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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.

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## 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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FAX: +1 313 961 6815
- 385 n** 2864 Sewano Road  
San Bernardino, Calif 92405  
USA  
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TEL: +1 714 883 2969
- 386 n** Greenpeace  
1436 U Street NW  
Washington DC 20009  
USA  
Sally Shoup  
  
TEL: +1 202 462 1177  
TLX: 89 2359  
FAX: +1 202 462 4507
- 387 r** 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
- 388 r** 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
- 389 r** 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
- 390 r** Hubbs-Sea World Research Institute  
1700 South Shores Road  
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FAX: +1 619 226 3944
- 391 n** Institute of Marine Sciences  
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University of California  
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**392 n** Inter-American Tropical Tuna  
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8604 La Jolla Shores Drive  
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FAX: +1 619 5467003

**393 n** Long Term Research Institute  
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**394 n** Museum of Natural Science  
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119 Foster Hall  
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Mr Ted Parker III

**395 n** The Marine Mammal Commission  
1825 Connecticut Avenue N.W. 512  
Washington, D.C. 20009  
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Mr John R. Twiss Jr.

**396 n** Marine Mammal Commission  
1825 Connecticut Ave N W  
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**397 r** Marine Mammal Program  
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TLX: 264729 SMITHSN  
FAX: +1 202 357 1853

**398 n** Marine Mammals Investigation  
Northeast Fisheries Center  
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Woods Hole, MA 02543  
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FAX: +1 508 548 5124

**399 n** Marine World Foundation  
Marine World Parkway  
Vallejo, CA 94589  
**USA**  
Ms Pat Foster-Turley

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FAX: +1 707 6440241

**400 r** Moby Dick Society Inc.  
PO Box 10771  
Pompano Beach, Fl 33061  
**USA**  
Mr David Williams

TEL: +1 305 942 9352

**401 n** Moss Landing Marine Labs  
PO Box 450  
Moss Landing, CA 95039-0450  
**USA**  
Bernie Tershy

**402 n** Manager, Population & Ecosystems  
Assessment Program  
National Marine Mammal Laboratory  
7600 Sand Point Way N.E.  
Seattle, WA 98115  
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FAX: +1 206 5264004

**403 r** National Marine Mammal Laboratory  
National Oceanic and Atmospheric  
Administration (NOAA)  
7600 Sand Point Way NE Bldg 4  
Seattle, WA 98115-0070  
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TEL: +1 206 526 4029  
FAX: +1 206 526 6615  
E-MAIL:  
JMBREIWK@edu.WASHINGTON.  
U.MAX

**404 n** National Marine Mammal Laboratory  
National Marine Fisheries Service  
NWAFC  
7600 Sand Point Way NE Bldg 32  
Seattle, WA 98115  
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FAX: +1 206 526 6615

**405 n** National Marine Mammal Laboratory  
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Seattle, WA 98115  
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TLX: 329422  
FAX: +1 206 5264004

**406 n** National Marine Mammal Laboratory  
7600 Sand Point Way NE  
BIN C15700  
Seattle, WA 9811  
USA  
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FAX: +1 206 526 6615

**407 r** 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

**408 r** Office of Protected Resources  
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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

**409 i** Southwest Fisheries Science Center  
U.S. National Marine Fisheries Service  
National Oceanic and Atmospheric  
Administration (NOAA)  
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La Jolla, CA 92038  
USA  
Dr Jay Barlow

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TLX: Tlx:  
FAX: +1 619 546 7003

**410 r** Southwest Fisheries Science Center  
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Administration (NOAA)  
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La Jolla, CA 92038  
USA  
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TEL: O: +1 619 546 7096 H: 456 0940  
TLX: 9103371271  
FAX: +1 619 546 7003

**411 r** Life Sciences from NTIS  
National Technical Information Service  
(NTIS)  
5285 Port Royal Road  
Springfield, VA 22161  
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TLX: 899405  
FAX: +1 703 3218199

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FAX: +1 213 7462999

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FAX: +1 808 257 5236

**414 n** Naval Ocean Systems Centre  
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**415 n** New England Aquarium  
Central Warf  
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USA  
Scott Kraus

**416 n** New England Aquarium  
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USA  
Ms Patricia Fiorelli  
TEL: +1 617 742 8830

**417 n** Director Tiburon Laboratory  
NMFS Southwest Fisheries Center  
3150 Paradise Dr.  
Tiburon, CA 94920  
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FAX: +1 415 4353675

**418 n** Northern Fur Seal Commission  
c/o National Marine Fisheries Service  
Washington DC 20235  
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**419 n** Ocean Society Exp.  
Fort Mason Center E-225  
San Francisco, CA 94123-1394  
USA  
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TEL: +1 415 7756497  
FAX: +1 415 4743395

**420 r** 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

**421 i** OCEANIC - The OCEAN Network  
Information Center  
The University of Delaware  
College of Marine Studies  
Lewes, Delaware  
USA

E-MAIL: INTERNET telnet  
delocn.udel.edu

**422 r** 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

- 423 n** Office of Protected Species  
Management  
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Room 321  
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FAX: +1 904 9224338
- 424 n** Extension Oceanography  
Oregon State University  
Marine Science Drive  
Newport, OR 97365  
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Prof B.R. Mate
- 425 n** Organization of American States  
1135 Eye Street NW  
Washington DC 20006  
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- 426 r** SCISEARCH  
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3501 Market Street  
Philadelphia, PA 19104  
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FAX: +1 215 386 6362  
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- 427 r** Sea World Inc.  
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- 428 n** Smithsonian Institution  
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- 429 n** Sohio Alaska Petroleum Co.  
Pouch 6-612  
Anchorage, Alaska 99502  
**USA**  
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- 430 r** Library Director, Williams Library  
Texas A & M University at Galveston  
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TEL: +1 409 740 4566  
FAX: +1 409 740 5702  
E-MAIL: OMNET TAG.LIBRARY
- 431 i** Texas Institute of Oceanography  
Texas A & M University at Galveston  
Office of President PO Box 1675  
Mitchell Campus  
Galveston, Texas 77553 1675  
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FAX: +1 409 740 4429
- 432 n** Texas A&M University at Galveston  
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713/9921711  
FAX: +1 409 7405717
- 433 n** College of Agriculture & Life Sciences  
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5467095, 755 869311) H: 6806612  
FAX: +1 409 8454096 (IWC list - 619  
5467003, 755 869811)

- 434 i** Environmental Information System  
(ENVIS)  
Environmental Operations and Strategy  
Division (ENVOS)  
Environment Department  
The World Bank  
1818 H Street N  
Washington, DC 20433  
**USA**  
  
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TLX: RCA 248423  
FAX: +1 202 477 0568
- 435 i** BCHS-5500  
Department of Biochemical and  
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E-MAIL: INTERNET  
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- 436 n** Center for Quantitative Science  
College of Ocean and Fishery Sciences  
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- 437 n** U.S. Fish & Wildlife Service  
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- 438 n** Chief, Endangered Species Research  
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647 9514)  
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- 439 n** United Nations  
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the Sea  
New York, New York 10017  
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- 440 r** Institute of Marine Science  
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- 441 n** Kuskokwim Campus  
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- 443 n** University of California Santa Cruz  
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- 444 r** Florida Museum of Natural History  
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Museum Road  
Gainesville, Florida 32611  
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TEL: +1 904 392 1721  
FAX: +1 904 392 8508
- 445 n** Dept. of Statistics GN-22  
8313 Padelford Hall  
University of Washington  
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TEL: +1 206 543 4505  
FAX: +1 206 685 7419
- 446 n** Alaska Fish & Wildlife Service  
US Fish & Wildlife Service  
1011 East Tudor Road  
Anchorage, AK 99503  
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- 447 n** Northern Polar Bear Project  
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- 448 r** Sirenia Project Leader  
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- 449 r** Piedras Blancas Research Station  
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- 450 n** US Fish and Wildlife Service  
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FAX: +1 907 5611258
- 451 n** Pacific Area Office  
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- 452 r** PO Box 573  
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- 453 r** Wild Dolphin Project  
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Suite 20  
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**USA**  
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FAX: +1 407 575 5681
- 454 i** World Resources Institute  
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Washington, DC 20006  
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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  
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TLX: 1040 VANGOV
- 457 n** Board of Directors  
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- 458 n** Fundacion BIOMA  
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- 459 n** Servicio Autonomo Profauna-MARNR  
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- 462 n** Faculty of Science  
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TEL: +967 2 200514  
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**463 r** Croatian Biological Society  
Medical School  
University of Zagreb  
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**YUGOSLAVIA**  
Professor D. Sherman

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823

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

**464 n** Departement de l'environnement  
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Kinshasa  
**ZAIRE**

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## 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:** Honywell Bull; CPM, Burotext text processor.

**Record Number: 122**

**Contact:** Bundesanstalt fur Gewasserkunde (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 fur 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 fur 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 Koln 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 fur 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 uber 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**  
Francoise 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, Sydshavet"; seal age determination as "Alder Vest" and "Alder Eis"; seal tag-recapture database as "Merkedata-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 Xiaofeng 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 Sukkidet 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. Boyle

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 overlayed, 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 test 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 SISCEARCH) 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 sirenia\*, 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

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## APPENDIX D

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- 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
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- 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 Zoologia 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 Acuacultura, 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: