



REGIONAL SEAS

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Marine mammal database review

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PREFACE

The Global Plan of Action for the Conservation, Management and Utilization of Marine Mammals (MMAP) was developed between 1978 and 1983 jointly by the United Nations Environment Programme (UNEP) and the United Nations Food and Agriculture Organization (FAO) in collaboration with other intergovernmental and non-governmental bodies concerned with marine mammal issues, particularly the International Whaling Commission (IWC), the International Union for Conservation of Nature and Natural Resources (IUCN) and the Convention on International Trade in Endangered Species of wild Flora and Fauna (CITES). In October 1983, the Plan was revised and updated in the light of comments received at the FAO Committee on Fisheries, and in May 1984 the twelfth session of UNEP Governing Council endorsed the Plan. In June 1984, the IWC endorsed the cetacean component of the Plan at its 36th meeting and in November of that year the General Assembly of the IUCN endorsed the promotion of the Plan as a matter of high priority.

The basic objective of the Plan is "to promote the effective implementation of a policy for marine mammals which is as widely acceptable as possible among the governments and peoples of the world." The Plan was built around five areas of concentration: (1) policy formulation, (2) regulatory and protective measures, (3) improvement of scientific knowledge, (4) improvement of law and its application, and (5) enhancement of public understanding. The Plan was intended to stimulate, guide, assist and, where necessary, co-ordinate the activities of existing organizations of all kind, giving emphasis to international actions, while recognizing the importance of national actions.

The Plan also aims to improvement of the systems for the storage and availability of scientific information relating to marine mammals and their environments.

In January 1991, the Third Meeting of the Planning and Co-ordinating Committee of the MMAP identified marine mammal database support work as a priority area, and recommended (1) a review of marine mammal information held in computer databases, (2) an overview of the information held and how it can be accessed, and (3) an assessment of the compatibility of the database system and the possibility of linking these to generate a distributed marine mammal information system. The present document is a review of the available information on marine mammal databases from 32 countries.

Acknowledgements

Due acknowledgement is given to the numerous people who contributed information to this review, without whom it would not have been possible, and particularly to the IUCN Species Survival Commission for the provision of their contact list which provided many of the original addresses. Vera da Silva (University of Cambridge) kindly obtained additional material during the Chicago meeting of the Society for Marine Mammalogy in early December 1991; Stephen Dale of the Cambridge University Scientifics Periodical Library undertook test searches of on-line databases; Djurdje Cvijovic explored the informal academic networks.

We apologise that accents have not been reproduced in the report.

CONTENTS

	Page(s)
INTRODUCTION	1
METHODS	1
RESULTS	2
RECOMMENDATIONS	4
REFERENCES	5
APPENDICES	
A: Marine Mammal Database Review Address List	A1 - A49
B: Marine Mammal Database Information	B1 - B74
C: Index of Individuals Contacted	C1 - C4
D: Index of Organisations Contacted	D1 - D10
E: Marine Mammal Database Review Questionnaire	E1 - E2

1. Introduction

The World Conservation Monitoring Centre (WCMC) was commissioned by UNEP's Ocean and Coastal Areas Programme Activity Centre (OCA/PAC) to review marine mammal information held in computer databases and to assess the feasibility of establishing a distributed network of marine mammal databases. The report was required for the Planning and Coordinating Committee meeting (January 1992) of the Global Plan of Action for the Conservation, Management and Utilization of Marine Mammals (MMAP).

This review follows Recommendation 9 of the Report of the FAO Advisory Committee on Marine Resources Research (ACMRR) Working Party on Marine Mammals originally put forward at a meeting in 1973 to 're-examine the adequacy of existing abstracting and bibliographic services, newsletters and other vehicles of scientific communication with respect to marine mammals and their environment and submit proposals for their improvement', and also pertains to Recommendation 3 of the ACMRR report: 'maintaining a register or relevant legislation' (FAO, 1978).

For the purpose of this review, marine mammals were taken to include: cetaceans, pinnipeds, sirenians, polar bears and sea otters.

2. Methods

Three broad strategies were adopted:

- 2.1 A covering letter and questionnaire (Appendix E) were sent to over 450 organizations and individuals worldwide. Addressees were identified through the relevant IUCN Species Survival Commission Specialist Groups, published sources and personal contacts. Appendix A provides a complete list of contacts.

The aim was to provide wide geographical and specialist coverage. All contacts were regarded as potential holders of computerised information on marine mammals, and addressees were encouraged to respond with details of information held, regardless of the existing degree of computerisation, so that the review could assess the potential for future increases in both the extent and types of information computerised.

- 2.2 On-line databases potentially holding information on marine mammals were also identified from published sources, and as many test searches as possible were conducted using the Cambridge University Scientific Periodicals Library, the Bath Information and Data Services (BIDS) of the Cambridge University Library Institute for Scientific Information and other Cambridge University on-line systems.
- 2.3 The academic computer networks were sampled in an effort to explore the more informal data exchange systems.

3. Results

The test-search of the academic networks did not reveal any marine mammal databases as such, but only a small area was searched. It was interesting, however, to find various systems in operation which could serve as models.

About one in three of the letters evoked responses. A few responders expressed positive interest in co-operating in a distributed system, while a few were very much against the idea. While about 25% of responders, particularly from the larger organizations, said that they did not hold any relevant information, it is known from other sources that, in several cases, such information is held or likely to be held, and these could be investigated further. A number of responses gave contact details for other sources and, where possible, these were followed up. It is clear that most responders either have computerized their data, or propose to do so. The systems in use range from large fully computerized databases available on-line or in portable form, to small collections held by individuals in personal computers. Conditions of access vary, but most are accessible at least to bona fide researchers working on co-operative projects.

Computerised information ranges from field data to press reports and iconography, but the most commonly held items are bibliographical. Few responders gave the sources of their bibliographical information, but there is potentially a significant duplication of effort in accumulating essentially the same bibliographical material in many centres.

The contacts in Appendix A are coded by response type:

- i negative responses and those with inappropriate information (n=45);
- n no response (n=293);
- r response with appropriate information (n=126).

Details on information supplied by those contacts coded r are provided in Appendix B, and the tables below are based on analyses of this information. To facilitate an analysis of the replies, four aspects were coded:

- * type of information - whether bibliographic or other;
- * percent of information held already computerised;
- * access to information;
- * hardware in use.

Such an analysis is obviously limited by the degree to which free-text responses can be firmly assigned to particular categories. However, bearing in mind these limitations, the analyses below are helpful in describing the current state of marine mammal databases.

Some 110 responses indicated a degree of computerisation (Table 1). Of these, the most commonly used hardware type was IBM-PC, although a number of responses did not include information on hardware. Over half the computerised databases were completely computerised (58). A variety of software is in use (see Appendix B) and no attempt was made to categorise this aspect. Some software implications are discussed in the Recommendations section below.

Information types were categorised as bibliographic or 'other'. Many of the databases included both types of information (52 responses). The category 'other' could be broken down further (e.g. cetaceans, polar bears, sightings, catch statistics, distribution, conservation). The degree to which databases, holding information in each of these major categories, are computerised, and the conditions for access are shown in Tables 2 and 3.

TABLE 1. ANALYSIS OF TECHNICAL INFORMATION							
Percent Computerized	IBM-PC	Macintosh	Mainframe Mini	WANG	CD ROM	Unspecified	Total
100%	16	2	3	0	9	29	58
50-99%	11	4	5	1	0	7	25
1-49%	17	5	3	0	0	6	27
0%	2	0	0	0	0	15	17
Total	46	11	11	1	9	57	127

NOTE: Some respondents are using several different types of hardware

TABLE 2. COMPUTERISATION AND ACCESS TO DATABASES ON BIBLIOGRAPHY					
Percent Computerized	Online	Future Online	Available	Not Avail	Total
100%	27	1	7	2	37
50-99%	1	2	15	0	18
1-49%	0	3	9	3	15
0%	0	1	3	0	4
Total	28	7	34	5	74

Of the 29 existing on-line databases, only one provides access to non-bibliographic material, however, 13 responses intended or were willing to provide on-line access to such material.

In both Tables 2 and 3, the largest number of responses on accessibility had no current or planned on-line facility, but indicated that the data were available: this is a major factor which should encourage action towards increased access and data exchange.

TABLE 3. COMPUTERISATION AND ACCESS TO DATABASES ON NON-BIBLIOGRAPHIC ('OTHER') MATERIAL					
Percent Computerized	Online	Future Online	Avail-able	Not Avail	Total
100%	1	3	15	3	22
50-99%	0	3	19	0	22
1-49%	0	6	11	2	19
0%	0	1	4	0	5
Total	1	13	49	5	68

4. Recommendations

Several options exist to facilitate broader access to information and data in this area.

1. On-going development, maintenance and distribution of this review. Distribution could be via paper, electronic files, or eventually on-line access.
2. Development of a network providing easy electronic communications among persons working in this field. Ideally, this would include direct connections with existing and potential on-line databases. Individual databases would continue to be maintained as they are now, but the network would provide a "one-stop shopping service" for information. One model for this is the Microbial Strain Data Network which links existing databases on four continents.
3. A new bibliographic database could be developed which would draw upon the "grey literature" now held by many individual researchers. This would supplement the commercial bibliographic databases such as BIOSIS, and a number of responses indicated direct support for such a development. This could be a part of the network described in 2. above, or it could be distributed in paper or electronic copy.
4. A collection could be maintained and be made available to future users of existing data which might otherwise be lost or be difficult to locate or access. This would simply be one or more data archives which could be of substantial value in monitoring trends, or facilitating other work with the data. No attempt would be made to standardize the data. However, it would be catalogued and described.
5. There may be a valuable role in encourage standards for facilitating exchange of data and in making data from disparate sources easier to integrate. Such standards might include methods and even tools for coding or reporting such things as taxonomy and geographic location, etc. If such standards existed, then the problems of different hardware and software would become less important. For example, the data for this review was initially collected on a MacIntosh, but the final collation and analysis was done with IBM-PC compatible computers using different software.

A key factor in the success of the above options would be the willingness of persons working in this field to provide access to their data. Technology increasingly provides some attractive options, but the crucial factor is the ability to supply useful information and services whether using new or old

technology.

5. References

FAO (1978) Mammals in the Seas. Vol. I. Report of the FAO Advisory Committee on Marine Resources Research Working Party on Marine Mammals. *FAO Fisheries Series* 5(1).

APPENDIX A

MARINE MAMMAL DATABASE REVIEW: ADDRESS LIST

Addresses are listed alphabetically by country, organisation and individual. Record numbers (left of each column) cross-refer to other Appendices. Letter codes are assigned as follows:

- i negative responses and those with inappropriate information;
- n no response;
- r response with information, included in Appendix B.

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Mr Steven C. Amstrup

TEL: +1 907 7863424
FAX: +1 907 7863636
- 448 r** Sirenia Project Leader
US Fish & Wildlife Service
National Ecology Research Centre
412 N.E. 16th Ave, Room 250
Gainesville, FL 32601
USA
Dr Thomas J. O'Shea

TEL: +1 904 872 2571
FAX: +1 904 374 8080
- 449 r** Piedras Blancas Research Station
US Fish & Wildlife Service
P.O. Box 70
San Simeon, CA 93452
USA
Dr Galen B. Rathbun

TEL: +1 805 927 3893
FAX: +1 805 927 3308
- 450 n** US Fish and Wildlife Service
4230 University Drive
Suite 310
Anchorage, Alaska 99508
USA
Mr Scott Schliebe

TEL: +1 907 5611239
FAX: +1 907 5611258
- 451 n** Pacific Area Office
Protected Species Management Branch
US National Marine Fisheries Service
2570 Dole Street Rm 106
Honolulu, Hawaii 96822-2396
USA
Eugene T. Nitta

TEL: +1 808 955 8831
FAX: +1 808 942 2062
- 452 r** PO Box 573
Woods Hole, MA 02543
USA
Nathalie F.R. Ward

TEL: +1 508 564 5241
FAX: +1 508 540 6002

- 453 r** Wild Dolphin Project
21 Hepburn Ave.
Suite 20
Jupiter, Florida 33458
USA
Denise Lore Herzing

TEL: +1 407 575 5660 or 5681
FAX: +1 407 575 5681
- 454 i** World Resources Institute
1709 New York Avenue, N.W.
Washington, DC 20006
USA
Dr Kenton Miller

TEL: +1 202 638 6300
TLX: 64414 WRIWASH
FAX: +1 202 638 0036
- 455 r** Zoological Record Online
BIOSIS
2100 Arch Street
Philadelphia, PA 19103
USA

TEL: +1 215 587 4800
TLX: 83 1739
FAX: +1 215 587 2016
E-MAIL: EasyLink G 2889584
- 456 n** Minister
Ministry of Agriculture, Forestry and
Fisheries
Port Vila
VANUATU

TEL: +678 2525 x 33
TLX: 1040 VANGOV
- 457 n** Board of Directors
FUDENA
Apartado 70376
Caracas 1071-A
VENEZUELA
Mrs Cecilia Montemayor de Blohm

TEL: +58 2 2382930
TLX: 23280 HIDEVC
FAX: +58 2 2396547
- 458 n** Fundacion BIOMA
Apartado Postal 1968
Caracas 1010-A
VENEZUELA
Dr Aldemaro Romero

TEL: +58 2 5713120
FAX: +58 2 5711412
- 459 n** Servicio Autonomo Profauna-MARNR
Apartado 184
Maracay-Edo. Aroguis
VENEZUELA
Mr Francisco Bisbal

TEL: O: +58 43 838264
FAX: +58 43 5453912
- 460 n** Instituto de Zoologia Tropical
Facultad de Ciencias
Universidad Central de Venezuela
Apartado 47058
Caracas 1041-A
VENEZUELA
Prof Juhani Ojasti
- 461 n** Department of Agriculture, Forests and
Fisheries
PO Box 206
Apia
WESTERN SAMOA

TEL: +685 20369, 22561
TLX: 221
- 462 n** Faculty of Science
San'a University
PO Box 1247
San'a
YEMEN ARAB REPUBLIC

TEL: +967 2 200514
TLX: 2468

463 r Croatian Biological Society
Medical School
University of Zagreb
Salata 3
41000 Zagreb, Republic of Croatia
YUGOSLAVIA
Professor D. Sherman

TEL: +38 41 271 188, 272 050 H: 410
823

FAX: +38 41 424 001, 272 050 H: 410
823

464 n Departement de l'environnement
Division des peches
15 Ave des Cliniques
Zone de Gomba
PO Box 12348
Kinshasa
ZAIRE

TEL: +243 12 30235, 31252, 32668

APPENDIX B

MARINE MAMMAL DATABASE INFORMATION

List is ordered by country, organisation and individual. Included are all responses containing information appropriate to the Marine Mammal Database Review. These contacts are coded with reply type 'r' in Appendix A. Record numbers cross-refer to other Appendices.

Record Number: 5

Contact: Centro Austral de Investigaciones Cientificas
Sarmiento 44
9410 Ushuaia, Tierra del Fuego
ARGENTINA
Ms R. Natalie P. Goodall

TEL: +54 901 22742 or 22743
TLX: 88602 CADIC AR
FAX: +54 901 22318

Coverage: cetaceans, pinnipeds.
Subjects: bibliography, osteology, computerized text of papers.
Size: osteology 1,700 specimen records, 1974 to present, Southern South America (Argentina, Chile).
Source: osteology: English, some Spanish; personal records; updating irregular.
Status: not given
Access: conditions not yet decided; disk, hard copy
Technical: Macintosh; MS DOS, D-Base. **Database Manager:** Alejandro R. Galeazzi

Record Number: 8

Contact: Australian Biological Resources Study
PO Box 636
Canberra ACT 2601
AUSTRALIA
Dr Graham J.B. Ross

TEL: O: +61 6 250 9435 H: 286 4350
FAX: +61 6 250 9448

Coverage: cetaceans, pinnipeds.
Subjects: ziphiid records, Southern Hemisphere; skull morphometrics, Australian delphinids, mostly strandings; skull morphometrics, Australian otariids.
Size: ziphiids - 800, from 1835 to 1988; delphinids - about 200 (*Tursiops*, *Delphinus*, *Sousa*, *Pseudorca*) up to mid-1983; seals - 300 from 1900 - 1968.
Source: in English; ziphiids - Mead files at Smithsonian, Baker at NZ National Museum, South African database, RNP Goodall, A. Lichter; delphinids - museum specimens; seals - for Australia, New Zealand and Macquarie Island, from 1900 to 1968, research by D. Mackenzie and G. Ross.
Status: ziphiids and seals - 100% computerized; delphinids - 50% and 50% card file.

Access: ziphiids - after completion of project; delphinids - freely available upon a collaborative basis, subject to museum approval; seals - to be decided on completion of project in consultation with D. Mackenzie; via floppy disk only.
Technical: IBM PC; MS DOS, LOTUS 1-2-3; output 1-2-3 file, ASCII.
Docs: ziphiids - source of data for publication on beaked whales by International Whaling Commission (IWC).

Record Number: 9

Contact: Australian Marine Research in Progress (AMRIP)
Commonwealth Scientific Industrial Research Organization (CSIRO)
Information Resources Unit
314 Albert Street
East Melbourne, VIC 3002
AUSTRALIA

TEL: +61 3 418 7333
TLX: 30236 AA
FAX: +61 3 419 0459

Coverage: potential.
Subjects: bibliography - includes oceanography, marine biology, fishing, marine resource management.
Size: contains information on about 2,000 Australian marine research projects, with information on completed projects retained for 5 years.
Source: in English; from surveys conducted by CSIRO; updated annually.
Status: on line service.
Access: CSIRO Australia.
Technical: ~~Database Manager:~~ Commonwealth Scientific Industrial Research Organization (CSIRO) on behalf of the AMRIP Management Advisory Board.
Docs: corresponds in part to Australian Marine Research In Progress (AMRIP), with data on completed projects available only online.

Record Number: 10

Contact: Environmental Resources Information Network (ERIN)
Australian National Parks and Wildlife Service (ANPWS)
GPO Box 636
Canberra, ACT 2601
AUSTRALIA
Wayne Slater

TEL: +61 62 500 383
FAX: +61 62 500 399

Coverage: potential.
Subjects: the ERIN program is to 'provide geographically-related information of a nature, extent, quality and availability required for environmental planning and decision making'.
Size: no data held as of 3 Jan 92, but ERIN plans to undertake strategic requirements analysis for marine conservation and state of marine environment reporting. This will build on sophisticated systems developments/networking already undertaken for the terrestrial environment.

Source: in English; will build on the distributed concept being implemented by ERIN; updating will depend upon data custodians/nodes in network.
Status: not yet implemented.
Access: in process of development.
Technical: SUN SPARC SERVER 690 with SPARC stations, PCs and Mac's; SUNOS 5.4, Oracle, SIRO-DBMS, ARC/INFO, ERDAS, 5-Plus, BIOCLIM, CART, Oracle text retriever in process of evaluation; output in a range of standard formats e.g. text, ARC/INFO etc. **Database-Manager:** Tony Boston, ERIN Database Administrator, Tel: +61 62 500 382
Docs: file descriptions and further documentation planned. Program brief being mailed.
Other: ERIN has a strategic generic computing platform which enables many types of data to be integrated e.g. text, vector, raster, image, pictorial etc. This is done through an object oriented intelligent user interface, the Environmental Decision Support System (EDSS).

Record Number: 11

Contact: Australian National Parks and Wildlife Service (ANPWS)
PO Box 636
Canberra City, ACT 2601
AUSTRALIA
Mr G.R.V. Anderson

TEL: +61 62 500 272
FAX: +61 62 500 399

Coverage: cetaceans.
Subjects: bibliography, strandings, sightings.
Size: for Australian waters, from 1988.
Source: in English.
Status: 100% computerized.
Access: on supply of MS DOS 3.5 or 5.25 HD disk.
Technical: IBM compatible 286 and 386 DC (Hewlett Packard); MS DOS v3.3 or 7; Notebook II and D-base 3; output Dbase or ASCII.
Other: spatial data maintained, but no other marine data, therefore cross-referencing not performed; databases known as "The Australian Cetacean Stranding Database", "Australian Cetacean Reference List", "Whale Sighting Database".

Record Number: 12

Contact: Executive Secretary
Commission for the Conservation of Antarctic Marine Living Resources (CCAMLR)
25 Old Wharf
Hobart, Tasmania 7000
AUSTRALIA
Dr D.L. Powell

TEL: +61 2 30366
TLX: AA57236
FAX: +61 2 23 2714

Coverage: cetaceans, pinnipeds, habitat.

Subjects: monitoring data on selected pinniped colonies, incidental mortality of marine mammals during fishing operations and in discarded gear and marine debris, commercial fisheries catch and effort data, environmental monitoring data (including predator and prey species).

Size: for Antarctic waters, the earliest data are from the 1969/70 season. In addition to management of commercially exploited fish and krill, the Ecosystem Monitoring Program (CEMP) is aimed at detecting changes in the condition, abundance, and distribution of animals not commercially exploited.

Source: research by Member nations, directly commissioned research, catch and effort data submitted in standard form by fisheries.

Status: submitted data are computerized.

Access: procedures for the release of data have been agreed, details available from the Secretariat.

Technical:

Docs: a number of reports are produced each year, including a Statistical Bulletin containing catch and fishing effort data. These data are also sent to FAO for its records on worldwide fisheries.

Record Number: 14

Contact: CSIRO
GPO Box 1538
Hobart, Tasmania 70001
AUSTRALIA
Dr T. Polacheck

TEL: +61 02 20 6312
FAX: +61 01 0530
E-MAIL: InterNet POLACHEC@MI.CSIRO.AU

Coverage: cetaceans.

Subjects: sightings surveys.

Size: mainly harbour porpoise, from eastern USA.

Source: No information provided

Status: No information provided

Access: No information provided

Technical:

Other: these data are a duplication of data held by NMFS-NEFC. NMFS data should be considered the primary source.

Record Number: 34

Contact: Curator, Bermuda Natural History Museum
PO Box FL 145
The Flatts FL BX
BERMUDA
Dr Wolfgang Sterrer

TEL: +1 809 293 2727
FAX: +1 809 293 3176

Coverage: cetaceans.

Subjects: strandings, dry specimens, wet specimens.

Size: 10s of specimens of rare species - (*Kogia breviceps*, *Ziphius cavirostris*) from the 1960s to present, for Bermuda only.
Source: in English; own research; updating irregular.
Status: 50% computerized.
Access: freely available.
Technical:

Record Number: 46

Contact: Arctic Science and Technology Information System
Arctic Institute of North America
The University of Calgary
2500 University Drive NW
Calgary, Alberta T2N 1N4
CANADA

TEL: +1 403 220 4036
TLX: 0182 1545
FAX: +1 403 282 4609 0 astis
E-MAIL: BITNET RGOODWIN@UCDASVM1, Envoy 10

Coverage: potential.
Subjects: bibliography.
Size: contains citations, with abstracts, to worldwide literature on the Arctic and other cold regions, with major emphasis on the Canadian Arctic.
Source: in English; from serials, journal articles, monographs, theses, conference proceedings, published and unpublished research reports; includes life sciences, renewable resources, government, social and economic conditions, native peoples, archaeology, history; about 400 records added every month.
Status: on line service.
Access: QL Systems Limited.
Technical: also available on CD-ROM. **Database-Manager:** Arctic Institute of North America.
Docs: corresponds to ASTIS Current Awareness Bulletin, ASTIS Bibliography and ASTIS Occasional Publications.

Record Number: 51

Contact: Department of Renewable Resources
Government of Northwest Territories
P.O. Box 1320
Yellowknife, Northwest Territories X1A 2N7
CANADA
John Lee

TEL: +1 403 873 7764
FAX: +1 403 873 0293

Coverage: polar bears.
Subjects: survey, sightings, harvest data, distribution maps, film, video, dry specimens, wet specimens, protected areas, habitat, fisheries.
Size: 22,000 records, from 1966 to the present for Canada.
Source: in English, from Canadian research and harvest monitoring, updating annual.
Status: 100% computerized.

Access: no outside access.
Technical: Compaq PC 386/33L; MS DOS, D-base, Lotus, Quickmap; outputs ASCII, D-base etc. **Database-Manager:** Dr Mitchell K. Taylor
Docs: file descriptions available.
Other: flexible integrated marine mammal and habitat analysis system. Database known as "Canadian Federal-Provincial Polar Bear Data Base".

Record Number: 57

Contact: LGL Ltd. Environmental Research Associates
PO Box 250
22 Fisher Street
King City, Ontario LOG 1K0
CANADA
Dr W. John Richardson

TEL: +1 416 833 1244
FAX: +1 416 833 1255

Coverage: cetaceans, pinnipeds, polar bears, marine and polar habitat.
Subjects: bibliography, computerized text (papers and contract reports), sightings, distribution maps (exact positions), photo-id, video, behaviour, fisheries.
Size: 100,000s of records, from 1974 to present, for Canadian Arctic, Newfoundland/Labrador, West Greenland, northern Alaska.
Source: in English; own research; updating irregular.
Status: 80% computerized.
Access: negotiable, cost will vary widely depending on type(s) of data required.
Technical: IBM compatible PC, Digital Eq., VAX; MS DOS, VMS; 3.5 in. or 5.25 in. disk and/or 9-track tape (depending on database).
Docs: various, depending on file required.
Other: marine mammal information can be related to zooplankton and food species distribution data within this system.

Record Number: 62

Contact: Emeritus Professor of Zoology
University of Calgary
Calgary, Alberta T2N 1N4
CANADA
Dr Paul K. Anderson

TEL: O: +1 403 220 5268 H: 9325458
FAX: +1 403 289 9311

Coverage: dugong
Subjects: bibliography, computerized text, survey, sightings, photo-id, photographs, film, video, sound recordings, behaviour, educational, history, protected areas, habitat, etc.
Size: 1975-1989, Australia.
Source: in English; own research; irregular updating.
Status: 10% computerized, rest as card file, notebooks, journals.
Access: payment normally required, may be free to conservation organisations and researchers; output 3.5 in disk, hard copy.
Technical: IBM; DOS, Quatro, XYWrite.

Record Number: 64

Contact: University of Guelph Library Catalog
University of Guelph Library
Guelph, Ontario N1G 2W1
CANADA

TEL: +519 824 4120
FAX: +519 824 6931
E-MAIL: Envoy 100 GUELPH.MAIL

Coverage: potential.
Subjects: bibliography.
Size: contains about 850,000 citations representing about 2.5 million volumes held by the University of Guelph library; from various dates with earliest data from the 16th century.
Source: in English; covers a wide range of academic subjects, from journals, monographs and non-print material; updated weekly.
Status: on line service.
Access: University of Guelph Library.
Technical: also available on CD-ROM. **Database-Manager:** University of Guelph Library.

Record Number: 65

Contact: The Arboretum
University of Guelph
Guelph, Ont. N1G 2W1
CANADA
Professor Keith Ronald

TEL: O: +1 519 824 4120 (2516) H: 8249666
TLX: 06956645 nat glph
FAX: +1 519 763 9598

Coverage: pinnipeds, sirenians, polar bears.
Subjects: bibliography, press, text, survey, sightings, catch data, distribution maps, photo-id, other photographs, film, video, sound recordings, dry specimens, wet specimens, behaviour, legislation, educational, economics, sociology, anthropology, history, habitat, fisheries.
Size: pinniped bibliography - 15,546 items computerized, and hard copy of 9,250 items; from Aristotle to the present, world.
Source: entries in English; published literature, own research, on-line data bases; updating regular.
Status: bibliography 100% computerized, plus 9,200 items hard copy.
Access: access negotiable; via hard copy, disk, personal visit.
Technical: OPENTEXT, INMAGIC; output various. **Database-Manager:** K. Ronald, Director, Institute for Environmental Policy and Stewardship.
Docs: Ronald, K. Annotated Bibliography on Pinnipedia Vols I and II; Annotated Bibliography on Seals, Sea Lions and Walrus Vol. III (1991), ICES, Copenhagen; can be integrated with other information in system.

Record Number: 69

Contact: Yukon Bibliography
Boreal Institute for Northern Studies
CW401 Bio. Sci. Building
The University of Alberta
Edmonton, Alberta T6G 2E9
CANADA

TEL: +1 403 432 4409
FAX: +1 403 492 1153 0 ILL.Boreal
E-MAIL: BITNET BINS@UALTAMTYS. Envoy 10

Coverage: potential.
Subjects: bibliography - includes history, native peoples, wildlife.
Size: contains citations, with abstracts, to literature about the Yukon, from 1971 to 1984;
pre-1971 material added occasionally.
Source: in English; about 300 to 400 records added each year.
Status: on line service.
Access: QL Systems Limited.
Technical: ~~Database-Manager:~~ Boreal Institute for Northern Studies.
Docs: corresponds to Yukon Bibliography update series.

Record Number: 72

Contact: Secretary General
Comision Permanente del Pacifico Sur (CPPS)
Teatrinis 20
Of. 93 16638, Agencia 6400-9
Santiago
CHILE
Ambasador Hugo Llanos

TEL: +56 2 672 6652, 672 6654, 695 1101
FAX: +56 2 695 1100

Coverage: Cetaceans, Pinnipeds, marine habitats.
Subjects: published literature, 2700 computerized records about Law of the Sea, marine
biology, and others.
Size: holding information for approximately 20 years concerning cetaceans in the South
Eastern Pacific, including Panama, Colombia, Ecuador, Peru and Chile.
Source: in Spanish; published literature.
Status: 10% computerized, card file, library publications.
Access: freely available in library.
Technical: MS DOD 4.0; WP 5.1; Publisher Ventura; CAS/ISIS
Docs: copy user guide/file
Other: can be used with information about fisheries, protected areas, etc.

Record Number: 92

Contact: Presidente Comision Biologia
Academia de Ciencias Rep. Dominicana
Guarocuya 90
El Millon
Santo Domingo
DOMINICAN REPUBLIC
Prof Idelisa Bonnelly de Calventi

TEL: +1 809 530 6245

Coverage: cetaceans, sirenians.
Subjects: bibliography, sightings, strandings, video, legislation, education, protected areas.
Size: 100s of items; mainly for Dominican Republic coastal waters (Caribbean).
Source: in Spanish; published literature; updating irregular.
Status: 100% computerized.
Access: freely available.
Technical: IBM PC compatible; MS DOS, FOXBASE.
Docs: file descriptions available.
Other: can be related to other parts of the Marine Biological Program of the Dominican Republic, to the CIBIMA Marine Mammal Project, which is research work on Dominican whales, and to the Silver Bank Sanctuary Commission for the protection of humpback whales.

Record Number: 94

Contact: Proyecto Mamiferos Marinos (CIBIMA)
Universidad Autonoma de Santo Domingo (UASD)
Jonas Salk 56
Santo Domingo
DOMINICAN REPUBLIC
Oswaldo Emiddio Vasquez

TEL: +1 809 685 6682, 533 2364

FAX: +1 809 533 1106

Coverage: cetaceans, sirenians.
Subjects: bibliography, press reports, computerized text (papers, book manuscripts), survey, sightings, strandings, distribution maps, photo-id, other photographs, film, video, sound recordings, behaviour, legislation, education, economics, history, protected areas, habitat.
Size: from 1984 to present, for Silver Bank, Navidad Bank, Samana Bay (Dominican Republic).
Source: in Spanish; from published literature and own research; updating irregular.
Status: 90% computerized.
Access: for whale conservation organizations.
Technical:
Docs: data to be published soon; database known as "Registro Nacional de Mamiferos Marinos".
Other: related to the work of the Caribbean Stranding Network, Silver Bank Sanctuary Commission, Samana Bay YONAH (Year of the North Atlantic Humpback Whale).

Record Number: 104

Contact: Pacific Islands Marine Resources Information System (PIMRIS)
c/o The Library
University of the South Pacific
PO Box 1168
Suva
FIJI
Robyn McDowell

TEL: +679 313 900 x 2233
TLX: FJ 2276
FAX: +679 300 830: Email (Internet) MCDOWELL_RA@USP.AC.NZ

Coverage: cetaceans, sirenians, marine habitat
Subjects: bibliography
Size: University of South Pacific Library Catalogue "Pasifika" - library holding 300,000 volumes including 30,000 from the "Pacific" collection; PIMRIS "Moana" bibliographic database under development of living and non-living resources specific to the South Pacific area (8,000 records)
Source: English; published and semi-published literature from South Pacific Region. Includes holdings of the library collections of the Forum Fisheries Agency (FFA), South Pacific Commission (SPC), South Pacific Geoscience Commission (SOPAC), and various geology and fisheries libraries in the region; updating quarterly
Status: 100% computerized
Access: through PIMRIS at USP library, searches are free. Database will be distributed free on disk to government marine resource libraries (fisheries and geology) and libraries of South Pacific regional organisations (FFA, SPC, SOPAC)
Technical: PC (IBM compatible); DOS, CDS ISIS; database known as "Moana". **Database-Manager:** Ganeshan Rao, PIMRIS Coordinator

Record Number: 110

Contact: Musee Oceanographique
Centre National d'Etude des Mammifères Marins
Port des Minimes
17000 La Rochelle
FRANCE
Dr Anne Collet

TEL: O: +33 46 45 17 87 H: 46 34 57 86
FAX: +33 46 44 99 45

Coverage: cetaceans, pinnipeds, sirenians, polar bears, sea otters, habitats.
Subjects: bibliography, press, text, survey, sightings, strandings, catch data, distribution, photo-id, photographs, film, video, sound recordings, dry specimens, wet specimens, behaviour, legislation, educational, economics, sociology, anthropology, history, protected areas, habitat, fisheries etc.
Size: museum collection - 1000, stranding forms and data - 5,000, sightings data - 10,000, reference - 8,000; from 1970 and historical; France, Europe, world.
Source: entries in French and English; own research and published literature; updated monthly.
Status: museum collection and strandings data - all computerized; references soon to be computerized; sightings - not computerized.

Access: free access to collaborators, others by special arrangement only.
Technical: IBM PC; DOS; D-BASE III and Papyrus.
Other: questions not always clear for non-native English speaker.

Record Number: 113

Contact: Medifaune
Universite de Nice
Laboratoire d'Océanographie Biologique
28 avenue de Valrose
06034 Nice CEDEX
FRANCE

TEL: +33 93 84 91 91
TLX: 970281 UNICE F
FAX: +33 93 52 99 19

Coverage: potential.
Subjects: bibliography.
Size: contains descriptions of about 6,000 Mediterranean marine animal species from 1758 to date.
Source: in French; includes binomial catalogue, first collection date, identification date, world distribution, bathymetric distribution, ecology, biological information and market value; updated as new data become available.
Status: on line service.
Access: Centre interuniversitaire de Calcul de Nice et Toulon (CICNT).
Technical: also available on disk. ~~Database-Manager~~: Universite de Nice, Laboratoire d'Océanographie Biologique.

Record Number: 114

Contact: Laboratoire d'Anatomie Comparee
Museum National d'Histoire Naturelle
57 rue Cuvier
75005 Paris
FRANCE
Dr Daniel Robineau

TEL: +33 1 40 79 30 00
TLX: MUSNAHN 202641 F
FAX: +33 1 40 79 34 84

Coverage: cetaceans, pinnipeds and other marine mammals
Subjects: mainly osteological museum collection and sightings data from the Indian Ocean.
Size:
Source: No information provided
Status: not yet computerized
Access: No information provided
Technical:

Record Number: 115

Contact: Organisation for Economic Co-operation and Development (OECD)
Environment Directorate
2 rue Andre-Pascal
75775 Paris CEDEX 16
FRANCE
Chris Chung

TEL: +33 1 45 24 98 63
TLX: 620160
FAX: +33 1 45 24 78 76

Coverage: potential.
Subjects: OECD has undertaken a study on integrated coastal zone management; some input has been received on living marine resources as well as on administrative, legal and planning of coastal zones.
Size: reports covering 1989-1991.
Source: reports predominantly in English, some in French; prepared by national administrations of 17 OECD countries; updating undecided at present.
Status: no information computerized.
Access: country reports and case study originals not available to the public.
Technical:
Docs: synthesis report to be published in 1992 for general sale.

Record Number: 121

Contact: Klaus Barthelmess
PO Box 62 02 55
5000 Cologne 60
GERMANY

TEL: +49 221 1 74083 96
FAX: via +49 221 251344

Coverage: cetaceans, pinnipeds.
Subjects: bibliography, library, strandings, catch data, photographs, legislation, educational, economics, sociology, anthropology, habitat, fisheries, history of whaling, history of cetology, early whale and seal iconography, historical stranding records.
Size: library - 1,000 volumes, 2,000 pamphlets, 400 old prints; iconographic file - 2,000 images, 1,000 photographs, from all time periods and areas.
Source: Germanic and Romance languages; updating irregular.
Status: 0.3% computerized, rest card file.
Access: personal access may be negotiated for specific research projects.
Technical: Honeywell Bull; CPM, Burotext text processor.

Record Number: 122

Contact: Bundesanstalt für Gewässerkunde (BFG)
Postfach 3 09
Kaiserin-Augusta-Anlagen 15-17
D-5400 Koblenz
GERMANY
Dr Schumacher

TEL: +49 261 13 05 1
FAX: +49 261 1306 302

Coverage: habitat
Subjects: water levels at coastal stations around the North Sea (Tide/Hydaba). Global Run-Off Data Centre (GRDC) has information on river flows world-wide.
Size: 120 coastal stations, 1960 - 1988; river flows - daily readings from 1,470 stations, monthly from 1,266 stations, covering various time periods and 131 countries.
Source: in English for both databases; coastal information from local authorities, updated yearly; river flow information from hydrological stations and published literature, updating irregular.
Status: all computerized.
Access: both data bases freely available on disk or as hard copy.
Technical: PC; MS DOS; ASCII output.
Docs: catalogues available for both Tide/Hydaba and GRDC.

Record Number: 124

Contact: Informationzentrum für Biologie (IZB)
Forschungsinstitut Senckenberg
Senckenberganlage 25
D-6000 Frankfurt am Main 1
GERMANY

TEL: +49 69 7542 350
FAX: +49 69 746238

Coverage: potential.
Subjects: include zoology, zoogeography, behaviour, ecology, paleontology, conservation and environmental protection.
Size: about 30,000 citations on biology from 1970 to present.
Source: in German, with titles and keywords in both English and German; journal articles published in German speaking countries (Austria, Germany, Switzerland), contains only publications not included in BIOSIS PREVIEWS; about 1,000 records added every 2 months.
Status: fully computerized structured database.
Access: prices and information for off-line searches on application to IZB. On-line access through host computer at Deutschen Instituts für Medizinische Dokumentation und Information (DIMDI).
Technical: on-line registration and technical details - including use of GRIPS retrieval language and BIOLIS structure from DIMDI, Postfach 42 05 80, D-5 000 Köln 41, Tel: +49 221 4724 1 FAX: +49 221 411429.
Docs: available from IZB and DIMDI; database known as "BIOLIS".

Record Number: 125

Contact: Informationzentrum für Biologie (IZB)
Forschungsinstitut Senckenberg
Senckenberganlage 25
D-6000 Frankfurt am Main 1
GERMANY
Wolfgang Korth

TEL: +49 69 7542 350
FAX: +49 69 746238

Coverage: cetaceans.
Subjects: bibliography.
Size: about 700 secondary bibliographies from 1833 to 1986, containing about 132,000 references to publications on cetaceans (not checked for repeated citations).
Source: introductory text in English and German; from published literature; no updating plans.
Status: not computerized.
Access: published document, with detailed indexes.
Technical:
Docs: Bekierz, F.W. (1986) Bibliographie über Wal-Bibliographien CETACEA Bibliography on Whale-Bibliographies. Cour. Forsch.-Inst. Senckenberg 88: 1-160.

Record Number: 126

Contact: ELIS
IUCN Environmental Law Centre
Adenauerallee 214
5300 Bonn 1
GERMANY
Françoise Burhenne

TEL: +49 228 2692 231
FAX: +49 228 2692 250

Coverage: cetaceans (78 taxa), pinnipeds (36 taxa), sirenians (7 taxa), polar bears (1 taxon), otters (1 taxon), habitat.
Subjects: bibliography, legislation, legal literature.
Size: about 1,000 texts, including 317 legal documents directly related to protection and management, laws, regulations, treaties and literature on development and implementation of laws in all national languages on worldwide marine mammal protection and habitat; from the date of the earliest acts to the present, with most material from about 1960.
Source: in English, including cross references, indexation and abstracts of most of the legal texts in English; from published texts of laws, government agencies, published literature and personal research; updating irregular for species, daily for entire databank.
Status: bibliographic information 100% computerized, backed up with hard copies of texts.
Access: controlled, hard copy, at cost; not available by networks or other methods.
Technical: IBM 36; Romolus - a package designed in 1980 for the ELIS; output as hard copy only.
Docs: hard copy user guide, file descriptions and system description available.

Other: marine mammal information can be used in conjunction with other aspects of ELIS, for example finding which countries have laws protecting species or aspects of their habitat. It is also possible to examine the ratifications of conventions by state. The database is known as "Environmental Law Information System - ELIS".

Record Number: 141

Contact: Programme for Whale Research
Marine Research Institute (MRI)
PO Box 1390
121 Reykjavik
ICELAND
Dr Johann Sigurjonsson

TEL: +354 1 20240
FAX: +354 1 623790

Coverage: cetaceans.
Subjects: computerized text (papers), surveys, sightings, strandings, catch data, distribution maps (from position data), photo-id, other photographs, video, sound recordings, dry and wet specimens.
Size: Survey and sightings data - North Atlantic Sightings Survey (NASS)-87 and NASS-89, sightings from platforms of opportunity 1967-1991; Icelandic and adjacent seas. Strandings - humpback, minke, sperm, northern bottlenose, killer whales, dolphin spp. and harbour porpoise; 1980-1991; Iceland. Catch data - blue, fin, sei, humpback, sperm whales 1939-1989, minke 1974-1985; Iceland. Distribution maps/catches - 1948-1989 for large whales, 1974-1985 for minke, sightings 1967-1991. Identification photographs - killer and humpback whales 1981-1991; Iceland coastal/offshore. Other opportunistic photographs of all above species; 1987-1990; Icelandic and adjacent waters. Sound recordings of killer whales; 1977-1985; coastal Iceland. Dry/wet specimens of minke whales 1977-1985, fin sei and sperm whales 1967-89; off Iceland.
Source: data from MRI research or catch records of whaling vessels; updating irregular, as data are collected.
Status: most data are computerized in the MRI data files, some have been validated and published.
Access: in general access is only through formal cooperation agreements with MRI. Some data have been made available under restriction to the International Whaling Commission (IWC).
Technical:

Record Number: 153

Contact: Adriatic Sea World - Delphinarium Riccione
Lungomare della Repubblica
47036 Riccione (FO)
ITALY
Leandro A. Stanzani

TEL: +39 2 541 601712
FAX: +39 2 541 606590

Coverage: cetaceans, pinnipeds, marine habitat.

Subjects: library catalogue, papers catalogue, press reports, live strandings, sightings (ECO survey - detection of fish schools), behaviour, dry specimens, wet specimens, photographs, video, sound recordings, educational material, husbandry.
Size: 100's of books and papers; for Italian waters, the Mediterranean and worldwide.
Source: in English, French, Italian etc. from published literature and own research, CSC data; updating irregular.
Status: card file to be computerized; own interactive software giving information about cetaceans (text, pictures, sounds) on Apple Macintosh, for self-service use by the visiting public.
Access: freely available.
Technical: Apple Macintosh LC (main system) and Olivetti M250; File Maker (Apple), Paradox, DB4 (IBM DOS).
Docs: user guide and on-screen menu available for interactive software. Educational posters and books also produced.
Other: habitat information (ECO survey) and marine mammal information can be related within system. Interactive information software system known as "CETAINFO".

Record Number: 156

Contact: Podere Il Falco
Loc. Acquaioli
06062 Citta della Pieve (PG)
ITALY
Dr Sidney J. Holt

TEL: +39 578 298 186 or 299 187
FAX: +39 578 299 186

Coverage: mainly marine cetaceans.
Subjects: diverse, but includes sanctuaries and protected areas, Mediterranean and Indian Ocean, politics of whaling (including newspaper cuttings, press releases, popular articles arranged by country), poster collection from 1970 and other educational materials.
Size: large quantity of material from about 1959.
Source: mostly in English or English translation, some in Italian, Spanish and French.
Status: computerization planned.
Access: requests for information answered according to availability of time, and the nature and purpose of the request. Fees may be negotiated to cover time and direct costs.
Technical:

Record Number: 157

Contact: Tethys Research Institut
Piazza Duca d'Aosta 4
20124 Milano
ITALY
Dr Giuseppe Notarbartolo-di-Sciara

TEL: +39 2 6704385
FAX: +39 2 2940 1987

Coverage: cetaceans.

Subjects: bibliography, survey, sightings, distribution maps, photo-id, other photographs, behaviour.
Size: bibliography - 200 items, about 2,000 photographs, five years of survey and sightings data, for the Mediterranean from 1986 to present.
Source: in English; from own research and published literature in any language; updating weekly.
Status: bibliography 100% computerized, survey and sightings data 80% computerized, photographs uncatalogued.
Access: conditions not yet decided.
Technical: MS DOS; D-base III, INMAGIC; output 3.5 in disk.

Record Number: 159

Contact: Far Seas Fisheries Research Laboratory
5-7-1 Orido
Shimizu
Shizuoka 424
JAPAN
Dr Toshio Kasuya

TEL: +81 543 34 0715
TLX: 03965689 FARSEA J
FAX: +81 543 35 9642

Coverage: cetaceans.
Subjects: text of papers, some survey, sightings, catch data, distribution maps (from position data), other photographs, wet specimens.
Size: personal data - 500 pilot whales, 500 Dall's porpoise, 1,500 striped dolphins, 1,000 spotted dolphins, 200 Baird's beaked whales (includes age and gonad information); 1960s to 1980s; from Japan. All whaling data (Antarctic, North Pacific) available through the International Whaling Commission (IWC).
Source: in Japanese; own research.
Status: some text, processed tables and summaries on computer, most data in notebooks, card file or uncatalogued.
Access: personal data freely available to all, as hard copy.
Technical: MS DOS; output as 5.25 disk or hard copy.

Record Number: 160

Contact: The Institute of Cetacean Research
Tokyo Suisan Building
6th Floor
4-18 Toyomicho
Chuo-k
Tokyo 104
JAPAN
Dr Seiji Ohsumi

TEL: O: +81 3 3536 6521
FAX: +81 3 3536 6522

Coverage: cetaceans

Subjects: bibliography, survey, sightings, strandings, catch data, distribution (exact positions), photo-id, other photographs, film, video, dry specimens, wet specimens, behaviour, educational, economics, sociology, history, protected areas, habitat, fisheries.

Size: collection in the 10,000s of items, from about 1987-1991, for the Antarctic and North Pacific.

Source: entries in Japanese; own research and published literature, including Japanese language sources; updating irregular.

Status: 50% computerized.

Access: access available through cooperative agreements; exchange of data on disk possible.

Technical: details of technical arrangements, output formats and documentation available from database manager (on research leave until April 1992). **Database-Manager:** Dr Yoshihiro Fujise, Chief of Cetacean Ecology Section, Research Division, The Institute of Cetacean Research.

Other: marine mammal information can be integrated with oceanographic and food species information within the system.

Record Number: 179

Contact: Banco de Informacion sobre Medicina Veterinaria (BIVE)
Universidad Nacional Autonoma de Mexico
Biblioteca
Ciudad Universitaria
Circuito Exterior
04510 Mexico DF
MEXICO

TEL: +52 5 50 52 15 x4992
TLX: 1774523 UNAM ME

Coverage: potential.

Subjects: bibliography - includes anatomy, biochemistry, epidemiology, genetics, immunology, hygiene, animal husbandry.

Size: contains about 5,000 citations, to Spanish -language literature on veterinary medicine, from 1984 to the present.

Source: in Spanish; from journals, books, theses, conference proceedings, technical reports, unpublished reports; updating as new data become available.

Status: on line service.

Access: Universidad Nacional Autonoma de Maxico, Servicio de Consulta a Bancos de Informacion (SECOB).

Technical: **Database-Manager:** Universidad Nacional Autonoma de Mexico (UNAM), Facultad de Medicina Veterinaria y Zootecnia.

Record Number: 184

Contact: Institut scientifique des peches maritimes (ISPM)
2 rue de Tiznit
PO Box 21
Casablanca 01
MOROCCO

TEL: +212 202 27 60 88, 26 81 92
TLX: 23823

Coverage: cetaceans, pinnipeds, habitat.
Subjects: bibliography, distribution maps, population surveys, photographs, dry specimens, oceanographic data and habitat photographs.
Size: particular emphasis on monk seal surveys in Morocco, including numbers and approximate ages, and data on water, air, temperature, wind etc., photographs (mostly slides) of monk seals swimming, resting sleeping and of their habitat, some photographs of cetaceans (killer whales), skeletons of one monk seal and one dolphin.
Source: from own research.
Status: not yet computerized.
Access: No information provided
Technical:

Record Number: 185

Contact: Inhaca Marine Biological Station
Faculty of Biology
Eduardo Mondlane University
PO Box 257
Maputo
MOZAMBIQUE
Mr Domingos Zefanias Gove

TEL: +258 1 219 00 09, 219 21 42
TLX: 6 858 UEMAF MO
FAX: +258 1 219 18 96

Coverage: cetaceans, sirenians.
Subjects: computerized text (book manuscripts), survey, sightings, distribution maps, legislation, educational.
Size: 100s of records.
Source: in Portuguese; from own research; updating irregular.
Status: uncatalogued.
Access: not yet decided.
Technical:

Record Number: 188

Contact: Centre ORSTOM de Noumea
Institut francais de recherche scientifique pour le developpement en cooperation
PO Box A5
Noumea
NEW CALEDONIA
Dr Claire Garrigue

TEL: +687 26 10 00
TLX: 3193 NM
FAX: +687 26 43 26

Coverage: cetaceans, sirenians.
Subjects: sightings, including humpback whale, sperm whale and *Dugong dugon*.
Size: about 40 observations at sea, from June to October 1991, around New Caledonia.
Source: in French.
Status: No information provided
Access: No information provided
Technical:

Record Number: 192

Contact: SCITECH Index
New Zealand Department of Scientific and Industrial Research (DSIR)
Library Centre
Private Bag 13
Pentone
NEW ZEALAND

TEL: +64 4 666 919
FAX: +64 4 960 363

Coverage: potential.
Subjects: bibliography - includes biological sciences.
Size: contains about 40,000 citations, to scientific and technical literature published in or about New Zealand, primarily 1980 to date, with some earlier materials.
Source: in English; from papers, reports, books and unpublished reports; updated monthly.
Status: on line service.
Access: Kiwinet.
Technical: **Database-Manager:** New Zealand Department of Scientific and Industrial Research (DSIR) Library Centre.

Record Number: 193

Contact: South Pacific Regional Environment Programme (SPREP)
South Pacific Commission
PO Box D5
Noumea Cedex
NEW CALEDONIA
Paul Holthus

TEL: +687 26 20 00
TLX: 3139 NM SOPACOM
FAX: +687 26 38 18

Coverage: marine mammals.
Subjects: commencing development of a Marine Mammals Conservation Programme (MMCP) for the region within the UNEP Regional Seas Programme.
Size: informal Scientific Advisory Committee (Chairman: Leatherwood) are drawing up a background document on the marine mammals of the region.
Source: No information provided
Status: no computerized database at present.
Access: No information provided
Technical:
Other: as this is a UNEP Regional Seas Programme, it is envisaged that data will be integrated with UNEP and IUCN Global Programmes. This could include serving as a node within a possible network of marine mammal databases.

Record Number: 195

Contact: Dept. of Zoology
University of Otago
P.O. Box 56
Dunedin
NEW ZEALAND
Dr Stephen M. Dawson

TEL: +64 3 479 7980
FAX: +64 3 479 7584
E-MAIL: CETOS@OTAGO.AC.NZ

Coverage: cetaceans, marine habitat.
Subjects: bibliography, photo-id (of Hector's dolphin and Kaikawa sperm whales).
Size: bibliography - 1,000s of items; worldwide English language literature from 1973 to present.
Source: in English; published and 'grey' literature; irregular but frequent updating.
Status: bibliography 100% computerized.
Access: freely available on supply of disk.
Technical: Macintosh; Microsoft Works 2.00d; 3.5 in disk.
Docs: on-screen help.
Other: database known as "Refs".

Record Number: 198

Contact: Department of Economics
Box 1095 Blindern
0317 Oslo 3
NORWAY
Professor Tore Schweder

TEL: +47 2 855144

Coverage: cetaceans.

Subjects: survey.

Size: 1,000s of records, for minke whales, from 1989 to 1990 for the North Atlantic.

Source: in English; from own research.

Status: No information provided

Access: all data will be made available through the International Whaling Commission (IWC) Secretariat.

Technical:

Record Number: 202

Contact: Marine Mammals Division
Institute of Marine Research
PO Box 1870
N-5024 Bergen
NORWAY
Torger Oritsland

TEL: +47 5 238500

FAX: +47 5 238387

Coverage: cetaceans, pinnipeds, marine and polar habitat.

Subjects: bibliography, survey, sightings, mark-recapture, catch data, distribution (exact positions), video, dry specimens, wet specimens, behaviour, habitat (physical, chemical and biological oceanography, fisheries resources), fisheries.

Size: biological data on whales - 100s of records, mainly on minke, but also e.g. killer whales, from 1946 to present for North Atlantic; whale mark-recapture data - 100s of records, mainly on minke, from 1971-1987 for North Atlantic; catch data from Norwegian small-type whaling - 10,000s of records, from 1938 for North Atlantic; biological data on seals - 1,000s of records, from 1951 for North Atlantic and from 1964 for Southern Ocean; age determination of seals - 10,000s of records for harp and hooded seals, from 1978 for North Atlantic; seal tag-recapture of seals - 10,000s of records from 1967 (and more from 1951-1966 not yet computerized) for North Atlantic; seal catch statistics, Norwegian and Soviet sealing - 1,000s of records for harp and hooded seals from 1946 (Norwegian) and 1958 (Soviet) for North Atlantic; marine mammal sightings - 1,000s of records from surveys and occasional observations from 1962 for North Atlantic; marine mammal bibliography - 10,000s of worldwide published literature records from about 1850.

Source: in Norwegian, except seal catch statistics in English and marine mammal bibliography in any language; from own research, data forms on individual whale catches submitted by ships' masters, seal catch data for Norway reported by ships' masters up to 1981, and later from official classified control counts, and officially reported Soviet seal catches; updating for whale and seal catch data yearly, for seal age determination and tag recapture, marine mammal sightings and marine mammal bibliography continuous, otherwise irregular.

Status: biological data on whales - 95% computerized; other databases 100% computerized except seal tag recapture 1951-1966 (catalogued, to be entered into computer) and marine mammal bibliography on card file only.

Access: biological data on whales - on completion of project; whale mark-recapture data on specific request; whale and seal catch data and marine mammal bibliography freely available; biological and age determination data on seals, and marine mammal sightings may be made available upon request for specific purposes; seal tag recapture data not yet decided; through DS HD 3.5 inch disk, and photocopy for marine mammal bibliography.

Technical: ND-570 and HP.9000; fics/sintran and ingres, seal catch data text-file; output ASCII.

Database Manager: Svein Floen, Joint Institute Database, Fish Capture Division.

Docs: file descriptions available, except for seal catch data and marine mammal bibliography with no documentation.

Other: work is in progress to develop a joint Institute database, including physical, chemical and biological oceanography and fisheries resources. This will not include the marine mammal bibliography. Biological data on whales database known as "hvalmorfologi"; whale mark-recapture as "hvalmarker"; whale catch database as "HVALDAGBOK-YY" (where YY = individual year); biological database on seals as "Selbiologi-11, -12, -13, -14, -15, -16, Sydishavet"; seal age determination as "Alder Vest" and "Alder Eis"; seal tag-recapture database as "Merke-data-11, -12, -13, -14"; seal catch database as "CATCH-HARP-HOOD"; marine mammal sightings as "observasjoner".

Record Number: 206

Contact: Norwegian Polar Research Institute
P.O. Box 158
1330 Oslo Lufthavn
NORWAY
Dr Oystein Wiig

TEL: O: +47 212 3650 H: 54 1272
FAX: +47 212 3854

Coverage: cetaceans, pinnipeds, polar bears.
Subjects: bibliography, sightings.
Size: for Svalbard and the Barents Sea.
Source: in Norwegian and English; from published literature and own research; updating irregular.
Status: 100% computerized.
Access: no outside access.
Technical: UNIX; PROSITE.
Other: database known as "Ice data".

Record Number: 207

Contact: University of Oslo
Department of Physiology
PO Box 1057
Blindern
0316 Oslo
NORWAY
Dr Morten Ryo

TEL: +47 1 554646
FAX: +47 1 854664
E-MAIL: MORTENRY@BIO.UIO.NO

Coverage: cetaceans, pinnipeds, marine and polar habitat.
Subjects: primary data includes weights, lengths, girths, viscera, blubber.
Size:
Source: in English; own research.
Status: 95% computerized.
Access: not yet decided.
Technical: Excel file.

Record Number: 208

Contact: Department of Zoology
University of Trondheim AVH
N-7055 Dragvoll
NORWAY
Dag Vongraven

TEL: +46 7 596274
FAX: +46 7 591309
E-MAIL: dag.vongraven@no.unit.avh

Coverage: cetaceans.
Subjects: sightings, photo-id, sound recordings.
Size: identity catalogue of about 100 killer whales, sightings and some hours of sound recordings, from November 1987, for the mid-coast of Norway.
Source: No information provided
Status: sightings data in process of computerization.
Access: No information provided
Technical: D-base III+.
Other: co-worker Anna Bisther.

Record Number: 215

Contact: Biology Department
Faculty of Science
University of Papua New Guinea
PO Box 320
Universit
National Capital District
PAPUA NEW GUINEA

TEL: +675 260900, 262210
TLX: NE 22366
FAX: +675 267180

Coverage: cetaceans, sirenians.
Subjects: wet specimens, dry specimens.
Size: a few specimens, collected over the past 20 years.
Source: in English.
Status: 100% computerized.
Access: details on application.
Technical: PC (IBM); Modes.

Record Number: 217

Contact: Institute of Hydrobiology
Academia Sinica
Wuhan
Hubei 430072
PEOPLE'S REPUBLIC OF CHINA
Professor Renjun Liu

TEL: O: +86 27 813481-385 H: -309

Coverage: cetaceans, freshwater habitat.
Subjects: bibliography, press reports, computerized text, survey, sightings, catch data, distribution maps, photo-id, other photographs, film, video, sound recordings, dry specimens, wet specimens, behaviour, educational, protected areas, habitat, fisheries, husbandry.
Size: 1,000s of items, from 1974, for baiji and finless porpoise from the Yangtze river.
Source: in English and English abstracts of Chinese language material; from own research; updating irregular.
Status: 10% computerized, rest as card file.
Access: no outside access.
Technical: Compaq 366/20s; MS DOS 4.01, LOTUS 1-2-3, Microsoft Windows 3.0 etc.; output 3.5 in and 5.25 in disk and hard copy. **Database-Manager:** Mr Xiafeng Zhang
Docs: file descriptions and on-screen documentation.
Other: integrated computerized information system being developed.

Record Number: 218

Contact: Nanjing Normal University
Dept of Biology
122 Ninghai Road
Nanjing 210024
PEOPLE'S REPUBLIC OF CHINA
Professor Kaiya Zhou

TEL: +86 25 631636 x.328
FAX: +86 25 307448

Coverage: freshwater and marine cetaceans, especially finless porpoise and baiji; some data on pinnipeds.
Subjects: bibliography, survey, sightings, catch data, distribution (from exact positions), photo-id, other photographs (including habitat), dry specimens, wet specimens, habitat, captive data (finless porpoise) etc.
Size: from 1956 about 350 skeletons or skins collected and some wet specimens, mainly cetacean - finless porpoise and baiji; field records include sex, weight, date of collection, external measurements, marine environmental information on finless porpoise including organochlorines and heavy metals (100,000s of data points), baiji field surveys, two and a half years of data from a captive finless porpoise, bibliography (in the 1,000s) includes all publications by Chinese researchers (200s); from lower Yantze river and Chinese inshore waters.
Source: entries in English (including Chinese language observations and literature); own research and published literature; updating irregular.
Status: all specimen and environmental data computerized, about 30% of bibliographical collection (100% planned), few field survey and captivity data computerized.
Access: not yet decided.
Technical: PC/XT with 20mb hard disk; Wordperfect 5.1, Lotus 1-2-3. Fully structured database to be established when current hardware can be replaced by a more powerful machine.

Record Number: 220

Contact: Asociacion de Ecologia y Conservacion (ECCO)
PO Box 18-0359
Lima 18
PERU
Mr Tony Luscombe

TEL: +51 14 47 2369
FAX: +51 14 44 0660

Coverage: marine and freshwater cetaceans and otters.
Subjects: bibliography, press reports, survey, sightings, strandings, catch data, distribution, photo-id, other photographs, film, video, dry specimens (second largest osteological collection in South America), behaviour, legislation, educational, economics, history, protected areas, habitat, fisheries.
Size: collection in the 100s of items; 1981 to present; Peruvian, Chilean and Equadorian waters.
Source: entry in Spanish; published literature (Spanish and English language sources only), own research, on-line databases; updating irregular, depending on completion of projects.

Status: 2% computerized, rest as card file or uncatalogued.
Access: conditions not yet decided; work in progress on developing outside access.
Technical: IBM and IBM compatible; Micro-ISIS and D-Base (further information available on return of specialist from field work).
Docs: file descriptions available; on-screen documentation planned.

Record Number: 222

Contact: Centro Peruano de Estudios Cetologicos (CEPEC)
Casilla 1536
Lima 18
PERU
Mr Koen Van Waerebeek

TEL: O: +51 14 67 43 73
FAX: + 51 14 44 06 60

Coverage: cetaceans, pinnipeds.
Subjects: press reports, computerized text (manuscripts), survey, sightings, strandings, catch data, distribution maps, photo-id, other photographs, dry specimens, wet specimens, behaviour, legislation, educational, economics, sociology, fisheries.
Size: 1,000s of items, from 1982 to present, for Peru, Chile and Ecuador.
Source: in English and Spanish; from published literature and own research; updating continuous.
Status: 10% computerized, rest as card file, notebooks and data sheets.
Access: on completion of project.
Technical: PC-AT (IBM compatible); MS DOS, Wordperfect and LOTUS 1-2-3.

Record Number: 223

Contact: Curator of Marine Mammals
Departamento de Mastozoologia, Museo de Historia Natural
Universidad Nacional Mayor de San Marcos
Av Arenales 1256
Apartado 1
Lima 14
PERU
Dr Maria V. Tenicela

TEL: +51 14 71 01 17

Coverage: cetaceans, pinnipeds, sirenians, marine and freshwater habitat.
Subjects: dry specimens, wet specimens.
Size: 10s of specimens in the collection of the museum, including; (cetaceans) *Mesoplodon peruvianus*, *Grampus griseus*, *Lagenorhynchus obscurus*, *Phocoena spinipinnis*, *Tursiops truncatus*, *Inia geoffrensis*, (pinnipeds) *Otaria byronia*, *Arctocephalus australis*, (sirenia) *Trichechus inunguis*.
Source: No information provided
Status: No information provided
Access: No information provided
Technical:

Record Number: 226

Contact: Hel Marine Laboratory
University of Gdansk
84-150 Hel
PO Box 137
ul Morska 9
POLAND
Dr Krzysztof E. Skora

TEL: +48 58 75 08 36, 75 08 46, 75 07 11 x 137.
TLX: 054141 HEL UG PL
FAX: +48 58 75 04 20

Coverage: cetaceans, pinnipeds, marine habitat.
Subjects: bibliography, press reports, sightings, strandings, catch data, distribution maps (exact positions), photographs, film, video, dry specimens, wet specimens, behaviour, legislation, educational, sociology, anthropology, history, protected areas, habitats, fisheries.
Size: information on about 100 specimens from the Polish Economic Zone of the Baltic Sea.
Source: in Polish; from own research and published literature; updating irregular.
Status: 30% computerized, rest as field notes.
Access: not yet decided.
Technical: IBM/XT; DOS; editor, ASCII.

Record Number: 229

Contact: Instituto Superior de Psicologia Aplicada (ISPA)
Rua Jardim do Tabaco 44
1100 Lisboa
PORTUGAL
Manuel E. dos Santos

TEL: +351 1 86 31 84
FAX: +351 86 09 54

Coverage: cetaceans.
Subjects: strandings, sightings, photo-id, other photographs, sound recordings, computerized text (papers).
Size: many records, including a few thousand photographs, for bottlenose dolphins resident in the Sado estuary.
Source: No information provided
Status: sightings information computerized.
Access: No information provided
Technical: Macintosh; MS-Works (sightings), MS-Word (text).

Record Number: 230

Contact: Francisco Reiner
Rua da Nogueira 19 1
2750 Cascais
PORTUGAL

Coverage: cetaceans, pinnipeds.
Subjects: sightings, strandings.
Size: many records collected for many years, from Portugal, and an especially extensive collection of records for the waters of Madeira and the Azores.
Source: No information provided
Status: small part computerized.
Access: No information provided
Technical:
Docs: report, with Sequeira and Inacio, on more recent records in press, many other published reports (see e.g. IWC and EAAM sources).

Record Number: 231

Contact: Servico Nacional de Parques, Reservas e Conservação da Natureza
Rua Filipe Folque 46 5
1000 Lisboa
PORTUGAL
Marina Sequeira

FAX: +351 1 57 47 71

Coverage: cetaceans, pinnipeds.
Subjects: strandings, some photographs, sightings.
Size: all stranded marine mammals reported on the Portuguese continental coast, mainly from 1978 to present, with some older records; some records of sightings from oceanographic cruises etc.
Source: in Portuguese; constantly updated.
Status: about 500 strandings records computerized to date, rest as traditional files.
Access: could be made available as part of a distributed database, after the appropriate diplomacies.
Technical:

Record Number: 236

Contact: Marine Research Section
Ministry of Fisheries and Agriculture
H. White Waves
Male
REPUBLIC OF MALDIVES
Dr Charles Anderson

TEL: O: +960 32 2509, 2328 H: 7024
TLX: 77033 MAS MF
FAX: +960 32 6558, 2509

Coverage: cetaceans, marine habitat.
Subjects: bibliography, sightings, strandings, photographs.
Size: 10s of observations, from the 1980s to present, from The Maldives.
Source: in English and Maldivian; from own research; updating irregular.
Status: no material computerized yet.
Access: not yet decided.
Technical:
Docs: to be published.

Record Number: 239

Contact: Sea Fisheries Research Institute
Post Bag X2
Roggeboai 8012
REPUBLIC OF SOUTH AFRICA
Dr Jeremy H.M. David

TEL: O: +27 21 4191573 H: 744186
TLX: 520796
FAX: +27 21 252920

Coverage: pinnipeds - *Arctocephalus pusillus pusillus*
Subjects: bibliography, press reports, computerized text, survey, strandings, sightings, catch data, distribution, photo-id, other photographs, film, video, sound recordings, dry specimens, wet specimens, behaviour, legislation, history, protected areas, habitat, fisheries, etc.
Size: 10,000 plus items, from 1948 to present, from southern Africa.
Source: entries in English; published literature and own research; irregular updating.
Status: about 10% computerized, rest in card file, uncatalogued, field data format.
Access: free to recognized scientists for agreed projects, otherwise not yet decided; via hard copy.
Technical: PC XT+AT; DOS; LOTUS, WP5; output hard copy.

Record Number: 243

Contact: Kamchatka Department of Environment
Pacific Geography Institute
Academy of Sciences
Prospect Rybakov 19a
Petropavlovsk-Kamchatsky 683024
RUSSIAN FEDERATION
Dr Vladimir N. Burkanov

TEL: +7 6 24 36 or 6 69 97

Coverage: cetaceans, pinnipeds, sea otter.
Subjects: ecology, abundance, distribution, commercial harvest, natural mortality, dry specimens (craniological), photo-id.
Size: almost all for the Kamchatka region and Far East of Russia; includes Steller sea lion, *Phoca largha*, walrus, sea otter, *Ph. v. stejnegeri*, and some species of whales.
Source: No information provided
Status: computerization planned.
Access: No information provided

Technical:

Record Number: 244

Contact: State Counsellor for Ecology and Public Health
Russian Federation
2 Krasnopresnenskaya Nab.
Moscow 103274
RUSSIAN FEDERATION
Prof Alexey V. Yablokov

TEL: O: +7 95 205 48 25 H: 134 44 21
FAX: +7 095 205 53 14

Coverage: cetaceans, pinnipeds.

Subjects:

Size:

Source: No information provided

Status: No information provided

Access: No information provided

Technical:

Other: responder cannot reply in detail because public activities have interrupted scientific work, but hopes to be able to participate in future.

Record Number: 253

Contact: Zoological Reference Collection
Department of Zoology
National University of Singapore
Kent Ridge
Singapore 00511
SINGAPORE
Mrs Chang-man Yang

TEL: +65 772 2875
FAX: +65 779 2486

Coverage: cetaceans, sirenians, marine habitat.

Subjects: bibliography, press reports, sightings, strandings, distribution map (exact positions - dugong) dry specimens, wet specimens, educational.

Size: 10s, from earliest records to present, for Singapore.

Source: in English; published literature, own research.

Status: card file.

Access: No information provided

Technical: IBM; DOS 6.0.

Docs: Sigurdsson, J.B. and Yang, C.M. (1990) Marine mammals of Singapore. *Essays in Zoology* Papers Commemorating the 40th Anniversary of the Department of Zoology, National University of Singapore, 25-37.

Record Number: 274

Contact: Baltic
Swedish National Environment Protection Board
Library and Documentation Section
Box 1302
171 25 Solna
SWEDEN

TEL: +46 8 799 10 00
TLX: 11131 ENVIRON S

Coverage: potential.
Subjects: bibliography - includes biology, pollution, environmental impact, research, planning and administrative measures.
Size: contains about 2,500 citations to literature on the Baltic Sea, from 1980 to present.
Source: original language of publication with titles also in English, keywords in English only; from books, journals, conference proceedings, research reports, dissertations, unpublished reports; updating annually.
Status: on line service.
Access: DAFA Data AB.
Technical: ~~Database-Manager:~~ Swedish National Environment Protection Board, for the Helsinki Commission.

Record Number: 278

Contact: LIBRIS (Library Information System)
The Royal Library
Box 5039
102 41 Stockholm
SWEDEN
Librarian

Coverage: potential.
Subjects: bibliography.
Size: contains citations to the monograph and periodical holdings of about 70 research libraries in Sweden from 1976, and to the periodical holdings of more than 50 libraries in Denmark, Finland and Norway from 1968.
Source: primarily in English and Swedish; covers all subject areas; updated continuously, throughout the day.
Status: on line service.
Access: details from The Royal Library.
Technical: ~~Database-Manager:~~ The Royal Library.
Docs: known as "LIBRIS".

Record Number: 280

Contact: Contaminant Monitoring Group
Swedish Museum of Natural History
P.O. Box 50007
S-10405 Stockholm
SWEDEN
Prof Dr Mats Olsson

TEL: O: +46 8 666 40 00 H: 96 35 50
FAX: +46 8 666 42 12

Coverage: pinnipeds.
Subjects: strandings, catch data, distribution maps (exact positions), concentration of persistent chemicals.
Size: 1970 to present; Baltic, Kattegat, Skagerrack.
Source: entries in Swedish; own research; updating irregular.
Status: all computerized.
Access: may be generally available after completion of project but not yet decided.
Technical: PC; DOS.
Docs: file descriptions available.

Record Number: 295

Contact: Phuket Marine Biological Center
51 Sukdidet Street
PO Box 60
Phuket 83000
THAILAND
Dr Hansa Chansang

TEL: +66 76 391 128
FAX: +66 76 391 127

Coverage: sirenians, sea otters.
Subjects: sightings, distribution maps, photographs, video, dry specimens, wet specimens, behaviour, legislation, anthropology, protected areas, habitat, fisheries, husbandry (growth in captivity).
Size: less than 20, from the last five years, for the Andaman Sea and Gulf of Thailand.
Source: Thai language; from published literature and own research; updating irregular.
Status: No information provided
Access: not yet decided.
Technical:
Other: marine mammal information can be integrated with feeding ground distribution (grass beds).

Record Number: 296

Contact: Dr. Jan Willem Broekema
Klipperwerf 16
NL-2317 DZ Leiden
THE NETHERLANDS

TEL: H: +31 71 21 2076
FAX: +31 15 12 20 99

Coverage: cetaceans.
Subjects: dry specimens (odontocete skull measurements).
Size: 100s of specimens in KMNH collections; from 1900 to 1980; mainly from the North Sea, some from worldwide locations.
Source: in English; own research; no updating.
Status: 100% computerized.
Access: might be made available for scientific study only, on supply of any DOS-type disk or as hard copy.
Technical: hardware not specific; any database and/or spreadsheet; several output possibilities.
Docs: file descriptions available; database known as "CETANUM".

Record Number: 299

Contact: Information Theory Group
Delft University of Technology
PO Box 5031
Z600 GA Delft
THE NETHERLANDS
Mr R. Paul Terry

TEL: +311 576 6283, 6052
FAX: +311 578 3622
E-MAIL: TERRY@ET.TUDELFT.NL

Coverage: cetaceans.
Subjects: bibliography, video, sound recordings.
Size: 100s of items, for Sotalia up to 1990, others to 1984.
Source: in English; from own research; updating irregular.
Status: 80% computerized.
Access: freely available on request.
Technical: Tulip PC. **Database-Manager:** Cees Kamminga, Head of Group
Docs: Terry, R.P. (1990) A Selected Bibliography on the Delphinid Genus Sotalia. TU Delft. 10 pp. A Selected Bibliography on Dolphin Literature. A Report on an Investigative Journey to the Amazonas. Video 'Dolphins' with eight captive/wild species with sound recordings.

Record Number: 302

Contact: National Museum of Natural History
PO Box 9517
2300 RA Leiden
THE NETHERLANDS
Dr Chris Smeenk

TEL: +31 71 143844
FAX: +31 71 133344

Coverage: cetaceans, pinnipeds, sirenians, polar bears, sea otters.
Subjects: bibliography, library catalogue, press reports, strandings, photo-id, other photographs, video, dry specimens, wet specimens, history.
Size: 1,000s of records; from 1800 to present; covering mainly The Netherlands and Indonesia.
Source: entries in Dutch; from published literature, own research, collections and archives; continuously updated.
Status: about 10% of collections, archives and library computerized, otherwise card files or uncatalogued.
Access: freely available, except material under study which will become available on completion of projects.
Technical: new hardware and software to be decided in 1992, data at present held as ASCII files.
Docs: file descriptions planned.
Other: integration with habitat information planned in 1992.

Record Number: 312

Contact: Bath Information and Data Service (BIDS)
Institute for Scientific Information (ISI)
c/o University Library
University of Cambridge
West Roa
Cambridge CB3 9DR
UK

TEL: +44 223 333000
FAX: +44 223 333160

Coverage: cetaceans, pinnipeds, sirenians, polar bears, sea otters.
Subjects: Science Citation Index (SCI), Social Science Citation Index (SSCI), Arts and Humanities Citation Index (A&HCI), Index of Scientific and Technical Proceedings (ISTP).
Size: from over 7,000 journals and 4,000 conferences per year. Test searches on titles (the only available field for comparable inter-year searches), using all the marine mammal terms, revealed between 20 and 30 items a year in SCI (with a high percentage of irrelevant "seal*" material). The other files contained on average less than five relevant items per year. Keyword searching on the current year revealed considerably more relevant material in SCI, indicating that the title search under-estimated the value of this source.
Source: in English; from worldwide published literature; ISTP updated monthly, rest weekly.
Status: on-line database.
Access: for authorized members of subscribing institutions only.

Technical: the service runs on a Series 39 Level 80 ICL computer system, with connection via simple scroll-mode terminals or terminal emulators. **Database-Manager:** Institute for Scientific Information Inc.
Docs: user guide and on-screen help available.

Record Number: 314

Contact: British Antarctic Survey (BAS)
High Cross
Madingley Road
Cambridge CB3 0ET
UK
Dr I. Boyde

TEL: +44 223 61188

Coverage: cetaceans, pinnipeds (mainly fur seals and elephant seals).
Subjects: bibliography, sightings, dry specimens, wet specimens, behaviour, film, photographs, habitat.
Size: pinniped data on about 10,000 individuals (several million data points), from the past 15 years; archives contain ships logs (sightings), photo-library also maintained by photography department.
Source: entry in English; own research, published and unpublished literature; updating according to project status.
Status: less than 10% of seal data computerized, most other material catalogued, ships logs and aerial photographs not catalogued in detail.
Access: outside access only for approved co-operative research projects.
Technical: field data now captured on data logger, downloaded to PC database, transferred to tape and finally incorporated into integrated Field D-base on VAX mainframe; UNIX, Oracle.

Record Number: 315

Contact: British Library of Wildlife Sounds
National Sound Archive
29 Exhibition Road
London SW7 2AS
UK
Richard Ranft

TEL: +44 71 589 6603
FAX: +44 71 823 8970

Coverage: cetaceans, pinnipeds, sirenians, polar bears, sea otters.
Subjects: sound recordings.
Size: 1,000s of recordings; 1960s to present; worldwide.
Source: English; contributions from individual recordists, BBC Sound Archives, published recordings; updating irregular, when recordings received.
Status: not computerized, card file, spools of tape and documents.
Access: free listening by prior appointment; charges for copying etc. available on request.
Technical:

Other: the marine mammal collection is part of the British Library of Wildlife Sounds (BLOWS). Contributions of adequately documented recordings are welcomed.

Record Number: 318

Contact: Environmental Investigation Agency
208-209 Upper Street
London N1 1RL
UK
David Bowles

TEL: +44 71 704 9441
TLX: 8813271 GECOM Q
FAX: +44 71 226 2888

Coverage: cetaceans
Subjects: bibliography, press reports, catch data, photographs, film, video, behaviour, legislation, educational, economics, sociology, history, protected areas, habitat, fisheries, field research on illegal fisheries and kills.
Size: 1,000s; 1984 to present; worldwide.
Source: in English; own research, published literature; updating irregular but roughly weekly.
Status: hard copy files, nothing computerized.
Access: limited outside access may be granted, on a case by case basis.
Technical:

Record Number: 321

Contact: Greenpeace
Canonbury Villas
London N1 2PN
UK
Dr S.J. Mayer

TEL: +44 71 354 5100
TLX: 25245 GPEACE G
FAX: +44 71 359 4062

Coverage: cetaceans - bottlenose dolphin
Subjects: survey, sightings, distribution maps (exact positions), photo-id.
Size: 100s of photographs; 1990-91; Cardigan Bay, West Wales, UK.
Source: entry in English; own research; updating irregular.
Status: 25% computerized, otherwise card file.
Access: not yet decided.
Technical: Macintosh; Fourth Dimension.

Record Number: 322

Contact: Erich Hoyt
29 Dirieton Avenue No. 11
North Berwick, East Lothian EH39 4BE
UK

TEL: +44 620 3644
FAX: +44 620 5257

Coverage: cetaceans, marine habitat.
Subjects: bibliography, press reports, computerized text of papers and book manuscripts, photo-id, other photographs, film, video, sound recordings, educational, anthropology, protected areas, habitat, fisheries.
Size: 1,000s of items, 1973 to present, British Columbia coast, New England, worldwide.
Source: in English; from published literature and own research; updating irregular.
Status: 10% computerized, rest uncatalogued.
Access: access conditions not yet decided.
Technical: Macintosh; Microsoft Word 4.

Record Number: 327

Contact: International Whaling Commission (IWC)
The Red House
Station Road
Cambridge CB4 4NP
UK
Mr G. Donovan

TEL: +44 223 233971
FAX: +44 223 232876

Coverage: cetaceans, especially species which are, or have been, subject to direct harvest.
Subjects: bibliography, press reports, computerized text, surveys, catch data, distribution (from exact positions), photographs, legislation, fisheries, management.
Size: of the order of 1 million catch records, about 8,000 reference records, large holdings of biological and survey data, worldwide, various time periods covered, legislation on whaling and animal welfare from member states, computer text files (Reports of the IWC and Special Issues) are mainly from the last three years.
Source: entries in English; the majority of material is contributed by member governments, research institutes and individuals. Catch statistics include the entire archive of the former Bureau of International Whaling Statistics (BIWS), whose role has been taken over by the IWC Secretariat; updating continuous.
Status: many data files 100% computerized and validated, work on others is in progress; photographs not computerized.
Access: access conditions for files vary - any information required by the Schedule to the International Whaling Convention is public, access to most biological and survey files is restricted to members of the Scientific Committee. Enquiries must be specific and charges may be made for direct costs and time.
Technical: IBM compatible system, data in D-base III compatible software, text - Wordstar, bibliography - Papyrus. **Database-Manager:** C. Allison (bibliography and text G. Donovan).
Docs: files routinely fully documented.

Record Number: 329

Contact: International Zoo Veterinary Group
Keighley Business Centre
South Street
Keighley, W. Yorks BD21 1AG
UK
Mr Andrew Greenwood

TEL: +44 535 692000
FAX: +44 535 690433

Coverage: cetaceans, pinnipeds, sirenians, polar bears, sea otters.
Subjects: bibliography, dry specimens, wet specimens, blood and pathology data.
Size: 100s of records, from 1975 to present, on captive animals.
Source: entries in English; own research and published literature; updating irregular.
Status: 150 blood analysis records computerized, rest on card file or uncatalogued.
Access: no outside access.
Technical: IBM PS/2; MS DOS, Lynx database for blood, Bibliograph for references.

Record Number: 332

Contact: Mr D.A. McBrearty
35 Causewayside
Cambridge CB3 9HD
Cambridge
UK

TEL: +44 223 68398

Coverage: cetaceans
Subjects: sightings, distribution maps (exact positions), photographs.
Size: about 15,000 records; 1978-1988; worldwide.
Source: entry in English; sightings reports from seafarers; project discontinued through lack of financial support.
Status: 100% computerized.
Access: by special arrangement.
Technical: presently stored on magnetic tapes produced by IBM mainframe; analysis and manipulation software suite CEYSYS specially developed.
Other: known as the Dolphin Survey Project.

Record Number: 334

Contact: Research Group in Mammalian Ecology and Reproduction
Physiological Laboratory
University of Cambridge
Downing Street
Cambridge CB2 3EG
UK
Vera M.F. da Silva

TEL: +44 223 333892
TLX: 81240 CAMSPL G
FAX: +44 223 333840

Coverage: cetaceans, sirenians, habitat.
Subjects: bibliography, computerized text, survey, sightings, strandings, catch data, distribution (exact positions), photo-id, photographs, dry specimens, wet specimens, behaviour, legislation, anthropology, protected areas, habitat, fisheries.
Size: 1,000s of items (including approximately complete bibliography on *Inia* and *Sotalia*), particularly from the Amazonas region (*Inia*), Brazil (sirenians) and South America (*Sotalia*), from early descriptions to present.
Source: in English and Portuguese; own research, museum and research collections (especially INPA in Brazil), published and unpublished literature; updating irregular.
Status: morphometric and biological cetacean data 100% computerized; rest as card files, field notes or uncatalogued.
Access: to be decided after completion of project.
Technical: PC; DOS; output as disk or hard copy.
Other: information on animals can be integrated with river levels, flooded areas, species of fish in the system, pollution, commercial fishing, trade.

Record Number: 335

Contact: Scott Polar Research Institute (SPRI)
Lensfield Road
Cambridge CB2 1ER
UK
Librarian

TEL: +44 223 336540
TLX: 81240 CAMSPL G
FAX: +44 223 336549
E-MAIL: JANET WJM13@UK.AC.CAM.PHX

Coverage: cetaceans, pinnipeds, polar bears, sea otters.
Subjects: library catalogue.
Size: over 50,000 references mainly since 1985; worldwide literature on polar regions - with somewhat more extensive geographical coverage for marine mammals. Taxonomic test search by library staff revealed 1,081 items related to marine mammals.
Source: entries in English (other language titles etc. translated); books and periodical articles received and catalogued; about 6,000 new records and 5,000 pre-1985 records added each year.
Status: 100% computerized from 1985; with about 90,000 pre-1985 records to be added at the rate of 5,000 records a year.

Access: on-line service QL Systems Limited (SPRI); also available on CD-ROM.
Technical: ~~Database-Manager~~. Scott Polar Research Institute Library.
Docs: corresponds to Polar and Glaciological Abstracts published by Cambridge University Press.
Other: the Institute also holds many varied collections containing marine mammal and related information, including reprints, photographs and artifacts, with card indexes.

Record Number: 338

Contact: Sea Mammal Research Unit (SMRU)
c/o British Antarctic Survey
High Cross
Madingley Road
Cambridge CB3 0ET
UK
Dr C. Lockyer

TEL: +44 223 311354
TLX: 817725 BASCAM G
FAX: +44 223 328927

Coverage: cetaceans, pinnipeds.
Subjects: library catalogue, computerized text of papers, survey, sightings, strandings, photo-id, other photographs, sound recordings, dry specimens, wet specimens, by-catch, pathology, pollutants.
Size: 100s of UK cetacean records (mainly harbour porpoise), 1,000s of UK pinniped records (including the 1988 epizootic), library world-wide coverage, large collections of wet and dry biological material from Antarctic whaling.
Source: entries in English; own research and published literature; regular updating.
Status: all UK seal and cetacean specimen data and seal encounters during field seasons computerized; card index for Antarctic material; photographs etc. uncatalogued.
Access: outside access only for approved co-operative research projects.
Technical: UNISYS; XDB and VAX; UNIX; Oracle. ~~Database-Manager~~: Ailsa Hall (cetacean); Mike Walton (pinnipeds); Gilly Banks (library).
Docs: for files on dead seals and cetaceans, encounters during field seasons (particularly grey seals breeding on the Isle of May and North Rona) and samples from live and dead seals.
Other: some overlap with stranded cetacean information held by NHM.

Record Number: 339

Contact: Sea Mammal Research Unit (SMRU)
c/o British Antarctic Survey
Madingley Road
Cambridge CB3 0ET
UK
Mr Lex Hiby

TEL: O: +44 223 311354 H: 440 85362
TLX: 817725
FAX: +44 223 328927

Coverage: pinnipeds.

Subjects: computer aided matching of natural markings.
Size: three-dimensional mathematical model, and test data set of 58 photographs of 21 female grey seals.
Source: No information provided
Status: No information provided
Access: conditions to be decided after system is fully developed.
Technical: designed for microcomputers, to facilitate field use and use in developing countries.
Docs: Hiby, L. and Lovell, P. (1990) Computer aided matching of natural markings: a prototype system for grey seals. Rep. Int. Whal. Commn (Special Issue 12) 57-61.
Other: principle could be applied to other situations where identifying characters are on non-planar surfaces.

Record Number: 341

Contact: UK Digital Marine Atlas Project Manager (UKDMAP)
British Oceanic Data Centre
Proudman Oceanographic Laboratory
Bidston Observatory
Birkenhea
Merseyside L43 7RA
UK
Dr A.R. Tabor

TEL: +44 51 653 8633
TLX: 628591 OCEANB G
FAX: +44 51 652 3950

Coverage: habitat.
Subjects: 1991 release contains maps relating to habitat, food species and fisheries.
Size: 112 charts; maximum area covered: 45 degrees N to 65 degrees W, 15 degrees W to 15 degrees E (includes UK, Irish and North Sea waters).
Source: in English; from various sources; updating and expansion in progress.
Status: 100% computerized.
Access: the Atlas, documentation and display software are distributed on IBM PC format disk, the 1991 version cost £23.50 (including VAT, postage and packing).
Technical: IBM PC (or compatible) with 640k RAM, EGA or VGA display and hard disk with at least 7 Megabytes of free space; software runs under DOS 3.0 or later; data can be manipulated, displayed in various ways and charts can be overlaid, maps and text can be produced as hard copy, data import/export available in 1992 version.
Docs: printed user guide, with loading instructions and other informaton, supplied with disks; on-screen context-sensitive help system.
Other: the 1992 release will contain a wider dataset and improved manipulation software. The possibility of including cetacean and pinniped information is being explored. Known as the "UKDMAP Project".

Record Number: 342

Contact: Cetacean Group
UK Mammal Society
Department of Zoology
South Parks Road
Oxford OX1 3PS
UK
Dr P.G.H. Evans

TEL: +44 865 727 984

FAX: +44 865 727 984

Coverage: cetaceans, pinnipeds, habitat.

Subjects: sightings, bibliography, computerized text, survey, strandings, catch data, distribution maps (exact positions), photo-id, other photographs, economics, sociology, habitat, by-catches.

Size: about 25,000 sightings records in total; some from 1960, most from 1969 to present; UK and Ireland, extending worldwide from 1985.

Source: entries in English; sightings information from zoologists, seafarers and volunteers (from 1985 including International Dolphin Watch records), other information from literary and archive research, own research; updating irregular at present, depending on staff funding.

Status: 60% of sightings computerized, rest on standard recording sheets.

Access: conditions not yet decided.

Technical: Macintosh; Hypercard, and custom-built d-base, analytical and map plotting programs; output disk or hard copy.

Docs: some file descriptions available, others planned.

Other: marine mammal information can be used with other information within the system. The sightings database is known as the "UK Mammal Society Cetacean Group Sightings Database".

Record Number: 343

Contact: Computer Search Service
Scientific Periodicals Library
University of Cambridge
Arts School
Benett Street
Cambridge CB2 3PY
UK
Mr S.M. Dale

TEL: +44 223 334742

TLX: 81240 CAMSPL G

FAX: +44 223 334748

Coverage: potential.

Subjects: test searches of on-line databases for marine mammal information conducted: BIOSIS, Oceanic Abstracts, Aquatic Science Abstracts, Zoological Record, Historical Abstracts, Aquaculture, Conference Papers Index and SCISEARCH.

Size: search terms (* allows variations of the core term to be found e.g. cetacea* covers cetacean and cetaceans as well as cetacea): cetacea* whale* dolphin* porpoise* pinniped* seal* sea lion* walrus* sea otter* polar bear* sirenia* manatee* dugong*. This unfortunately also produced many references to "sealants" etc.; restricting the search to taxonomic categories was only possible for BIOSIS and Zoological Record, but as the total number of records was reduced by about a third, similar reductions might be expected in the other database search results. The only other problem with this search method was that a few unwanted references to "dolphin fish" and "mooring dolphins" were obtained. No attempt to check across databases for non-identical references was made, because this only provides a total, not a separate figure for each database. Pairwise comparisons were not feasible because of the time required. See individual database entries for full results.

Source: No information provided
Status: No information provided
Access: for Cambridge University; payment of direct costs required.
Technical:
Docs: data bases identified through Directory of Online Databases 12 (1-2) 1991.
Other: a number of on-line databases of potential interest could not be accessed in this way. These are noted as "Source: DOD" in the individual entries.

Record Number: 344

Contact: Department of Genetics
University of Cambridge
Downing Street
Cambridge CB2 2EH
UK
Dr W. Amos

TEL: +44 223 333972
FAX: +44 223 333992

Coverage: cetaceans, pinnipeds.
Subjects: molecular methods of population identification.
Size:
Source: No information provided
Status: No information provided
Access: No information provided
Technical:

Record Number: 345

Contact: Research Group in Mammalian Ecology and Reproduction
Physiological Laboratory
University of Cambridge
Downing Street
Cambridge CB2 3EG
UK
Dr Margaret Klinowska

TEL: +44 223 333892 or 69026
TLX: 81240 CAMSPL G
FAX: +44 223 333840

Coverage: cetaceans.
Subjects: bibliography, press reports, computerized text, strandings, catch data, photographs, video, sound recordings, dry specimens (few), wet specimens (few), behaviour, legislation, educational, history, protected areas, habitat.
Size: about 5,000 recent references computerized plus 5,000 as card index, copy of F.C. Fraser's card index (up to 1960s) containing about 4,000 items, computerized text (especially the original text of IUCN Cetacean Red Data Book containing the unpublished trade, protected areas, national and international legislation information - legal and protected areas information more extensive than ELIS and WCMC), library of several thousand items; worldwide coverage.
Source: entry in English; recent references derived from on- and off-line searches (Aquatic Sciences and Fisheries Abstracts, BIOSIS, Oceanic Abstracts, Historical Abstracts) published and unpublished literature, own research; updating irregular.
Status: about 30% computerized (references and text); rest as card file, library files, uncatalogued.
Access: access by arrangement - free (except for direct costs e.g. photocopying) to bona fide students and research workers; for others fees may be negotiated to cover time and direct costs.
Technical: majority of computerized material held in university IBM mainframe as simple text files, in GCAL text processor format and some bibliographical text files in MUSCAT(EL) and GOS(LING); other information held on Macintosh (recent) and BBC/TORCH (older).
Docs: Klinowska, M. (1991) Dolphins, porpoises and whales of the world. The IUCN Red Data Book. IUCN, Gland, Switzerland and Cambridge, UK. viii + 429 pp.

Record Number: 346

Contact: University Library
University of Cambridge
West Road
Cambridge CB3 9DR
UK
Librarian

TEL: +44 223 333000
FAX: +44 223 333160

Coverage: cetaceans, pinnipeds, sirenians, polar bears, sea otters, habitat.

Subjects: bibliography - copyright library (i.e. all UK publications) and other academic library catalogues. Test searches revealed an average total of about 100 items per year (including popular literature, children's books, fiction etc. as well as academic material) for the marine mammal search terms.

Size: about a million recent items now computerized from the various member libraries, plus rest of holdings on card file.

Source: No information provided

Status: on-line databases.

Access: authorized network users.

Technical: main recent copyright library file searchable also by subject keywords, others by title and author only.

Docs: on-screen menus and help as well as hard copy documentation available.

Record Number: 348

Contact: Wildlife Conservation Research Unit
Department of Zoology
South Parks Road
Oxford OX1 3PS
UK
Dr Jonathon Gordon

TEL: +44 865 723 582
FAX: +44 865 798 227

Coverage: cetaceans, pinnipeds.

Subjects: survey, sightings, photo-id, other photographs, film, video, sound recordings.

Size: 1,000s, from 1987, mainly for North Atlantic.

Source: in English; from own research; updating irregular.

Status: 90% computerized.

Access: may be freely available, on completion of project, or not yet decided - depending on material.

Technical: IBM PC and Mac; DOS; output as ASCII.

Other: photographic and film material held by IFAW.

Record Number: 349

Contact: World Conservation Monitoring Centre (WCMC)
219 Huntingdon Road
Cambridge CB3 0DL
UK
Dr. Timothy Johnson

TEL: +44 223 277 314
TLX: 817036 SCMU G
FAX: +44 223 277 136
E-MAIL: timj@wcmc.uucp

Coverage: cetaceans, pinnipeds, sirenians, polar bears, sea otters, marine, freshwater, polar habitat

Subjects: bibliographic data and global status overviews, includes species and some sub-species. In addition maintain data on IUCN threatened species from above taxa. Protected areas database includes marine protected areas. Records of trade in marine mammals and their products that are listed by CITES.

Size: 100s of species records

Source: in English from published literature

Status: species and protected areas - 100% computerized, bibliographic data - partially computerized

Access: available upon request, Commercial organisations may be charged for information

Technical: UNIX (4 different machines); IBM PC's (MS DOS), WANG Database-Manager: John McComb

Record Number: 351

Contact: Institute of Zoology
Zoological Society of London
Regent's Park
London NW1 4RY
UK
Thijs Kuiken

TEL: +44 71 722 3333 x 873
TLX: 265 247 LONZOO G
FAX: +44 71 483 4436

Coverage: cetaceans, pinnipeds, marine habitat.

Subjects: bibliography, contact addresses.

Size: 100s of items, from September 1990 to present, mainly for British Isles.

Source: in English; published literature (Current Contents on disk) and own research (contacts); updating weekly.

Status: 100% computerized.

Access: no outside access.

Technical: personal computer; bibliography - Procite, CCOD, contacts - Word Perfect; output hard copy.

Other: part of a larger project for detailed monitoring of UK stranded marine mammals. See also Lockyer (Sea Mammals Research Unit) and Sheldrick (Natural History Museum).

Record Number: 358

Contact: Alaska Dept. of Fish and Game
1300 College Road
Fairbanks, Alaska 99701-1599
USA
Kathryn J. Frost

TEL: +1 907 456 5156
FAX: +1 907 452 5410

Coverage: cetaceans, pinnipeds.

Subjects: survey, sightings, strandings, catch data, distribution maps, habitat, fisheries.

Size: 100s of items; 1975-1991, for Alaska.

Source: in English, from own research; updating irregular.

Status: mix of reports files and computerized information.
Access: available as published, or in some cases upon request.
Technical: IBM compatible; DOS; hard copy.
Docs: little or no documentation.

Record Number: 359

Contact: Alaska Fisheries Science Center
National Marine Mammal Laboratory
National Oceanic and Atmospheric Administration (NOAA)
7600 Sand Point Way NE
Seattle, WA 98115-0070
USA
Dr H.W. Braham

TEL: +1 206 526 4022
FAX: +1 206 526 6615

Coverage: cetaceans, pinnipeds.
Subjects: reply refers to the five major computer databases held only. Arctic Aerial Survey Data Files (AAS) on Arctic whales, seals and walrus from March 1975 - May 1979, David E. Withrow investigator; Marine Mammal Incidental Catch Database (MMICD) on marine mammal fishery interactions from January 1972 to present, Michael Perez investigator; Northern Fur Seal Database (FSDB) on population surveys from January 1909 to present, investigator Charles Fowler; Northern Sea Lion Database (NSLDB) on population surveys from January 1958 to present, Richard Merrick investigator; Platforms of Opportunity Program Database (POPDB) whales, seals, walrus, population estimation from January 1952 to present, Christopher G. Boucher investigator.

Size: Pacific Ocean and Bering Sea;
AAS - 60° N to 75° N and 150° W to 180° W;
MMICD - 30° N to 65° N and 115° W to 180° W;
FSDB - 50° N to 70° N and 160° W to 160° E;
NSLDB 50° N to 70° N and 160° W to 160° E;
POPDB 0° N to 75° N and 110° W to 140° E.

Source: No information provided

Status: 100% computerized.

Access: see Breiwick.

Technical: storage medium; AAS - magnetic tape; MMICD - magnetic tape, disk; FSDB - magnetic tape, disk; NSLDB - magnetic tape, disk; POPDB - magnetic disk.

Database Manager: Chris Boucher

Docs: Boucher, G.C. and Boaz, C.J. Documentation for the Marine Mammals Sightings Database of the National Marine Mammal Laboratory. NOAA Technical memorandum NMFS F/NWC-159.

Record Number: 360

Contact: Director, American Cetacean Society
PO Box 2639
San Pedro, CA 90731
USA
Patricia Warhol

TEL: +1 310 548 6279

Coverage: cetaceans, pinnipeds, sirenians, polar bears, sea otters, habitat.
Subjects: bibliography, library catalogue, press reports, computerized text, survey, sightings, strandings, catch data, distribution maps, photo-id, other photographs, film, video, sound recordings, behaviour, legislation, educational, economics, sociology, anthropology, history, protected areas, habitat, fisheries.
Size: 1,000s of items, primarily from published literature.
Source: in English with a few in Portuguese; updating irregular.
Status: at present only books are computerized and in card file.
Access: by FAX or copier to anyone at cost; on-line access to be available soon.
Technical: Epson hard disk machine; DOS; D-base III and custom-created software; output as catalogue cards and other hard copy. **Database-Manager:** Virginia Callahan, Librarian
Docs: no documentation.
Other: known as "ACS Library".

Record Number: 363

Contact: Aquatic Sciences and Fisheries Abstracts (ASFA)
Cambridge Scientific Abstracts (CSA)
7200 Wisconsin Avenue 601
Bethesda, MD 20814
USA

TEL: +1 301 961 6750
TLX: 910 250 7547 CAMBMD
FAX: +1 301 961 6720

Coverage: cetaceans, pinnipeds, sirenians, polar bears, sea otters.
Subjects: bibliography - includes aquatic biology, biological oceanography, coastal zone management, commerce, economics, ecology, fisheries, law of the sea, marine biology, policy, pollution, ocean resources, acoustics.
Size: contains approximately 310,000 citations, with abstracts. Test search from 1978 - to September 1991 revealed 1,474 items for cetacea*, 2,395 for whale*, 956 for dolphin* (likely to include some references to "mooring dolphins" and "dolphin fish") 251 for porpoise*, 575 for pinniped*, 1892 for seal* (reduction of irrelevant material by taxonomic search not possible), 239 for sea lion*, 109 for walrus*, 144 for sea otter*, 68 for polar bear*, 77 for sirenia*, 154 for manatee*, 66 for dugong*.
Source: in English with titles also in original languages; world literature on the science, technology and management of marine, brackish and freshwater environments; about 3,000 records added every month.
Status: on-line data base.

Access: BRS (as part of Cambridge Scientific Abstracts Life Sciences); BRS/After Dark (as part of Cambridge Scientific Abstracts Life Sciences); BRS Colleague (as part of Cambridge Scientific Abstracts Life Sciences); CISTI, Canadian Online Enquiry Service (Can/OLE) (ASFA), DIALOG Information Services Inc. (File 44); DIMDI (ASFA); ESA-IRS (File 52); Universidad Nacional Autonoma de Mexico, Servicio de Consulta a Bancos de informacion (SECOBI).

Technical: also available on CD-ROM and magnetic tape. ~~Database-Manager~~. Cambridge Scientific Abstracts, on behalf of the Food and Agriculture Organization (FAO) of the United Nations, Fishery Information, Data and Statistics Service; Intergovernmental Oceanographic Commission (IOC); United Nations Environment Program (UNEP); United Nations, Office for Coastal Affairs and the Law of the Sea.

Docs: corresponds to Aquatic Sciences and Fisheries Abstracts, Part 1: Biological Sciences and Living Resources, Part 2: Ocean Technology, Policy and Non-Living Resources, Part 3: Aquatic Pollution and Environmental Quality; ASFA Marine Biotechnology Abstracts and ASFA Aquaculture Abstracts.

Record Number: 364

Contact: Biomeetings
BIOSIS
2100 Arch Street
Philadelphia, PA 19103
USA

TEL: +1 215 587 4800
TLX: 83 1739
FAX: +1 215 587 2016
E-MAIL: EasyLink G 2889584

Coverage: potential.

Subjects: bibliography.

Size: contains about 130,000 references internationally to research projects in the life sciences reported at meetings and published in books and journals for the current year.

Source: in English; covers symposia, seminars and conferences; updating monthly.

Status: on line service.

Access: BIOSIS Connection.

Technical: ~~Database-Manager~~: BIOSIS.

Record Number: 365

Contact: BIOSIS PREVIEWS
BIOSIS
2100 Arch Street
Philadelphia, PA 19103
USA

TEL: +1 215 587 4800
TLX: 83 1739
FAX: +1 215 587 2016
E-MAIL: EasyLink G 2889584

Coverage: cetaceans, pinnipeds, sirenians, polar bears, sea otters.

Subjects: bibliography.
Size: contains about 6.6 million citations to the worldwide literature on research in the life sciences, including animal science, ecology, fishing patents, biochemistry and biophysics, from 1969 to present (some on-line services only supply citations from more recent years). Test search from 1989 revealed 1,041 items for cetacea*, 3769 for whale*, 5782 for dolphin* 462 for porpoise*, 479 for pinniped*, 4238 for seal* (reduced by about 1/3 through taxonomic search), 490 for sea lion*, 189 for walrus*, 276 for sea otter*, 320 for polar bear*, 145 for sirenian*, 250 for manatee*, 142 for dugong*.
Source: in English; from about 9,000 periodicals, as well as books, patents, monographs, conference proceedings, research communications, and symposia; updating from weekly to monthly, depending on on-line service.
Status: on-line fully computerized database.
Access: BRS (BIOB, BIOL, BIOZ); BRS/After Dark (BIOB, BIOL, BIOZ); BRS Colleague (BIOB, BIOL, BIOZ); Central Institute for Scientific and Technical Information (CSTI); Canadian Online Enquiry Service (CAN/OLE); Data-Star (B177, BIOL, BIZZ); DIALOG Information Services Inc. (Files 5, 55); DIMDI, ESA-IRS (File 7); The Japan Information Center of Science and Technology (JICST); Science and Technology Information Centre, National Science Council; STN International (BIOSIS Previews/RN); University of Tsukuba.
Technical: also available on CD-ROM and magnetic tape. **Database-Manager:** BIOSIS
Docs: corresponds to Biological Abstracts and Biological Abstracts/RRM.

Record Number: 367

Contact: Conference Papers Index
Cambridge Scientific Abstracts (CSA)
7200 Wisconsin Avenue 601
Bethesda, MD 20814
USA

TEL: +1 301 961 6750
TLX: 910 250 7547 CAMBMD
FAX: +1 301 961 6720

Coverage: cetaceans, pinnipeds, sirenians, polar bears, sea otters.
Subjects: bibliography.
Size: contains over 1.3 million citations to scientific and technical papers presented at regional, national and international meetings worldwide from 1973 to present. Test search from 1973 - November 1991 revealed (combined with Aquaculture and SISSEARCH) 333 items for cetacea*, 2,457 for whale*, 958 for dolphin* (likely to include some references to "mooring dolphins" and "dolphin fish") 165 for porpoise*, 129 for pinniped*, 5073 for seal* (reduction of irrelevant material by taxonomic search not possible), 239 for sea lion*, 87 for walrus*, 284 for sea otter*, 211 for polar bear*, 54 for sirenian*, 143 for manatee*, 63 for dugong*.
Source: in English; includes life sciences; about 10,000 records added every 3 months.
Status: on-line data base.
Access: DIALOG Information Services Inc. (File 77); ESA-IRS (CPI) (File 36).
Technical: also available on magnetic tape. **Database-Manager:** Cambridge Scientific Abstracts.
Docs: corresponds to Conference Papers Index.

Record Number: 368

Contact: Life Sciences Collection
Cambridge Scientific Abstracts (CSA)
7200 Wisconsin Avenue 601
Bethesda, MD 20814
USA

TEL: +1 301 961 6750
TLX: 910 250 7547 CAMBMD
FAX: +1 301 961 6720

Coverage: potential.
Subjects: bibliography.
Size: contains citations, with abstracts, to worldwide life sciences literature from 1978 to date.
Source: in English; about 10,000 items added a month.
Status: on line service.
Access: BRS (as part of Cambridge Scientific Abstracts Life Sciences); BRS/After dark (as part of Cambridge Scientific Abstracts Life Sciences); BRS Colleague (as part of Cambridge Scientific Abstracts Life Sciences), DIALOG Information Services Inc. (file 76).
Technical: also available on CD-Rom and magnetic tape. **Database-Manager:** Cambridge Scientific Abstracts.
Docs: corresponds to Animal Behavior Abstracts; Biochemistry Abstracts-Amino-acid, Peptide and Protein; Biochemistry Abstracts-Biological Membranes; Biochemistry Abstracts-Nucleic Acids; Calcified Tissue Abstracts; Biotechnology Research Abstracts (from 1984 to date); Chemoreception Abstracts; Ecology Abstracts; Endocrinology Abstracts; Entomology Abstracts; Genetics Abstracts; Human Genome Abstracts; Basic Research and Clinical Applications; Immunology Abstracts; Marine Biotechnology Abstracts; Microbiology Abstracts-Algology, Mycology and Protozoology; Microbiology Abstracts-Bacteriology; Microbiology Abstracts-Industrial and Applied Microbiology; Neurosciences Abstracts (1983 to date); Oncogenes and Growth Factors Abstracts; Toxicology Abstracts; Virology and AIDS Abstracts; Oncology Abstracts and Feeding, Weight and Obesity Abstracts.

Record Number: 372

Contact: Director, Cetacean Research Program
Center for Coastal Studies
Box 1036
Provincetown, Mass 02657
USA
Phillip J. Clapham

TEL: +1 508 487 3622
FAX: +1 508 487 4495
E-MAIL: 730_CAM4@GRAY.WHO.EDU

Coverage: cetaceans, habitat.
Subjects: bibliography, survey, sightings, photo-id, video, sound recordings, behaviour, phyto- and zooplankton samples, effort.

Size: 10,000s of records, from 1979 to present, from Gulf of Maine (sightings records and photo-id data for humpback, fin, right, minke and sei whales, and odontocetes) and West Indies (sightings and photo-id for humpback whales only, but including a few odontocete sightings).
Source: in English; own research; updating monthly.
Status: 100% computerized.
Access: will entertain research proposals from postgraduate level or higher.
Technical: IBM compatible PC; MS DOS 5.0, D-base IV, LOTUS, Papyrus. **Database-Manager:** Margaret A. Murphy
Other: the databases have several names.

Record Number: 373

Contact: Cetacean Society International
190 Stillvold Drive
Wethersfield, CT 06109
USA
Dr Robbins Barstow

TEL: +1 203 563 6444
FAX: +1 203 257 4194

Coverage: cetaceans.
Subjects: computerized text (papers, book manuscripts), film, video.
Size: text of publications, including book manuscript Meet the Great Ones in English and Spanish; videotapes include Whales and the Law of the Sea (1984, 16 mins), New Winds Blowing: 1990 IWC Meeting (13 mins) and Beaked Whales Sighting in North Atlantic (1991, 10 min).
Source: in English; published and unpublished literature, and own research; updating irregular.
Status: text 100% computerized.
Access: freely available (at cost) on supply of disk.
Technical: Macintosh with hard copy output.
Docs: hard copy of computerized text available.
Other: database known as "Cetacean Society International".

Record Number: 380

Contact: President, Duplaix & Associates Inc.
P.O. Box 32069
Palm Beach Gardens, Florida 33420
USA
Dr Nicole Duplaix

TEL: O: +1 407 624 22 33
FAX: +1 407 624 33 33
E-MAIL: ECONET NDUPLAIX

Coverage: sea otters.
Subjects: bibliography, press reports, computerized text (papers, manuscripts, theses), survey, sightings, strandings, distribution maps, photo-id, behaviour, legislation, educational, economics, anthropology, history, protected areas, habitat, fisheries.

Size: 450+ records, photocopies, unpublished PhD theses, photographs, books (scientific, popular, children's), government reports and records; all published records from 1950 to 1988 for California, Alaska and USSR.

Source: mainly in English, some Russian, French and German.

Status: not computerized.

Access: freely available as hard copy.

Technical: IBM 386; Wordperfect, QuattroPro, Econet etc.

Docs: hard copy user guide available. Collection known as "SEA OTTERS".

Other: responder would like to donate all these materials to MK, and offers to ship them. (MK refused, with thanks, but possibly WCMC or UNEP would like to take up this kind offer?). Is also willing to help in any other way.

Record Number: 384

Contact: Computer-Readable Databases
Gale Research Inc.
835 Penobscot Building
Detroit, MI 48226-9948
USA

TEL: +1 313 961 2242 x 265
TLX: 810 221 7087
FAX: +1 313 961 6815

Coverage: potential.

Subjects: bibliography.

Size: contains descriptions of about 5,500 currently available databases accessible through online and batch-processing systems or available on computer-readable media (e.g. tape, disk, CD-ROM) for in-house use.

Source: in English; covers all subject areas; updated twice a year.

Status: on line service.

Access: DIALOG Information Services Inc. (file 230).

Technical: also available on disk and magnetic tape. **Database-Manager:** Gale Research Inc.

Docs: corresponds to Computer-Readable Databases: A Directory and Data Sourcebook.

Record Number: 387

Contact: Biological and Agricultural Index
The H.W. Wilson Company
950 University Avenue
Bronx, NY 10452
USA

TEL: +1 212 588 5400
FAX: +1 212 590 1617

Coverage: potential.

Subjects: bibliography - includes zoology, veterinary medicine, physiology, nutrition, marine biology, genetics, ecology, animal husbandry.

Size: contains about 260,000 citations to worldwide literature from July 1983 to date.

Source: in English; from articles, book reviews, conference proceedings, and selected letters to the editor in over 225 English-language periodicals on biology and agriculture; about 4,500 records added every month.

Status: on line service.
Access: WILSONLINE.
Technical: also available on CD-ROM and magnetic tape. **Database-Manager:** The H.W. Wilson Company.
Docs: corresponds to Biological and Agricultural Index.

Record Number: 388

Contact: Historical Abstracts
ABC-CLIO
130 Cremona
Box 1911
Santa Barbara, CA 93116-1911
USA

TEL: +1 805 968 1911
FAX: +1 805 685 9685
E-MAIL: DIALMAIL 2 1984

Coverage: cetaceans, pinnipeds, polar bears, sea otters.
Subjects: bibliography.
Size: contains citations, with abstracts, of the worldwide literature from about 2,000 journals and, since 1980, books and dissertations. Test search from 1973 - 1991 revealed 0 items for cetacea*, 71 for whale*, 2 for dolphin*, 4 for porpoise*, 0 for pinniped*, 180 for seal* (reduction of irrelevant material by taxonomic search not possible), 4 for sea lion*, 6 for walrus*, 4 for sea otter*, 5 for polar bear*.
Source: in English; covers the history of the world since 1450, except for the US and Canada; includes political, diplomatic, economic, social, cultural and intellectual history, and related areas of the social sciences and humanities; about 4,000 records added 6 times a year.
Status: on-line data base.
Access: DIALOG Information Services Inc. (File 39); Knowledge Index.
Technical: **Database-Manager:** ABC-CLIO.
Docs: corresponds to Historical Abstracts Part A, Modern History Abstracts (1450 -1914) and Part B, Twentieth-Century Abstracts (1914 to the present).

Record Number: 389

Contact: Dept of Anatomy
Howard University
Washington, DC 20059
USA
Dr Daryl P. Domning

TEL: O: +1 202 806 6026 H: +1 301 588 0927
FAX: +1 202 265 7055

Coverage: sirenians.
Subjects: bibliography.
Size: 4,000+ citations worldwide from 1507 to present, including all paleontological and ethnobiological as well as neobiological references, and literature on the extinct Order Desmostylia.
Source: entry in English; from worldwide published literature; updating irregular.

Status: 100% computerized.
Access: on completion of project data will be available in published hard copy form, and possibly also on disk or CD-ROM.
Technical: IBM compatible; MS DOS; Notebook II; output as hard copy or digital.
Docs: hard copy user guide planned. There is an extensive index, as well as several appendices. Both references and index entries are annotated.

Record Number: 390

Contact: Hubbs-Sea World Research Institute
1700 South Shores Road
San Diego, California 92109
USA
Ann Bowles

TEL: +1 619 226 3870
FAX: +1 619 226 3944

Coverage: cetaceans, pinnipeds, polar bears, sea otters, habitat.
Subjects: bibliography, computerized text, survey, sightings, strandings, catch data, distribution maps, photo-id, other photographs, sound recordings, behaviour, effects of noise and disturbance on animals, husbandry.
Size: bibliography - about 1,700 references, from 1900 to present, worldwide.
Source: in English; from published and unpublished literature (majority English language, some French, German, Russian) and own research; updating monthly.
Status: 100% computerized; hard copies of most items also held.
Access: after completion of project some references available on request. Full database available in 1992.
Technical: IBM compatible PC; DOS, DataPerfect; output as hard copy annotated bibliography.
Database-Manager: Donna McDonald Tel: +1 619 226 3873
Docs: hard copy user guide and file descriptions planned.
Other: keyword search (including taxonomy) possible. Database known as "CITASAN".

Record Number: 397

Contact: Marine Mammal Program
Mail Stop 108 NHB
Smithsonian Institution
Washington, DC 20560
USA
Dr James G. Mead

TEL: O: +1 202 357 1923 H: +1 703 527 8706
TLX: 264729 SMITHSN
FAX: +1 202 357 1853

Coverage: cetaceans, pinnipeds (United States National Museum - USNM specimens), sirenians (USNM specimens), polar bears (USNM specimens), sea otters (USNM specimens).
Subjects: bibliography, library catalogue, press reports, computerized text, sightings, strandings, catch data, photo-id, other photographs, dry specimens, wet specimens.
Size: total collection about 26,000 items; worldwide; from all time periods.
Source: in English; from published literature and own research; weekly updating.
Status: about 95% computerized.

Access: access through personal application; as hard copy or on supply of disk.
Technical: IBM 4381; MS DOS, PC DOS; all IBM outputs.
Docs: file descriptions available.
Other: database on strandings can be integrated with museum collections.

Record Number: 400

Contact: Moby Dick Society Inc.
PO Box 10771
Pompano Beach, FL 33061
USA
Mr David Williams

TEL: +1 305 942 9352

Coverage: cetaceans.
Subjects: strandings, computerized text.
Size: 110 pages; for the present time, from the USA coast.
Source: in English; from published literature and own research; updated yearly.
Status: No information provided
Access: on payment of US\$ 20.00, but may be free for cetacean stranding research; as hard copy.
Technical: DOS; Word Perfect 5.1.
Docs: manuscript entitled 'Auditory trauma as the major factor in strandings'.

Record Number: 403

Contact: National Marine Mammal Laboratory
National Oceanic and Atmospheric Administration (NOAA)
7600 Sand Point Way NE Bldg 4
Seattle, WA 98115-0070
USA
Dr Jeffrey M. Breiwick

TEL: +1 206 526 4029

FAX: +1 206 526 6615

E-MAIL: JMBREIWICK@edu.WASHINGTON.U.MAX

Coverage: general.
Subjects: discussed computerized bibliographies with several people (Perrin, Mead, Heyning, Tim Smith et al.), but came to few conclusions. Some are concerned about the duplication that exists with everybody entering virtually the same information in their own bibliographic systems.
Size: Perrin has about 20,000 citations (up through 1990) on Scimate (which is no longer supported having been bought out by Procite) but has started entering new citations on Papyrus; Breiwick has about 7,000 marine mammal citations (including all the papers from the former Whales Research Institute, Japan) on Procite, but is entering new material on Papyrus; large marine mammal libraries are maintained by Dale Rice (on cards only), Perrin (on Scimate and Papyrus); Mitchell (now at LA County Natural History Museum on cards only); Mead (Smithsonian on Scimate); Woods Hole Oceanographic Institution has all W. Schevill's material on Inmagic.
Source: in English, but covering at least some foreign language publications; updating is probably irregular by everyone but frequent.

Status: from 100% computerized to card files only.
Access: any system maintained and entered by US government employees should be in the public domain and available from individuals.
Technical: Scimate, Procite, Papyrus, Inmagic and End Notes are MS DOS programs, which will export the data to a delimited ASCII file.
Docs: documentation of the software programs exists, but there is probably little for the individual databases.
Other: Breiwick would like to see a standard ASCII file format developed for bibliographic data so that researchers could receive data in the standard format and easily incorporate it into their own database using their own bibliographic program. For example he would be willing to output his Whales Research Institute material to an ASCII file and make it available to others - perhaps through a marine mammal computer bulletin board.

Record Number: 407

Contact: Aquaculture
National Oceanic and Atmospheric Administration (NOAA)
National Environmental Data Referral Service
1825 Connecticut Avenue, NW
Washington, DC 20235
USA

TEL: +1 202 673 5546
FAX: +1 202 673 5586
E-MAIL: OMNET G.BARTON; NASA/SPAN NODC;BARTON

Coverage: cetaceans, pinnipeds, sirenians, polar bears, sea otters.
Subjects: bibliography.
Size: contains citations, with some abstracts, to worldwide literature from 1970 to 1984. See Conference Papers Index for results of test search.
Source: in English; covers the growing of marine, brackish and freshwater organisms, including disease, economics, engineering, nutrition, growing requirements, legal aspects and life history; not updated.
Status: on-line data base.
Access: DIALOG Information Services Inc. (File 112).
Technical: ~~Database-Manager~~: National Oceanic and Atmospheric Administration, National Environmental Data Referral Service (NOAA/NEDRESS).

Record Number: 408

Contact: Office of Protected Resources
National Marine Fisheries Service
National Oceanic and Atmospheric Administration (NOAA)
1335 East-West Highway
Silver Spring, Maryland 20910
USA
Herbert W. Kaufman

TEL: +1 301 713 2719
FAX: +1 301 588 4967

Coverage: marine mammals.

Subjects: Marine Mammal Exemption Program (MMEP) - marine mammal and fisheries interactions.
Size: Commercial Fishing Vessel Registration Information - 28,200 records from 1989 to present; Vessel Owners Daily Operations and Marine Mammal Interaction Data - 226,700 records from 1989 to present; other supporting data. Covers Category I and II fisheries only, within US 200 mile coastal waters limit.
Source: in English; information from US and foreign commercial fishing vessel owners or operators engaged in fishing operations within 200 miles of the US coastline, and fishing in either Category I or II fisheries; data is furnished on an annual and daily basis, updates and additions to the databases are made on a daily basis.
Status: 100% computerized, hard copy data forms are also available.
Access: may be obtained through Freedom of Information Act (FOIA) requests, data can only be obtained in summary form, cost will be determined on a case by case basis. Only NOAA National Marine Fisheries Service regional facilities have direct access to the data.
Technical: personal computer based system which can be run either in a standalone or networked environment; MMEP is a fully self-contained system written in Clipper v 5.01. Data file formats and structures are standard Dbase style .DBF delimited files. The Graphical User Interface (GUI) automatically sets to colour or monochrome based on the host system configuration. MMEP produces several types of reports which can be directed both to ASCII files and to printers. There is also a sophisticated graphics module to depict data spatially and graphically.
Docs: extensive user/operations manual, as well as several documents discussing the depth and breadth of the data. The database is known as "Marine Mammal Exemption Program (MMEP)".

Record Number: 410

Contact: Southwest Fisheries Science Center
National Oceanic and Atmospheric Administration (NOAA)
P.O. Box 271
La Jolla, CA 92038
USA
Dr William F. Perrin

TEL: O: +1 619 546 7096 H: 456 0940
TLX: 9103371271
FAX: +1 619 546 7003

Coverage: cetaceans, habitat.
Subjects: library catalogue, sightings, dry specimens.
Size: 1,000s of items; worldwide.
Source: in English; from English and Russian literature and own research.
Status: 10% of total collection computerized, rest uncatalogued.
Access: no outside access.
Technical:
Other: marine mammal information can be related to oceanographic and distribution information.

Record Number: 411

Contact: Life Sciences from NTIS
National Technical Information Service (NTIS)
5285 Port Royal Road
Springfield, VA 22161
USA

TEL: +1 703 487 4829
TLX: 899405
FAX: +1 703 3218199

Coverage: potential.
Subjects: bibliography - includes aquatic sciences, pollution, natural resources management.
Size: contains about 60,000 citations, most with abstracts, to unrestricted technical reports of USA and non-USA government-sponsored research, development and engineering analyses, for the most recent year.
Source: in English; updated monthly.
Status: on line service.
Access: BIOSIS Connection.
Technical: ~~Database-Manager:~~ National Technical Information Service (NTIS).

Record Number: 420

Contact: Oceanic Abstracts
Cambridge Scientific Abstracts (CSA)
7200 Wisconsin Avenue 601
Bethesda, MD 20814
USA

TEL: +1 301 961 6750
TLX: 910 250 7547 CAMBMD
FAX: +1 301 961 6720

Coverage: cetaceans, pinnipeds, sirenians, polar bears, sea otters.
Subjects: bibliography.
Size: contains approximately 204,000 citations. Test search from 1964 - to October 1991 revealed 767 items for cetacea*, 1674 for whale*, 679 for dolphin* (likely to include some references to "mooring dolphins" and "dolphin fish") 266 for porpoise*, 211 for pinniped*, 1119 for seal* (reduction of irrelevant material by taxonomic search not possible), 194 for sea lion*, 78 for walrus*, 121 for sea otter*, 28 for polar bear*, 25 for sirenian*, 60 for manatee*, 40 for dugong*.
Source: in English; world literature on oceanography and marine-related aspects of other sciences - includes zoology, acoustics, pollution, legislation; about 1,750 records added every 2 months.
Status: on-line data base.
Access: BRS (as part of Cambridge Scientific Abstracts Life Sciences); BRS/After Dark (as part of Cambridge Scientific Abstracts Life Sciences); BRS Colleague (as part of Cambridge Scientific Abstracts Life Sciences); DIALOG Information Services Inc. (File 28); ESA-IRS (File 17)
Technical: also available on magnetic tape. ~~Database-Manager:~~ Cambridge Scientific Abstracts.
Docs: corresponds to Oceanic Abstracts.

Record Number: 422

Contact: OCLC Online Union Catalog
OCLC Online Computer Library Centre Inc.
6565 Frantz Road
Dublin, OH 430 17
USA

TEL: +1 614 764 6000
TLX: 810 339 2026
FAX: +1 614 764 6096

Coverage: potential.
Subjects: bibliography.
Size: contains cataloging information for books, serials, manuscripts, sound records, audiovisual materials, maps, music scores and computer-readable files published worldwide from 2150 BC to the present.
Source: primarily in English; sources include member libraries, US Library of Congress, MARC records, CONSER (Cooperative Online Serials) Project, US Newspapers Program, Major Microforms project, the national libraries of Australia, Canada, China and the UK, National Agricultural Library, National Library of Medicine and CATLINE; updated continuously, throughout the day, about 25,000 records a week.
Status: on line service.
Access: OCLC Online Computer Library Center, Inc., EPIC Service provides a full-featured search system; also available on CD-ROM.
Technical: ~~Database Manager~~. OCLC Online Computer Library Centre, Inc., participating libraries and others.

Record Number: 426

Contact: SCISEARCH
Institute for Scientific Information (ISI)
3501 Market Street
Philadelphia, PA 19104
USA

TEL: +1 215 386 0100
TLX: 845305
FAX: +1 215 386 6362
E-MAIL: DIALMAIL 15010

Coverage: cetaceans, pinnipeds, sirenians, polar bears, sea otters.
Subjects: bibliography.
Size: contains citations to worldwide literature, covering about 4,500 journals. See Conference Papers Index for results of test search from 1974 - December 1991.
Source: in English; includes life sciences, biology, environmental sciences; about 13,000 records added each week.
Status: on-line data base.
Access: Data-Star (SC83, SCIN, SCCC, SCIX); DIALOG Information Services Inc. (Files 34, 432, 433, 434); DIMDI (IS74, IS83, IWO6); ORBIT Search Service (SCISEARCH74, SISEARCH, SCINEW); University of Tsukuba.
Technical: also available on CD-ROM and magnetic tape. ~~Database Manager~~. Institute for Scientific Information (ISI).

Docs: corresponds to Science Citation Index and ISI's Current Contents.

Record Number: 427

Contact: Sea World Inc.
7007 Sea World Drive
Orlando, FL 32821-8097
USA
Dr Daniel K. Odell

TEL: O: +1 407 363 2158 H: 345 5257
FAX: +1 407 345 5397
E-MAIL: OMNET D.ODELL

Coverage: cetaceans, sirenians (Florida manatee).
Subjects: bibliography, strandings, wet specimens and dry specimens (three primary databases), educational, sound recordings of manatee.
Size: 1,000s of items; from 1973 to present, Florida and SE USA.
Source: in English; from strandings network and literature; updating weekly.
Status: strandings records all computerized; other material 75% computerized, 25% uncatalogued.
Access: mostly for internal use; strandings data are added to the national database at the Smithsonian Institution, where they are accessible to interested individuals.
Technical:
Docs: available.
Other: subsets of strandings information can be cross-referenced with other data on the basis of date and lat/long.

Record Number: 430

Contact: Library Director, Williams Library
Texas A & M University at Galveston
PO Box 1675
Galveston, Texas 77573
USA
Natalie West

TEL: +1 409 740 4566
FAX: +1 409 740 5702
E-MAIL: OMNET TAG.LIBRARY

Coverage: cetaceans, pinnipeds, sirenians, sea otters, habitat.
Subjects: Jack K. Williams Library - bibliography, library catalogue contains information on cetaceans, pinnipeds and sirenians, marine and freshwater habitat; COMPAS (Coastal Ocean Management, Planning and Assessment System) - contains primarily information on stream flow and water quality, water rights and permitting information, as well as limited information on cetaceans, pinnipeds, sirenians and sea otters, includes computerized text, distribution maps, legislation, economics and habitat; Galveston Bay Literature Survey - is a bibliographical source containing information on cetaceans, pinnipeds, sirenians and habitat, including books, journal articles, photographs, navigation charts, film and any other source of media concerning the Bay.

Size: Williams Library - from 1975 to present, with most information from 1970 onwards, for North America with emphasis on the Gulf of Mexico and good holdings of International Whaling Commission documents; COMPAS - for all Texas (not just coastal areas) from 1970 to present; Galveston Bay Literature Survey - for Galveston Bay, from 1860 to the present, with most information from 1950 onwards (a physical copy of every item listed is being collected).

Source: in English; Williams Library - daily updating; COMPAS - Texas State documents, data from the Water Commission etc. with irregular updating; Galveston Bay Literature Survey - from published and semi-published literature, government reports, maps, aerial photographs and audiovisual material with constant updating.

Status: Williams Library - 99% computerized; COMPAS - 100%; Galveston Bay Literature Survey - 100%.

Access: Williams Library available online and most holdings available to USA interlibrary loan, all available to in-house users; COMPAS - in-house access only; Galveston Bay Literature Survey - freely available to all in-house users and audiovisual material through USA interlibrary loan, will be searchable via Internet in 1992.

Technical: Williams Library - Prime 9650; PICK; DYNIX; dial-in access modem 300 or 1200 baud, 8 stop bits, no parity, telephone numbers (409) 740 4591 or 740 4582 or 740 4583, when connected hit "return" until the message Resource or ? appears, then type in CARD and follow on-screen instructions, to logout return to original screen and type LATER, most places in the program a Q or .Q (for Quit) will give a return to the menu; COMPAS - Macintosh IICX; Hypercard, Oracle; Galveston Bay Literature Survey - VAX 31000; INMAGIC/SEARCHMAGIC with output to disk or printer.

Docs: Williams Library - on-screen instructions; COMPAS - documentation planned; Galveston Bay Literature Survey - hard copy user guide and on-screen help available.

Record Number: 440

Contact: Institute of Marine Science
University of Alaska
Fairbanks, AK 99775
USA
Francis H. Fay

TEL: 907 474 7075

Coverage: marine mammals (probably including cetaceans, pinnipeds and sea otters).
Subjects: examination of specimens, field observations; survey records via National Oceanographic Data Center, (NODS).

Size:
Source: No information provided
Status: 100% computerized
Access: stored on magnetic tape.

Technical:
Other: Karl Schneider, Alaska Department of Fish and Game, 333 Raspberry Road, Anchorage, AK 99503, USA, Tel 202 673 5640 and Robert Everitt, Department of Wildlife, Mill Creek, WA. Tel: 206 775 1311

Record Number: 444

Contact: Florida Museum of Natural History
University of Florida
Museum Road
Gainesville, Florida 32611
USA
Laurie Wilkins

TEL: +1 904 392 1721
FAX: +1 904 392 8508

Coverage: cetaceans, pinnipeds, sirenians.
Subjects: museum catalogue, including strandings and dry specimens.
Size: includes about 1,200 cetacean and 600 manatee records, mainly for Florida from 1960 to present.
Source: in English; updating yearly.
Status: at present cetacean and manatee records about 50% computerized, with the balance uncatalogued.
Access: computerized printouts freely available to all.
Technical: UNIX; information relational database system; hard copy output. Mammal collection previously on SELGEM and is currently being transferred to new system. Should be available for use in 3 months.
Docs: draft hard copy user guide and file descriptions available.
Other: marine mammal information can be used with other accessible computerized information.

Record Number: 448

Contact: Sirenia Project Leader
US Fish & Wildlife Service
National Ecology Research Centre
412 N.E. 16th Ave, Room 250
Gainesville, FL 32601
USA
Dr Thomas J. O'Shea

TEL: +1 904 872 2571
FAX: +1 904 374 8080

Coverage: sirenians.
Subjects: bibliography. library catalogue, press reports, computerized text, survey, sightings, strandings, telemetry, photo-id, other photographs, sound recordings, dry specimens, wet specimens, behaviour.
Size: library - 1,500 references on sirenia worldwide, other data for Florida manatees only; telemetry data - 15,000 locations; stranding data - 1,000 records indicating date, sex, location, morphometrics, cause; photo-id - 10,000 records; sonograms - 11,000.
Source: in English; from published literature and own research; updating irregular.
Status: all computerized except sonograms, which are uncatalogued.
Access: through academic networks and personal application with supply of disk; conditions not yet decided.
Technical: MS DOS. **Database-Manager:** Howard Kochman, Bob Bonde
Docs: hard copy and on-screen file descriptions available.

Record Number: 449

Contact: Piedras Blancas Research Station
US Fish & Wildlife Service
P.O. Box 70
San Simeon, CA 93452
USA
Dr Galen B. Rathbun

TEL: +1 805 927 3893
FAX: +1 805 927 3308

Coverage: sirenians, sea otters, habitat.
Subjects: bibliography, survey, sightings, strandings, catch data, distribution maps, photo-id, other photographs, film, behaviour, legislation, educational, economics, anthropology, history, protected areas, habitat, fisheries.
Size: 1,000s of items; from all time periods and areas.
Source: entries in all languages; from all sources; updating irregular.
Status: computerization varies.
Access: variable.
Technical: AT computers; d-Base, Papyrus, etc.

Record Number: 452

Contact: Nathalie F.R. Ward
PO Box 573
Woods Hole, MA 02543
USA

TEL: +1 508 564 5241
FAX: +1 508 540 6002

Coverage: cetaceans.
Subjects: bibliography, sightings, strandings, catch data, photo-id, other photographs, video, sound recordings, behaviour, legislation, educational, anthropology, history.
Size: Lesser Antilles and Caribbean humpback whales from about 1984 to present; Bequia and St Vincent humpback whale fishery from 1984; marine mammal strandings and sightings in the Lesser Antilles; marine mammal education in Antigua, Barbados, St Vincent and The Grenadines, Puerto Rico, Dominican Republic and New England, USA, from about 1978.
Source: in English; from published literature and own research; updating irregular.
Status: no information computerized at present.
Access: after completion of project.
Technical:

Record Number: 453

Contact: Wild Dolphin Project
21 Hepburn Ave.
Suite 20
Jupiter, Florida 33458
USA
Denise Lore Herzing

TEL: +1 407 575 5660 or 5681
FAX: +1 407 575 5681

Coverage: cetaceans (*Stenella frontalis* and *Tursiops truncatus*)
Subjects: sightings, distribution maps, photo-id, other photographs, video, sound recordings, wet specimens (prey), behaviour.
Size: sightings database about 5 mBytes; underwater photographs about 400 per year (about 2,500 total); about 36 hours per year video and sound recordings (about 200 hours total); computerized sounds about 120 mBytes; from 1985 to present, from northern Bahamas.
Source: in English; own research; constantly updated.
Status: about 80% of sightings and 20% of sounds computerized.
Access: negotiable upon conditions.
Technical: Mac IIc, spectral inner digital/analog board; MDsp (for sounds); PICT, TIFF, GBS; output as hard copy.
Docs: sightings database and subgroup data can be integrated.

Record Number: 455

Contact: Zoological Record Online
BIOSIS
2100 Arch Street
Philadelphia, PA 19103
USA

TEL: +1 215 587 4800
TLX: 83 1739
FAX: +1 215 587 2016
E-MAIL: EasyLink G 2889584

Coverage: cetaceans, pinnipeds, sirenians, polar bears, sea otters.
Subjects: bibliography - includes Mammalia, taxonomy, physiology, morphology, parasitology, biochemistry, biophysics, evolution, ecology, genetics, behavior, biometrics, communication, disease, habitat, histology, immunology, life cycle and development, locomotion, nomenclature, techniques, zoogeography.
Size: contains over 710,000 citations to worldwide literature on zoology. Test search from 1978 - 1991 revealed 5786 items for cetacea*, 2,529 for whale*, 1,167 for dolphin* 241 for porpoise*, 3343 for pinniped*, 2284 for seal* (reduced by about one third by taxonomic search), 233 for sea lion*, 144 for walrus*, 205 for sea otter*, 225 for polar bear*, 639 for sirenian*, 232 for manatee*, 275 for dugong*.
Source: in English, titles also in original languages; items from over 6,000 sources, including journals, books, monographs, newsletters and conference proceedings; updating monthly.
Status: on-line data base.

Access: BRS (ZREC); BRS/Sfter Dark (ZREC); BRS Colleague (ZREC); DIALOG Information Services Inc. (File 185).
Technical: ~~Database Manager~~: BIOSIS, in cooperation with the Zoological Society of London.
Docs: corresponds to Zoological Record.

Record Number: 463

Contact: Croatian Biological Society
Medical School
University of Zagreb
Salata 3
41000 Zagreb, Republic of Croatia
YUGOSLAVIA
Professor D. Sherman

TEL: +38 41 271 188, 272 050 H: 410 823
FAX: +38 41 424 001, 272 050 H: 410 823

Coverage: cetaceans, pinnipeds.
Subjects: bibliography, computerized texts (papers, press reports, book manuscripts), sightings, strandings, catch data, distribution maps, photo-id, educational, sociology, protected areas, habitats, video.
Size: monk seal and, more recently, bottlenose dolphin; from about 1985 for the Croatian coastline and islands of the Adriatic Sea.
Source: in English and Croatian; from published literature and own research.
Status: information to be computerized as soon as possible.
Access: No information provided
Technical:
Docs: monk seal sightings data published in international newsletters.

APPENDIX C
INDEX OF INDIVIDUALS CONTACTED

Record numbers (**bold**) cross-refer to Appendices A and B

Agler, Beverly **375**
Aguilar, Dr Alex **264**
Al-Barwani, Mr Mohamed Amur **272**
Albert, Dr T. **379**
Ames, Mr Jack **366**
Aminul Haque, Prof Dr A.K.M. **23**
Amos, Dr W. **344**
Amstrup, Mr Steven C. **447**
Amundin, Dr Mats **277**
Anderson, Dr Charles **236**
Anderson, Dr Paul K. **62**
Anderson, Mr G.R.V. **11**
Anganuzzi, Alejandro **392**
Au, Dr Whitlow **413**
Bakken, Vida **205**
Balcomb, Ken **370**
Bannister, Mr John L. **18**
Barlow, Dr Jay **409**
Barstow, Dr Robbins **373**
Barthelmess, Klaus **121**
Belikov, Dr Stanislav **245**
Ben-David, Ms Merav **357**
Berrow, Dr Simon **150**
Best, Dr Peter B. **259**
Bisbal, Mr Francisco **459**
Bjorge, Dr Arne **204**
Bonnely de Calventi, Prof Idelisa **92**
Borchers, D. **257**
Born, Mr Erik W. **85**
Bowles, Ann **390**
Bowles, David **318**
Boyde, Dr I. **314**
Braham, Dr H.W. **359**
Breiwick, Dr Jeffrey M. **403**
Britten, Barbara **361**
Broekema, Drs Jan Willem **296**
Brownell Jr, Dr Robert L. **438**
Bryden, Professor M.M. **17**
Buckland, Dr S.T. **336**
Burhenne, Françoise **126**
Burkanov, Dr Vladimir N. **243**
Butterworth, Dr D.S. **258**
Buxton, Lord **340**
Cabello Cardenas, Dr Carlos **71**
Calambokidis, John **369**
Casco, Sergio Martinez **196**
Castilla, Professor Juan C. **74**
Cawthorn, Mr Martin W. **189**
Celikkale, Professor M. Salih **309**
Chansang, Dr Hansa **295**
Chapman, Dr Douglas G. **436**
Chehebar, Mr Claudio E. **4**
Chen, Dr George C.T. **290**
Christensen, Mr Ivar **201**
Chung, Chris **115**
Clapham, Phillip J. **372**
Clark, Dr Christopher W. **377**
Cockcroft, Dr Victor **238**
Collet, Dr Anne **110**
Cooke, Dr Justin G. **123**
Costa, Dr Daniel **442**
Cravino, Dr Jorge Luis **355**
Crespo, Dr Enrique Alberto **7**
Da Silva, Vera M.F. **334**
Dale, Mr S.M. **343**
Daniel, Mr J.C. **142**
Daves, Nancy K. **362**
David, Dr Jeremy H.M. **239**
Davison, Dr Dan **435**
Dawson, Dr Stephen M. **195**
De Guise, Sylvain **61**
De Jongh, Dr Hans **301**
De la Mare, Dr W.K. **298**
De Villiers, N. **300**
DeGange, Mr Anthony **437**
DeLong, Mr R.L. **404**
Desportes, Genevieve **101**
Dobbs, Dr Horace E. **316**
Dolar, Ms Marie Louella **224**
Domning, Dr Daryl P. **389**
Donoghue, Mr M.F. **191**
Donovan, Mr G. **327**
Dos Santos, Manuel E. **229**
Duplaix, Dr Nicole **380**
Duran Neira, Dr Carlos **260**
El-Wakeel, Professor S.K. **234**
Evans, Dr P.G.H. **342**
Evans, Dr W.E. **431**
Fadhil, Salem B. **271**
Fakhro, Khalid **22**
Farkin, Mr Bernard **275**
Fay, Francis H. **440**
Fiorelli, Ms Patricia **416**
Fleischer, Mr Luis A. **180**
Folkens, Mr Pieter Arend **419**
Foote, Kenneth G. **200**
Foster-Turley, Ms Pat **399**
Fowler, Dr Charles W. **402**

Fraker, Dr M.A. 429
 Freeland, Dr William J. 13
 Freeman, Dr Jerry 233
 Freeman, Professor Milton 48
 Frost, Kathryn J. 358
 Fulton, Ms Carol 383
 Gaethlich, Mr Martin D. 131
 Garcia-Castrillo Riesgo, Dr Geraldo 263
 Garner, Dr Gerald W. 446
 Garrigue, Dr Claire 188
 Gaskin, Professor David E. 63
 Glockner-Ferrari, Debbie 371
 Glover, Dr T. 385
 Goodall, Ms R. Natalie P. 5
 Gordon, Dr Jonathon 348
 Gove, Mr Domingos Zefanias 185
 Greenwood, Mr Andrew 329
 Gronvik, Sidsel 203
 Gubbay, Dr S. 331
 Gunaratna, R. 267
 Hagler, Mike 190
 Hailey, Neil 317
 Held, Ms Muriel M. 273
 Helle, Dr Eero 108
 Herzing, Denise Lore 453
 Heyning, Dr John E. 412
 Hiby, Mr Lex 339
 Hillman, Dr Jesse C. 99
 Hislop, John 337
 Holt, Dr Sidney J. 156
 Holthus, Paul 193
 Hoyt, Erich 322
 Ibe, Chidi 118
 Inacio, Aldina 228
 Jacobs, Mark 313
 Johnson, Dr Timothy 349
 Kapel, Dr F. 87
 Kastelein, Dr Ron A. 304
 Kasuya, Dr Toshio 159
 Kaufman, Herbert W. 408
 Kim, Zang Geun 237
 Kinze, Dr Carl Christian 91
 Klinowska, Dr Margaret 345
 Korth, Wolfgang 125
 Krabbe, Poul 90
 Kraus, Scott 415
 Kuiken, Thijs 351
 Kumar Shrestha, Dr Tej 186
 Kumari de Silva, Dr Padma 269
 Larsen, Dr F. 86
 Lavigne, Professor David M. 56
 Leatherwood, Mr Stephen 433
 Lee, Dr Ling-Ling 291
 Lee, Han Chen 117
 Lee, John 51
 Lens, Santiago 262
 Lichter, A.A. 6
 Lien, Professor J. 58
 Linet, Mrs Christiane 31
 Liu, Professor Renjun 217
 Ljungblad, Donald K. 414
 Llanos, Ambassador Hugo 72
 Lockyer, Dr C. 338
 Lodi, L. 36
 Luscombe, Mr Tony 220
 Lyngge, Finn 84
 Lyons, Bob 52
 Lyrholm, Thomas 279
 MacCall, Dr Alec D. 417
 Madsen, Dr Aksel Bo 88
 Mahat, Mr Gopal 35
 Manton, Mr Victor J.A. 319
 Marsh, Dr Helene 15
 Mate, Prof B.R. 424
 Mayer, Dr S.J. 321
 McBrearty, Mr D.A. 332
 McCormick, Richard 149
 McDowell, Robyn 104
 McNeeley, Mr Jeffrey 282
 Mead, Dr James G. 397
 Miller, Dr Kenton 454
 Mirza, Mr Abrar Husain 212
 Mitchell, Dr Edward 45
 Mizroch, Dr Sally 406
 Mohammad Khan, Mr Khan 211
 Mohan, Dr R.S. Lal 144
 Momin Khan, Mr Mohd Khan b. 172
 Montemayor de Blohm, Mrs Cecilia 457
 Morrison, Professor J. 105
 Newman, Dr Murray A. 67
 Niazi, Mr Mohammad Sadiq 210
 Nitta, Eugene T. 451
 Nores, Carlos 265
 Norris, Professor Kenneth S. 443
 Northridge, Mr Simon 323
 Notarbartolo-di-Sciara, Dr Giuseppe 157
 Nugegoda, Mr Vasantha Kosala 268
 O'Shea, Dr Thomas J. 448
 Odell, Dr Daniel K. 427
 Ohsumi, Dr Seiji 160
 Oien, Nils 199
 Ojasti, Prof Juhani 460
 Olsson, Prof Dr Mats 280
 Oporto Barria, Jorge A. 75
 Oritsland, Torger 202
 Otobed, Mr Demei O. 235
 Palazzo Jr, Jose Trudo 39
 Parker III, Mr Ted 394
 Payne, Dr Roger S. 393
 Pearse, Prof John S. 391

Perrin, Dr William F. 410
Pinedo, Mr C. 37
Polacheck, Dr T. 14
Polechla Jr., Dr Paul J. 441
Powell, Dr D.L. 12
Powell, Mr James 43
Praderi, Dr Ricardo 356
Preen, Mr Anthony 16
Prieto, Mr Mariuxi 96
Prince, Dr R.I.T. 19
Pullen, Dr Sian 350
Pulliainen, Prof Erkki 107
Quintero, Dr Hector 232
Raftery, Dr Adrian E. 445
Raga, J.A. 261
Ralls, Dr Katherine 428
Ramsay, Dr Malcolm A. 66
Ranft, Richard 315
Ranjitsinh, Dr M.K. 143
Rathbun, Dr Galen B. 449
Reeves, Mr Randall R. 60
Reijnders, Dr P.J.H. 303
Reiner, Francisco 230
Reyes, Mr Julio 221
Reynolds III, Dr John E. 381
Reza Khan, Dr M.A. 352
Rice, Mr Dale W. 405
Richardson, Dr W. John 57
Robineau, Dr Daniel 114
Romero, Dr Aldemaro 458
Ronald, Professor Keith 65
Rosas, Mr Fernando C. Weber 38
Rose, Mr Patrick M. 423
Ross, Dr Graham J.B. 8
Ryo, Dr Morten 207
Savona Ventura, Dr C. 174
Schliebe, Mr Scott 450
Schumacher, Dr 122
Schweder, Professor Tore 198
Sears, Richard 59
Senn, David G. 283
Sequeira, Marina 231
Shah, Nirmal Jivan 251
Sheldrick, Mr M. 333
Sherman, Professor D. 463
Shoup, Sally 386
Sigurjonsson, Dr Johann 141
Skora, Dr Krzysztof E. 226
Slater, Wayne 10
Slooten, Dr Elisabeth 194
Smeenck, Dr Chris 302
Smith, Dr T.D. 398
Smolowitz, Dr R.J. 376
Sokolov, Professor V. 241
Spiridonov, Dr Geko 42

Stacey, Pamela 378
Stanzani, Leandro A. 153
Sterrer, Dr Wolfgang 34
Stirling, Dr Ian 49
Stokes, Kevin 320
Stuart, Simon 285
Sudara, Dr Suraphol 292
Supaphon, Piyanart 293
Sutanto Suwelo, Mr Ismu 145
Swartz, Steven L. 396
Tabor, Dr A.R. 341
Tas'an, 147
Ten Hallers-Tjabbes, Dr Cato C. 297
Tenicela, Dr Maria V. 223
Terry, Mr R. Paul 299
Tershy, Bernie 401
Thompson, Dr Paul 330
Thorpe, John P. 324
Torres N., Professor Daniel 73
Trillmich, Dr Fritz 127
Twiss Jr., Mr John R. 395
Uspenski, Dr Savva M. 242
Van Bree, Dr Peter J.H. 305
Van Waerebeek, Mr Koen 222
Van den Sande, Mr P. 29
Vasquez, Oswaldo Emiddio 94
Vidal, Prof Omar 181
Vongraven, Dag 208
Voskresensky, M. 325
Vousden, David 70
Walker, Celine F. 281
Wang, Xiaoyan 219
Ward, Nathalie F.R. 452
Warhol, Patricia 360
Warras, Markku 28
Wartenberg, Charles 328
Wells, Dr Randall S. 374
Wells, Richard R. 47
West, Natalie 430
Whitehead, Dr Hal 50
Whyte, Sean R. 347
Wiig, Dr Oystein 206
Wilkins, Laurie 444
Williams, Mr David 400
Wursig, Prof Bernd 432
Wynstekers, Willem 25
Ximenez, Prof Alfredo 40
Yablokov, Prof Alexey V. 244
Yang, Mrs Chang-man 253
Zhou, Professor Kaiya 218

APPENDIX D

INDEX OF ORGANISATIONS CONTACTED

Record numbers (left column) cross-refer to Appendices A and B

- 82 Academia de Ciencias de Cuba, Instituto de Oceanologia, CUBA
- 92 Academia de Ciencias Rep. Dominicana, Presidente Comision Biologia, DOMINICAN
REPUBLIC
- 217 Academia Sinica, Institute of Hydrobiology, PEOPLE'S REPUBLIC OF CHINA
- 241 Academy of Sciences USSR, Institut scientifique des peches maritimes (ISPM), RUSSIAN
FEDERATION
- 4 Administracion de Parques Nacionales, ARGENTINA
- 153 Adriatic Sea World - Delphinarium Riccione, ITALY
- 281 Advisory Committee for the Co-ordination of [all UN] Information, SWITZERLAND
- 311 Advisory Committee on Pollution of the Sea, UK
- 1 Agence nationale pour la protection de l'environnement, ALGERIA
- 167 Agricultural Affairs and Fish Resources Authority, Fisheries Resources Department,
KUWAIT
- 357 Alaska Co-operating Wildlife Research Unit, USA
- 358 Alaska Department of Fish and Game, USA
- 359 Alaska Fisheries Science Center, USA
- 242, 245 All Union Research Institute of Nature Conservation and Reserves, RUSSIAN
FEDERATION
- 360, 361 American Cetacean Society, USA
- 362 Animal Protection Institute of America, USA
- 228 Aquario Vasco da Gama, PORTUGAL
- 363 Aquatic Sciences and Fisheries Abstracts (ASFA), USA
- 288 Arab Centre for the Studies of Arid Zones and Dry Lands (ACSAD), SYRIA
- 45 Arctic Biological Station, CANADA
- 46 Arctic Science and Technology Information System, CANADA
- 154 ASFIS, ITALY
- 220, 221 Asociacion de Ecologia y Conservacion (ECCO), PERU
- 8 Australian Biological Resources Study, AUSTRALIA
- 9 Australian Marine Research in Progress (AMRIP), AUSTRALIA
- 10, 11 Australian National Parks and Wildlife Service (ANPWS), (ERIN), AUSTRALIA
- 274 Baltic, SWEDEN
- 179, 312 Banco de Informacion sobre Medicina Veterinaria (BIVE), MEXICO
- 313 BBC Natural History Unit, UK
- 34 Bermuda Natural History Museum, BERMUDA
- 364 Biomeetings, BIOSIS, USA
- 365 BIOSIS PREVIEWS, USA
- 142 Bombay Natural History Museum, INDIA
- 314 British Antarctic Survey (BAS), UK
- 315 British Library of Wildlife Sounds, UK
- 122 Bundesanstalt fur Gewasserkunde (BFG), GERMANY
- 219 Bureau of Fisheries Management, PEOPLES REPUBLIC OF CHINA
- 366 California Dept of Fish & Game, USA
- 367 Cambridge Scientific Abstracts (CSA), Conference Papers Index, USA
- 368 Cambridge Scientific Abstracts (CSA), Life Sciences Collection, USA
- 47 Canadian Atlantic Fisheries Advisory Committee, CANADA
- 48 Canadian Circumpolar Institute, CANADA
- 49 Canadian Wildlife Service, CANADA
- 187 Caribbean Foundation, NETHERLANDS ANTILLES
- 369 Cascadia Research Collective, USA

- 297 Cato Marine Ecosystems, THE NETHERLANDS
155 CEC-JRC Environmental Research Programme, ITALY
123 Center for Long Term Ecosystem Management, GERMANY
370 Center for Whale Research, USA
371 Center for Whale Studies, USA
109 Centre d'activites regionales du Plan bleu pour la Mediterranee, FRANCE
81 Centre de recherches oceanographiques, COTE D'IVOIRE
145 Centre for Forestry Official Education and Training, INDONESIA
146 Centre for Oceanological Research and Development, INDONESIA
275 Centre for Studies of Whales and Dolphins, SWEDEN
177 Centre national de recherches oceanographiques et des peches, MAURITANIA
171 Centre national de recherches oceanographiques, MADAGASCAR
136 Centre national pour la protection du milieu marin, GUINEA
110 Centre Nationale d'Etude des Mammifères Marins, Musee Oceanographique, FRANCE
188 Centre ORSTOM de Noumea, NEW CALEDONIA
5 Centro Austral de Investigaciones Cientificas, ARGENTINA
71 Centro de Desarrollo Ambiental-Chiloe (CENDA), CHILE
98 Centro de Desarrollo Pesquero, EL SALVADOR
76 Centro de Investigaciones Marinas y Tecnologicas del Pacifico, COLOMBIA
260 Centro de Investigaciones Submarinas, SPAIN
222 Centro Peruano de Estudios Cetologicos (CEPEC), PERU
372 Cetacean Research Program, USA
373 Cetacean Society International, USA
95 Charles Darwin Research Station, ECUADOR
374 Chicago Zoological Society, Brookfield Zoo, USA
292 Chulalongkorn University, Department of Marine Science, THAILAND
182 CIESM Working Group on Marine Mammals Data Base, MONACO
375 College of the Atlantic, North Atlantic Finback Whale Catalogue, USA
72 Comision Permanente del Pacifico Sur (CPPS), Secretary General, CHILE
12 Commission for the Conservation of Antarctic Marine Living Resources (CCAMLR),
Executive Secretary, AUSTRALIA
25 Commission of the European Communities, BELGIUM
26 Commission of the European Communities DG XIII, Environmental Research
Projects/Environmental Information and Document Centres, BELGIUM
103 Committee for Co-ordination of Joint Prospecting for Mineral Resources in the South
Pacific Offshore Areas, FIJI
102 Community College of Micronesia, FEDERATED STATES OF MICRONESIA
13 Conservation Commission of the Northern Territory, Head of Wildlife Division, AUSTRALIA
189 Conservation Sciences Centre, NEW ZEALAND
376 Coonamessett Farm, USA
27 CORINE Co-ordination of Information on the Environment, BELGIUM
377 Cornell University, USA
378 Cousteau Society, USA
14 CSIRO, AUSTRALIA
140 D.G. de Recursos Naturales Renovables, HONDURAS
50 Dalhousie University, Biology Dept, Nova Scotia, CANADA
84 Danish Ministry of Foreign Affairs, Advisor on Greenland, DENMARK
299 Delft University of Technology, Information Theory Group, THE NETHERLANDS
93 Departamento de los Recursos Pesqueros, DOMINICAN REPUBLIC
464 Departement de l'environnement, ZAIRE
461 Department of Agriculture, Forests and Fisheries, WESTERN SAMOA
198 Department of Economics, NORWAY
51 Department of Renewable Resources, CANADA
379 Department of Wildlife Management, USA
261 Department of Zoology, SPAIN

- 251 Dept. of the Environment, Director, SEYCHELLES
 172 Dept. of Wildlife & National Parks, Director General, MALAYSIA
 41 Directorate on Environmental Protection, BRITISH VIRGIN ISLANDS
 183 Directorate on Environmental Protection, MONTserrat
 310 Directorate on Environmental Protection, TURKS AND CAICOS ISLANDS
 235 Division of Conservation/Entomology, REPUBLIC OF PALAU
 352 Dubai Zoo, UNITED ARAB EMIRATES
 381 Eckerd College, USA
 96 Ecuadorian Foundation for the Study of Marine Mammals, ECUADOR
 185 Eduardo Mondlane University, Inhaca Marine Biological Station, MOZAMBIQUE
 317 English Nature, UK
 106 Environmental Data Centre, FINLAND
 318 Environmental Investigation Agency, UK
 162 Environmental Liason Centre, KENYA
 382 Environmental Monitoring and Assessment Programme EMAP, USA
 22 Environmental Protection Committee, BAHRAIN
 129 Environmental Protection Council, GHANA
 99 Ethiopian Wildlife Conservation Organisation, ETHIOPIA
 28 EUREKA Secretariat, BELGIUM
 111 EURISY Association, International Space Year - 1992 (ISY), FRANCE
 319 European Association for Aquatic Mammals, UK
 300 European Space Agency (ESA), Earth Observation Department, THE NETHERLANDS
 159 Far Seas Fisheries Research Laboratory, JAPAN
 320 Fisheries Laboratory, UK
 383 Friends of the Sea Otter, Executive Director, USA
 457 FUDENA, Venezuela, VENEZUELA
 36 Fundação Brasileira para a Conservação da Natureza, BRAZIL
 37 Fundação Universidade do Rio Grande, Depto. Oceanografia, BRAZIL
 458 Fundacion BIOMA, VENEZUELA
 6 Fundacion Vida Silvestre Argentina, Grupo Cetaceos, ARGENTINA
 384 Gale Research Inc., Computer-Readable Databases, USA
 210 Gov. of Pakistan Marine Fisheries Dept., Deputy Director, PAKISTAN
 290 Graduate School of Fisheries, TAIWAN
 85, 86 Greenland Fisheries Research Institute, DENMARK
 52 Greenpeace Canada, Greenbase, CANADA
 190 Greenpeace, NEW ZEALAND
 321 Greenpeace, UK
 386 Greenpeace, USA
 87 Gronlands Fiskereundersogelser, DENMARK
 387 Biological and Agricultural Index, H.W. Wilson Co., New York, USA
 388 Historical Abstracts, USA
 389 Howard University, Dept of Anatomy, USA
 131 HSPN, GREECE
 390 Hubbs-Sea World Research Institute, USA
 53 IFIAS - Human Dimensions of Global Change (HDGC), CANADA
 323 Imperial College Centre for Env. Techn., Renewable Resources Assessment Group, UK
 124, 125 Informationzentrum fur Biologie (IZB), GERMANY
 180 Centro Regional de Investigacion Pesquera, Secretaria de Pesca, MEXICO
 138 Institut Francais de recherche pour l'exploitation de la mer, GUYANE FRANCAIS
 176 Institut Francais de recherche pour l'exploitation de la mer, MARTINIQUE,
 227 Institut Francais de recherche scientifique pour la developement, POLYNESIE FRANCAIS
 308 Institut national scientifique et technique d'oceanographie et de peche, TUNISIA
 184 Institut scientifique des peches maritimes (ISPM), MOROCCO
 160 Institute of Cetacean Research, JAPAN
 252 Institute of Marine Biology and Oceanography, SIERRA LEONE

- 202 Institute of Marine Research, Marine Mammals Division, NORWAY
199,200,201 Institute of Marine Research, NORWAY
391 Institute of Marine Sciences, USA
181 Instituto Tecnológico y de Estudios Superiores de Monterrey-Campus Guaymas, MEXICO
73 Instituto Antártico Chileno, CHILE
262 Instituto Español de Oceanografía, SPAIN
38 Instituto Nacional de Pesquisas da Amazonia (INPA), BRAZIL
196 Instituto Nicaraguense de la Pesca (INPESCA), NICARAGUA
229 Instituto Superior de Psicologia Aplicada (ISPA), PORTUGAL
392 Inter-American Tropical Tuna Commission (IATTC), USA
232 Inter-American University of Puerto Rico, PUERTO RICO
293 Interim Committee for the Co-ordination of Investigations of the Lower Mekong Basin,
THAILAND
137 International Centre for Research on Manatees, GUYANA
112 International Council of Scientific Unions (ICSU), Scientific Committee on Problems of the
Environment (SCOPE), FRANCE
324 International Fund for Animal Welfare, UK
54 International Geographical Union (IGU), CANADA
276 International Geosphere-Biosphere Programme (IGBP), SWEDEN
55 International Joint Commission (Canada/USA), CANADA
56 International Marine Mammal Association Inc., CANADA
325 International Maritime Organisation (IMO), UK
326 International Waterfowl and Wetland Research Bureau, UK
327 International Whaling Commission (IWC), UK
328 International Wildlife Coalition, UK
329 International Zoo Veterinary Group, UK
149 Irish Sea Fisheries Board, IRELAND
152 Israel Oceanographic and Limnological Research, ISRAEL
126 IUCN Environmental Law Centre, ELIS, GERMANY
282 IUCN, SWITZERLAND
15, 16 James Cook University, Department of Zoology, AUSTRALIA
147 Jaya Ancol Oceanarium, INDONESIA
243 Kamchatka Department of Environment, RUSSIAN FEDERATION
309 Karadeniz Technical University, TURKEY
277 Kolmardens Djurpark, SWEDEN
353 Kunduchi Marine Fisheries Research and Training Institute, UNITED REPUBLIC OF
TANZANIA
133 L'Architecture et l'environnement Guadeloupe, GUADELOUPE
80 Laboratorio de Investigaciones Marinas de Punta Morales, COSTA RICA
130 Laboratory of Biological Oceanography, National Centre for Marine Research, GREECE
301 Leiden University, Centre for Environmental Studies, THE NETHERLANDS
57 LGL Ltd. Environmental Research Associates, CANADA
393 Long Term Research Institute, USA
394 Louisiana State University, Museum of Natural Science, USA
170 Marine Biology Research Centre, LIBYAN ARAB JAMAHIRYA
331 Marine Conservation Society, UK
395, 396 Marine Mammal Commission, USA
191, 398 Marine Mammal Investigation, USA
397 Marine Mammal Program, USA
168 Marine Research Centre, LEBANON
289 Marine Research Centre, SYRIA
216 Marine Science and Resources Research Centre, PDR YEMEN
161 Marine Science Station, JORDAN
148 Marine Sciences Centre, IRAQ
399 Marine World Foundation, USA

- 175 Marshall Islands Environmental Protection Authority, Ministry of Health Services,
MARSHALL ISLANDS
- 127 Max-Planck Institut, GERMANY
- 113 Medifaune, FRANCE
- 58 Memorial University of Newfoundland, Ocean Sciences Centre, CANADA
- 249 Meteorology and Environmental Protection Administration, SAUDI ARABIA
- 59 Mingan Island Cetacean Study, CANADA
- 355 Ministere de Ganaderia Agricultura y Pesca, Jefe de Departamento Tecnico de la Division
Fauna, URUGUAY
- 119 Ministere de l'environnement et de la protection de la nature, GABON
- 77 Ministere de l'equipement et de l'environnement, COMORES
- 78 Ministere du tourisme, Direction de l'environnement, CONGO
- 213 Ministerio de Planificacion y Politica Economica, PANAMA
- 83 Ministry of Agriculture & Natural Resources, Fisheries Department, CYPRUS
- 209, 271 Ministry of Agriculture and Fisheries, Department of Fisheries Research, OMAN
- 35 Ministry of Agriculture and Forestry, BHUTAN
- 32 Ministry of Agriculture, BELIZE
- 178 Ministry of Agriculture, Fisheries, & Natural Resources, Fisheries Division, MAURITIUS
- 456 Ministry of Agriculture, Forestry and Fisheries, VANUATU
- 246 Ministry of Agriculture, Lands, Fisheries & Cooperatives, Fisheries Management Unit,
SAINT LUCIA
- 247 Ministry of Agriculture, Lands, Housing and Development, SAINT CHRISTOPHER AND
NEVIS
- 21 Ministry of Agriculture, Trade and Industry, BAHAMAS
- 3 Ministry of Economic Development, External Affairs, Tourism and Energy, ANTIGUA AND
BARBUDA
- 79 Ministry of Education, Agriculture, Health and Conservation, COOK ISLANDS
- 24 Ministry of Employment, Labour Relations & Community Development, Environmental
Unit, BARBADOS
- 143 Ministry of Environment & Forests, INDIA
- 42 Ministry of Environment, BULGARIA
- 128 Ministry of Environment, Nature Conservation and Nuclear Safety, Integrated
Bio-Monitoring System, GERMANY
- 236 Ministry of Fisheries & Agriculture, Marine Research Section, REPUBLIC OF MALDIVES
- 307 Ministry of Food Production, Marine Exploitation, Forestry & the Environment, Fisheries
Division, TRINIDAD AND TOBAGO
- 132 Ministry of Health and Housing, GRENADA
- 2 Ministry of Lands, Agriculture, Fisheries & Health, Directorate on Environmental
Protection, ANGUILLA
- 306 Ministry of Lands, Survey and Natural Resources, TONGA
- 256 Ministry of Marine Transport, Sea and Ports, SOMALIA
- 173 Ministry of Science, Technology and Environment, MALAYSIA
- 120 Ministry of Water Resources, Forestry and Fisheries, GAMBIA
- 240 Mission de l'environnement, REUNION
- 400 Moby Dick Society Inc., USA
- 401 Moss Landing Marine Labs, USA
- 263 Museo Maritimo del Cantabrico, SPAIN
- 356 Museo Nacional de Historia Natural, URUGUAY
- 114 Museum National d'Histoire Naturelle, Laboratoire d'Anatomie Comparee, FRANCE
- 101 Museum of Natural History, FAROE ISLANDS
- 218 Nanjing Normal University, PEOPLE'S REPUBLIC OF CHINA
- 169 National Fisheries Division, LIBERIA
- 237 National Fisheries Research and Development Agency, REPUBLIC OF KOREA
- 402-406 National Marine Mammal Laboratory, USA
- 302 National Museum of Natural History, THE NETHERLANDS

- 409 National Oceanic and Atmospheric Administration (NOAA), Southwest Fisheries Science Center, USA
- 407, 408, 410 National Oceanic and Atmospheric Administration (NOAA), Southwest Fisheries Center, USA
- 291 National Taiwan University, TAIWAN
- 411 National Technical Information Service (NTIS), USA
- 253 National University of Singapore, Zoological Reference Collection, SINGAPORE
- 268 National Zoological Gardens, SRI LANKA
- 88 Natural History Museum, DENMARK
- 412 Natural History Museum of Los Angeles County, USA
- 283 Natural History Museum, SWITZERLAND
- 333 Natural History Museum, UK
- 70 Natural Sciences Unit, CAYMAN ISLANDS
- 413, 414 Naval Ocean Systems Center, USA
- 415, 416 New England Aquarium, USA
- 43 New York Zoological Society, CAMEROON
- 417 NMFS Southwest Fisheries Center, USA
- 89 Nordic Council of Ministers, Integrated Monitoring, DENMARK
- 90 North Sea Museum, DENMARK
- 418 Northern Fur Seal Commission, USA
- 203 Norwegian College of Fishery Science, NORWAY
- 204 Norwegian Inst. of Nature Research, NORWAY
- 205, 206 Norwegian Polar Research Institute, NORWAY
- 419 Ocean Society Exp., USA
- 420 Oceanic Abstracts, USA
- 421 OCEANIC - The OCEAN Network Information Center, USA
- 422 OCLC Online Union Catalog, USA
- 423 Office of Protected Species Management, USA
- 294 Office of the National Environment Board, THAILAND
- 60 OKAPI Wildlife Associates, CANADA
- 272 Ministry of Agriculture & Fisheries, SULTANATE OF OMAN
- 424 Oregon State University, Extension Oceanography, USA
- 115 Organisation for Economic Co-operation and Development (OECD), FRANCE
- 100 Organization for African Unity, ETHIOPIA
- 425 Organization of American States, USA
- 248 Organization of East Caribbean States, SAINT LUCIA
- 74 P.U. Catolica de Chile, F. C. Biologicas, CHILE
- 104 Pacific Islands Marine Resources Information System (PIMRIS), FIJI
- 295 Phuket Marine Biological Center, THAILAND
- 156 Podere Il Falco, ITALY
- 238 Port Elizabeth Museum, REPUBLIC OF SOUTH AFRICA
- 139 Programme des peches et pisciculture, HAITI
- 141 Programme for Whale Research, ICELAND
- 94 Proyecto Mamiferos Marinos (CIBIMA), DOMINICAN REPUBLIC
- 233 Puerto Rico Inter American University, PUERTO RICO
- 270 Red Seas Fisheries Research Station, Fisheries and Hydrobiological Research Unit, SUDAN
- 230 Reiner, PORTUGAL
- 144 Research Centre of Central Marine Fisheries Research Institute, INDIA
- 334 Research Group in Mammalian Ecology and Reproduction, UK
- 303 Research Institute for Nature Management, THE NETHERLANDS
- 278 Royal Library, LIBRIS (Library Information System), SWEDEN
- 29 RSZA, BELGIUM
- 462 San'a University, Faculty of Science, YEMEN ARAB REPUBLIC
- 426 SCISEARCH, USA

- 192 SCITECH Index, NEW ZEALAND
335 Scott Polar Research Institute (SPRI), UK
336 Scottish Agricultural Statistics Service, UK
337 Scottish Office Agriculture and Fisheries Department, UK
239 Sea Fisheries Research Institute, REPUBLIC OF SOUTH AFRICA
338, 339 Sea Mammal Research Unit (SMRU), UK
427 Sea World Inc., USA
459 Servicio Autonomo Profauna-MARNR, VENEZUELA
231 Servicio Nacional de Parques, Reservas e Conservação da Natureza, PORTUGAL
224 Silliman University, Marine Laboratory, PHILIPPINES
211, 212 Sind Wildlife Management Board, Conservator Wildlife, PAKISTAN
428 Smithsonian Institution, USA
174 Society for the Study and Conservation of Nature, MALTA
429 Sohio Alaska Petroleum Co., USA
254 Solomon Islands National Museum and Cultural Centre, SOLOMON ISLANDS
255 South Pacific Coastal Zone Management Programme, SOLOMON ISLANDS
193 South Pacific Regional Environment Programme (SPREP), NEW CALEDONIA
225 Southeast Asian Fisheries Development Centre, PHILIPPINES
61 St Lawrence National Institute of Ecotoxicology, CANADA
244 State Counsellor for Ecology and Public Health, RUSSIAN FEDERATION
279 Stockholm University, Department of Zoology, SWEDEN
273 Surinam Forest Service, Nature Conservation Research, SURINAME
340 Survival Anglia, UK
280 Swedish Museum of Natural History, Contaminant Monitoring Group, SWEDEN
157 Tethys Research Institut, ITALY
430 Texas A&M University at Galveston, Williams Library, USA
431 Texas A&M University, Texas Institute of Oceanography, USA
432 Texas A&M University at Galveston, Marine Mammal Research Program, USA
433 Texas A&M University, College of Agriculture & Life Sciences, USA
434 The World Bank, Environment Dept., Environmental Information System (ENVIS), USA
186 Tribhuvan University, Department of Zoology, NEPAL
435 University of Houston, Dept. of Biochemical & Biophysical Sciences, USA
215 University of Papua New Guinea, Biology Department, PAPUA NEW GUINEA
214 University of Papua New Guinea, Biology Dept. Association of South Pacific
Environmental Institutions, PAPUA NEW GUINEA
436 University of Washington, Center for Quantitative Science, USA
438 U.S. Fish & Wildlife Service, Smithsonian Inst., USA
437 U.S. Fish & Wildlife Service, USA
341 UK Digital Marine Atlas Project Manager (UKDMAP), UK
342 UK Mammal Society, Cetacean Group, UK
284 UN-ECE, SWITZERLAND
20 UN Industrial Development Organization (UNIDO) Environment, AUSTRIA
163 UNEP - Global Environment Monitoring System (GEMS), KENYA
164 UNEP - Global Resource Information Database (GRID), KENYA
165 UNEP - Regional Seas Programme, KENYA
117 UNESCO, Division of Ecological Sciences, Geographical Information Systems, FRANCE
116 UNESCO, FRANCE
118 UNESCO, Intergovernmental Oceanographic Commission (IOC), FRANCE
257 United Arab Emirates University, Department of Applied Mathematics, SOUTH AFRICA
354 United Arab Emirates University, Department of Biology, UNITED ARAB EMIRATES
439 United Nations, USA
75 Universidad Austral de Chile, CHILE
460 Universidad Central de Venezuela, Instituto de Zoología Tropical, VENEZUELA
264 Universidad de Barcelona, SPAIN
7 Universidad de la Patagonia, ARGENTINA

- 135 Universidad de San Carlos de Guatemala, Centro de Estudios del Mar y Acuicultura,
GUATEMALA
- 40 Universidad Federal de Santa Catarina, Div. de Zoologia, BRAZIL
- 223 Universidad Nacional Mayor de San Marcos, Curator of Marine Mammals, PERU
- 250 Universite Cheike Anta Diop de Dakar, Departement de biologie marine, SENEGAL
- 44 Universite de Yaounde, Departement de biologie, CAMEROON
- 33 Universite Nationald du Benin, Departement de chimie, BENIN
- 150 University College Cork, Department of Zoology, IRELAND
- 441 University of Alaska - Fairbanks, Kuskokwim Campus, USA
- 440 University of Alaska, USA
- 97 University of Alexandria, Department of Oceanography, EGYPT
- 197 University of Calabar, Institute of Oceanography, NIGERIA
- 62 University of Calgary, Emeritus Professor of Zoology, CANADA
- 443 University of California Santa Cruz, USA
- 442 University of California, USA
- 343 University of Cambridge, Computer Search Service, UK
- 344 University of Cambridge, Department of Genetics, UK
- 345 University of Cambridge, Research Group in Mammalian Ecology and Reproduction, UK
- 346 University of Cambridge, University Library, UK
- 258 University of Cape Town, Department of Applied Mathematics, SOUTH AFRICA
- 91 University of Copenhagen, Zoological Museum, DENMARK
- 444 University of Florida, Florida Museum of Natural History, USA
- 226 University of Gdansk, Hel Marine Laboratory, POLAND
- 134 University of Guam, Marine Laboratory, GUAM
- 63 University of Guelph, Department of Zoology, CANADA
- 64 University of Guelph Library Catalog, CANADA
- 65 University of Guelph, The Arboretum, CANADA
- 207 University of Oslo, NORWAY
- 194 University of Otago, Dept. of Zoology, NEW ZEALAND
- 195 University of Otago, Dept. of Zoology, NEW ZEALAND
- 108 University of Oulu, Dept of Biology, FINLAND
- 107 University of Oulu, FINLAND
- 265 University of Oviedo, Department of Zoology and Ecology, SPAIN
- 269 University of Peradeniya, Dept of Zoology, SRI LANKA
- 259 University of Pretoria, Mammal Research Institute, SOUTH AFRICA
- 234 University of Qatar, Marine Sciences Department, QATAR
- 17 University of Queensland, Department of Anatomy, AUSTRALIA
- 66 University of Saskatchewan, CANADA
- 151 University of Tehran, Department of Environment and Aquatics, ISLAMIC REPUBLIC OF
IRAN
- 105 University of the South Pacific, South Pacific Regional Environment Programme - Marine
Pollution, FIJI
- 158 University of the West Indies, Port Royal Marine Laboratory, JAMAICA
- 208 University of Trondheim AVH, Department of Zoology, NORWAY
- 445 University of Washington, Dept. of Statistics GN-22, USA
- 463 University of Zagreb, Croatian Biological Society, YUGOSLAVIA
- 446 US Fish & Wildlife Service, Alaska Fish & Wildlife Service, USA
- 447 US Fish & Wildlife Service, Northern Polar Bear Project, USA
- 448 US Fish & Wildlife Service, Sirenia Project Leader, USA
- 449 US Fish and Wildlife Service, Piedras Blancas Research Station, USA
- 450 US Fish and Wildlife Service, USA
- 451 US National Marine Fisheries Service, Pacific Area Office, USA
- 67 Vancouver Aquarium, CANADA
- 30 Vlaamse Vereniging voor de Bestudering van de Zeezoogdieren VVBZ, BELGIUM
- 18 Western Australian Museum, AUSTRALIA

- 347 Whale and Dolphin Conservation Society, UK
- 68 WHO Collaborating Centre for Surface and Groundwater Quality, CANADA
- 453 Wild Dolphin Project, USA
- 348 Wildlife Conservation Research Unit, UK
- 166 Wildlife Conservation Unit, KIRIBATI
- 19 Wildlife Research Centre, AUSTRALIA
- 349 World Conservation Monitoring Centre (WCMC), UK
- 285 World Conservation Union (IUCN), SWITZERLAND
- 286 World Health Organization (WHO), SWITZERLAND
- 287 World Meteorological Organization (WMO), SWITZERLAND
- 454 World Resources Institute, USA
- 266 World Tourism Organisation, SPAIN
- 31 World Wildlife Fund-Belgique, BELGIUM
- 350 WWF UK, UK
- 69 Yukon Bibliography, CANADA
- 304 Zeedierenpark Harderwijk B.V., THE NETHERLANDS
- 305 Zoological Museum, Inst. Taxonomic Zoology, THE NETHERLANDS
- 455 Zoological Record Online, BIOSIS, USA
- 351 Zoological Society of London, Institute of Zoology, UK

APPENDIX E

MARINE MAMMAL DATABASE REVIEW: QUESTIONNAIRE

Marine Mammal "Database" Review - please return as quickly as possible to:
Dr Margaret Klinowska, UNIVERSITY OF CAMBRIDGE, Research Group in Mammalian Ecology and
Reproduction, Physiological Laboratory, Downing Street, Cambridge CB2 3EG, UK

Tel: (0223) 69026 FAX (UK): (0223) 333840 (0223) 333892
FAX (International): +44 223 333840
Electronic Mail: MK10@UK.AC.CAM.PHX Telex: 81240 CAMSPL G

This is primarily a survey of any type of computerized information on marine mammals and their habitats, but there is also interest in 'significant' (e.g. large, unique, etc.) data holdings not yet computerized. Rapid response is more important than detail. Please pass a copy of this request and response form to any person or organisation you know to hold significant information, or add the appropriate details below. Negative responses are as welcome as positive ones.

Name and title of Responder:
Full postal address, post code and country:

Tel: FAX:
Telex: E-mail etc:

Name and title of Database Manager (if different):
Full postal address, post code and country:

Tel: FAX:
Telex: E-mail etc.

Please delete all responses which are not relevant - only words which describe your information should remain

Information held on
cetaceans/all or subset(s) - basis
pinnipeds/all or subset(s) - basis
sirenians/all or subset(s) - basis
polar bears/all or subset(s) - basis
sea otters/all or subset(s) - basis
marine, freshwater, polar habitat

Nature of information - reference/bibliography, library catalogue, press reports, computerized text only (e.g. papers, book manuscripts, other - specify) survey, sightings, strandings, catch data, distribution maps (approx. areas/exact positions), identification-photographs, other photographs, film, video, sound recordings, dry specimens, wet specimens, behaviour, legislation, educational, economics, sociology, anthropology, history, protected areas, habitat, fisheries, other - specify

Approximate size of collection(s): (e.g. 100s, 1,000s, 10,000s of records)

Approx. scope: Time period:
Geographical:
Other limitations: (e.g. Chinese language publications only)

Language of entries: English, other - specify

Data source(s): (e.g. published literature, own research, named on-line databases)

Updating (in general): (e.g. monthly, irregular)

Present format: all computerized, % computerized, card file, uncatalogued, other - specify

Access conditions: no outside access, on payment of US\$, on supply of disk, free for some people - who ? after completion of project, not yet decided, freely available, other - specify

Outside access through: on-line - specify network(s) disk type, hard copy, other-what?

Hardware

Software (including operating system)

Output formats

Documentation: hard copy user guide/file descriptions available/planned; on-screen documentation/help/user guide/available/planned; none; other - specify

Related information: Can the marine mammal information be used with other information in your system/a related system e.g. oceanographic, food species distribution etc. Yes/No If Yes, please give brief details:

Does your database have a name ?

Any other remarks:

I have passed this form on to/you should also contact:

Name and title:

Full postal address, post code and country:

Telephone: FAX:

Telex: E-mail etc: