa or the USSR. However, this being a search for historical evidence, we did find information in Austria, dating from the years when the Austro-Hungarian empire extended to the Adriatic Sea, and its government and scientists were active in oceanographic research. Similarly, we included Switzerland, whose scientists devised apparatus and methods for investigating their lakes, which was subsequently adapted to work in the open sea. Our thanks then, to the hundreds of people round the world who took the time and trouble to fill in yet another questionnaire.

On behalf of UNESCO, and for myself, I thank the members of the Working Party, and the Directors of their respective institutions, without whom this worthwhile project would never have materialised:

Madame Jacqueline Carpine-Lancré, Musée Oceanographique, Monaco

Mrs Deborah Day, Scripps Institution of Oceanography, California, USA

Miss Margaret Deacon, Department of Oceanography, University of Southampton

Mr Martin Ehrlich, INIDEP, Mar del Plata, Argentina

Mrs Christiane Groeben, Stazione Zoologica, Naples, Italy

Dr Ian Jones, Marine Studies Centre, University of Sydney, Sydney, Australia

Professor Eric Mills, Department of Oceanography, Dalhousie University, Halifax, Canada

Dr Selim Morcos, Division of Marine Sciences, UNESCO, Paris, France.

Personal and sincere thanks are due to other professional colleagues, who tested my draft questionnaires and layouts, and offered advice; to Dr Colin Summerhayes, Director of the Deacon Laboratory, Wormley, UK, for the use of his printing facilities, and the help of Mrs Jean Jones and Mrs Sheelagh Collyer who with endless patience supervised my days at the word-processor; and finally to Dr Dale Krause, Director of the Marine Sciences Division at UNESCO and his staff. Readers may be assured that we have all done our best, but inevitably some valuable sources, for one reason or another, will have escaped our net.

Anita McConnell
Project Co-ordinator

LAYOUT OF ENTRIES AND KEY TO ABBREVIATIONS

NAME OF INSTITUTION

ADDRESS

TELEPHONE

TELEX

ACCESS Either 'Open' or 'Restricted', **see Note 1.**

SERVICES Catalogue or handlist, photography or xerox copying facility. **See Note 2.**

HOLDINGS Defines the general type of material held as 'Apparatus', 'Samples' or 'Documents'.

TIMESPAN Unless specified, includes material from 1600 to 1950.

AREA As defined, or 'Unrestricted'.

DETAIL Cordified from page 2 of the questionnaire, **see Note 3.**
Other remarks taken from 'Key Features' on page 1.

Note 1. Some institutions limit access to scientists, scholars or other approved persons. Even where the holding institution is a public museum or library, the material may be in a distant store and not immediately available. Enquirers are strongly recommended to write in the first instance.

Note 2. SERVICES key: C = catalogue or handlist. (free) = available free of charge.
P = photography. M = microfilm. X = xerox or photocopy.

Note 3. DETAIL key:

A APPARATUS
a Depth measurement
b Water collection
c Temperature measurement
d Current measurement
e Wave measurement
f Tide measurement
g Seafloor corers and grabs
h Photometers
i Salinity measurement
j Cameras, microphones
k Sonar imaging apparatus
l Nets
m Laboratory equipment
n Deck machinery
o Sonar apparatus
p Meteorological apparatus
q Shore tide gauges
r Seafloor seismometers

T TRANSPORT
a Oceanographic ships
b Oceanographic submersibles
c In-sea position finding
d Ocean/met balloons

S SAMPLES
a Seawater
b Sea floor
c Biological
d Ice-derived

D DATA
a Magnetic tape
b Still and moving photography
c Log books and diaries
d Drawings
e Derived reports

M MANUSCRIPTS AND DOCUMENTS
a Portrait originals, personal papers
b Government and other official papers
c Plans for cruises and other work
d History of the institution

INTRODUCTION

Les sources documentaires pour l'histoire de l'océanographie se composent d'archives, de photographies, d'instruments et d'appareils, de collections d'échantillons et de spécimens géologiques et biologiques. Il n'est pas facile de savoir ce qui en subsiste et où cela est actuellement conservé. L'idée de compiler un répertoire comportant une liste des lieux où sont gardés ces témoins du passé a été évoquée lors du quatrième Congrès International sur l'histoire de l'océanographie tenu à Hambourg en 1987. L'opinion des spécialistes consultés étant favorable au projet, on a mis en place, avec le soutien de l'Unesco, un groupe de travail chargé de le mener à bien.

Ce répertoire est destiné à faciliter aux scientifiques la recherche des pièces originales, relativement anciennes, touchant leurs sujets ou domaines d'études actuels, à faire connaître aux historiens les sources primaires disponibles et enfin à rappeler aux organismes qui les détiennent la valeur que revêt, à tous ces égards, ce matériel irremplaçable.

Les membres du groupe de travail savaient, par leur expérience personnelle, à quel degré de dispersion a abouti le matériel original. Le questionnaire devait être rédigé de telle sorte qu'il pût être rempli aussi bien par le personnel des laboratoires marins ou des pêches que par celui des musées, des facultés d'universités, des sociétés savantes, des bibliothèques et des archives nationales ou locales, des services météorologiques et des fabricants d'équipements, dans le monde entier. Dans notre définition de l'océanographie nous avons inclus les techniques de pêche - même baleinière - du fait qu'elles étaient autrefois souvent pratiquées par les spécialistes en biologie marine, mais nous avons exclu les études portant sur l'eau douce, la navigation, ainsi que la géologie et l'ingénierie sous-marines. Le questionnaire reproduit dans les pages suivantes a été expédié en anglais, accompagné d'une notice sur la manière de le remplir et d'une lettre explicative en anglais, français ou espagnol selon le cas. En retour, les réponses étaient rédigées en diverses langues.

Chaque membre du groupe de travail devait déterminer, dans sa région, les institutions à interroger et leur adresser le questionnaire. Les réponses m'étaient ensuite transmises pour être traduites, analysées et réduites au format des rubriques du répertoire. J'ai éliminé le matériel envoyé par des organismes dont les fonds étaient trop récents ou jugés non pertinents ou dont les réponses étaient simplement négatives.

Toutes les nations du monde ayant un littoral marin ne figurent pas ici car certaines ont entrepris trop récemment leurs recherches en océanographie. A notre grand regret nous n'avons pu trouver de collaborateur pour les pays de l'Afrique australe ou de l'URSS. Dans cette recherche de témoignages historiques nous avons toutefois découvert des informations en Autriche, du temps où l'empire austro-hongrois s'étendait jusqu'à la mer Adriatique et où son gouvernement et ses scientifiques se livraient à des recherches océanographiques. Nous avons, pour des raisons similaires, inclus la Suisse, dont les scientifiques ont inventé des appareils et des méthodes pour l'étude des lacs, que l'on a par la suite adaptés aux recherches sur la haute mer. Nos remerciements s'adressent donc aux centaines de personnes du monde entier qui ont pris le temps et la peine de remplir (encore) un questionnaire.

Au nom de l'Unesco, et en mon propre nom, je remercie les membres du groupe de travail et les directeurs des organismes auxquels ils appartiennent, sans l'aide desquels ce projet intéressant n'aurait jamais vu le jour. Ce sont:

- . Madame Jacqueline Carpine-Lancré, du Musée océanographique de Monaco
- . Madame Deborah Day, de la Scripps Institution of Oceanography, Californie, Etats-Unis d'Amérique
- . Mademoiselle Margaret Deacon, du Département d'océanographie, Université de Southampton, Royaume-Uni
- . Monsieur Martin Ehrlich, de l'INIDEP de Mar del Plata, Argentine
- . Madame Christiane Groeben, de la Stazione Zoologica de Naples, Italie
- . Monsieur Ian Jones, du Marine Studies Centre de l'Université de Sydney, Australie
- . Monsieur le Professeur Eric Mills, du Département d'océanographie de Dalhousie University de Halifax, Canada
- . Monsieur Selim Morcos, de la Division des sciences de la mer de l'Unesco à Paris, France

Personnellement, je remercie sincèrement d'autres de mes collègues qui, ayant testé mes projets de questionnaire et de rubriques, m'ont donné des conseils, ainsi que Monsieur Colin Summerhayes, Directeur du Deacon Laboratory de Wormley (Royaume-Uni) qui m'a permis d'utiliser son matériel d'impression et Mesdames Jean Jones et Sheelagh Collyer qui m'ont, avec une infinie patience, assistée pendant des journées de travail sur la machine à traitement de texte. Je remercie enfin Monsieur Dale Krause, Directeur de la Division des sciences de la mer de l'Unesco, et son personnel. Le lecteur peut être sûr que nous avons fait de notre mieux, même si nous n'avons pu éviter que, pour une raison ou une autre, certaines excellentes sources soient passées entre les mailles de nos filets.

Anita McConnell
Coordonnatrice du projet

DISPOSITION DES ENTREES ET CLE DES ABREVIATIONS

NOM DE L'ORGANISME

ADRESSE

NUMERO DE TELEPHONE

NUMERO DE TELEX

CONDITIONS D'ACCES Soit 'libre' soit 'réservé', voir Note 1.

SERVICES Fichiers ou liste, photographie ou photocopie, voir Note 2.

FONDS Préciser le genre de matériel catalogué 'appareils', 'échantillons' ou 'documents'.

PERIODE A défaut d'indication, le matériel date de la période 1600 à 1950.

REGION Soit à définir, soit 'sans frontières'.

DETAILS Codifiés selon la page 2 du questionnaire, voir Note 3. Autres remarques tirées des 'Caractéristiques' de la page 1.

Note 1. Certains organismes ne permettent l'accès qu'aux scientifiques, aux savants et à d'autres personnes qui ont reçu leur assentiment. Même si l'organisme détenteur est un musée ou une bibliothèque publics, il arrive que le matériel, gardé dans une réserve éloignée, ne soit pas immédiatement disponible. On recommande instamment aux intéressés de commencer par envoyer une demande écrite.

Note 2. Clé de la rubrique SERVICES: C = catalogue ou liste. (free) = gratuit.
P = photo. M = microfilm. X = photocopie.

Note 3. Clé de la rubrique DETAILS:

A	APPAREILS	S	ECHANTILLONS
a	Mesures de profondeur	a	Eau de mer
b	Prélèvements d'eau	b	Sédiments
c	Mesures de température	c	Biologiques
d	Mesures de courants	d	D'origine glaciaire
e	Mesures de vagues		
f	Mesures de marées	D	DONNEES
g	Carottiers et bennes	a	Bandes magnétiques
h	Photomètres	b	Photographies et films
i	Mesures de salinité	c	Livres de bord et journaux
j	Appareils photographiques, microphones	d	Dessins
k	Sonar (remorqué)	e	Messages [d'observation]
l	Filets		
m	Equipement de laboratoire	M	MANUSCRITS ET DOCUMENTS
n	Machinerie de pont	a	Portraits originaux, papiers personnels
o	Echo-sondeur	b	Documents officiels et administratifs
p	Appareils de météorologie	c	Programmes de campagnes et autres travaux
q	Marégraphes	d	Histoire de l'Institution
r	Sismomètres fond-de-mer		
T	PLATES-FORMES		
a	Navires océanographiques		
b	Submersibles océanographiques		
c	Positionnement en mer		
d	Ballons océanographiques/météorologiques		

QUESTIONNAIRE

+ + + UNESCO DIRECTORY OF SOURCES FOR THE HISTORY OF OCEANOGRAPHY + + +

-----Request for information-----

Please return by 1988 to

IDENTIFICATION

Name of institution:

Full postal address:

.....

Telephone: Telex
Answerback code

HOLDINGS

Do you have original:

documentary materials	YES / NO
apparatus	YES / NO
collections of specimens	YES / NO

What time-period do the original materials cover?

Are the holdings restricted to certain oceans or seas ? YES / NO

If so, which?

What is your collecting policy?

.....

ACCESSIBILITY OF THE HOLDINGS

Are there restrictions on access? YES / NO

What are the opening hours?

Is there a published catalogue or hand-list? YES / NO Is it free? YES / NO

Do you supply or sell

photographs	YES / NO
microfilm	YES / NO
xerox or photocopies	YES / NO

KEY FEATURES

Please summarise, and name any people, expeditions or topics which are of major importance in your holdings.

.....

.....

.....

.....

.....

.....

WHAT ORIGINAL SOURCE MATERIALS DATING BETWEEN 1600 AND 1950 DOES YOUR INSTITUTION HOLD? Circle YES or NO for each main class on the left. If you can be more specific tick the items in the right-hand column.

APPARATUS

YES / NO

Depth measurement
Water collection
Temperature measurement
Current measurement
Wave measurement
Tide measurement
Seafloor corers and grabs
Photometers
Salinity measurement
Cameras, microphones
Sonar imaging apparatus
Nets
Lab equipment
Deck machinery
Sonar apparatus
Met apparatus
Shore tide gauges
Sea-floor seismometers

TRANSPORT

YES / NO

Ships
Submersibles
In-sea position-finding
Balloons

SAMPLES

YES / NO

Seawater
Sea floor
Biological
Ice-derived

DATA

YES / NO

Magnetic tape
Still and moving photography
Log books and diaries
Drawings
Derived reports

MANUSCRIPTS AND DOCUMENTS

YES / NO

Portrait originals, personal papers
Government and other official papers
Plans for cruises and other work
History of the institution

OTHER MATERIAL NOT INCLUDED ABOVE

Thankyou for your co-operation

Institute name
Please print your own name in case we need to contact you again.

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DIRECTORY OF SOURCE MATERIALS
FOR THE HISTORY OF OCEANOGRAPHY

ARGENTINA

1. **MUSEO ARGENTINO DE CIENCIAS NATURALES 'B. RIVADAVIA' Y INSTITUTO NACIONAL DE CIENCIAS NATURALES**
Avenida Angel Gallardo 470, 1405 Buenos Aires
T. 982-5243 Tx. -
Access: Open *Services:* P, M, X
Holdings: Apparatus, Samples, Documents
Timespan: From 1823
Area: Unrestricted
Detail: Al,m; Sc; Ma,d. No other information.

AUSTRALIA

2. **NEW SOUTH WALES, ARCHIVES AUTHORITY OF NEW SOUTH WALES**
The State Archives, 2 Globe St., The Rocks, Sydney, NSW 2000
T. (02) 237-0254 Tx. -
Access: Restricted *Services:* C, P, M, X
Holdings: Documents
Timespan: From 1900
Area: New South Wales coastal waters
Detail: Dc,f; Mb. Coast and harbour tide and sounding records; harbour dredging and works records; maps and plans.
3. **SOUTH AUSTRALIA, SOUTH AUSTRALIAN DEPT. OF FISHERIES**
GPO Box 1625, Adelaide, SA 5001
T. (08) 227-0833 Tx. 89405 safish aa
Access: Restricted *Services:* P, M, X
Holdings: Documents
Timespan: No information
Area: No information
Detail: Mb,d. No other information.
4. **SOUTH AUSTRALIA, PUBLIC RECORD OFFICE OF SOUTH AUSTRALIA**
P.O. Box 713, North Adelaide, SA 5006
T. (08) 287-8220 Tx. -
Access: Restricted *Services:* P, M
Holdings: Documents
Timespan: From 1856
Area: Local coastal waters
Detail: Df. Material is in "Dept. of Marine & Harbours" and "Observatory" Record Groups.

5. **SOUTH AUSTRALIA, THE FLINDERS INSTITUTE FOR ATMOSPHERIC AND MARINE SCIENCES**
The Flinders University, Bedford Park, SA 5042
T. (08) 275-3911 Tx. -
Access: Open *Services:* C(free)
Holdings: Documents
Timespan: From 1880
Area: Australian coast
Detail: Df. Tide records.

6. **SOUTH AUSTRALIA, SOUTH AUSTRALIAN MUSEUM**
North Terrace, Adelaide, SA 5000
T. (08) 223-8911 Tx. -
Access: Open *Services:* P, M, X
Holdings: Samples
Timespan: From 1880
Area: Unrestricted
Detail: Sc. Sir Douglas Mawson's BANZARE Expedition (1929-31), collection of biological material.

7. **SOUTH AUSTRALIA, UNIVERSITY OF ADELAIDE (DEPT OF BOTANY)**
State Herbarium, Botanic Gardens, North Terrace, Adelaide, SA 5000
T. No information Tx. -
Access: Restricted *Services:* C(free) part
Holdings: Samples
Timespan: From 1945
Area: Mainly Southern Australian waters
Detail: Sc. H B S Womersley's collection of algae.

8. **TASMANIA, ARCHIVES OFFICE OF TASMANIA**
91 Murray Street, Hobart, Tasmania 7000
T. (002) 307488 Tx. 58222
Access: Restricted *Services:* P, M, X
Holdings: Documents
Timespan: From 1820
Area: Tasmanian waters, Southern Oceans
Detail: Db,c,d,f; Ma,b. Tasmanian Marine Boards and other government or semi-government organisations. Log books of whaling expeditions.

9. **TASMANIA, DEPARTMENT OF SEA FISHERIES, TASMANIA**
23 Old Wharf, Hobart, Tasmania 7000
T. 30-3520 Tx. -
Access: Restricted *Services:* None
Holdings: Documents
Timespan: From 1940
Area: Tasmanian coastal waters
Detail: Ma,b,c. Historical material on Tasmanian fisheries is being studied, publication will follow.

10. **VICTORIA, PUBLIC RECORD OFFICE**
19th level, Nauru House, 80 Collins Street,
Melbourne, Victoria 3000
T. 655-6863 Tx. -
Access: Restricted **Services:** C, P, M, X
Holdings: Documents
Timespan: From 1836
Area: Unrestricted
Detail: M. Archives of state government agencies. Researchers must identify the responsible agency for oceanography or fisheries activities.
11. **VICTORIA, STATE LIBRARY OF VICTORIA (AUSTRALIAN MANUSCRIPTS COLLECTION)**
328 Swanston Street, Melbourne, Victoria 3000
T. (03) 669-9014 Tx. -
Access: Restricted **Services:** P, M, X
Holdings: Documents
Timespan: From 1835
Area: No information
Detail: Dc; Ma. A 'Challenger' (1872-76) journal; papers of Captain John King Davis, navigator and Arctic seaman; complete output of Australian joint copying project, including Admiralty records.
12. **VICTORIA, STATE LIBRARY OF VICTORIA (MAP SECTION)**
328 Swanston Street, Melbourne, Victoria 3000
T. (03) 669-9954 Tx. -
Access: Restricted **Services:** C, P, M, X
Holdings: Documents
Timespan: From 1800
Area: Unrestricted
Detail: D. Published charts but some with manuscript annotations.
13. **VICTORIA, STATE LIBRARY OF VICTORIA (PICTURE COLLECTION)**
328 Swanston Street, Melbourne, Victoria 3000
T. (03) 669-9928 Tx. -
Access: Open **Services:** P
Holdings: Documents
Timespan: From 1830
Area: Australia, mainly Victoria
Detail: Db,d; Ma. Ship illustrations, 28 watercolours by John Arthur from 'Challenger' Expedition (1872-76). Photographs from early Antarctic expeditions including Sir Douglas Mawson's BANZARE Expedition.
14. **VICTORIA, UNIVERSITY OF MELBOURNE (SCHOOL OF BOTANY)**
Parkville, Victoria 3052
T. (03) 344-5067 Tx. -

Access: Restricted **Services:** X
Holdings: Samples, Documents
Timespan: From 1920s
Area: Southern Oceans, East Indian Ocean, Central and Western Pacific.
Detail: Sc; Db,d; Md. Marine plant collections.

AUSTRIA

15. **NATURHISTORISCHES MUSEUM WIEN (FISH COLLECTION)**
Burgring 7, POB 417, A-1014 Wien
T. 93-45-41 Tx. 134441 natur a
Access: Restricted **Services:** P
Holdings: Apparatus, Samples, Documents
Timespan: From 1840
Area: Unrestricted
Detail: Ac; Sc; Db. Collections from most or all Austro-Hungarian cruises: 'Novara', 'Aurora', 'Leopard', 'Fasan', 'Zenta'.
16. **NATURHISTORISCHES MUSEUM WIEN (GEOLOGY AND PALAEONTOLOGY DIVISION)**
Burgring 7, POB 417, A-1014 Wien
T. (0222) 93-06-20 Tx. (1)134441 natur a
Access: Open **Services:** X
Holdings: Samples
Timespan: 1870-1900
Area: Eastern Mediterranean and Red Sea.
Detail: Sb. Dredge samples and foraminifera from Austro-Hungarian North Pole Expedition (1872-74). Austrian Deep-Sea Expedition, HMS 'Pola' (1890-98) in Eastern Mediterranean and Red Sea.
17. **NATURHISTORISCHES MUSEUM WIEN (ZOOLOGICAL SECTION 3)**
Burgring 7, A-1014 Wien
T. 93-45-41 x328 Tx. 134441 natur a
Access: Restricted **Services:** P
Holdings: Samples
Timespan: 1850-1900
Area: Unrestricted
Detail: Sc. 'Novara' Expedition, 'Pola' Expedition, Jan Mayen Nordpol Expedition.
18. **ÖSTERREICHISCHES STAATSARCHIV (HAUS-, HOF- UND STAATSARCHIV)**
Minoritenplatz 1, A-1010 Wien
T. 53115 x2516 Tx. -
Access: Open **Services:** C(free), P, M, X
Holdings: Documents
Timespan: No information
Area: Unrestricted

Detail: De; Ma,b. Scientific expeditions, navigation and fisheries including Ostindische Kompagnie. Published listing "Quellen zur Geschichte Afrikas, Asiens und Ozeaniens im Österreichischen Staatsarchiv bis 1918" (Munich 1986).

BELGIUM

19. **INSTITUT ROYALE DES SCIENCES NATURELLES DE BELGIQUE (SECTION OCÉANOGRAPHIE)**
29, rue Vautier, B-1040 Bruxelles
T. (02) 648-0475 Tx. -

Access: Restricted **Services:** X

Holdings: Apparatus, Samples, Documents

Timespan: From 19th century

Area: North Sea, Polar Sea

Detail: Ab,c,g,k,l,o; Sc; Db,c; Ma,b. A de Gerlache, Gilson, Capart; 'Belgica' Expedition to Arctic and Antarctic. Systematic exploration of the North Sea (Gilson). Southern Atlantic Expedition (Capart).

20. **NATIONAL MARITIME MUSEUM**
Steenplein 1, B-2000 Antwerp
T. (03) 232-0850 Tx. -

Access: Restricted **Services:** P, X

Holdings: Apparatus, Samples, Documents

Timespan: From Early Middle Ages

Area: Unrestricted

Detail: A; S; D; M. A de Gerlache, Belgian Antarctic Expedition (1897-99). History of regional navigation.

21. **MUSEUM OF SCIENCE AND TECHNOLOGY**
State University, Gent. Kortemeer 9, B-9000 Gent
T. (091) 25-76-51 x296 Tx. 12754 rugent b

Access: Open **Services:** P,X

Holdings: Apparatus, Documents

Timespan: From 18th century

Area: Unrestricted

Detail: Mercator, A de Gerlache, Meeuwissen. 19th century diving suit.

CANADA

22. **CANADIAN HYDROGRAPHIC SERVICE (HYDROGRAPHIC DATA CENTRE)**
Bedford Institute of Oceanography, PO Box 1006, Dartmouth, NS, B2Y 4A2
T. (1-902) 426-2397 Tx. 01931552

Access: Restricted **Services:** X

Holdings: Apparatus, Documents

Timespan: From 1900

Area: Arctic Ocean, Canadian Arctic Archipelago, Atlantic Coast of Canada, Gulf of St Lawrence, Baffin Bay, Lincoln Sea, Labrador Sea, Davis Strait.

Detail: Af; Da,b,d,e; Mb.

23. **DEPARTMENT OF FISHERIES AND OCEANS (BIOLOGICAL STATION)**
St Andrews, NB, E0G 2X0
T. (506) 529-8854 Tx. 10931552

Access: Restricted **Services:** C(free)

Holdings: Documents

Timespan: From 1918

Area: Northwest Atlantic

Detail: Mb,c,d. St Andrews Biological Station, the first permanent Canadian marine biological station, established 1918.

24. **HUDSON'S BAY COMPANY ARCHIVES**
Provincial Archives of Manitoba, 200 Vaughan Street, Winnipeg, Manitoba, R3C 1T5.
T. (204) 945-4949 Tx. -

Access: Restricted **Services:** P, X

Holdings: Documents

Timespan: From 1710

Area: White Sea, Northwest Passage, North Atlantic, North Pacific

Detail: Dc. Ships' logs, correspondence, scientific and shipping records.

25. **MARITIME HISTORY ARCHIVE**
Memorial University,
St Johns, Newfoundland, A1C 5S7
T. (709) 737-8428 Tx. -

Access: Restricted **Services:** C, X

Holdings: Documents

Timespan: From 1800

Area: Unrestricted

Detail: D; M. Newfoundland mercantile records. Great Britain Board of Trade records.

26. **NATIONAL ARCHIVES OF CANADA (CARTOGRAPHIC AND ARCHITECTURAL ARCHIVES DIVISION)**
395 Wellington Street, Ottawa, On:ario, K1A 0N3
T. (613) 995-1077 Tx. 0533367
prcnaott

Access: Open **Services:** C, P, M

Holdings: Documents

Timespan: From 1490

Area: Oceans bordering Canada

Detail: French, English and Dutch charts relating to the early exploration of Canada, eg: N Bellin, J Cook, G Vancouver, J Franklin. Canadian hydrographic and fishery charts. NB "Catalogue of the National Map Collection, Public Archives of Canada" 16 vols, G Hall and Co, 1976.

- 27. NATIONAL ARCHIVES OF CANADA
(GOVT. ARCHIVES DIVISION)**
395 Wellington Street, Ottawa, Ontario,
K1A 0N3
T. (613) 995-1077 Tx. 0533367 prcna
ott

Access: No information **Services:** No information

Holdings: Documents

Timespan: From 1880

Area: No information

Detail: Relevant material can be found under the following heads:
RG42 Marine Branch, RG12 Dept. of Transport, RG23 Dept. of
Fisheries and Oceans, RG93 Atmospheric Environment Service,
RG24 Dept. of National Defence, RG51 International Joint
Commission (Canada-USA), RG77 National Research Council,
RG33 Royal Commissions, RG89 Water Resources Branch,
RG139 Canadian Hydrographic Service, RG108 Environment
Canada, RG45 Geological Survey of Canada, RG92 Geographical
Branch, RG85 Northern Affairs Program, RG22 Indian Affairs and
Northern Development.

- 28. MARITIME MUSEUM OF BRITISH
COLUMBIA**
28 Bastion Square, Victoria, British
Columbia, V8W 1H9
T. (604) 385-4222 Tx. -

Access: Restricted **Services:** P, X

Holdings: Apparatus

Timespan: From 1750

Area: Unrestricted

Detail: Aa,c,d,f,l,p; Ta; Ma,b,c,d.

- 29. NATIONAL MUSEUM OF NATURAL
SCIENCES**
PO Box 3443, Stn. D, Ottawa, Ontario,
K1P 6P4
T. (613) 954-4947 Tx. -

Access: Restricted **Services:** C(free), P, M, X

Holdings: Samples, Documents

Timespan: From 1863

Area: Unrestricted

Detail: Sc; Db,c,d,e. Canadian Arctic Expedition (1913-18)
collections. Canadian Fisheries Research Board collections from
1918. J F Whiteaves, Gulf of St Lawrence (1871-73) collections.
Many other Pacific, Arctic and N Atlantic Expeditions.

- 30. MARITIME MUSEUM OF THE ATLANTIC**
1675 Lower Water Street, Halifax, NS B3J
1S3
T. (902) 429-8210 Tx. -

Access: Restricted **Services:** P, X

Holdings: Apparatus

Timespan: From 1900

Area: Atlantic Coast

Detail: Aa,d,f,l; Ta. No other information.

- 31. NATIONAL DEFENCE HEADQUARTERS
(DIRECTORATE OF HISTORY)**
101 Colonel Bydrive, Ottawa, Ontario, K1A
0K2
T. (613) 998-7057 Tx. -

Access: Restricted

Services: X

Holdings: Documents

Timespan: From 1867

Area: Canadian coastal waters

Detail: M. No other information.

- 32. NOVA SCOTIA MUSEUM**
1747 Summer Street, Halifax, NS B3H 3A6
T. (902) 429-4610 Tx. -

Access: Open

Services: C(free), P, X

Holdings: Apparatus, Samples, Documents

Timespan: From 1870

Area: North Atlantic

Detail: Ac,d,m,n; Ta; Sc; Dc,e; Md. HMS 'Challenger', cableship
'Minia', US Fish Commission collections. Retired Research
Vessel 'Acadia' (kept at the Maritime Museum of the Atlantic).

CHILE

- 33. INSTITUTO HIDROGRAFICO DE LA
ARMADA DE CHILE (SALA HISTORICO Y
ARCHIVO HIDROGRAFICO)**
Casilla 324, Valparaiso
T. (034) 251056 Tx. 230362 hidro cl

Access: Restricted

Services: X

Holdings: Apparatus, Documents

Timespan: From 1834

Area: Pacific Ocean, Antarctica

Detail: Aa,c,d,f,l,p; Da,c; Ma,b,c,d. Physical and descriptive
oceanography, tides and currents.

CHINA

- 34. QUANZHOU MUSEUM OF OVERSEAS
COMMUNICATIONS**
Quanzhou, Fujian
T. 33905 Tx. -

Access: Open

Services: C,P,X

Holdings: Apparatus, Samples, Documents

Timespan: No information

Area: Unrestricted

Detail: Study of overseas communications history, history of
scientific and technical exchanges between China and foreign
countries.

- 35. THIRD INSTITUTE OF OCEANOGRAPHY**
178 Daxue Road, PO Box 70, Xiamen,
Fujian
T. Xiamen 24880 Tx. 361005

Access: Open **Services:** P, X

Holdings: Samples, Documents

Timespan: 1800-1900

Area: Fujian coastal waters and Taiwan Strait

Detail: Sb; De; Ma. Zhou Qiulin, Su Xianze.

- 40. FYSISK OCEANOGRAPHI, N HØJERSLEV**
Haraldskade 6, DK- 2200 Copenhagen N
T. (01) 83-39-92 Tx. 16469 mcphgi
dk

Access: Open **Services:** X

Holdings: Apparatus, Documents

Timespan: From 1880

Area: Unrestricted

Detail: Ab,h; Dd. Martin Knudsen, Bjerrum, N Jerlov.

DENMARK

- 36. AARHUS UNIVERSITY (GEOLOGISK
INSTITUT)**
Ny Munkegade, Bygn 520, DK-8000 Aarhus
C
T. (06) 12-88-99 Tx. -

Access: Restricted **Services:** None

Holdings: Documents

Timespan: 1940-44

Area: Danish North Sea coast

Detail: Db. No other information.

- 37. DANISH MARITIME MUSEUM**
Kronberg Castle, DK-3000 Helsingør
T. (01) 21-06-85 Tx. -

Access: Open **Services:** P, X

Holdings: Apparatus, Samples, Documents

Timespan: From 1400

Area: Unrestricted

Detail: Aa,c,d; Dc,d,e; Ma.

Non-naval history, models, photos, charts, drawings; company
and personal archives.

- 38. DANISH METEOROLOGICAL INSTITUTE**
Lynbyvej 100, DK- 2100 Copenhagen Ø
T. 01-292-100 Tx. -

Access: Open **Services:** P, X

Holdings: Apparatus, Documents

Timespan: From 1890

Area: Unrestricted

Detail: Ac,i,q; De; M.

- 39. FISKEERI OG SØFARTSMUSEET,
SALTVANDSAKVARIET**
Taphagevej, DK-6710 Esbjerg V
T. (455) 15-06-66 Tx. -

Access: Open **Services:** P, X

Holdings: Apparatus, Samples, Documents

Timespan: From 1880

Area: Danish waters

Detail: Aa,b,c,d,i,l,n,o; S; M.

- 41. NATIONAL ARCHIVES, 4TH
DEPARTMENT**
Rigsdagsgården 9, DK-1218 Copenhagen K
T. 31-92-23-10 Tx. -

Access: Restricted **Services:** C(free), P, M, X

Holdings: Documents

Timespan: No information

Area: Unrestricted

Detail: Dc,e; Ma,c. Anton Frederik Bruun, Johannes Schmidt,
Komiteen for den Danske Dybhavsexpedition ('Galathea'
Expedition).

- 42. THE ROYAL LIBRARY (DEPARTMENT OF
MANUSCRIPTS)**
PO Box 2149, DK- 1219 Copenhagen K
T. (01) 93-01-11 x411 Tx. 15009 kglbib dk

Access: Open **Services:** X

Holdings: Documents

Timespan: From 1600

Area: Unrestricted

Detail: Dc. Danish material.

- 43. SVENDBORG OG OMEGENS MUSEUM**
Grobemøllevej 13, DK- 5700 Svendborg
T. 09210261 Tx. -

Access: Open **Services:** P,X

Holdings: Documents

Timespan: 1800-1950

Area: Svendborg Sound and local waters

Detail: Aa,l,n; Db,c,d,e; Ma,b,c,d.

- 44. UNIVERSITY OF COPENHAGEN
(ZOOLOGICAL MUSEUM)**
Universitetsparken 15, DK-2100
Copenhagen Ø
T. (45-01) 35-41-11 Tx.-

Access: Open **Services:** None

Holdings: Samples, Documents

Timespan: From 1761

Area: Unrestricted

Detail: Sc; D; M. Danish 'Ingolf' Expedition (1895-6); 'Dana'
Expedition (1928-30); 'Galathea' Expedition, (1950-52).
Documents relating to Danish zoology.

EIRE

45. ROYAL DUBLIN SOCIETY

Ballsbridge, Dublin 4

T. 01-680645 Tx 90352 rds ei

Access: Restricted

Services: X

Holdings: Apparatus

Timespan: c1890

Area: Irish waters

Detail: Ac. Two Negretti & Zambra thermometers used in fisheries research sponsored by the Society during the late 19th century.

46. ROYAL IRISH ACADEMY

19 Dawson Street, Dublin 2

T. (Dublin) 764222 Tx. -

Access: Open

Services: X

Holdings: Samples, Documents

Timespan: From 1850

Area: Seas around Ireland, Atlantic Ocean

Detail: Sc; D; Mc, d. Tidal elevations 1850-51. Collection of Australian algae.

47. UNIVERSITY COLLEGE CORK (ZOOLOGICAL MUSEUM)

Zoology Department, University College, Lee
Mattings, Prospect Row, Cork

T. (010353) 21-276871 Tx. 76050 unic ei

Access: Restricted

Services: None

Holdings: Samples, Documents

Timespan: From 1850

Area: Unrestricted

Detail: Sc; Dc; Ma, d.

Detail: Aa, b, c, d, f, g, h, i, j, l, m, o, p; Ta; Sa, b, c, d; Dc, e; Ma, b, c, d.

Rolf Witting; Kurt Buch; Henrik Renqvist; Stina Gripenberg; Sven G Segerstråle; Ilmo Hela; Folke Koroleff; Erkki Palosuo; Eugenie Lisitzin. Original instruments designed at the Institute. Physics, chemistry, biology, sea ice and some early sedimentary studies.

50. HANGON MUSEO

Bulevardi 15, SF- 10900 Hanko

T. 358-11-83131 Tx. -

Access: Open

Services: C, P, X

Holdings: Apparatus, Documents

Timespan: From 1700

Area: Baltic Sea

Detail: Al; Db, c, d, e; M. Fishing industry.

51. HELSINKI UNIVERSITY (ZOOLOGICAL MUSEUM)

P Rautatiekatu 13, SF- 00100 Helsinki

T. 40271 Tx. -

Access: Open

Services: None

Holdings: Samples

Timespan: From 1850

Area: Northern Baltic and some from elsewhere

Detail: Sc. C Segerstråle (1930s) Pacific; A v Nordmann (1850s) Black Sea; Munsterhjelm (early 1900s) North Atlantic collections.

52. SJÖHISTORISKA MUSEET VID ÅBO AKADEMI

Biskopsgatan 13, SF- 20500 Åbo

T. 921-654152 Tx. -

Access: Open

Services: C, P, X

Holdings: Apparatus, Samples, Documents

Timespan: From 1800

Area: Local coastal waters

Detail: Aa, c, i, j; Da, b, c, d; Ma, b, e. Museum ship 'Sigyn', 3-masted barque built 1887.

FINLAND

48. ÅLANDS SJÖFARTSMUSEUM

Hamngatan 2, SF- 22100 Mariehamn

T. 28-11-930 Tx. -

Access: Restricted

Services: P, X

Holdings: Apparatus, Documents

Timespan: From 1800

Area: Unrestricted

Detail: Material related to Åland Islands.

49. FINNISH INSTITUTE OF MARINE RESEARCH (LIBRARY)

PO Box 33, SF- 00931 Helsinki

T. 358-0-331044 TX. 125731 imr sf

Access: Restricted

Services: No information

Holdings: Apparatus, Samples, Documents

Timespan: From 1898

Area: Baltic Sea

FRANCE

53. ARCHIVES DÉPARTEMENTALES DE LA CHARENTE-MARITIME

136-144 rue de Courailles, F- 17000

La Rochelle

T. 46-45-17-77 Tx. -

Access: Open

Services: None

Holdings: Documents

Timespan: 17th and 18th centuries

Area: Atlantic Ocean

Detail: Dc; Mb. La Rochelle and Marennes Admiralty records; mercantile navigation and fisheries; log-books; wreck reports.

54. ARCHIVES DÉPARTEMENTALES DES CÔTES-DU-NORD

7 rue François Merlet, F- 22000 St-Brieuc

T. 96-78-78-77 Tx. -

Access: Open **Services:** C, X
Holdings: Documents
Timespan: 1760-1940
Area: Local coast
Detail: Mb. Project to drain part of St-Brieuc Bay, c1760; other official maritime archives.

- 55. ARCHIVES DÉPARTEMENTALES DE L'HÉRAULT**
 2 avenue de Castelnaud, BP 1266, F- 34011 Montpellier Cedex
 T. 67-79-65-45 Tx. -

Access: Open **Services:** C, P, M, X

Holdings: Documents

Timespan: From 18th century.

Area: No information

Detail: M. L F Marsigli (1658-1730); studies of coral (18th century); coastal engineering; currents, marine sciences by members of the "Société royale de Montpellier" (18th century).

- 56. ARCHIVES DÉPARTEMENTALES DE LA SEINE-MARITIME**
 Cours Clemenceau, F- 76101 Rouen
 T. 35-03-54-95 Tx. -

Access: Open **Services:** P, M, X

Holdings: Documents

Timespan: 19th and 20th centuries

Area: Local coast

Detail: Ma,b,c,d. Coastal engineering; archives of societies and expeditions; maritime administration.

- 57. ARCHIVES MUNICIPALES DE BORDEAUX**
 71 rue du Loup, F-33000 Bordeaux
 T. 56-90-91-60 Tx. -

Access: Open **Services:** C(free), P, X

Holdings: Documents

Timespan: 1898-1908

Area: North Atlantic

Detail: Dc; Ma. Archive of the "Société de géographie commerciale" has relevant material. Records of the "Société d'océanographie du Golfe de Gascogne".

- 58. COLLÈGE DE FRANCE, LABORATORY OF MARINE BIOLOGY (LIBRARY AND HERBARIUM)**
 F- 29110 Concarneau
 T. 98-97-06-59 Tx. -

Access: Restricted **Services:** X

Holdings: Apparatus, Samples, Documents

Timespan: From 1859

Area: No information

Detail: Sc; Ma,d. Marine biology, embryology, biochemistry. Cronan herbarium (seaweeds).

- 59. IFREMER**
 BP 1049, F- 44037 Nantes Codex
 T. 40-37-40-00 Tx. 711196

Access: Restricted **Services:** No information
Holdings: Apparatus, Samples, Documents
Timespan: From 1918
Area: Atlantic and East Indian Oceans, Mediterranean Sea
Detail: Ab,c,d,g,i,l; Sc; Mc.

- 60. INSTITUT OCÉANOGRAPHIQUE**
 195 rue St Jacques, 75005 Paris
 T. (01) 43-25-63-10 Tx. -

Access: Restricted

Services: X

Timespan: From 1830s

Area: Unrestricted

Detail: A; Sc; Db; Ma,d. A large collection of stereoscopic slides, dating back to the early 20th century, taken during the expeditions of Cdt Charcot and Prince Albert I. Expeditions of Prince Albert I of Monaco (from 1885) and Cdt J B Charcot (early 20th century). Reports of expeditions 'L'Astrolabe' (1826-), 'La Recherche' (1838-), 'L'Uranie' (1844-), 'Travailleur' and 'Talisman' (1906-).

- 61. MUSÉE FRANÇAIS DE LA PHOTOGRAPHIE**
 78, rue de Paris, BP 3, F- 91570 Bievres
 T. (1) 69-41-10-60 Tx. -

Access: Restricted

Services: P

Holdings: Documents

Timespan: From 19th century

Area: No information

Detail: Db. Gabriel Bertrand's photographs of Prince Albert of Monaco's oceanographic researches, c1900.

- 62. MUSEUM D'HISTOIRE NATURELLE**
 12, rue Fontaine Neuve, F- 66000 Perpignan
 T. 68-35 63 30 x6536 Tx. -

Access: Restricted

Services: None

Holdings: Samples

Timespan: 19th century

Area: Unrestricted

Detail: Sc. Mollusc collections of Massot, Bucquoy, Pepraty (Mediterranean) and Lavigne (New Caledonia).

- 63. MUSÉE DE LA MARINE (SERVICE D'ÉTUDES ET DOCUMENTATIONS)**
 Palais de Chaillot, Place du Trocadero, F-75116 Paris
 T. 45-53-31-70 Tx. -

Access: Restricted

Services: P, X

Holdings: Documents

Timespan: From 17th century

Area: Atlantic Ocean

Detail: No information

- 64. MUSEUM NATIONAL D'HISTOIRE NATURELLE (CENTRE CNRS, ANTHROPOLOGIE MARITIME)**
 43 rue Cuvier, F- 75005 Paris
 T. (1) 43-31-40-10 Tx. -

Access: Open **Services:** C, X
Holdings: Documents
Timespan: From 19th century
Area: Unrestricted
Detail: M. Fishing societies and techniques from Atlantic Ocean and Oceania.

- 65. MUSEUM NATIONAL D'HISTOIRE NATURELLE (ICHTHYOLOGIE GÉNÉRALE ET APPLIQUÉE)**
 43 rue Cuvier, F- 75231 Paris Cedex 05
 T. (1) 43-31-40-10 Tx. -

Access: Restricted **Services:** C(free), P, X
Holdings: Samples, Documents
Timespan: From 1750
Area: Unrestricted
Detail: Sc; D. Fish collections from Cuvier, Valenciennes, and from the major national and international expeditions.

- 66. MUSÉE NAVAL DE LA CITADELLE**
 F- 83990 St-Tropez
 T. 94-97-06-53 Tx. -

Access: Open **Services:** C, P
Holdings: Apparatus, Documents
Timespan: To 1944
Area: Mediterranean Sea
Detail: Ac, I; Dd; Ma, b, c. Local navigation, harbour, fishing.

- 67. MUSÉE DE LA PÊCHE**
 BP118, F- 29181 Concarneau
 T. 98-97-10-20 Tx. -

Access: Open **Services:** No information
Holdings: Apparatus, Documents
Timespan: 19th century
Area: Unrestricted
Detail: Al; Db, c. Fishing gear.

- 68. MUSÉE DE ST-MALO ET MUSÉE INTERNATIONAL DU LONG-COURS CAP-HORNIER**
 Château-Hotel de Ville, BP 147, F- 35408 St-Malo Cedex
 T. 99-40-71-11 Tx. -

Access: Restricted **Services:** P, X
Holdings: Documents
Timespan: From 1600
Area: Unrestricted
Detail: Db; Ma. J Cartier, Canadian voyages. Cape Horn area voyages. Indian Ocean and Mauritius. Charcot Polar expeditions, 1903-36.

- 69. UNIVERSITÉ PIERRE ET MARIE CURIE - CNRS UA 117 (LABORATOIRE ARAGO)**
 F- 66650 Banyuls-sur-mer
 T. 68-88-00-40 Tx. 505020 aragoba f

Access: Open **Services:** X
Holdings: Documents
Timespan: From 1882
Area: No information
Detail: Ma, d. No other information.

GERMANY, DEMOCRATIC REPUBLIC

- 70. MEERESMUSEUM FÜR MEERESKUNDE UND FISCHEREI DER DDR**
 Katharinenberg 14, DDR- 2300 Stralsund
 T. Stralsund 5135 Tx. -

Access: Open **Services:** None
Holdings: Apparatus
Timespan: c1930
Area: Unrestricted
Detail: Ad, g. No other information.

GERMANY, FEDERAL REPUBLIC

- 71. DEUTSCHES MUSEUM (SPECIAL COLLECTIONS AND MARITIME DEPARTMENTS)**
 Museumsinsel 1, D- 8000 München
 T. (089) 2179-220 Tx. 05-24211 d

Access: Open **Services:** P, M, X
Holdings: Apparatus, Documents
Timespan: From 19th century
Area: Unrestricted
Detail: Aa; Db, d; M. Correspondence of E V Drygalski, Alfred Wegener, G V Neumeyer. Photographs of former "Museum für Meereskunde" in Berlin, and of research apparatus in "Special Collections". Apparatus is in Maritime Department.

- 72. UNIVERSITÄT KIEL (INSTITUT FÜR MEERESKUNDE)**
 Dusternbrooker Weg 20, D- 2300 Kiel 1
 T. (0431) 597-3902 Tx. 292619 ifmk d

Access: Open **Services:** P, M, X
Holdings: Apparatus, Samples, Documents
Timespan: From 1870
Area: Baltic Sea, North and South Atlantic Ocean
Detail: Aa, b, c, d, f, h, i, j, k, l; Sa, b; Db, d; Ma, d. Otto Krümmel, Victor Hensen, Georg Wüst. "Meteor" cruises previous to World War 2. Baltic research.

GREECE

- 73. NATIONAL CENTRE FOR MARINE RESEARCH**
 Aghios Kosmas, Hellinikon, GR- 16604
 T. 9820214 Tx. 224135 ncmr gr

Access: Open **Services:** None
Holdings: Apparatus, Samples
Timespan: From 1945
Area: Mediterranean Sea
Detail: Ab,c,d; Sc. No other information.

ICELAND

74. THE NATIONAL ARCHIVES OF ICELAND
 Laugavegur 162, 105 Reykjavik
 T. 91-623393 Tx. -
Access: No information **Services:** No information
Holdings: Documents
Timespan: No information
Area: No information
Detail: M. Yearly reports of Bjarni Saemundsson from 1890s to 1940, mainly on marine biology and commercial fisheries, also ocean temperatures.

INDIA

75. NATIONAL ARCHIVES OF INDIA
 Janpath, 110001 New Delhi
 T. 383436 Tx. -
Access: Open **Services:** No information
Holdings: Documents
Timespan: 1748-1944
Area: No information
Detail: M. Home Department (1748-1837), Foreign Department (1756-1837), Marine Department (1838-1944) may have material. Marine development and administration, marine surveys.

INDONESIA

76. CENTRE FOR OCEANOLOGICAL RESEARCH AND DEVELOPMENT (LIPI)
 Jalan Pasir Portih 1, Ancol Timur, PO Box 580, DAK, Jakarta 11001
 T. 683-850 Tx. 45875 pdin ia
Access: Restricted **Services:** None
Holdings: Samples, Documents
Timespan: From 1899
Area: Indonesian coastal waters
Detail: Sc; Md. No other information.

ITALY

77. CNR, ISTITUTO SPERIMENTALE TALASSOGRAFICO
 Viale R. Gessi 2, 34123 Trieste
 T. (040) 305 312 Tx. -

Access: Restricted **Services:** None
Holdings: Apparatus
Timespan: From 1900
Area: No information
Detail: Ab,d,f,h. No other information.

78. CIVICO MUSEO NAVALE DIDATTICO
 Via San Vittore 21, 20123 Milano
 T. (2) 481 7270 Tx. -

Access: Restricted **Services:** None
Holdings: Apparatus, Documents
Timespan: 19th and 20th centuries
Area: Mediterranean Sea
Detail: Ad,n,p; Ta,b. Polar expeditions of Luigi Amedeo di Savoia (1899-1900) and Umberto Nobile (1928). Models of exploring vessels 'Stella Polare' and 'Vega'.

79. ISTITUTO E MUSEUM DI STORIA DELLA SCIENZA
 Piazza del Giudici 1, 50122 Firenze
 T. (055) 29-34-93 Tx. -

Access: Open **Services:** C, P, X
Holdings: Apparatus, Documents
Timespan: To 19th century
Area: No information
Detail: Ac,d,f; Md. No other information.

80. MUSEO CIVICO DI STORIA NATURALE 'GIACOMO DORIA'
 Via Brigata Liguria 9, 16121 Genova
 T. (010) 564-567 Tx. -

Access: Restricted **Services:** None
Holdings: Documents
Timespan: No information
Area: Mediterranean
Detail: Md. No other information.

81. MUSEO TECNICO NAVALE
 Viale Amendola 1, 19100 La Spezia
 T. (0187) 36151 x2251 Tx. -

Access: Open **Services:** None
Holdings: Apparatus, Samples, Documents
Timespan: 1800-1938
Area: Unrestricted
Detail: Ta,b; Ma,b,c,d. Collections from the Duke of Abruzzi's North Pole Expedition, 'Stella Polare' (1899-1900) and from Gen. Nobile's Expedition in the balloon 'Italia' (1928).

82. STAZIONE ZOOLOGICA 'ANTON DOHRN' (ARCHIVES)

Villa Comunale, 80121 Napoli
T. (081) 5833274 Tx. 720256 szn I

Access: Restricted **Services:** P, M, X

Holdings: Samples, Documents

Timespan: From 1870

Area: Mediterranean Sea

Detail: Sc; Dd; Ma,c,d. Gaetano Chierca; F A Krupp; Italian Navy. Oceanographical expeditions in the Mediterranean.

Collection of preserved biological specimens; collection of algae.

83. UNIVERSITY OF BOLOGNA (LIBRARY)

Via Zamboni 35, 40126 Bologna
T. (051) 243420 Tx. -

Access: Open **Services:** C, P, M, X

Holdings: Documents

Timespan: From 1600

Area: Unrestricted

Detail: Ma,d. Archive of L F Marsigli (1658-1730) (published catalogue) and material relating to other naturalists.

MONACO

84. INTERNATIONAL HYDROGRAPHIC BUREAU (LIBRARY)

7, avenue Président J F Kennedy, BP 445,
MC- 98011 Monaco Cedex
T. (33) 93-50-65-87 Tx. 479164 inhorg mc

Access: Open **Services:** No information

Holdings: Documents

Timespan: From 1921

Area: Unrestricted

Detail: Md. No other information.

85. MUSÉE OCÉANOGRAPHIQUE (BIBLIOTHÈQUE)

Avenue St-Martin, Monaco-Ville, MC- 98000
T. 93-30-15-14 x49 Tx. 469037 remona mc

Access: Restricted **Services:** P, X

Holdings: Documents

Timespan: From 1880

Area: Unrestricted

Detail: Dc; Ma,c,d. Prince Albert I of Monaco's cruises and research. Monaco oceanographic museum records.

86. MUSÉE OCÉANOGRAPHIQUE (SERVICE DES COLLECTIONS)

Avenue St-Martin, Monaco-Ville, MC- 98000
T. 93-30-15-14 x25 Tx. 469037 remona mc

Access: Restricted **Services:** C, P, X

Holdings: Apparatus, Samples, Documents

Timespan: From 1885

Area: Mediterranean Sea, Atlantic Ocean

Detail: Aa,b,c,d,e,f,g,h,i,l,m,n,o,p,q; Ta,b,d; Db,d; Ma.

Instruments and collections of Prince Albert I of Monaco. Other pre-1914 instruments.

NETHERLANDS

87. FISHERY MUSEUM, INSTITUTE FOR THE NORTH SEA FISHERY OF THE NETHERLANDS

Westhavenkade 53-54, NL- 3131 AG
Vlaardingen
T. (010) 434-8722 Tx. -

Access: Restricted **Services:** P, X

Holdings: Apparatus, Samples, Documents

Timespan: From 1860

Area: North Sea

Detail: Ab,k,l,n,o,p; Ta; Db,c,d,e; Ma,b,d. Fish, fishing methods, boats and social background of fisheries.

88. INSTITUTE FOR TAXONOMIC ZOOLOGY

Postbus 4766, NL- 1009 AT Amsterdam
T. (020) 525-7234 Tx. -

Access: Restricted **Services:** C(part)

Holdings: Samples, Documents

Timespan: From 1850

Area: Unrestricted

Detail: Sc; Dc; M. 'Siboga' Expedition (1899) complete collections. 'Plankton' Expedition (1900-03). Other collections from Indonesia, West Indies and North Atlantic.

89. KONINKLIJK NEDERLANDS METEOROLOGISCH INSTITUUT

Postbus 201, NL- 3730 AE De Bilt
T. 3130-766911 Tx. 47096

Access: Restricted **Services:** C(free), X

Holdings: Apparatus, Documents

Timespan: From 1850

Area: Unrestricted

Detail: Ab,c,d,p; Tc; Dc,e; Ma,d.

90. NEDERLANDS INSTITUTE FOR FISHERY INVESTIGATIONS

Haringkade 1, PO Box 68, NL- 1970 AB
IJmuiden
T. (31) 2550-64646 Tx. 71044 rivo nl

Access: Open **Services:** P, X

Holdings: Apparatus, Documents

Timespan: From 1880

Area: North Sea

Detail: Ab,c,d,h,l,m. P P C Hoek, first Director, first General Secretary of ICES (1902-07). North Sea fisheries. ICES Foundation Archives (kept at the Hague) may be seen here by appointment.

- 91. UNIVERSITEITS BIBLIOTHEEK VAN AMSTERDAM (KAARTENZAAL)**
Singel 425, NL- 1012 WP Amsterdam
T. (020) 525-2354 x55 Tx. -

Access: Open **Services:** P, M, X

Holdings: Documents

Timespan: From 1550

Area: Unrestricted

Detail: Dc, e. Rutters and pilots from 1550. Charts by P Plancius, W Barentsz, Waghenaeer, W and J Blaeu, P Goos, J and G von Keulen. Some VDC charts by I de Graaff. Library and map collections of the "Kong. Ned. Aardryskundig Gen." (Royal Dutch Geographical Society).

NEW ZEALAND

- 92. FISHERIES RESEARCH CENTRE**
PO Box 297, Wellington
T. (04) 861-029 Tx. 30049 maffcc nz

Access: Restricted **Services:** X

Holdings: Documents

Timespan: 1901-07

Area: New Zealand coastal waters

Detail: Dc. New Zealand government trawling expeditions, 1900-01 and 1907.

- 93. UNIVERSITY OF OTAGO, PORTOBELLO MARINE LABORATORY**
PO Box 8, Portobello, Dunedin
T. (024) 780-011 Tx. -

Access: Open **Services:** P, X

Holdings: Documents

Timespan: From 1900

Area: Southeast New Zealand coastal waters

Detail: Db,e; Ma,d. G M Thomson and other early researchers.

Materials relating to institution's establishment originally as Portobello Fish Hatchery and Biological Station.

NORWAY

- 94. 'FRAM' MUSEUM**
Bygdøyenes, N- 0286 Oslo 2
T. No information Tx.-

Access: Open **Services:** C, P, M

Holdings: Apparatus, Samples, Documents

Timespan: 1893-1912

Area: Polar Seas, Antarctica

Detail: Ta. Fridtjof Nansen (Arctic Polar Sea), Otto Sverdrup (Canadian Arctic Sea), Roald Amundsen (Antarctic Polar Sea).

- 95. GEOFYSISK INSTITUTT (AVD OSEANOGRAPHI)**
Alleg 70, N- 5000 Bergen
T. No information Tx. -

Access: Open **Services:** No information

Holdings: Apparatus, Documents

Timespan: From 1500

Area: Northern Seas

Detail: Aa,b,c,d,f,h,i; Da,b,c,d,e; Ma,d. Helland-Hansen, Haakon Mosby. Expeditions in northern seas, mainly Norwegian Sea

- 96. INSTITUTE OF MARINE RESEARCH, DIRECTORATE OF FISHERIES**
PO Box 1870, Nordnes, 5024 Bergen
T. 47-5-327760 Tx. 42297 ocean n

Access: Restricted **Services:** P, M, X

Holdings: Apparatus, Samples, Documents

Timespan: From 1900

Area: North Atlantic, Barents and Arctic Seas, Norwegian coast

Detail: Aa,c,d,i,l,m,o; Sc; Da,b,c,d; Ma,b,c,d. Norwegian fishery research expeditions in North Atlantic, Barents Sea, Norwegian Sea, since 1900.

- 97. SANDEFJORD MARITIME MUSEUM (COMMANDER CHR. CHRISTENSEN'S WHALING MUSEUM)**
Prinsøringsgaten 39, N- 3200 Sandefjord
T. 034-63251 Tx. -

Access: Restricted **Services:** P, M, X

Holdings: Apparatus, Samples, Documents

Timespan: 19th and 20th centuries

Area: Unrestricted

Detail: No Information

- 98. UNIVERSITY OF OSLO (INSTITUTE OF GEOPHYSICS)**
PB 1022, Blindern, N- 0315 Oslo 3
T. (02) 45-58-23 Tx. -

Access: Open **Services:** None

Holdings: Apparatus

Timespan: 1900-20

Area: Unrestricted

Detail: Ac,d. No other information.

PHILIPPINES

- 99. NATIONAL MAPPING AND RESOURCE INFORMATION AUTHORITY (OCEANOGRAPHIC SURVEYS DIVISION)**
421 Barraca Street, Binondo, PO Box 1620 Manila
T. 47-96-11 Tx. 722-7373 cgs ph

Access: Open **Services:** P, M
Holdings: Apparatus, Documents
Timespan: From 1947
Area: No information
Detail: Af; Ta; Df.

- 100. NATIONAL MUSEUM OF THE PHILIPPINES, (BOTANY AND ZOOLOGY DIVISION)**
 Executive House, Rizal Park, PO Box 2659
 Manila
 T. 977-307 Tx. -

Access: Restricted **Services:** C(free), X
Holdings: Apparatus, Samples, Documents
Timespan: From 1900
Area: Unrestricted
Detail: Am; Sc; Dc, e; Mb, d.

- 101. UNIVERSITY OF SAN CARLOS**
 Cebu City 6401
 T. 7-24-10 Tx. -

Access: Restricted **Services:** None
Holdings: Samples
Timespan: From 1950s
Area: No information
Detail: Sc. Corals.

POLAND

- 102. ARCHIWUM AKT NOWYCH**
 Niepodleglosci ul 162, 02-554 Warszawa
 T. 49-50-07 Tx. -

Access: Restricted **Services:** X
Holdings: Documents
Timespan: From 1918
Area: Unrestricted
Detail: D. Records of various ministries of industry, navigation and commerce. Shipping company records. Archives 132, 286, 286(II), 313, 547, 246, 247, 299, 518, 828 have relevant material.

- 103. ARCHIWUM PAŃSTWOWE IN GDAŃSK**
 Ul. Waly Piastowskie 5, 80-958 Gdańsk
 T. 31-74-64 Tx. -

Access: Open **Services:** C(free), m, X
Holdings: Documents
Timespan: From 18th century
Area: Baltic Sea, Atlantic Ocean
Detail: Dc; Mb, d. Records of 18th century shipwreck and damage in Baltic and North Seas. Shipping Industry records from 19th and 20th centuries.

- 104. ARCHIWUM PAŃSTWOWE IN SZCZECIN**
 Ul św Wocjlecha 13, 70-410 Szczecin
 T. 36-770 Tx. -

Access: Open **Services:** M
Holdings: Documents
Timespan: From 1800
Area: North Sea
Detail: D. Cartographic documents.

PORTUGAL

- 105. AQUARIO 'VASCO DA GAMA'**
 Rua Direita, Dafundo, 1495 Lisboa
 T. (01) 419-6337 Tx. -

Access: Open **Services:** X
Holdings: Apparatus, Samples, Documents
Timespan: From 1896
Area: Portuguese coastal waters
Detail: Aa, b, c, d, l, j, m; Sc; Dc, d, e; Ma, c, d. Dom Carlos I, 'Amelia' Expeditions, 1896-1903, collections, data and other documents. Fishing techniques and apparatus.

- 106. INSTITUTO HIDROGRAFICO**
 Rua das Trinas 49, 1296 Lisboa Codex
 T. 601191/6 Tx. 65990 hidrog p

Access: Restricted **Services:** M, X
Holdings: Apparatus, Samples, Documents
Timespan: From 1917
Area: Atlantic Ocean, Pacific Ocean
Detail: Aa, c, d, f, g, h, i, m, n, o; Sa, c; Da, d, e; Md. Hydrography and oceanography generally.

- 107. MUSEU MUNICIPAL DE FUNCHAL**
 Rua de Mouraria 31, 9000 Funchal, Madeira
 T. 091-29761 Tx. 72349 funcal p

Access: Open **Services:** X
Holdings: Samples, Documents
Timespan: From 1930
Area: Northeast Atlantic Ocean, especially round Madeira and other islands
Detail: No information. Fish collections from RRS 'Challenger' and RRS 'Discovery' expeditions to the area (published).

ROMANIA

- 108. MUZEUL DE ISTORIE NATURALA 'GRIGORE ANTIPA'**
 Sos. Kiseleff 1, 79744 Bucuresti
 T. 50-47-25 Tx. -

Access: Restricted **Services:** P, X
Holdings: Apparatus, Samples, Documents
Timespan: 19th century
Area: Black Sea, Antarctic Sea.
Detail: A; Sc; Dc; Ma,c. Letters, photographs and apparatus of Grigore Antipa's Black Sea Expedition, 1893. Important correspondence and papers of Emil Racovitza, Naturalist on 'Belgica' Antarctic Expedition (1897-99). Photographs by F Cook and Emil Racovitza.

109. ROMANIAN MARINE RESEARCH INSTITUTE

Lenin 300, RO-8700, Constantza 3
T. 40-916-43288 Tx. 14342
Access: Restricted **Services:** None
Holdings: Specimens, Documents
Timespan: From 1929
Area: Black Sea
Detail: Sc; Ma,b. Grigore Antipa, first Romanian Black Sea Expedition, 1893. Papers of I Borcea (1929-32) and M Celan (1931-50).

SPAIN

110. ARCHIVO HISTORICO NACIONAL

Serrano 115, 28006 Madrid
T. 261-7052 Tx. -
Access: Open **Services:** C, P, M, X
Holdings: Documents
Timespan: 16th century and from 18th century
Area: Unrestricted
Detail: Dc,d; M. Isaac Peral (inventor of submarine). Federico de Botella (late 19th century) hydrographic charts of Spain and Portugal. Alsedo y Herrera Expedition, South America, (1771 etc). Maps, plans, drawings of ports, coasts, navigation routes, exploration of North and South America.

111. BIBLIOTECA NACIONAL

Paseo de Recoletos 20, 28001 Madrid
T. 275-6800 Tx. -
Access: No information **Services:** No information
Holdings: Documents
Timespan: No information
Area: No information
Detail: Only a few manuscripts in "Cartografía y Geografía modernas" section are relevant.

112. INSTITUTO ESPAÑOL DE OCEANOGRAFÍA: CENTRO OCEANOGRÁFICO DE BALEARES

Muelle de Ponienta s/n, Apt 291, 07080 Palma de Mallorca
T. 71-401877 Tx. 69493 ieob e

Access: Restricted **Services:** X
Holdings: Apparatus, Samples, Documents
Timespan: From 1900
Area: Mediterranean Sea, Gulf of Guinea, Antarctica
Detail: Ab,c,d,f,g,h,i,j,l,m; Tc; Sa,b,c; Db,c,d,e; Ma,b,c,d.

113. INSTITUTO ESPAÑOL DE OCEANOGRAFÍA: CENTRO OCEANOGRÁFICO DE FUENGIROLA

Puerto Pesquero, Fuengirola, Malaga
T. (952) 478148 Tx. 79280 ieoa e
Access: Restricted **Services:** None
Holdings: Apparatus, Samples, Documents
Timespan: From 1920
Area: No information
Detail: Ab,d,f,i; Md. No other information.

114. INSTITUTO ESPAÑOL DE OCEANOGRAFÍA: LABORATORIO DE SANTANDER

Promontorio de San Martín, Apt 240, 39080 Santander
T. (42) 275033 Tx. 35998 ieos e
Access: Restricted **Services:** X
Holdings: Apparatus, Samples, Documents
Timespan: From 1886
Area: Southern Bay of Biscay
Detail: Af,i,m; Sc; Db,d; Mb,d. Prof. A Gonzales de Linares, founder and first director of the laboratory. Prof. J Rioja, second director.

115. MUSEO MARITIMO DEL CANTÁBRICO

Calle San Martín de Bajamar s/n, 39004 Santander, Cantabria
T. 942-274962 Tx. -
Access: Open **Services:** No information
Holdings: Apparatus, Samples, Documents
Timespan: From 1886
Area: Cantabrian coast
Detail: Md. Material relating to the earlier "Estación de Biología Marítima", Santander.

116. MUSEO NACIONAL DE CIENCIAS NATURALES

Calle José Gutiérrez Abascal 2, 28006 Madrid
T. (91) 411-1328 Tx. -
Access: Open **Services:** C(free) P, X
Holdings: Apparatus, Samples, Documents
Timespan: From 1775
Area: Unrestricted
Detail: Aj; Sc; Dd,e; Ma,b,c,d. 'Malaspina' Expedition (1850), photographs and drawings.

- 117. MUSEO NAVAL (LIBRARY, MANUSCRIPTS SECTION)**
Montalbán 2, 28014 Madrid
T. (1) 521-0419 Tx. -

Access: Open **Services:** C, P, M, X

Holdings: Documents

Timespan: 18th and 19th centuries

Area: Mediterranean Sea, Atlantic Ocean, Pacific Ocean

Detail: Dc,d,e; Ma,b,c,d. Alejandro Malaspina's Expedition (1789-1794). Antonio de Córdoba's Expedition to Magellan Strait. Spanish 18th century expeditions.

SWEDEN

- 118. BENGT HJELMQVIST**
Åry Herrgård, S- 36043 Åryd
T. (00946) 470-742-70 Tx. -

Access: Restricted **Services:** X

Holdings: Documents

Timespan: 1890-1954

Area: Unrestricted

Detail: Ma. Vagn Wilfrid Ekman (1874-1954) correspondence.

- 119. GÖTEBORG UNIVERSITY LIBRARY (MANUSCRIPTS DEPARTMENT)**
Box 5096, S- 40222 Göteborg
T. (031) 63-17-13 Tx. 20896 ubgbg s

Access: Open **Services:** P, M, X

Holdings: Documents

Timespan: 1850-1905

Area: Unrestricted

Detail: Ma. Per Teodore Cleve (1840-1905). Otto Pettersson (1848-1941) correspondence up to 1905. Anton Stuxberg (1849-1902).

- 120. INSTRUMENTFAB A B LYTH**
Helgalunden 17, S-11658 Stockholm
T. (08) 43-43-47 Tx. -
124425 lythkompass s

Access: Restricted **Services:** None

Holdings: Apparatus, Documents

Timespan: From 1861

Area: Unrestricted

Detail: Ad, Ma,d. No other information.

- 121. LANDSARKIVET**
Box 135, S- 75104 Uppsala
T. (018) 152170 Tx. -

Access: No information **Services:** X

Timespan: No information

Area: No information

Detail: Mb. No other information.

- 122. SJÖFARTSMUSEET I GÖTEBORG**
Karl Johansgaten 1-3, S- 41459 Göteborg
T. (0) 31-61-10-00 Tx. -

Access: Restricted

Services: No information

Holdings: Apparatus

Timespan: From 1920

Area: Unrestricted

Detail: Aa,b,c,d,g,h,i; Ta; Sb. Hans Pettersson. Swedish Deep Sea Expedition in 'Albatross' (1947-48). Relief map from the 'Museum für Meereskunde' in Berlin, based on data from 'Meteor' Expedition (1925-27).

- 123. STATENS SJÖHISTORISKA MUSEUM**
Muselvagen 3, S-11527 Stockholm
T. 46(0)8-22-39-80 Tx. -

Access: Open

Services: X

Holdings: Documents

Timespan: No information

Area: No information

Detail: Db,c,d; Ma,c,d. 'Vanadis' Expedition (1883). 'Vega' Expedition (1878-80), with Palander collection.

- 124. SWEDISH METEOROLOGICAL AND HYDROGRAPHICAL INSTITUTE (OCEANOGRAPHICAL LABORATORY)**
PO Box 2212, S- 40314 Göteborg
T. 4631-630349 Tx. 27108 natfis s

Access: Restricted

Services: C,X

Holdings: Apparatus, Documents

Timespan: From 1864

Area: Baltic, Kattegat, Skagerrak, North Sea, Barents Sea

Detail: Ab,d,i,m; Da,c,e; Ma,b,c,d. Notes and manuscripts of Prof. Otto Pettersson and Prof. Hans Pettersson. Swedish expeditions in Baltic, North and Barents Sea. Material from Swedish Deep-Sea Expedition (circumnavigation) (1947-8). Observation log-books of meteorology and oceanography on Swedish light vessels from 1864.

SWITZERLAND

- 125. MUSÉE D'HISTOIRE DES SCIENCES**
128 rue de Lausanne, CH- 1202 Genève
T. (022) 31-69-85 Tx. -

Access: Restricted

Services: P, X

Holdings: Apparatus, Documents

Timespan: From 19th century

Area: Unrestricted

Detail: J D Colladon (1802-93). H Fol (1845-92).

- 126. MUSÉE DU LEMAN**
Musées de la ville de Nyon, Place du Château 5, CH- 1260 Nyon
T. (022) 613881 Tx. -

Access: Restricted

Services: P, X

Holdings: Apparatus, Samples, Documents

Timespan: From 19th century

Area: Lac Lemman

Detail: Aa,b,c,d,e,f,h,j,k,l,m,n,o,q,r; Sc; Db,d; Ma. F A Forel, Mercanton, Plantamour, J D Colladon (1802-93).

THAILAND

- 127. CHULALONGKORN UNIVERSITY (MARINE SCIENCE DEPARTMENT)**
Faculty of Science, Phya Thai Road,
Bangkok 10500
T. 2511951 Tx. 20217 unichul th
- Access:** Open **Services:** P, X
Holdings: Documents
Timespan: From 1936
Area: Gulf of Thailand, South China Seas, Andaman Sea
Detail: Db,c,d,e,f; Ma,b,c,d.

TUNISIA

- 128. INSTITUT NATIONAL SCIENTIFIQUE ET TECHNIQUE D'Océanographie et de Pêche (MUSÉE)**
Rue 2 Mars 1934, Salammbô 2025
T. (01) 730-420 Tx. 14739 spa tunis
- Access:** Restricted **Services:** C(free) P, M, X
Holdings: Apparatus, Documents
Timespan: No information
Area: No information
Detail: Aa,b,c,d,i,l,m; Tb; Dd,e; Ma,c,d.

UNITED KINGDOM (ENGLAND AND WALES)

- 129. BEDFORDSHIRE RECORD OFFICE**
County Hall, Bedford, MK42 9AP
T. (0234) 228833 Tx. -
- Access:** Open **Services:** C, P, M, X
Holdings: Documents
Timespan: 1885-1940
Area: Unrestricted
Detail: Ma. Papers of G Herbert Fowler (1861-1940).
- 130. BODLEIAN LIBRARY (DEPARTMENT OF WESTERN MANUSCRIPTS)**
Broad Street, Oxford OX1 3BG
T. (0865) 277000 Tx. 83656
- Access:** Restricted **Services:** P, M, X
Holdings: Documents
Timespan: From 1630
Area: Unrestricted

Detail: De; Ma. Papers of 17th century scientists who were interested in the Mediterranean and the problem of the current in the strait of Gibraltar - Thomas Smith and John Greaves; also correspondence and papers of Sir Henry Sheeres and Richard Bolland at Tangier (Rawlinson mss); correspondence of W J Sollas, member of the Funafuti Expedition (1896). Some papers of James Rennell. Papers of Sir Alister Hardy. Archives of the British Association for the Advancement of Science. Correspondence and papers of John Wallis, 17th century astronomer who also wrote on tides.

- 131. BRITISH ANTARCTIC SURVEY**
High Cross, Madingley Road, Cambridge, CB3 0ET
T. (0223) 61188 Tx. -
- Access:** Restricted **Services:** C, P, X
Holdings: Documents
Timespan: From 1944
Area: Southern Ocean
Detail: De; Md. Sea ice observations. Little oceanographic work was carried out before 1950.
- 132. BRITISH GEOLOGICAL SURVEY (LIBRARY)**
Nicker Hill, Keyworth, Nottingham NG12 5GG
T. 06077-6111 x3205 Tx. 378173

Access: Open for data **Services:** X, P
Holdings: Documents
Timespan: From 1835
Area: British Isles
Detail: Dc,d,e; Ma,b,d. Correspondence of Sir Charles Lyell, Sir Archibald Geikie, P H Gosse, T H Huxley and others. Notebook of Edward Forbes (1844-54). Ms copy of Robert Sibbald's "Natural History of Scotland". Sea level changes. Development of marine fauna.

- 133. BRITISH LIBRARY (DEPARTMENT OF MANUSCRIPTS)**
Great Russell Street, London WC1B 3DG
T. (01) 323-7513/4 Tx. 21462
- Access:** Restricted **Services:** C, P, M, X
Holdings: Documents
Timespan: From 1600
Area: Unrestricted
Detail: Dc,d; Ma,b,c. William Dampier (Sloane mss); correspondence of James Croll, Capt. C J Phipps (Arctic voyage of 1773); Captain Cook, journal of 3rd voyage; letterbook of John Wallis (1651-1701). C Wyville Thomson's letters to Macmillan & Co (1872-1880). Jean Andre Peyssonnel's "Traite sur le corail" (1751).

- 134. BRITISH MUSEUM (NATURAL HISTORY) (BOTANY DEPARTMENT)**
Cromwell Road, London SW7 5BD
T. (01) 938-9352 Tx. -

Access: Open **Services:** None
Holdings: Samples
Timespan: From 1870
Area: Unrestricted
Detail: Sa,b,c,d. Collections made on the voyages of 'Terra Nova' (1910-12), 'Discovery' (1901-4), RRS 'Discovery II' (1930-37), 'Manihine' (1949), HMS 'Challenger', HMS 'Penguin', 'Valdivia' etc.

**135. BRITISH MUSEUM (NATURAL HISTORY)
 (ZOOLOGY DEPARTMENT)**
 Cromwell Road, London SW7 5BD
 T. (01) 938-9296 Tx. -

Access: Restricted **Services:** P, M, X
Holdings: Samples, Documents
Timespan: From 1770
Area: Unrestricted
Detail: Sc; Db,c,d,e; Ma,c,d. Departmental correspondence from 1820; drawings and descriptions of marine animals by numerous travellers and scientific collectors from the voyages of Captain Cook onwards. George Busk: notes on Polyzoa; A W Alcock; F J Bell: correspondence; John Murray Expedition to the Indian Ocean (1933-34); G C Wallich: notebooks and drawings. Specimens of marine vertebrates and invertebrates from numerous expeditions and collectors, including J MacGillivray: catalogue of Radiata and Mollusca, HMS 'Rattlesnake' (1846-50); W C McIntosh: notes and drawings of Annelids; H N Moseley: journal of natural history observations, HMS 'Challenger' (1872-76); W K Parker: drawings of Foraminifera; Sir J Richardson: notebook on fishes; A W Alcock (1859-1933): 53 drawings for 'A Naturalist in Indian Seas' (1902); A Garrett (1823-1887) drawings of South Sea fishes; W Garstang (1868-1949): drawings of Ascidians from the 'Terra Nova' Expedition (1910); G E Barrett-Hamilton (1871-1914): journal of his journey to South Georgia, 1913-4, to study whales; S F Harmer (1862-1950): original drawings, mss bibliography of the Polyzoa; E Heron-Allen (1861-1943) drawings of Foraminifera; W Livingstone Learmonth: journals of Arctic cruises, 1888 and 1889.

**136. BRITISH MUSEUM (NATURAL HISTORY)
 (GENERAL LIBRARY)**
 Cromwell Road, London SW7 5BD
 T. (01) 938-9191 Tx. 01929437
 nhpubs g

Access: Restricted **Services:** C(part) P, X
Holdings: Documents
Timespan: From 1768
Area: Unrestricted
Detail: Db,c,d,e; Ma,b,c,d. Photographs taken on the voyage of HMS 'Challenger' (1872-6). Papers of A C L G Gunther (1850-1914). Correspondence, 1826-1911, to and from Joshua Alder and A M Norman; C W Andrews, Christmas Island notebooks (1897-98); logbooks of the 'Discovery' (1901-4); notebooks of Edward Forbes; G C Wallich's notes and drawings from soundings in HMS 'Bulldog' (1860).

**137. BRITISH MUSEUM (NATURAL HISTORY)
 (DEPARTMENTS OF LIBRARY SERVICES,
 MINERALOGY AND PALAEONTOLOGY)**
 Cromwell Road, London SW7 5BD
 T. (1) 938-9123 Tx.
 0129437 nhpubs g

Access: Restricted **Services:** C(part), P, M, X
Holdings: Apparatus, Samples, Documents
Timespan: From 1830
Area: Unrestricted
Detail: Ac,h,m; Sa,b; Db,c,d,e; Ma,b,d. Logbooks and diaries kept by scientists on the 'Challenger' Expedition (1872-6); library, manuscripts and sediments collection of Sir John Murray; material collected by RRS 'Discovery' and RRS 'Discovery II' (1925-29). Rocks and sediments from the 'Terra Nova' (1910-12) and other expeditions. Lists of soundings from 'Dacia' (1883), 'Egeria' (1887-88), 'Flying Fish' (1887), HMCS 'Iris' (1912), 'Knight Errant' (1880), 'HMS 'Penguin' (1896), HMS 'Porcupine' (1869-70), HMS 'Rambler' (c1905), HMS 'Sealark' (1905), USS 'Tuscarora' (1873-78) and others. Challenger Office letterbooks. Notes of H B Guppy on the Solomon Islands and ocean soundings. Autograph diary of John Ratray, SS 'Buccaneer' (1885-86).

138. BRUCE CASTLE MUSEUM
 Lordship Lane, London N 17 8NU
 T. (01) 808-8772 Tx. -

Access: Restricted **Services:** P, X
Holdings: Documents
Timespan: 1864-1950
Area: No information
Detail: Dd; Md. Business archives of R W Monro Ltd, instrument makers.

**139. CAMBRIDGE UNIVERSITY LIBRARY
 (MANUSCRIPTS DEPARTMENT)**
 West Road, Cambridge CB3 9DR
 T. (0223) 337733 Tx. 81395

Access: Open **Services:** C, P, M, X
Holdings: Documents
Timespan: From 1661
Area: Unrestricted
Detail: Ma. Correspondence and papers of Sir Isaac Newton (1661-1725); notebooks and correspondence of W H Wollaston; papers of Sir William Thomson (Lord Kelvin); Charles Darwin; James Hornell and George Parker Bidder (marine biology); P H Gosse.

**140. CAMBRIDGE UNIVERSITY, TRINITY
 COLLEGE LIBRARY**
 Trinity College, Cambridge CB2 1TQ
 T. (0223) 338488 Tx. -

Access: Open **Services:** P, X
Holdings: Documents
Timespan: 1817-1853
Area: Mainly Atlantic Ocean and North Sea
Detail: Ma. Correspondence and papers of William Whewell who worked on the theory and observation of tides during the 1830s and 1840s.

141. CHELTENHAM PUBLIC LIBRARY

Clarence Street, Cheltenham,
Gloucester GL50 3JT
T. (0242) 582269 Tx. -

Access: Restricted **Services:** X

Holdings: Documents

Timespan: 1862-1866

Area: UK and India

Detail: Ma. Some papers of Francis Day, ichthyologist, including a natural history journal of Jonathan Couch, 2 volumes, 1862-66, 1 volume of letters and papers on the fishes of Malabar, 2 volumes of correspondence, press cuttings etc.

142. CHRISTS COLLEGE

Cambridge, CB2 3BU
T. (0223) 334900 Tx. -

Access: Restricted **Services:** X

Holdings: Documents

Timespan: 1872-76

Area: Circumnavigation track of HMS 'Challenger'

Detail: Db. Photograph albums of the 'Challenger' Expedition collected by J Y Buchanan, (1872-76).

143. CHURCHILL ARCHIVES CENTRE

Churchill College, Storeys Way, Cambridge
CB3 0DS
T. (0223) 336078 Tx. -

Access: Restricted **Services:** X

Holdings: Documents

Timespan: From 1915

Area: No information

Detail: Ma. Scientific and personal papers of Sir Edward Crisp Bullard.

144. CORNWALL COUNTY RECORD OFFICE

County Hall, Truro TR1 3AY
T. (0872) 74282 x3127 Tx. -

Access: Restricted **Services:** P, M, X

Holdings: Documents

Timespan: From 1889

Area: Local

Detail: Ma, b. Sea Fisheries Committee, minutes and papers. Local fishing records and merchant fishing records over a longer period.

145. FOREIGN AND COMMONWEALTH LIBRARY

Cornwall House, Stamford Street, London
SE1 9NS
T. (01) 211-0117 Tx. -

Access: Open **Services:** X

Holdings: Documents

Timespan: 19th and 20th centuries

Area: Former UK colonies and Dependencies

Detail: Mb. Some unpublished reports on fisheries in former British colonies and dependent territories.

146. HACKNEY ARCHIVES DEPARTMENT

Rose Lipman Library, De Beauvoir Road,
London N1 5SQ
T. (01) 241-2886 Tx. -

Access: Open **Services:** P, M, X

Holdings: Documents

Timespan: From 1860

Area: No information

Detail: M. Records of C F Casella & Co, c1860-1960, instrument makers.

147. THE HANCOCK MUSEUM

The University, Newcastle upon Tyne, NE2
4PT
T. (091) 232-2359 Tx. -

Access: Restricted **Services:** C, P, X

Holdings: Samples, Documents

Timespan: From 1830

Area: Mainly North Sea and British Isles

Detail: Sb, c; Dc, d, e; Ma. Marine biology. Joshua Alder: collections of marine Algae, Hydrozoa, Crustacea, Mollusca (esp nudibranchs), manuscripts; George French Angas; George Barlee; George Stewardson Brady; Hugh Canning; Albany Hancock; George Hodge; M V Lebour; A M Norman; HMS 'Porcupine'.

148. HORNIMAN MUSEUM AND LIBRARY

London Road, Forest Hill, London SE23 3PQ
T. (01) 699-1872 Tx. -

Access: Open **Services:** None

Holdings: Samples, Documents

Timespan: From 1875

Area: No information

Detail: Sc; Dd. J Morgan: collection of corals, Australian coast 1903. Prout Newcombe: collection of sponges, corals, echinoderms, molluscs and crustaceans. Sketches of sea anemones and corals by P H Gosse, 1839-61, and others.

149. HULL CITY RECORD OFFICE

79 Lowgate, Kingston upon Hull, HU1 2AA
T. (0482) 222015 Tx. -

Access: Open **Service:** P, M, X

Holdings: Documents

Timespan: From 1850

Area: Humber estuary, North Sea, N W Europe

Detail: D; M. Records of the Humber Conservancy from 1850 onwards. Company records of trawling owners, including catch data.

150. IMPERIAL COLLEGE OF SCIENCE, TECHNOLOGY AND MEDICINE (ARCHIVES)

South Kensington, London SW7 2AZ
T. (01) 589-5111 x2039 Tx. -

Access: Restricted **Services:** C

Holdings: Documents

Timespan: 1846-1855

Area: Unrestricted

Detail: Dc,d,e; Ma,b,c. Papers of T H Huxley, including his diaries and sketches of marine life from the voyage of HMS 'Rattlesnake' (1846-50) and his notes on deep sea soundings from the 1850-60s, scientific correspondence and papers, including items on the marine stations at Naples and Plymouth, and on fisheries questions. Letters of Edward Forbes to Sir A C Ramsay and T H Huxley, 1844-54.

- 151. INDIA OFFICE LIBRARY AND RECORDS**
Orbit House, 197 Blackfriars Road, London SE1 8NG
T. (01) 928-9531 Tx. 21462 blref g

Access: Open **Services:** C, P, M, X

Holdings: Documents

Timespan: From 1600

Area: Atlantic, Indian Ocean, Persian Gulf

Detail: Dc,d; Ma,b,d. Records of East India Company voyages between London and Asian ports.

- 152. INSTITUTE OF OCEANOGRAPHIC SCIENCES, DEACON LABORATORY**
Wormley, Godalming, Surrey GU8 5UB
T. (042 879) 4141 Tx. 858833

Access: Restricted **Services:** P, X

Holdings: Apparatus, Samples, Documents

Timespan: From 1900

Area: Unrestricted

Detail: A; Sa,c; Db,c,d,e; Ma,b,c,d. Papers, still photography, and movie film relating to the work of the 'Discovery' Committee in the Southern Ocean from 1925-39 with the RRS 'Discovery', RRS 'Discovery II', RRS 'William Scoresby'. 'Discovery' collections of biological specimens. NIO collections. Papers of Sir George Deacon. Archives of the Challenger Society from 1903. Standard seawater samples from 1900.

- 153. INSTITUTION OF CIVIL ENGINEERS**
1-7 Great George Street, London SW1P 3AA
T. (01) 222-7722 Tx. -

Access: Restricted **Services:** C, P, X

Holdings: Documents

Timespan: No information

Area: Unrestricted

Detail: Db,d; Ma,d. Wave measurements. Portraits.

- 154. ISLE OF WIGHT COUNTY RECORD OFFICE**
26 Hillside, Newport, Isle of Wight PO30 2EB
T. (0983) 821000 x3820 Tx. -

Access: Open **Services:** X

Holdings: Documents

Timespan: 1870-1913

Area: No information

Detail: Ma. Small collection of papers of John Milne, seismologist.

- 155. LANCASHIRE RECORD OFFICE**
Bow Lane, Preston, Lancashire PR1 2RE
T. (0772) 54868 x3028 Tx. -

Access: Restricted

Services: C, P, M, X

Holdings: Documents

Timespan: From 1891

Area: Irish Sea

Detail: Dc,e; M. Records of the Lancashire and Western Sea Fisheries Joint Committee, from 1891.

- 156. LINNEAN SOCIETY OF LONDON (LIBRARY)**
Burlington House, Piccadilly, London W1V 0LQ
T. (01) 434-4479 Tx. -

Access: Restricted

Services: X

Holdings: Samples, Documents

Timespan: From 1740

Area: Unrestricted

Detail: Db,c,d; Ma,b,c,d. Papers and correspondence of John Ellis, J Couch, J Day Stackhouse, G Montagu, and others.

- 157. LIVERPOOL RECORD OFFICE**
William Brown Street, Liverpool L3 8EW
T. (051) 207-2147 x34 Tx. 629500

Access: Restricted

Services: C, P, M, X

Holdings: Documents

Timespan: 1768-1793

Area: Liverpool

Detail: D. Observations of tides and weather made by William Hutchinson (1715-1801), Dock Master at Liverpool between 1768 and 1793.

- 158. MAGDALENE COLLEGE (THE PEPYS LIBRARY)**
Cambridge, CB3 0AG
T. (0223) 332100 Tx. -

Access: Restricted

Services: C, P, M

Holdings: Documents

Timespan: 1600-1703

Area: Unrestricted

Detail: Dc,d; M. Papers of Samuel Pepys, including Sir Henry Sheeres' manuscript on currents in the Strait of Gibraltar, 1675. Richard Bolland's "Mediterranean Journal" containing chart of the Strait of Gibraltar with observations on tides and currents. 1676.

- 159. MANCHESTER MUSEUM (ZOOLOGY DEPARTMENT)**
The University, Manchester M13 9PL
T. (061) 275-2666 Tx. -

Access: Restricted

Services: No information

Holdings: Samples, Documents

Timespan: 1870-1920

Area: Atlantic Ocean, Mediterranean Sea

Detail: Sc; Ma,d. Mollusca specimens from HMS 'Challenger' (1872-76) and the Scottish National Antarctic Expedition (1902-04). Waters collection of Bryozoa. Halkyard and Sidebottom collections of Foraminifera.

160. MINISTRY OF AGRICULTURE, FISHERIES AND FOOD (FISHERIES LABORATORY)
Conwy, LL 32 8UB
T. (0492) 593883 Tx. via 97470
fshlow g

Access: Restricted **Services:** None

Holdings: Documents

Timespan: From 1913

Area: Local waters

Detail: Db,d,e; Ma,b,d. Work on mussel purification, oyster and algal culture trials.

161. MINISTRY OF AGRICULTURE, FISHERIES AND FOOD (FISHERIES LABORATORY)
Lowestoft, Suffolk, NR33 0HT
T. (0502) 562244 Tx. 97470 fshlow g

Access: Restricted **Services:** X

Holdings: Apparatus, Documents

Timespan: From 1920

Area: North Sea and UK waters

Detail: Ac; De. Mimeographed reports of cruises of laboratory research vessels (in library). Current meter records obtained by Dr J N Carruthers in 1920s and 1930s. Some reversing thermometers.

162. MINISTRY OF DEFENCE (HYDROGRAPHIC DEPARTMENT)
Taunton, TA1 2DN
T. 0823-337900 Tx. -

Access: Restricted **Services:** C, X

Holdings: Documents

Timespan: From 1791

Area: Unrestricted

Detail: Db,c,d,e; Ma,b,c,d. Charts, logbooks, correspondence and papers of Admiralty surveyors. These include observations of tides and tidal streams, eg Graeme Spence: Tides of the Scilly Islands (1792); Captain W Hewett: observations in the North Sea (1840). Deep sea soundings, current, and temperature measurements. Individual items include: sounding books of HMS 'Challenger' (1872-6) with temperature observations and remark books; Captain Calver's journals of cruises of HMS 'Porcupine' (1869 and 1870); T H Tizard's narrative of deep-sea exploration of the Faoe Channel in HMS 'Triton' (1882); W L Wharton's current observations in the Dardanelles and Bosphorus (1872); T A B Spratt's Mediterranean correspondence (1844-63); correspondence relating to G H Fowler's voyages in HMS 'Research' (1896, 1897, 1900) and to his initiative regarding the role of oceanographic work in the Hydrographic Department, 1918-21.

163. THE NATIONAL LIBRARY OF WALES
Aberystwyth, Dyfed, SY23 3BU
T. (0970) 623816 Tx. 35165 lgcnlw g

Access: Open **Services:** P, M, X

Holdings: Documents

Timespan: No information

Area: Unrestricted

Detail: Db,c,d; Ma. Papers of shipbuilders, merchants and naval officers.

164. NATIONAL MARITIME MUSEUM
Greenwich, London SE10 9NF
T. (01) 858-4422 Tx. -

Access: Open **Services:** C, P, M, X

Holdings: Apparatus, Samples, Documents

Timespan: No information

Area: Unrestricted

Detail: Ab,c,d,i; Sb; Db,c,d,e; Ma,b,c. 1840's Biot waterbottle. STC archive (includes submarine telegraphy). Papers of T H Tizard (navigating Lt on HMS 'Challenger' 1872-6). Journal of John Hynes, Paymaster on HMS 'Challenger', (1873-4). Some whaling logs and meteorological journals. Papers relating to Royal Navy 19th century exploration. Photograph albums from 'Challenger' Expedition (1872-76). A C Hardy's watercolours of marine life from the 'Discovery' Expedition (1925-27). Admiralty collection of ships' plans. 'Sir James Caird', small boat in which Shackleton sailed from Elephant Island to South Georgia in 1915.

165. NATIONAL METEOROLOGICAL ARCHIVE
Eastern Road, Bracknell, Berkshire RG12 2UR
T. (0344) 420242 x2521 Tx. 849801

Access: Open **Services:** P, M, X

Holdings: Documents

Timespan: From 1800

Area: Unrestricted

Detail: Da, c; Mb. Over 100 000 volumes of ships' weather logs held, from mid-19th century onwards.

166. NATIONAL MUSEUMS AND GALLERIES ON MERSEYSIDE, LIVERPOOL MUSEUM
William Brown Street, Liverpool L3 8EN
T. (051) 207-0001 Tx. -

Access: Restricted **Services:** X, P

Holdings: Apparatus, Samples, Documents

Timespan: From 1778

Area: Unrestricted

Detail: Ab,d,f,q; Sb,c; Db,c,d,e; Ma. Maritime archives connected with the port of Liverpool and BICC plc archive (submarine cables). Models of cable-laying vessels 'Great Eastern' (1888) and 'Fee Cheu' (1887). Oceanographic apparatus including items from the former Liverpool Tidal Institute (now Proudman Oceanographic Laboratory) with some papers of A T Doodson. William Waddington's diatom collection; seaweeds of the Irish Sea. Invertebrate zoology: James Johnstone's fish pathology collection (early 20th century). 'Argo' Expedition to the West Indies (1876) specimens and manuscripts. Collecting diaries c1870 to 1910. Vertebrate zoology: collection of seabird cabinet skins. Collections from HMS 'Challenger' (1872-76).

167. OXFORD UNIVERSITY MUSEUM (GEOLOGICAL COLLECTIONS)
Parks Road, Oxford OX1 3PW
T. (0865) 272950 Tx. -

Access: Restricted **Services:** None

Holdings: Samples

Timespan: 1872-76

Area: Circumnavigation track of HMS 'Challenger' (1872-76).
Detail: Sb. Geological samples from the voyage of HMS 'Challenger' (1872-76).

166. OXFORD UNIVERSITY MUSEUM (ZOOLOGICAL COLLECTIONS)

Parks Road, Oxford OX1 3PW

T. (0865) 272950 Tx. -

Access: Restricted **Services:** P, X

Holdings: Samples, Documents

Timespan: From 1830

Area: Unrestricted

Detail: Sc; Ma. Indo-Pacific specimens from the voyage of HMS 'Challenger' (1872-76); Transit of Venus Expedition (1874); Material collected by Charles Darwin on the voyage of HMS 'Beagle'. Discovery Committee plankton samples, c1927-31.

169. OXFORD UNIVERSITY, PITT-RIVERS MUSEUM

South Parks Road, OX1 3PP

T. (0865) 270927 Tx. -

Access: Restricted **Services:** P, X

Holdings: Samples, Documents

Timespan: From 1800

Area: Unrestricted

Detail: Db; M. Anthropological and ethnographical material, including photographs, collected by survey ships in the 19th century, including HMSS 'Challenger', 'Alert', 'Flying Fish', 'Penguin', 'Dart', mainly from Pacific Ocean.

170. OXFORD UNIVERSITY (ZOOLOGICAL DEPARTMENT)

South Parks Road, Oxford OX1 3PS

T. (0865) 271142 Tx. -

Access: Restricted **Services:** Limited

Holdings: Documents

Timespan: 1872-76

Area: No information

Detail: Volume of 'Challenger' Expedition (1872-76) photographs.

171. PLYMOUTH MARINE LABORATORY (LIBRARY AND INFORMATION SERVICES)

Citadel Hill, Plymouth PL1 2PB

T. (0752) 222772 Tx. -

Access: Restricted **Services:** P, X

Holdings: Apparatus, Samples, Documents

Timespan: From 1870

Area: Mainly British waters

Detail: A; Sc; Da,b,c,d,e; Ma,b,c,d. Archives of the Marine Biological Association of the UK (founded 1884) including correspondence and papers of E J Allen, G P Bidder, E T Browne. Diaries or notebooks of J T Cunningham, L R Crawshaw and Walter Garstang.

172. PROUDMAN OCEANOGRAPHIC LABORATORY

Bidston Observatory, Birkenhead, Merseyside L43 7RA

T. (051) 653-8633 Tx. 628591

oceanb g

Access: Restricted **Services:** X

Holdings: Apparatus, Documents

Timespan: From 1867

Area: Liverpool coast

Detail: Af; D. Meteorological observations, observatory day-books. Doodson-Lege tidal prediction machine.

173. PUBLIC RECORD OFFICE

Ruskin Avenue, Kew, Richmond, Surrey

TW9 4DU

T. (01) 876-3444 Tx. -

Access: Open **Services:** C, P, M, X

Holdings: Documents

Timespan: From 1600

Area: Unrestricted

Detail: Db,c,d,e; Mb. Naval records, including ship's log-books, charts, journals, surveys and papers relating to Admiralty expeditions. Records of the Royal Navy Scientific Service, Admiralty Research Laboratory, Water Pollution Research Board, Kew Observatory, Colonial Office, International Whaling Commission, Ministry of Agriculture and Fisheries, Marine Department of the Board of Trade, Development Commission. Papers of Sir Edward Sabine, A B Wood.

174. ROYAL ALBERT MEMORIAL MUSEUM

Queen Street, Exeter, Devon EX4 3RX

T. (0392) 265858 Tx. -

Access: Restricted **Services:** C(part)

Holdings: Samples

Timespan: From 1800

Area: Unrestricted

Detail: Sc. Echinoderms: Sladen collection (including 'Challenger' material) 5800 specimens. Type material. Foraminifera: Carpenter collection (7000 microscope preparations). Type material. Mollusca: Type material. Montagu and general collections (about 38 000 specimens).

175. ROYAL BOTANIC GARDENS (KEW LIBRARY AND ARCHIVES DIVISION)

Kew, Richmond, Surrey TW9 3EA

T. (01) 940-1171 Tx. 296694

Access: Restricted **Services:** X, M, P

Holdings: Documents

Timespan: 1872-76

Area: Unrestricted

Detail: D; M. Voyage of HMS 'Challenger' (1872-76), letters etc: (i) Documents relating to the organisation of the expedition. (ii) Letters written during the expedition. (iii) "Climate of Kerguelen" by Nares. (iv) Documents relating to the period after the expedition. (v) Documents relating to the botanical collections. Journal kept in HMS 'Herald' (1847-51) by Berthold Carl Seeman (botanist) with papers and correspondence.

- 176. ROYAL GEOGRAPHICAL SOCIETY (ARCHIVES)**
1 Kensington Gore, London SW7 2AR
T. (01) 589-5466 Tx. 933669 rgs!dn g

Access: Restricted **Services:** C, P, M, X
Holdings: Documents
Timespan: From 1830
Area: Unrestricted
Detail: Db,c,d; Ma,c,d. Journals of the voyage of HMS 'Challenger' (1872-76) kept by Lt Pelham Aldrich, Lt Andrew Balfour and Chief Paymaster R R A Richards. Papers of H R Mill (1884-1944). Logs and other papers relating to the British National Antarctic Expedition, (SS 'Discovery')(1901-4). Society archives include correspondence from Sir John Murray, Vaughan Cornish, Fridtjof Nansen, Sir Charles Lyell and others. Index map to James Rennell's Atlantic Current Charts. Journals of Sir Clements Markham in HMS 'Alert' and HMS 'Valorous' (Arctic Expedition of 1875) with notes on deep sea sounding and apparatus developed in the years 1840-73.

- 177. ROYAL GEOGRAPHICAL SOCIETY (MAP ROOM)**
1 Kensington Gore, London SW7 2AR
T. (01) 589-5466 Tx. 933669 rgs!dn g

Access: Open **Services:** X, P
Holdings: Documents
Timespan: From 1600
Area: Unrestricted
Detail: D. Extensive collection of maps and charts, particularly 19th century, covering all aspects of the world's oceans, including oceanographic, geophysical and meteorological items. Mostly printed but includes some manuscript items such as an undated diagram of currents in the Behring Straits.

- 178. ROYAL GREENWICH OBSERVATORY (ARCHIVES)**
Herstmonceux Castle, Hailsham, East Sussex BN27 1RP. * Moving to Cambridge in 1989-90; archives likely to go to Cambridge University Library*
T. (0323) 833171 Tx. 87451 rgobsy g

Access: Open **Services:** C(free), P, M, X
Holdings: Documents
Timespan: From 1675
Area: Unrestricted
Detail: Dc,d; Ma,b,c,d. Records of oceanographic interest exist in the Observatory's own archive and in the Board of Longitude papers (18th century voyages), G B Airy (19th century tidal data), William Christie, Frank Dyson and Harold Spencer Jones. Log of William Wales, astronomer on Cook's second voyage.

- 179. THE ROYAL INSTITUTION (LIBRARY)**
21 Albemarle Street, London W1X 4BS
T. (01) 409-2992 Tx. -

Access: Restricted **Services:** P, X
Holdings: Apparatus, Documents
Timespan: From 1800
Area: Unrestricted
Detail: Am; Dc,d,e; Ma,c,d. Atlantic cable; Michael Faraday; John Davy notebooks.

- 180. ROYAL INSTITUTION OF CORNWALL**
County Museum and Art Gallery, River Street, Truro, Cornwall TR1 2SJ
T. (0872) 72205 Tx. -

Access: Open **Services:** X
Holdings: Documents
Timespan: 19th century
Area: Local
Detail: Db,d. Pilchard fishing industry in Cornwall (ship models, equipment, photographs etc). Notes on natural history and watercolours of British fishes by Jonathan Couch.

- 181. THE ROYAL SOCIETY**
6 Carlton House Terrace, London SW1Y 5AG
T. (01) 839-5561 Tx. 917876

Access: Open **Services:** P, M, X
Holdings: Documents
Timespan: From 1660
Area: Unrestricted
Detail: Db,c,d,e; Ma,b,c,d. The Society's archives contain correspondence and papers on marine research from the mid-17th century to the 20th century; Robert Hooke, Robert Boyle, Sir Robert Moray, tidal observations and theories communicated to the Society in the 19th century. The Society was instrumental in the organisation of the 'Challenger' Expedition (1872-76) and in the publication of its results. It administers the Murray Bequest which in 1933-34 financed the John Murray Expedition to the Indian Ocean in 'Mahabiss' and supported other marine investigations including coral reef studies of the late 19th to early 20th centuries. Correspondence of Sir John William Lubbock.

- 182. SCIENCE MUSEUM (DEPARTMENT OF PHYSICAL SCIENCES)**
Exhibition Road, South Kensington, London SW7 2DD
T. (01) 938-8000 Tx. 21200 scmlib g

Access: Restricted **Services:** C(free), P, M, X
Holdings: Apparatus, Samples, Documents
Timespan: From 1810
Area: Unrestricted
Detail: Aa,b,c,d,f,g,m,p,q; Sib; De.

- 183. SCIENCE MUSEUM LIBRARY**
South Kensington, London SW7 5NH
T. (01) 938-8234 Tx. 21200 scmlib g

Access: Restricted **Services:** P, M, X
Holdings: Documents
Timespan: No information
Area: Unrestricted
Detail: Db; M. Engineers reports on submarine telegraph cables in the Atlantic, 1900-1904, and Pacific, 1901-1921, including a description of SS 'Britannia'. William Whewell (1794-1866), one letter on tidal observations.

184. SCOTT POLAR RESEARCH INSTITUTE
 University of Cambridge, Lensfield Road,
 Cambridge CB2 1ER
 T. (0223) 336540 Tx. -

Access: Restricted **Services:** C, P, M, X
Holdings: Documents
Timespan: From 1900
Area: Mainly Arctic Ocean and Southern Ocean
Detail: Db,c,d,e; Ma,b,c,d. Manuscripts relating to Arctic and Antarctic exploration. Papers of H R Mill and W S Bruce. Records of the Discovery Committee which carried out whaling research in the inter-war period.

185. SOUTH HUMBERSIDE AREA RECORD OFFICE
 Town Hall Square, Grimsby, South
 Humberside DN33 3LH
 T. (0472) 353481 Tx. -

Access: Restricted **Services:** P, X
Holdings: Documents
Timespan: From 1894
Area: Grimsby fishing grounds: (North Atlantic, Barents Sea, White Sea)
Detail: Ma. Grimsby trawler owners' company records.

186. TORQUAY MUSEUM
 529 Babbacombe Road, Torquay TQ1 1HG
 T. (0803)23975 Tx. -

Access: Restricted **Services:** C
Holdings: Samples, Documents
Timespan: 1879-1906
Area: South Devon coast of the English Channel
Detail: Sb; D. Rocks from the English Channel, some collected by A R Hunt from material dredged by trawlers and published by him between 1879 and 1898; others from dredgings made by the Marine Biological Association, 1895-1906, and described by R H Worth FGS. Thin sections.

187. UNIVERSITY COLLEGE LONDON (MANUSCRIPTS DEPARTMENT)
 The Library, University College London,
 Gower Street, London WC1E 6BT
 T. (01) 387-7050 x2617 Tx. -

Access: Restricted **Services:** C, P, M, X
Holdings: Documents
Timespan: From 1826
Area: Unrestricted

Detail: Md. G Herbert Fowler's period in the Department of Zoology, 1891-1909. Archives of "The Society for the Diffusion of Useful Knowledge", which encouraged research on tides, 1826-48.

188. UNIVERSITY COLLEGE LONDON (MUSEUM OF ZOOLOGY AND COMPARATIVE ANATOMY)
 Biology Department, Medawar Building,
 University College London, Gower Street,
 London WC1E 6BT
 T. (01) 387-7050 Tx. -

Access: Restricted **Services:** None
Holdings: Samples, Documents
Timespan: From 1828
Area: No information
Detail: Sc. R E Grant, Porifera spicules; E Ray Lankester, Limulus material; HMS 'Challenger' material; collections by E A Frazer and T A Stephenson on the Great Barrier Reef Expedition, 1928.

189. UNIVERSITY OF EXETER (DEPARTMENT OF BIOLOGICAL SCIENCES)
 Hatherley Laboratories, Prince of Wales
 Road, Exeter EX4 4PS
 T. (0392) 263789 Tx. 42894 exuniv g

Access: Open **Services:** X
Holdings: Documents
Timespan: From 1800
Area: Unrestricted
Detail: D; M. Documentation on all Echinodermata from all oceans.

190. UNIVERSITY OF LEEDS
 Leeds, LS2 9JT
 T. (0532) 431571 Tx. 556473 unilids g

Access: Restricted **Services:** None
Holdings: Documents
Timespan: From 1908
Area: North Sea coast of Britain
Detail: University Archive holds correspondence etc relating to property in Robin Hood's Bay and Whitby, formerly used as university field stations and as the site of the Wellcome Marine Laboratory (1967-82). The unpublished station list is held in the Department of Pure and Applied Biology.

191. UNIVERSITY OF LIVERPOOL (ARCHIVES)
 Senate House, Abercromby Square, PO Box
 147, Liverpool L69 3BX
 T. (051) 794-2000 Tx. 627095 unilpl g

Access: Restricted **Services:** P, X
Holdings: Apparatus, Documents
Timespan: From 1880
Area: No information
Detail: Ab,c; M. Manuscripts relating to Proudman Oceanographic Laboratory; Department of Oceanography; Marine Biological Station, Port Erin, Isle of Man. Notes on lectures by Professor J Proudman.

**192. UNIVERSITY OF SOUTHAMPTON
LIBRARY (HARTLEY LIBRARY AND
ARCHIVES)**

Highfield, Southampton, SO9 5NH
T. (0703) 559122 Tx. -

Access: Restricted **Services:** P, M, X

Holdings: Documents

Timespan: From 1800

Area: Unrestricted

Detail: Dc; Ma, b. Naval log-books; papers of Prince Louis of Battenberg and Earl Mountbatten of Burma. Journal of William Mogg's Arctic voyages, 1821-25.

**193. WELLCOME INSTITUTE FOR THE
HISTORY OF MEDICINE (DEPARTMENT
OF WESTERN MANUSCRIPTS)**

183 Euston Road, London NW1 2BP
T. (01) 387-4477 Tx. -

Access: Open **Services:** C, P, M, X

Holdings: Documents

Timespan: From 1800

Area: Unrestricted

Detail: Dc, d, e; Ma, c. E M Holmes, papers, including correspondence on marine algae; D G Lillie, marine biologist, 'Terra Nova' Expedition (1910-12) papers; G C Wallich, papers, mainly on marine biology; R N Rudmose-Brown, account of the Scottish National Antarctic Expedition (1902-04); Georges Claude.

**194. WHITBY LITERARY AND
PHILOSOPHICAL SOCIETY, WHITBY
MUSEUM**

Pannett Park, Chubb Hill, Whitby, Yorkshire
YO21 1RE

T. (0947) 602908 Tx. -

Access: Restricted **Services:** None

Holdings: Documents

Timespan: No information

Area: Arctic Ocean

Detail: Dc; M. Papers of William Scoresby the Elder and William Scoresby the Younger.

**UNITED KINGDOM
(ISLE OF MAN AND NORTHERN
IRELAND)**

**195. DEPARTMENT OF AGRICULTURE FOR
NORTHERN IRELAND, FISHERIES
RESEARCH LABORATORY**

38 Castleroe Road, Coleraine
T. (0265) 44521 Tx. -

Access: Restricted **Services:** X

Holdings: Samples, Documents

Timespan: 20th century

Area: North Atlantic and Irish Sea

Detail: D. Cruise reports and data for MAFF and DAFF vessels, and charter work. Little before 1950.

196. MANX MUSEUM

Douglas, Isle of Man
T. (0624) 75522 Tx. -

Access: Open **Services:** None

Holdings: Apparatus, Samples, Documents

Timespan: From 1840

Area: Isle of Man, Irish Sea

Detail: Al; Sb, c, d; Ma. Personal and family papers, and some sketches by Edward Forbes including two watercolours of Mediterranean fish. Specimens collected by local fishermen, with a few from the Marine Biological Station, Port Erin.

**198. PUBLIC RECORD OFFICE OF NORTHERN
IRELAND**

66 Balmoral Avenue, Belfast BT9 6UY
T. (0232) 661621 Tx. -

Access: Open **Services:** No information

Holdings: Documents

Timespan: From 1831

Area: Ireland's coastal waters

Detail: Mb. Hydrographic charts of the East and West coasts of Ireland. Journal of Richard Brydges Beechey in HMS 'Blossom' (1825-28).

199. ULSTER MUSEUM

Botanic Gardens, Belfast, BT9 5AB
T. (0232) 381251 Tx. -

Access: Open **Services:** P, M, X

Holdings: Documents

Timespan: Late 19th century

Area: Local waters

Detail: Papers on zoophytes by C Wyville Thomson. Papers of the Belfast Dredging Committee

**200. UNIVERSITY OF LIVERPOOL
(DEPARTMENT OF MARINE BIOLOGY)**

Port Erin, Isle of Man
T. (0624) 832027 Tx. -

Access: Restricted **Services:** C, X

Holdings: Documents

Timespan: From 1902

Area: Irish Sea

Detail: D. Sea surface temperature data.

**UNITED KINGDOM
(SCOTLAND)**

**201. DEPARTMENT OF AGRICULTURE AND
FISHERIES FOR SCOTLAND**

Marine Laboratory, PO Box 101, Victoria
Road, Aberdeen AB9 8DB
T. (0224) 876544 Tx. 73587 marlab g

Access: Restricted **Services:** P, X

Holdings: Apparatus, Samples, Documents

Timespan: From 1880

Area: North-east Atlantic

Detail: A; Sc; Db,d,e,f; Mb,c,d. Papers relating to Scottish fisheries research, in particular the work of the Fishery Board for Scotland, 1882-1939, and the Scottish Home Department's Fisheries Division, 1939-50. T W Fulton, A Bowman, R S Clark are among individuals represented; cruises of 'Garland', 'Goldseeker', 'Explorer', 'Scotia' and other research vessels also represented.

202. DUNDEE UNIVERSITY (ARCHIVES AND MANUSCRIPTS DEPARTMENT)

University Library, Dundee DD1 4HN

T. (0382) 23181 Tx. -

Access: Open **Services:** P, X

Holdings: Documents

Timespan: 1828-1914

Area: No information

Detail: Db; Ma,b. Sir D'Arcy Wentworth Thompson: some papers and photographs relating to his work in the Department of Natural History, University College, c1884-1914. Some papers relating to the whaling industry in the 19th century.

203. ELGIN MUSEUM

1 High Street, Elgin, Morayshire IV30 1WQ

T. (0343) 3675 Tx. -

Access: Restricted **Services:** X

Holdings: Samples, Documents

Timespan: 1832-1893

Area: Northeast Scotland

Detail: Sc; Ma. Correspondence of Dr George Gordon, Minister of Birnie, with A M Norman, J Gwyn Jeffreys, D'Arcy W Thompson, John Murray and others. Fossil fish collections.

204. GLASGOW UNIVERSITY (ARCHIVES)

Glasgow G12 8QQ

T. (041) 330-5516 Tx. 777070 unigla g

Access: Open **Services:** X

Holdings: Documents

Timespan: Unrestricted

Area: Unrestricted

Detail: Db; Ma. Papers of Sir John Graham Kerr, including items relating to the Millport Marine Station (Firth of Clyde). Negatives from the Scottish National Antarctic Expedition (1902-04) in 'Scotia'.

205. GLASGOW UNIVERSITY (DEPARTMENT OF NATURAL PHILOSOPHY)

Glasgow G12 8QQ

T. (041) 339-8855 x5531 Tx.

777070 unigla g

Access: Restricted **Services:** None

Holdings: Apparatus

Timespan: 19th century

Detail: Aa,f. Sounding apparatus, tide gauge, and tidal analyser (1878), and other apparatus developed by Lord Kelvin.

206. GLASGOW UNIVERSITY (LIBRARY)

Hillhead Street, Glasgow G12 8QE

T. (041) 339-8855 x5634 Tx.

777070 unigla g

Access: Restricted **Services:** X

Holdings: Documents

Timespan: No information

Area: No information

Detail: Ma. Papers of Sir William Thomson (Lord Kelvin).

207. NATIONAL LIBRARY OF SCOTLAND (DEPARTMENT OF MANUSCRIPTS)

George IV Bridge, Edinburgh EH1 1EW

T. (031) 226-4531 Tx. -

Access: Open **Services:** P, M, X

Holdings: Samples, Documents

Timespan: From 1762

Area: Unrestricted

Detail: Db,c,d,e; Sc; Ma,b,c. Correspondence and papers of H and H M Cadell (1849-1930); Sir James M Wordie (1845-1959); N A Mackintosh (1924-54); F N Woodward (1919-85), including alginates; Alexander Dalrymple (1762-1807), T S Traill (1818-59); Sir John Murray (1882-1903); William Scoresby (1818-59); Edward Forbes (1841-54); Fridtjof Nansen (1892-1907). Plans of marine engineering works by the Stevenson family, 19th and 20th centuries. Business records and correspondence of John Bartholomew & Son, cartographers, from 1888.

208. NATIONAL LIBRARY OF SCOTLAND (DEPARTMENT OF PRINTED BOOKS)

George IV Bridge, Edinburgh EH1 1EW

T. (031) 226-4531 Tx. 72638 nlsedi g

Access: Open **Services:** C, P, M, X

Holdings: Documents

Timespan: No information

Area: Arctic and Antarctic

Detail: Db. Photographs of whaling, mainly in Antarctica, in the Sir James Wordie collection.

209. NATIONAL MUSEUMS OF SCOTLAND, ROYAL MUSEUM OF SCOTLAND

Chambers Street, Edinburgh EH1 1JF

T. (031) 225-7534 Tx. -

Access: Restricted **Services:** C(part), P, X

Holdings: Apparatus, Samples, Documents

Timespan: 19th and 20th centuries

Area: Mainly North Sea and Polar regions

Detail: Aa,b,c,d,g,p; Tb; Sb,c; Db,c,d,e; Ma,c,d. Scottish National Antarctic Expedition (1902-04) and Scottish Oceanographical laboratory of William Spiers Bruce. HMS 'Challenger' (1872-76) photographs. Mollusca collected by Edward Forbes in the Aegean, by various survey ships, and by the Fishery Board for Scotland, 1901-20 and 1922-35.

- 210. NORTHEAST OF SCOTLAND MUSEUM SERVICE, ARBUTHNOT MUSEUM**
St Peter Street, Peterhead, Aberdeenshire
AB4 6QE
T. (0779) 77778 Tx. -

Access: Restricted **Services:** P, X

Holdings: Documents

Timespan: 18th to 20th centuries

Area: Arctic, Antarctic, Davis Strait

Detail: Dc; Ma. The museum holds items brought back by whalers, and whaling log-books.

- 211. ROYAL RESEARCH SHIP 'DISCOVERY'**
Victoria Dock, Dundee
T. (0382) 201175 Tx. -

Access: Open **Services:** None

Holdings: Apparatus

Timespan: From 1901

Area: Antarctic waters

Detail: Am; Ta. Built for Scott's Antarctic Expedition (1901-04). Adapted in 1924 for oceanographic research in the South Atlantic, 1925-27. Further Antarctic voyages for BANZARE Expedition (1928-30). In process of restoration.

- 212. ROYAL SCOTTISH GEOGRAPHICAL SOCIETY**
10 Randolph Crescent, Edinburgh EH3 7TU
T. (031) 225-3330 Tx. -

Access: Open **Services:** None

Holdings: Documents

Timespan: c1902-04

Area: Unrestricted

Detail: Db; M. Material relating to W S Bruce and the voyage of 'Scotia' (1902-04); possibly slides; flag.

- 213. THE ROYAL SOCIETY OF EDINBURGH**
22-24 George Street, Edinburgh EH2 2PQ
T. (031) 225-6057 Tx. -

Access: Restricted **Services:** X

Holdings: Documents

Timespan: From 1800

Area: Unrestricted

Detail: Db,c; Ma,d. Correspondence on deep-sea deposits of the Atlantic Ocean by Sir John Murray and James Chumley. Film of whaling in the Faeroes.

- 214. SCOTTISH FISHERIES MUSEUM TRUST LTD**
Harbourhead, Anstruther, Fife KY10 3AB
T. (0333) 310628 Tx. -

Access: Open **Services:** P

Holdings: Samples

Timespan: 1884-1899

Area: North Sea and English Channel

Detail: Sc. A few fish specimens collected by W C McIntosh.

- 215. SCOTTISH MARINE BIOLOGICAL ASSOCIATION, DUNSTAFFNAGE MARINE RESEARCH LABORATORY**
PO Box 3, Oban, Argyll PA34 4AD
T. (0631) 62244 Tx. 776216 marlab g

Access: Restricted **Services:** X

Holdings: Documents

Timespan: From 1883

Area: Scottish waters

Detail: Db,c,d,e; Ma,b,c,d. Papers relating to the foundation and work of the Scottish Marine Station at Granton, and its work in the Clyde, 1880s and 1890s. Archives of the Marine Biological Station at Millport, from 1896. Papers of the Bute Marine Biological Committee. Diaries of J T Cunningham (1883-1887).

- 216. SCOTTISH RECORD OFFICE**
West Register House, Charlotte Square,
Edinburgh EH2 4DF
T. (031) 556-6585 x287 Tx. -

Access: Open **Services:** C(part), M, X

Holdings: Documents

Timespan: From 1809

Area: Scottish waters, North Atlantic, North Sea

Detail: Mb. Papers of the Fishery Board for Scotland. Source List No. 9 covers documents on naval and maritime affairs.

- 217. STROMNESS MUSEUM**
52 Alfred Street, Stromness, Orkney
T. (0856) 850025 Tx. -

Access: Restricted **Services:** None

Holdings: Samples

Timespan: From 1900

Area: Orkney coastal waters

Detail: Robert Rendell's collection of Orkney shells and seaweeds.

- 218. UNIVERSITY OF ST ANDREWS, BELL-PETTIGREW MUSEUM (DEPT. OF BIOLOGY AND PRECLINICAL MEDICINE)**
The University, St Andrews, Fife KY16 9TS
T. (0334) 76161 Tx. -

Access: Restricted **Services:** None

Holdings: Samples

Timespan: From c1820

Area: Unrestricted

Detail: Sc. Biological specimens including collections made by W C McIntosh and Sir D'Arcy W Thompson.

- 219. UNIVERSITY OF ST ANDREWS (LIBRARY)**
North Street, St Andrews, Fife KY16 9TR
T. (0334) 76161 Tx. -

Access: Restricted **Services:** C(part), P, M, X

Holdings: Documents

Timespan: 1880-1948

Area: North Sea and British coastal waters
Detail: Ma,b. Papers of William Carmichael McIntosh and Sir D'Arcy Wentworth Thompson. Published catalogue available includes material on the Fishery Board for Scotland and the International Council for the Exploration of the Sea.

- 220. UNIVERSITY OF EDINBURGH (UNIVERSITY LIBRARY)**
 George Square, Edinburgh EH8 9LJ
 T. (031) 667-1011 Tx. 727442 unived g

Access: Open **Services:** C, P, M, X

Holdings: Documents

Timespan: From 1850

Area: Unrestricted

Detail: Da,d,e; Ma,b,c,d. Letters of Alexander Agassiz to Sir C Wyville Thomson and Sir John Murray. Papers relating to the voyage of HMS 'Challenger' (1872-76) and the Scottish Marine Station (1883-1901). Press cuttings of the Scottish National Antarctic Expedition (1902-04). Correspondence of Sir Charles Lyell and Sir Archibald Geikie including discussion of sea level changes. A few tape recordings of interviews with marine scientists.

- 221. UNIVERSITY MARINE BIOLOGICAL STATION**
 Millport, Isle of Cumbrae, KA28 0EG
 T. (0475) 530581 Tx. -

Access: Open **Services:** P, X

Holdings: Apparatus, Samples, Documents

Timespan: From 1880

Area: Clyde Sea area, Atlantic Ocean

Detail: Am; Sc; Db,c,d,e; Ma,d. Papers of Sheina Marshall, including Great Barrier Reef Expedition. David Robertson collections of Scottish West Coast marine fauna. Station archives.

UNITED STATES OF AMERICA

- 222. AMERICAN MUSEUM OF NATURAL HISTORY (LIBRARY AND ARCHIVES)**
 Central Park West at 79th Street, New York NY 10024-5192
 T. (212) 769-5419 Tx. -

Access: Restricted **Services:** P, X

Holdings: Documents

Timespan: From 1943

Area: Atlantic Ocean

Detail: M. Foundation, c1947, and records of Lerner Marine Laboratory, Bimini Island.

- 223. CALVERT MARINE MUSEUM**
 PO Box 97, Solomons, MD 20688
 T. (301) 326-2042 Tx. -

Access: Open **Services:** P, X

Holdings: Apparatus, Samples, Documents

Timespan: From 1930

Area: Chesapeake Bay

Detail: Ab,c,d; Sc; Db; Md. History of Chesapeake Biological Laboratory, Solomons; diving equipment. Patuxent River and Chesapeake Bay fisheries and seafood processing.

- 224. CARNEGIE INSTITUTION OF WASHINGTON (DEPARTMENT OF TERRESTRIAL MAGNETISM)**
 5241 Broad Branch Road NW, Washington DC 20015
 T. (202) 966-0863 Tx. 44027

Access: No information **Services:** No information

Holdings: Documents

Timespan: From 1902

Area: No information

Detail: Department's early oceanographical work and voyages of SY 'Carnegie', but unsorted.

- 225. DARTMOUTH COLLEGE LIBRARY (SPECIAL COLLECTIONS)**
 Hanover, NH 03755
 T. (603) 646-2037 Tx. -

Access: Open **Services:** P, M, X

Holdings: Documents

Timespan: 1850-1940

Area: Polar regions above 60°N and S latitudes

Detail: Db,c,d; Ma,b,c. Vilhjalmur Stefansson (1879-1962); Lady Franklin Bay Expedition (1881-4); Stefansson-Anderson Expedition (1908-12); Canadian Arctic Expedition (1913-18).

- 226. HARVARD UNIVERSITY, MUSEUM OF COMPARATIVE ZOOLOGY (LIBRARY)**
 26 Oxford Street, Cambridge MA 02138
 T. (617) 495-2475 Tx. -

Access: Restricted **Services:** P, M, X

Holdings: Documents

Timespan: From 1865

Area: Unrestricted

Detail: Dc,d,e; Ma,c,d. Louis and Alexander Agassiz. Thayer Expedition to Brazil; 'Albatross' East Pacific Expedition; Maldives Expedition; 'Blake' Expedition; 'Hassler' Expedition. No easy finding aid for original expedition material.

- 227. KAHL SCIENTIFIC INSTRUMENT COMPANY**
 PO Box 1166, El Cajon, CA 92022-1166
 T. (619) 444-2158 Tx. 697906

Access: No information **Services:** No information

Holdings: Apparatus, Documents

Timespan: No information

Area: No information

Detail: Ab,c; M

228. KITTERY HISTORICAL AND NAVAL MUSEUM

PO Box 453, Kittery ME 03904
T. (207) 439-3080 Tx. -

Access: Restricted **Services:** None

Holdings: Apparatus, Documents

Timespan: From 17th century

Area: Atlantic, Northern New England, New Hampshire and Maine coastal waters

Detail: Aj,k; Ta,b; Db,c,d,e; Ma,b,c. Information and dives on local shipwrecks; log-books.

229. LIBRARY OF CONGRESS (MANUSCRIPT COLLECTION)

Washington DC 20540

T. (202) 287-5387 Tx. -

Access: Restricted **Services:** X

Holdings: Documents

Timespan: No Information

Area: No information

Detail: A D Bache (1806-67); Silas Bent (1820-87); G E Belknap (1832-1903); Benjamin Franklin (1706-90); M F Maury (1806-73); J Murray (1841-1914); H Wexler (1911-62); A T Waterman (1892-1967); C Wilkes (1798-1877); H C Gatty (1903-57); US Naval Observatory (1830-1900).

230. NATIONAL OCEAN SERVICE (NOAA)

Office of Oceanography and Marine Assessment N/OMA 1, Room 315, WSC1, 6001 Executive Boulevard, Rockville MD 20852

T. (301) 443-8938 Tx. -

Access: Open **Services:** None

Holdings: Apparatus, Documents

Timespan: From 1807

Area: USA coastal waters

Detail: Aa,c,d,f,i,n,o,q; Ta,c; D; Ma,b. US Coast and Geodetic Survey relics. Tide predicting machine 1895 design.

231. NAVAL HISTORICAL CENTRE (OPERATIONAL ARCHIVES BRANCH)

Washington Navy Yard, Building 57, Washington DC 20374

T. (202) 433-3170 Tx. -

Access: Restricted **Services:** C(free), P, M, X

Holdings: Documents

Timespan: From 1941

Area: Unrestricted

Detail: Ta,b; Dc; Ma,b,c,d.

232. NAVAL HISTORICAL CENTER (PHOTOGRAPHIC SECTION)

Washington Navy Yard, Washington DC 20374-0571

T. (202) 433-2765 Tx. -

Access: Open **Services:** X

Holdings: Documents

Timespan: From 1600

Area: Unrestricted

Detail: M. Photographic coverage of persons, expeditions and ships, about 230 000 indexed images.

233. THE NAVY MUSEUM

Navy Yard, Building 76, Washington DC 20374-0571

T. (202) 433-4882 Tx. -

Access: Open **Services:** None

Holdings: Apparatus, Documents

Timespan: From 1806

Area: Unrestricted

Detail: Ac,d,o,p; Tb; Dc,e; Ma. M F Maury; undersea exploration; full-scale model of 'Alvin'; original 'Trieste'.

234. PRINCETON UNIVERSITY (LIBRARY)

1 Washington Road, PO Box 190, Princeton NJ 08544

T. (609) 452-3184 Tx. -

Access: Open **Services:** P, M, X

Holdings: Documents

Timespan: No information

Area: Unrestricted

Detail: Ma. Harry Hess; Edward Grant Conklin (1863-1952); Philip Wylie (1902-71).

235. SAN FRANCISCO MARITIME NATIONAL HISTORICAL PARK

Fort Mason, Building 201, San Francisco CA 94123

T. (415) 556-3002 Tx. -

Access: No information **Services:** P, X

Holdings: Apparatus, Documents

Timespan: 1879-1920

Area: Pacific Ocean

Detail: Aa,c; Mb. Louis Weule Co. records (HDC-1).

236. SMITHSONIAN INSTITUTION, NATIONAL MUSEUM OF AMERICAN HISTORY (DIVISION OF PHYSICAL SCIENCES)

NMAH 5717, Smithsonian Institution, Washington DC 20560

T. (202) 357-2482 Tx. -

Access: Open **Services:** P, X

Holdings: Apparatus

Timespan: From 1837

Area: Unrestricted

Detail: Aa,b,c,d,g,i,l. C S Piggot's ocean bottom core sampler, c 1835, from Carnegie Institution, Washington. Ferrel's Tide Predictor, c1882.

- 237. SMITHSONIAN INSTITUTION, NATIONAL MUSEUM OF NATURAL HISTORY**
 NMNH Smithsonian Institution, Washington
 DC 20560
 T. No Information Tx. -
Access: Restricted *Services:* None
Holdings: Samples, Documents
Timespan: From 1838
Area: Unrestricted
Detail: Sb,c; Db,c,d,e; Ma,b,c,d. Collections and station records of Fishery Steamer 'Albatross' and Government Vessels 'Oregon', 'Fish Hawk', 'Silver Bay', 'Anton Bruun'.
- 238. SMITHSONIAN INSTITUTION, OCEANOGRAPHIC SORTING CENTER (PLANKTON CENTER)**
 NMNH Smithsonian Institution, Washington
 DC 20560
 T. (301) 238-3797 Tx. -
Access: Restricted *Services:* No information
Holdings: Samples
Timespan: From late 19th century
Area: Gulf of Alaska, North Atlantic, North Pacific
Detail: Sa. International Halibut Commission, Gulf of Alaska Survey (1929-40). US Fish Commission 'Grampus' and 'Fish Hawk' cruises in Western North Atlantic, late 19th to early 20th century; 'Albatross' cruises in North Atlantic and North Pacific, late 19th to early 20th century.
- 239. STANFORD UNIVERSITY (DEPARTMENT OF SPECIAL COLLECTIONS AND UNIVERSITY ARCHIVES)**
 Cecil H Green Library, Stanford University,
 CA94305
 T. (415) 723-4054 Tx. -
Access: Open *Services:* P, M, X
Holdings: Documents
Timespan: From 1873
Area: No information
Detail: M. David Starr Jordan (1851-1931); Edward F Ricketts (1897-1948); Stillman Berry (1887-1984); Cornelius van Niel; Oliver P Jenkins (1850-1935). Hopkins Marine Station. Oral history records.
- 240. TEXAS A & M UNIVERSITY (UNIVERSITY ARCHIVES)**
 Evans Library, College Station, TX 77843-5000
 T. (409) 845-1815 Tx. -
Access: Open *Services:* C, X
Holdings: Documents
Timespan: From 1940
Area: Unrestricted
Detail: M. 55 oral history records.
- 241. UNITED STATES MERCHANT MARINE ACADEMY (LIBRARY)**
 Steamboat Road, Kings Point, NY 11024-1699
 T. (516) 773-5503 Tx. -
Access: Restricted *Services:* None
Holdings: Documents
Timespan: From 1900
Area: No information
Detail: Dc; Md. Ships' logs.
- 242. UNITED STATES NAVAL ACADEMY (MUSEUM)**
 Annapolis, MD 21402-5034
 T. (301) 267-2108 Tx. -
Access: No information *Services:* P, X
Holdings: Documents
Timespan: No information
Area: No information
Detail: M. No other information.
- 243. UNITED STATES NAVAL LIBRARY (THE NIMITZ LIBRARY, SPECIAL COLLECTIONS)**
 Annapolis, MD 21402-5029
 T. (301) 267-2220 Tx. -
Access: Open *Services:* P, X
Holdings: Documents
Timespan: 1759-1940s
Area: Unrestricted
Detail: Dc; M. Matthew C Perry's "Thermometrical Journal" in USS 'Cyane' (1820). Over 100 19th century ships' logs.
- 244. UNIVERSITY OF CALIFORNIA (BODEGA MARINE LABORATORY)**
 PO Box 247, Bodega Bay CA 94923
 T. (707) 875-2015 Tx. -
Access: Restricted *Services:* X
Holdings: Documents
Timespan: From late 1920s
Area: Central Californian coast
Detail: Db,d,e; M. 31 volumes of student reports with original photographs, data and drawings, from research studies.
- 245. UNIVERSITY OF CALIFORNIA, SAN DIEGO, SCRIPPS INSTITUTION OF OCEANOGRAPHY (ARCHIVES)**
 Mail Code C-0756, La Jolla CA 92093-0175
 T. (619) 534-4878
 Tx. 9103371271 ucwwd slo sdg
Access: Restricted *Services:* C(free), P, X
Holdings: Samples, Documents
Timespan: From 1850
Area: Unrestricted

Detail: Ta; Sb,c; Da,b,c,e; Ma,c,d. William E Ritter (1856-1944); Thomas Wayland Vaughan (1870-1952); Roger Revelle (1909-); John Isaacs (1913-80); H William Menard (1920-1986). Joseph Matkin letters documenting voyage of HMS 'Challenger' (1872-76). Oral history records.

**246. UNIVERSITY OF SOUTHERN CALIFORNIA
(HANCOCK LIBRARY OF BIOLOGY AND
OCEANOGRAPHY)**

Los Angeles CA 90089-0372

T. (213) 743-6005 Tx. -

Access: Restricted **Services:** X

Holdings: Documents

Timespan: From 1940

Area: Pacific rim

Detail: D. 'Velero IV' Expeditions.

**247. UNIVERSITY OF TEXAS AT AUSTIN
(HARRY RANSOM RESEARCH CENTER)**

PO Box 7219, Austin TX 78713-7219

T. (512) 471-9119 Tx. -

Access: No information **Services:** C, P, M, X

Holdings: Documents

Timespan: From 1820

Area: No information

Detail: Db,c,e; Mc. Maurice Ewing (1926-73). 'Vema' and 'Conrad' cruises. Prehistory of Woods Hole and L-DGO. Royal Meteorological Society of London archive, includes John Murray (1841-1914) letters.

**248. WOODS HOLE OCEANOGRAPHIC
INSTITUTION (DATA LIBRARY)**

McLean Laboratory, Quissett Campus,
Woods Hole MA 02543-1098

T. (508) 548-1400 x2471

Tx. 191679 oceaninst wooh

Access: Restricted **Services:** P, M, (for data only) X

Holdings: Apparatus, Samples, Documents

Timespan: From 1897

Area: No information

Detail: Aa,b,c,d,e,f,g,h,i,j,l,m,n,q; Ta,b,c; Sa,b,c,d; Da,b,c,d,e; Ma,c,d. All WHOI cruises, flights and submarine dives including data reports from 1930. 'Alvin' archive, over 1 000 000 underwater photographs and related scientific work from over 2000 dives. World bottom photograph collection, over 4 000 000 negatives. New England climatological data from 1896.

YUGOSLAVIA

**249. INSTITUTE OF OCEANOGRAPHY AND
FISHERIES**

PO Box 114, Moše Pijade 63, 58001 Split

T. (058) 46-688 Tx. -

Access: No information **Services:** X

Holdings: Apparatus, Samples, Documents

Timespan: From 1920

Area: Adriatic Sea

Detail: Ac,d,e,f,h,i,j,l,m,n; Ta; Sa; D; Mc,d

250. POMORSKI MUSEJ 'SERGEJ MAŠERA'

Cankarjevo Nabrežje 3, Piran, 66330 SR
Slovenija

T. (0038) 66-73768 Tx. -

Access: Open **Services:** C, P

Holdings: Documents

Timespan: No information

Area: Unrestricted

Detail: Dc; Mb,c,d.

**251. RUĐER BOŠKOVIĆ INSTITUTE, CENTRE
FOR MARINE RESEARCH**

Ul Giordano Paliaga 5, 52210 Rovinj

T. (052) 811-544 Tx. -

Access: Restricted **Services:** X

Holdings: Apparatus, Samples, Documents

Timespan: From 1900

Area: Adriatic Sea

Detail: Ab,l,m; Sc; Dd; Ma. Herbarium Zaratín "Flora Marina Adriatica".

ADDENDUM

The following entries were received too late for inclusion in the main text.

ALGERIA

- A. INSTITUTE DES SCIENCES DE LA MER ET DE L'AMENAGEMENT DU LITTORAL**
BP 90, 1er Novembre, Alger
T. (02) 64-85-66 Tx. 67523 Ismal dz
Access: Open *Services:* P, X
Holdings: Apparatus, Samples, Documents
Timespan: 19th century
Area: Unrestricted
Detail: Aa,b,c,d,h,i,l,m,s: Sa,c; Ma,b,c,d. Inst. Maritime de Bou-Ismaïl; Prof. Bernard.

BRAZIL

- B. SERVIÇO DE DOCUMENTAÇÃO GERAL DA MARINHA (DEP. DE MUSEU NAVAL, ARQUIVO E BIBLIOTECA)**
Praça Barão de Ladario s/n, Ilha das Cobras, 20091 Rio de Janeiro
T. (021) 233-9165 Tx. -
Access: Restricted *Services:* C, P, M, X
Timespan: 19th and 20th centuries
Area: Atlantic Ocean, Antarctic
Detail: Aa,c,d,j; Ta; Da,b,c,d,e; Ma,b,c,d. Material from Brazilian research institutes. Oceanographic ship 'Almirante Saldanha'.
- C. SERVIÇO DE DOCUMENTAÇÃO GERAL DA MARINHA**
Rua D. Manuel 15, Centro, 20010 Rio de Janeiro
T. (021) 221-7626 Tx. -
Access: Restricted *Services:* C, P, X
Holdings: Apparatus, Documents
Timespan: 19th and 20th centuries
Area: Unrestricted
Detail: Aa,b,c,n; Dd,e; Ma,b,d. Material from the Brazilian Hydrographic Service.

ITALY

- D. ISTITUTO IDROGRAFICO DELLA MARINA**
Passo Osservatorio 4, 16134 Genova
T. (010) 265451 Tx. 270435 maridr i
Access: Restricted *Services:* No information
Holdings: Apparatus, Documents
Timespan: From 1872
Area: No information
Detail: Aa,b,c,d,g,m,o,p; M. Original apparatus designed by Admiral Magnaghi.

UNITED STATES OF AMERICA

- E. LIBRARY OF CONGRESS (GEOGRAPHY AND MAP DIVISION)**
Washington DC 20540
T. (202) 707-6277 Tx. -
Access: Open *Services:* P, M, X
Holdings: Documents
Timespan: From 1600
Area: Unrestricted
Detail: M. Nautical charts, sea atlases, coasting pilots, portolan charts.

EGYPT

- F. NATIONAL INSTITUTE OF OCEANOGRAPHY AND FISHERIES (NIOF)**
Mediterranean Branch, Kayet Bay, Alexandria
T. (03) 801553 Tx. 93069 asrt-un
Access: Open *Services:* C, X
Holdings: Documents, Samples, Apparatus
Timespan: 19th and 20th centuries
Area: Unrestricted, with special emphasis on Mediterranean and Red Sea
Detail: Apparatus from John Murray/Mabahlss Expedition 1933/34 and history of the Institution.
- G. NATIONAL INSTITUTE OF OCEANOGRAPHY AND FISHERIES (NIOF)**
Ghardaqa Research Station, Ghardaqa (Hurghada), Red Sea
T. (062) 440414 Tx. 93069 asrt-un
Access: Open *Services:* C, X
Holdings: Documents, Samples, Apparatus
Timespan: 19th and 20th centuries
Area: Unrestricted, with special emphasis on Red Sea, Gulf of Aden and Indian Ocean
Detail: Collections of fish and corals from the Red Sea, history of the Institution and John Murray/Mabahlss Expedition 1933/34

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UNESCO TECHNICAL PAPERS IN MARINE SCIENCE

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1 Incorporated with Nos. 4, 8 and 14 in No. 27	1965	WG 10	16 Sixth report of the joint panel on oceanographic tables and standards, Kiel, 24-26 January 1973; sponsored by Unesco, ICES, SCOR, IAPSO	1974	WG 10
2 Report of the first meeting of the joint group of experts on photosynthetic radiant energy held at Moscow, 5-9 October 1964. Sponsored by Unesco, SCOR and IAPSO	1965	WG 15	17 An intercomparison of some current meters, report on an experiment of Research Vessel Akademik Kurchatov, March-April 1970, by the Working Group on Current Velocity Measurements; sponsored by SCOR, IAPSO, Unesco	1974	WG 21
3 Report on the intercalibration measurements in Copenhagen, 9-13 June 1965. Organized by ICES	1966	—	18 A review of methods used for quantitative phytoplankton studies; sponsored by SCOR, Unesco	1974	WG 33
4 Incorporated with Nos. 1, 8 and 14 in No. 27	1966	WG 10	20 Ichthyoplankton. Report of the CICAR Ichthyoplankton Workshop-Also published in Spanish	1975	—
5 Report of the second meeting of the joint group of experts on photosynthetic radiant energy held at Kauizawa, 15-19 August 1966. Sponsored by Unesco, SCOR, IAPSO	1966	WG 15	21 An intercomparison of open sea tidal pressure sensors. Report of SCOR Working Group 27: "Tides of the open sea"	1975	WG 27
6 Report of a meeting of the joint group of experts on radiocarbon estimation of primary production held at Copenhagen, 24-26 October 1966. Sponsored by Unesco, SCOR, ICES	1967	WG 20	22 European sub-regional co-operation in oceanography. Report of Working Group sponsored by the Unesco Scientific Co-operation Bureau for Europe and the Division of Marine Sciences	1975	—
7 Report of the second meeting of the Committee for the Check-List of the Fishes of the North Eastern Atlantic and on the Mediterranean, London, 20-22 April 1967	1968	—	23 An intercomparison of some currents meters, III. Report on an experiment carried out from the Research Vessel Atlantis II, August-September 1972, by the Working Group on Continuous Velocity Measurements: sponsored by SCOR, IAPSO and Unesco	1975	WG 21
8 Incorporated with Nos. 1, 4 and 14 in No. 27	1968	WG 10	24 Seventh report of the joint panel on oceanographic tables and standards, Grenoble, 2-5 September 1975; sponsored by Unesco, ICES, SCOR, IAPSO	1976	WG 10
9 Report on intercalibration measurements, Leningrad, 24-28 May 1966 and Copenhagen, September 1966; organized by ICES	1969	—	27 Collected reports of the joint panel on oceanographic tables and standards, 1964-1969	1976	WG 10
10 Guide to the Indian Ocean Biological Centre (IOBC), Cochin (India), by the Unesco Curator 1967-1969 (Dr. J. Tranter)	1969	—	28 Eighth report of the joint panel on oceanographic tables and standards, Woods Hole, U.S.A., sponsored by Unesco, ICES, SCOR, IAPSO	1978	WG 10
11 An intercomparison of some current meters, report on an experiment at WHOI Mooring Site "D", 16-24 July 1967 by the Working Group on Continuous Current Velocity Measurements. Sponsored by SCOR, IAPSO and Unesco	1969	WG 21	29 Committee for the preparation of CLOFETA-Report of the first meeting, Paris, 16-18 January 1978	1979	—
12 Check-List of the Fishes of the North-Eastern Atlantic and of the Mediterranean (report of the third meeting of the Committee, Hamburg, April 1969)	1969	—	30 Ninth report of the joint panel on oceanographic tables and standards, Unesco, Paris, 11-13 September 1978	1979	—
13 Technical report of sea trials conducted by the working group on photosynthetic radiant energy, Gulf of California, May 1968; sponsored by SCOR, IAPSO, Unesco	1969	WG 15	32 Coastal lagoon research, present and future. Report and guidelines of a seminar, Duke University Marine Laboratory, Beaufort, NC, U.S.A. August 1973 (Unesco, IABO).	1981	—
14 Incorporated with Nos. 1, 4 and 8 in No. 27	1970	WG 10			
15 Monitoring life in the ocean, sponsored by SCOR, ACMRR, Unesco, IBP/PM	1973	WG 29			