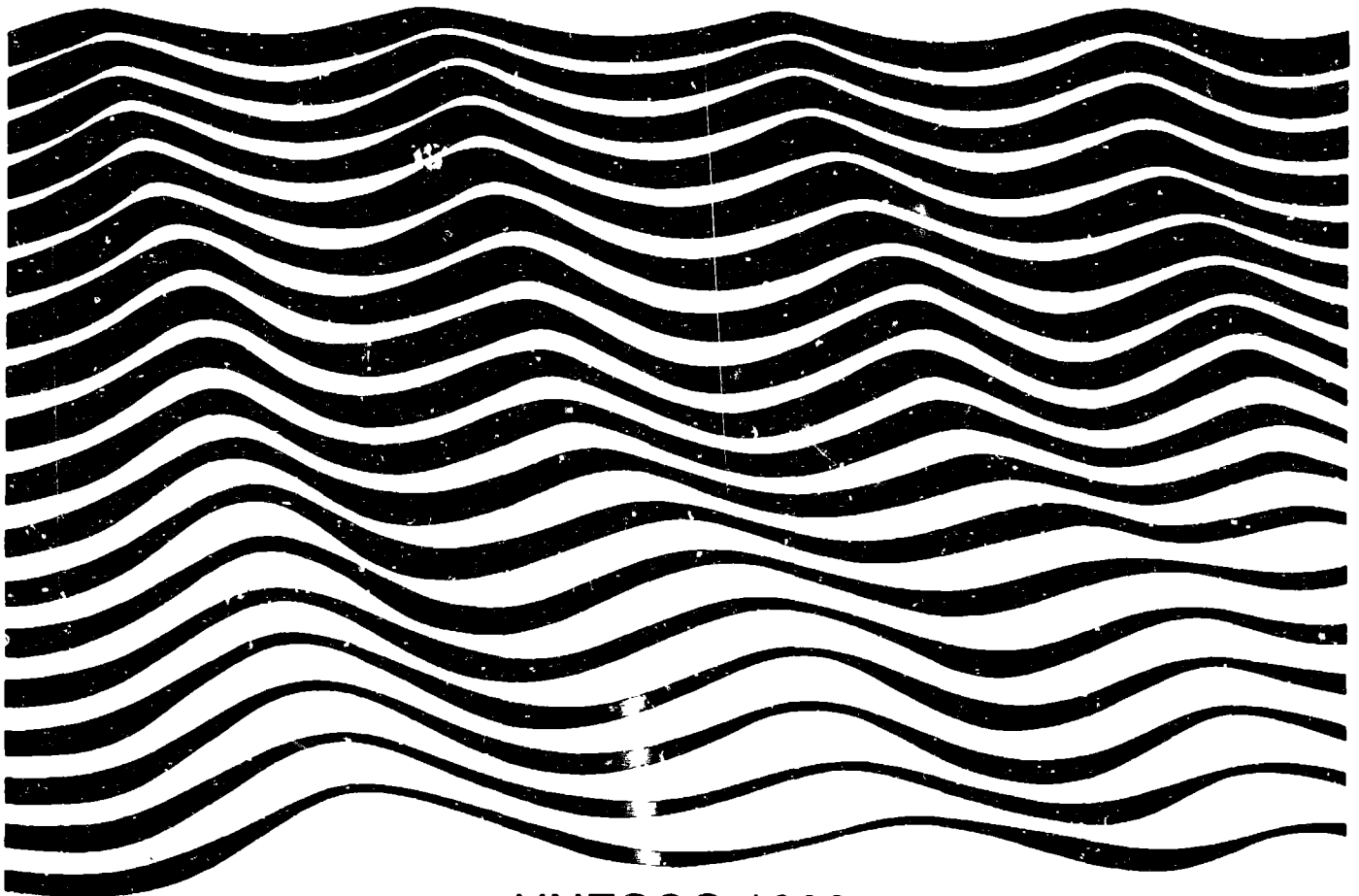


# Inventory of innovative learning materials in marine science and technology

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# Inventory of innovative learning materials in marine science and technology



UNESCO 1993

# UNESCO REPORTS IN MARINE SCIENCE

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5	1979	30	1984
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6	1979	31	1985
Organization of marine biological reference collections in the Mediterranean Arab countries. Expert meeting held in Tunis, 20-23 September 1978. Available in Arabic, English and French		MAB/IISS/John Murray 50th anniversary: Marine science of the North West Indian Ocean and adjacent waters. Report of a symposium on the occasion of the 50th anniversary of the MAB/IISS/John Murray Expedition (1933/34), University of Alexandria, Egypt, 3 to 7 September 1983. English only	
8	1979	32	1985
The mangrove ecosystem: Human uses and management implications. Report of a UNESCO regional seminar held in Dacca, Bangladesh, December 1978. English only		L'estuaire et la mangrove du Sine Saloum. Résultats d'un Atelier régional UNESCO-COMAR tenu à Dakar (Sénégal) du 28 février au 5 mars 1983. French only	
9	1979	33	1985
The mangrove ecosystem: scientific aspects and human impact. Report of the seminar organized by UNESCO at Cali, Colombia, 27 November-1 December 1978. Available in English and Spanish		Coral taxonomy. Results and recommendations of a regional UNESCO (COMAR)/UNEP workshop with advanced training Phuket Marine Biological Centre, Thailand, 10-26 February 1984. English only	
10	1980	34	1985
Development of marine science and technology in Africa. Working Group of Experts sponsored by ECA and UNESCO, Addis Ababa, 5-9 May 1980. Available in English and French		Bibliography on coastal lagoons and salt marshes along the Southern Mediterranean coast (Algeria, Egypt, Libya, Morocco, Tunisia). Available in Arabic, English and French	
14	1981	35	1985
Marine science and technology in Africa: present state and future development. Synthesis of UNESCO/ECA survey missions to African coastal states, 1980. Available in English and French		Physical oceanography of the Eastern Mediterranean (POEM): A Research Programme. Reports of the Organizing Committee Meeting, Paris, August 1984, and the Scientific Workshop, Lucerne, October 1984. English only	
15	1981	36	1986
Fishery science teaching at the university level. Report of a UNESCO/PAO workshop on university curricula in fishery science, Paris, May 1980. Available in Arabic, English, French, Russian and Spanish		Méthodologie d'étude des lagunes côtières. Résultats d'un atelier régional réuni à Abidjan du 6 au 11 mai 1985. French only	
20	1983	37	1986
Quantitative analysis and simulation of Mediterranean coastal ecosystems: The Gulf of Naples, a case study. Report of a workshop on ecosystem modelling, Ischia, Naples, Italy, 28 March to 10 April 1981. Organized by the United Nations, Educational, Scientific and Cultural Organization (UNESCO) and the Stazione Zoologica, Naples. English only		Principles of Geological Mapping of Marine Sediments (with special reference to the African continental margin). Available in English and Russian	
21	1983	38	1986
Comparing coral reef survey methods. A regional UNESCO/UNEP workshop, Phuket Marine Biological Centre, Thailand, December 1982. English only		Marine Sciences in CMEA countries. Programme and results of co-operation. Available in English and Russian	
22	1983	39	1986
Guidelines for marine biological reference collections. Prepared in response to a recommendation by a meeting of experts from the Mediterranean Arab countries. Available in English, French and Arabic		Development of marine sciences in Arab Universities. Meeting of experts held at the Marine Science Station Aqaba, Jordan, 1-5 December 1985. Available in Arabic, English, French	
23	1983	40	1986
Coral reefs, seagrass beds and mangroves: their interaction in the coastal zones of the Caribbean. Report of a workshop held at West Indies Laboratory, St Croix, U.S. Virgin Islands, May 1982. English only		Human induced damage to coral reefs. Results of a regional UNESCO (COMAR) workshop with advanced training, Diponegoro University, Jepara and National Institute of Oceanology, Jakarta, Indonesia, May 1985. English only	
24	1983	41	1986
Coastal ecosystems of Latin America and the Caribbean. The objectives, priorities and activities of UNESCO's COMAR project for the Latin America and Caribbean region, Caracas, Venezuela, 15-19 November 1982. Available in English and Spanish		Caribbean coastal marine productivity. Results of a Planning Workshop at Discovery Bay Marine Laboratory, University of the West Indies, Jamaica, November 1985. English only	
25	1983	42	1986
Ocean engineering teaching at the university level. Recommended guidelines from the UNESCO/IOC/EOR workshop on advanced university curricula in ocean engineering and related fields, Paris, October 1982. Available in English, French, Spanish, Russian, Arabic and Chinese		The application of digital remote sensing techniques in coral reef, oceanographic and estuarine studies. Report on a regional UNESCO/COMAR/GBRMPA Workshop, Townsville, Australia, August 1985. English only	
26	1984	43	1987
Global survey and analysis of post-graduate curricula in ocean engineering. English only		Quaternary coastal geology of West Africa and South America. Papers prepared for the INQUA-ASEQUA Symposium in Dakar, April 1986. Available in English only	
28	1984	44	1987
Oceanographic modelling of the Kuwait Action Plan (KAP) Region. Report of symposium/workshop, University of Petroleum and Minerals, Dhahran, Kingdom of Saudi Arabia, 15-18 October 1983. English only		Physical oceanography of the Eastern Mediterranean (POEM): Initial Results UNESCO/IOC First POEM Scientific Workshop, Erdemli, Turkey, 16-20 June 1986. English only	

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## PREFACE

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## ABSTRACT

The Inventory of Innovative Learning Materials in Marine Science and Technology includes 32 computer-, 148 video-, 16 film-, and 11 CD-ROM-based entries. They concern materials in biosciences (67), chemistry (5), geosciences (16), physics (23), technology (76) and other (20). This first, initial compilation is conceived as the basis for more complete, digitalized versions in future. To that end, recipients are requested to provide feedback on the information presented as well as details on additional entry material via the blank standard forms included in the Inventory.

## RESUME

Cet inventaire des matériels didactiques novateurs dans le domaine des sciences et technologies océanographiques répertorie 32 logiciels informatiques, 148 vidéogrammes, 16 films et 11 documents sur CD-ROM. Il s'agit de matériels intéressant les sciences biologiques (67), la chimie (5), les sciences géologiques (16), la physique (23), la technologie (76) et d'autres disciplines (20). Ce premier recensement est conçu comme l'amorce de versions informatisées plus complètes qui seront établies dans l'avenir. A cette fin, les destinataires sont priés de faire connaître, en se servant des formules vierges normalisées qu'ils trouveront dans l'inventaire, leurs observations sur l'information présentée ainsi que la description de tout matériel supplémentaire à y inclure.

## RESUMEN

El Inventory of Innovative Learning Materials in Marine Science and Technology contiene 32 asientos informáticos, 148 en vídeos, 16 en filmes y 11 en CD-ROM, relativos a materiales de ciencias biológicas (67), química (5), ciencias de la tierra (16), física (23), tecnología (76) y otras cuestiones (20). Esta primera recopilación inicial ha sido concebida como base para hacer en el futuro versiones más completas, con técnicas digitales. A tal efecto se pide a los receptores que comuniquen sus experiencias con la información presentada, así como detalles sobre materiales para nuevos asientos, utilizando los formularios normalizados en blanco que se incluyen en el Inventario.

## РЕЗЮМЕ

Перечень новаторских учебных материалов по морским наукам и технологии содержит 32 компьютерных, 148 видео-, 16 кино- и 11 основанных на использовании КД-ПЗУ материалов. Они включают материалы по биологическим наукам (67), химии (5), наукам о Земле (16), физике (23), технологии (76) и другим вопросам (20). Этот самый первый сборник задуман в качестве основы для выпуска в будущем более полных вариантов в цифровой форме. С этой целью получателям предлагается высказать свои мнения о представленной информации, а также подробные замечания в отношении дополнительного исходного материала с помощью стандартных бланков, включенных в перечень.

## مستخلص

تحتوي قائمة حصر مواد التعلم التجديدية في مجالي علوم البحار والتكنولوجيا على ٣٢ مدخلا بالحاسب، و ١٤٨ مدخلا بالفيديو، و ١٦ مدخلا بالأفلام، و ١١ مدخلا مسجلة على اسطوانات بذاكرة قراءة فقط (CD-ROM). وتتعلق هذه المدخلات بمواد في مجال العلوم الأحيائية (٦٧)، والكيمياء (٥)، وعلوم الأرض (١٦)، والفيزياء (٢٣)، والتكنولوجيا (٧٦) وغيرها (٢٠). وقد صيغت هذه القائمة الأصلية الأولى كقاعدة لقوائم أخرى رقمية أكمل تعد مستقبلا. ولهذا الغرض يطلب من الأطراف المتلقية أن تقدم ردودها بشأن المعلومات المعروضة عليها، وكذلك تفاصيل عن مواد مدخلة إضافية عن طريق ملء النماذج الموحدة المرفقة بقائمة الحصر.

## 摘 要

《海洋科学与技术革新学习材料的详细目录》包括32个计算机条目、148个录像条目、16个电影条目和11个光盘只读存储器条目。这些条目涉及生物科学(67条)、化学(5条)、地球科学(16条)、物理学(23条)、技术学(76条)和其他学科(20条)。这一初步汇编是今后更全面的，数字化处理的版本之基础。为此，请收到本目录的人对所载资料提供反馈信息并在所附的标准空表中填入有关补充条目的详细内容。

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## **PART ONE**

### **INTRODUCTION**

#### **Background and Purpose**

Unesco published *Year 2000 Challenges for Marine Science Training and Education Worldwide* in 1983. The transmittal letter forwarding this publication requested recipients to submit to Unesco information on any available innovative learning materials in marine science and technology. Innovative learning materials were identified to be computer-based, video-based, film-based, and CD-ROM-based. In subsequent years, so many responses were received in Paris that a decision was made at the end of 1990 to collect and prepare them for publication. This occasion necessitated devising a standard method of reporting as well as asking suppliers to verify their information and to resubmit it on the standardized forms.

This report is the result. Marine science includes marine technology or ocean engineering for the purpose of this report. The intent is to provide potential users with sufficient information to enable them to decide whether the materials are relevant for their needs and, if so, where to obtain the materials. In addition, the inventory provides Unesco with information useful for planning the compilation of computerized educational modules containing learning materials from a number of different sources on the same general topic.

The report has been organized into two parts. Part One provides an explanation of the inventory forms because it may not be obvious why some of the information requested is wanted, provides a short summary and conclusions drawn from the inventories, lists two references of general relevancy to the report, and provides guidance and a set of blank forms for supplemental or new information that can be submitted for a future edition. Part Two consists of the four main inventories: (A) computer-based, (B) video-based, (C) film-based and (D) CD-ROM-based learning materials. Learning materials based on slide or diapositive programmes have not been included in the report.

#### **Development of Inventory Forms**

Developing the inventory forms turned out to be much more of a problem than originally anticipated. The objective was to keep each form as simple and short as possible and not to exceed one page for each inventoried item. On the other hand, so many different software items were found to be used in different time periods and in different parts of the world that it was a bit of a puzzle what to include and what to exclude. It was quickly learned that despite the valued assistance of experts in a number of different countries, almost no person communicated with had a complete picture of the existing global variability.

It is believed that the forms that were finally developed meet the needs of most users. Although it may seem that some of the information is superfluous, what may be unnecessary information to one user is essential to another. Indeed, when the inventory forms were returned, it became obvious that many, if not most, providers or producers do not have the minimum technical information to let users in other parts of the world know whether or not their software will work in a different environment. It is hoped that this problem can be reduced or eliminated in the future.

## **Survey of Unesco Respondents**

The innovative learning material information that had been submitted to the Unesco Training and Education in the Marine Sciences Programme (TREDMAR) was examined and, in so far as possible, included on a standardized form. One or more of the forms were sent by Unesco in early January 1992 to each originator with the request that the existing information be checked and the remainder of each form be completed. Every person and organization was given the opportunity of submitting additional inventory items. Follow-up requests for submission were sent to all parties later in 1992. All inventory forms applicable to this project that were received in 1992 have been included in Part Two.

In addition, Unesco advertised the inventory on several computer bulletin boards. A packet of materials was also sent to a few individuals or organizations to provide them with the possibility of submitting information. There was no attempt made to survey any other persons or organizations.

### **This Report, a First Edition**

It was recognized from the beginning that the initial compilation of innovative learning materials would represent only a small survey of marine science and technology materials existing throughout the world. There was a deliberate attempt to confine the project to only those persons who had originally volunteered information to Unesco. This was done to reduce the number of unknowns and variables in compiling the first edition. The plan was to include in the report only information resubmitted on the standardized forms.

Non-responding parties will be contacted by sending them a copy of this publication. They are encouraged to submit responses on standardized forms completely filled out for inclusion in a future edition.

Unesco expects to expand the survey in the near future to try and include most of the globally available information on innovative learning materials in marine science and technology. Readers are urged to correct existing inventory items that are not correct in this report, to complete fully the inventory forms published in this report by providing all missing information and to submit to Unesco, Paris, new items for inventory. Updated blank master inventory forms are given at the end of Part One. These may be photocopied and submitted to Unesco, using the address provided on the form, for a future edition.

The next edition is planned to be on floppy disk to facilitate retrieval and updating information. In the second edition, Unesco may not include any material that is not completely documented with all of the information specified on one of the four Unesco TREDMAR inventory forms. Disclosure of full information will help potential users of material decide whether it is useful and whether it will operate satisfactorily using available technology. Please keep in mind that throughout the world much of the innovative learning technology is not standardized.

## **Acknowledgments**

This project was conceived and initiated by Dr. Dirk Troost, Unesco, Paris, who has continually provided encouragement and guidance. Filling out forms is always onerous. We thank the many individuals who took the initiative of submitting initial materials to Unesco and who later were willing to complete the standardized forms containing information about their learning materials. We hope they will be sympathetic to any editorial changes made to the information that they submitted.

We are indebted to the many persons who discussed briefly or at length with one of us what should be included and excluded from the standardized inventory forms and who reviewed preliminary drafts of the forms. Discussions and communications were especially helpful with Mr. T. van Moorselaar of the Delft University of Technology Audiovisual Centre, Mr. M. Stevens of Sony Industrial in The Netherlands, and Ms. C. Moore and Dr. M. S. Loughridge of the National Geophysics Data Center in the United States.

Mrs. G. Kensler of Denbig, Wales, assisted with Spanish translations of the original materials. Ms. N. Levy, Unesco, Paris, translated French into English for a number of inventory entries.

## **EXPLANATION OF INVENTORY FORMS**

There are two categories of information for every inventory form. The first is common to all forms and the second is specific to each of the four forms. The two categories will be discussed separately.

The hierarchal order of inventory listing in Part Two of this report is as follows: (1) main subject inventory—computer, video, film and CD-ROM, (2) alphabetical by primary key word—biosciences, chemistry, geosciences, other (including everything that could not logically be grouped into one of the traditional disciplines), physics and technology and (3) alphabetical by submitted title.

### **Information Common to All Inventories**

#### ***Key Word***

Each of the four traditional fields of marine science was selected to be a primary key word: biological oceanography and marine biology, chemical oceanography, geological and geophysical oceanography, and physical oceanography. To conserve space on the form, each of these fields was simplified to biosciences, chemistry, geosciences, and physics. Marine technology, including all aspects of ocean engineering, concluded the list of primary key words. In addition, an «other» category was established for those items that could not logically be inserted into any of the other five categories. A discussion of the subjects comprising the other categories is given in the summary of this report. Usually persons filled in the most appropriate primary key word. When this was not done the compilers decided what word to use. In a very few instances, the compilers used editorial prerogatives to change the key words if they appeared inconsistent with submitted information in the summary.

### *Secondary Key Words*

In a future edition, it would be desirable to be able to search the files using standardized secondary key words. There was uncertainty what secondary key words should be included and what degree of freedom originators would be permitted in the use of these words. The decision was made to revise an existing Unesco marine science key word list and to request that only two secondary key words be selected from this list. It was expected that secondary key words not on the list might be used. The compilers themselves used a variety of key words not on the list when filling out the first draft of the inventory forms from information originally submitted to Unesco. In the next edition, it may be possible to standardize the secondary key word list, to utilize more than two secondary key words and to index these words.

In Part Two of the report, all entries have secondary key words. A number of providers did not classify their materials using any secondary key words. The compilers have provided secondary key words if they were not supplied.

### *Title*

Only titles provided by originators have been used. In most instances, if the title is in a language other than English it has been translated into English. Titles have not been edited by the compilers.

### *Summary*

Only summaries provided by the originator have been used. In some instances, the compilers have edited the information supplied or have constructed a summary from information supplied. If an item did not have a summary, and it was not possible to construct one, the item was excluded from the inventory in Part Two.

Considerable difficulty was had deciphering the wording in some handwritten summaries. If the interpretation made by the compilers is imperfect, it is hoped that the originator will correct the entry for a future edition.

### *Language*

English was specified as the reporting language for all inventory materials. The language of each inventory item has been listed under this category. The actual languages that were used for inventoried items in Part Two are summarized in the summary section of this report.

### *Intended User Level*

In most instances, the provider of the information specified the appropriate user level from the selections provided on the form: general, secondary school, undergraduate university and advanced (post-graduate level or highly specialized). An elementary school level was not included, although many materials listed under the general category may be suitable for elementary school use. Some general items may also be appropriate for adult education. Multiple classification has been permitted. When the submitter did not provide the user level the compilers estimated the level and included this information. A summary of the user levels given on the inventories is provided later in the report.

### *Provider or Producer*

This category is the supplier of the item inventoried. Addresses are provided but not everyone listed telephone and telefax numbers and country postal codes.

### ***Release Date***

The original inventory forms listed «copyright date.» This date should have been indicated as «release date» because it has been learned that most items probably have not been copyrighted. In this report, the date listed may be either the copyright or the release date. In some instances, a date was not provided.

### ***ISBN Number***

Self explanatory. Not always provided by the submitter of information.

### ***Sale Price***

Self explanatory. Not always provided by the submitter of information.

### ***Rental Price***

Self explanatory. Not often provided by the person submitting the inventory item.

### ***Permission or License Required***

Self explanatory. This information was not often provided.

## **Specialized Information, Form A, Computers**

Most of the inventory forms in Part Two unfortunately have not been completely filled out. Nevertheless, hopefully enough information exists, particularly if the reader relates the information supplied to the country of the supplier, for the reader to reasonably understand hardware and software requirements. The categories on the inventory form listed under Computer Type and Hardware- Software Specifications are believed to be self explanatory. The one possible exception is the 80286 level of IBM and compatible computer, which is also known as an AT.

## **Specialized Information, Form B, Videos**

The world of video is complicated, to say the least. There are over forty existing video formats included under consumer, non-consumer and broadcast categories. The returned inventory forms clearly indicated that many providers or producers did not know what specific television standards or video format was used for their product. The inventory forms mentioned that the TV standards included PAL, PAL M, PAL N, NTSC 3.58, NTSC 4.43 and SECAM. There are many more, and compatibility is limited if not non-existent. The listed video formats included VHS, VHS C, SVHS, Beta, Video 8, High 8, U-matic highband and U-matic lowband, among others. Readers are cautioned to be careful that an inventoried item will work in their environment, keeping in mind that the information specified under TV standard and video format may not have been correctly supplied in the requisite detail. The same problem exists for tape width, but there evidently is more consistency for tape width if the video format is correctly stated. Other categories on the form are believed to be self explanatory.

It is understood that the possibility exists to copy PAL to NTSC and vice versa using the TPE387A chip, but we have no experience with this procedure. Alternatively, multinorm decoders with PAL or NTSC outputs are available. Almost any colour norm can be copied to any other colour norm by commercial companies. Librarians or audiovisual centres may have information on this process, which can also be obtained from Unesco, Coastal and Marine Sciences.

### **Specialized Information, Form C, Films**

Again, regrettably information is unavailable or incomplete for many inventory items. Each category should be self explanatory.

### **Specialized Information, Form D, CD-ROMs**

This is another media in which universal standardization is only a hope for the future. While the format (High Sierra, ISO 9660, etc.) was usually specified, the compatible CD-ROM drives were not. It is understood, however, that major makes of drives should handle High Sierra or ISO 9660. In a similar manner, the searching software for the CD-ROM also needs to be known if it is not provided on a disc with the package. CD-ROM users are probably familiar with the categories listed on the form. If not, their local media specialist or librarian may be able to help.

The decision was made originally not to include databases in the CD-ROM inventories. However, some certainly have educational value. An editorial decision was made to include these and to exclude others that did not appear to be as comparable to the other included types of innovative learning materials.

## **SUMMARY OF DATA**

### **Inventory Statistics**

Table 1 lists the number of entries included under all of the six learning material primary key words for each learning material subject listing in Part Two. There are 207 inventoried items.

Table 1. Number of entries listed by key word for each learning material.

<i>LEARNING MATERIAL</i>	<i>NUMBER OF ENTRIES IN INVENTORIES A-D</i>
Computed-based	32
Video-based	148
Film-based	16
CD-ROM-based	11
TOTALS	207

Table 2 combines all entries by primary key word. It is interesting to note that there are more technology entries than any other of the five categories, although the biosciences are represented by a close second in number.

Table 2. Total Number of Inventoried Items Listed by Primary Key Word.

<i>KEY WORD</i>	<i>NUMBER OF ENTRIES</i>
Biosciences	67
Chemistry	5
Geosciences	16
Other	20
Physics	23
Technology	76
TOTALS	207

Table 3 details the number of inventoried items by primary key word under each for the four types of innovative learning materials: A is computer-based, B is video-based, C is film-based and D is CD-ROM-based. Marine physics or physical marine science is predominant in computer-based learning materials. Marine technology has the most entries in video-based learning materials. The marine biosciences are most represented under film-based learning materials. Marine geosciences and marine physics almost tie for the number of entries under CD-ROM-based learning materials.

Table 3. Itemized Number of Inventoried Items Listed by Primary Key Word.

<i>KEY WORD</i>	<i>NUMBER OF ENTRIES</i>				
	<i>A</i>	<i>B</i>	<i>C</i>	<i>D</i>	<i>TOTALS</i>
Biosciences	6	47	12	2	67
Chemistry	3	2	0	0	5
Geosciences	3	7	1	5	16
Other	4	14	2	0	20
Physics	11	8	0	4	23
Technology	5	70	1	0	76
TOTALS	32	148	16	11	207

## **Secondary Key Words**

A very wide variety of secondary key words were used. These have not been analyzed or summarized in this report.

## **Countries Represented**

Part Two includes inventories from the following countries: Argentina, Australia, Austria, Chile, Columbia, France, Germany, The Netherlands, Norway, Peru, Philippines, Sweden, Switzerland, Ukraine, United Kingdom, United States and West Indies. Most items contributed under computer-based and video-based learning materials were from the United Kingdom and the United States. Film-based and CD-ROM-based learning materials were received predominantly from the United States.

It is believed that a large number of innovative learning materials exist in many other countries in addition to the 17 listed above.

## **Languages Used**

Innovative learning materials issued in the following languages are represented: English, Danish, Dutch, Filipino, French, German, Russian, Spanish, Swedish and Ukrainian.

## **User Level Reported**

The most common category reported for computer-based learning materials was the one called undergraduate university and advanced; all other user levels for learning materials are very poorly represented under computers. Video-based learning materials most often were classified as being suitable for the undergraduate university and advanced levels combined, with undergraduate university and general also being well represented. General was the most common designation for film-based learning materials. CD-ROM-based learning materials were most often classified as undergraduate university and advanced combined. This distribution of user levels approximates what might be expected in marine science and technology.

## **CONCLUSIONS**

This preliminary inventory of innovative learning materials in marine science and technology documents the fact that a substantial number of materials have been prepared worldwide. Many of the learning materials inventoried in this report can be useful and helpful in the process of distance learning at all levels of education. These materials can also be used to provide breadth and enrichment to conventional classroom and seminar learning and teaching.

## **REFERENCES**

Two publications were identified in the preparation of this report that have relevancy to the project. Bibliographic information is cited below. It is likely that other publications may also



contain useful information or compilations about innovative learning materials in marine science and technology. Identification of other publications would be welcomed by Unesco, Paris.

Datta, S.K., Gurusamy, S. and White, M., 1992. *Catalogue of audio-visual materials in ocean development and management*: Revised and expanded edition, The Commonwealth of Learning, Vancouver, British Columbia, 347 pp.

Lemay, M.H. and Hale, L.Z., 1989. *Coastal resources management, a guide to public education programs and materials*: Kumarian Press, West Hartford, Connecticut, 58 pp.

## **REQUEST FOR SUPPLEMENTAL AND NEW INFORMATION FOR FUTURE INVENTORIES**

A more complete future edition of this report is expected within a few years. Readers are requested to review the information presented in Part Two, to notify Unesco of any corrections, to provide any missing information and to submit new items for inventory.

Readers also are requested to comment on any aspect of the report and the four inventory forms. Suggestions for improvements will be welcomed.

Master blank forms that may be used for reporting changes or new materials follow. Standardized forms are provided for the following learning materials: (A) computer-based learning materials, (B) video-based learning materials, (C) film-based learning materials, and (D) CD-ROM-based learning materials. These may be photocopied for submitting new innovative learning materials to Unesco. Alternatively, blank forms may be requested directly from Unesco.

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**A. COMPUTER-BASED LEARNING MATERIALS**

(Please provide requested information or circle answer.)

**Key Word (1 only):** biosciences, chemistry, geosciences, physics, technology, other—

**Secondary Key Words (2 only):** \_\_\_\_\_ & \_\_\_\_\_

**Title:** \_\_\_\_\_

**Brief Summary of Contents:** \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Language(s):** \_\_\_\_\_

**Intended User Level:** general, secondary school, undergraduate university, advanced

**Provider or Producer: Name:** \_\_\_\_\_

**Organization:** \_\_\_\_\_

**Address:** \_\_\_\_\_

**Country:** \_\_\_\_\_

**Telephone number:** \_\_\_\_\_

**Telefax number:** \_\_\_\_\_

**Release Date:** \_\_\_\_\_ **Planned Future Release Date?** \_\_\_\_\_

**ISBN Number:** \_\_\_\_\_ **Rental Price:** \_\_\_\_\_

**Sale Price:** \_\_\_\_\_ **Rental Period:** \_\_\_\_\_

**Permission or License Required (specify):** \_\_\_\_\_

**Computer Type and Hardware-Software Specifications (minimum requirements)**

**IBM or Compatible:** XT, AT, 80386, 80486, other \_\_\_\_\_ **DOS level:** \_\_\_\_\_

**Macintosh, other computer type (specify):** \_\_\_\_\_

**Disc drives** 3.5": 720 kb \_\_\_\_\_ 1.44 Mb \_\_\_\_\_ ; 5.25": 360 kb \_\_\_\_\_ 1.2 Mb \_\_\_\_\_ ; other \_\_\_\_\_

**Number of floppy discs in programme:** \_\_\_\_\_ **RAM required:** kb \_\_\_\_\_ Mb \_\_\_\_\_

**Hard disc required:** yes/no \_\_\_\_\_ **Megabytes:** \_\_\_\_\_

**Monitor & graphics card:** CGA, HGC, EGA, VGA, Super VGA (VGA+), other: \_\_\_\_\_

**Other:** \_\_\_\_\_ **monochrome** \_\_\_\_\_ **color** \_\_\_\_\_

**Sound:** yes/no \_\_\_\_\_ **Sound hardware required:** \_\_\_\_\_

**Programme copy protected:** yes/no \_\_\_\_\_ **Computer programme language:** \_\_\_\_\_

**Please Attach Relevant Information (documentation, magazine reviews, etc.)**

**Return this form to:** Dr. D. Troost, UNESCO, Coastal and Marine Sciences  
1, rue Miollis, 75015 Paris, France

UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY

B. VIDEO-BASED LEARNING MATERIALS

(Please provide requested information or circle answer.)

Key Word (1 only): biosciences, chemistry, geosciences, physics, technology, other—

Secondary Key Words (2 only): \_\_\_\_\_ & \_\_\_\_\_

Title: \_\_\_\_\_

Brief Summary of Contents: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Language(s): \_\_\_\_\_

Intended User Level: general, secondary school, undergraduate university, advanced

Provider or Producer: Name: \_\_\_\_\_

Organization: \_\_\_\_\_

Address: \_\_\_\_\_

Country: \_\_\_\_\_

Telephone number: \_\_\_\_\_

Telefax number: \_\_\_\_\_

Release Date: \_\_\_\_\_ Planned Future Release Date? \_\_\_\_\_

ISBN Number: \_\_\_\_\_ Rental Price: \_\_\_\_\_

Sale Price: \_\_\_\_\_ Rental Period: \_\_\_\_\_

Permission or License Required (Specify): \_\_\_\_\_

Hardware Specifications

TV-video colour standard (specify type): NTSC 3.58, NTSC 4.43, PAL, PAL M, PAL N, SECAM, etc.

Video format (specify VHS, Beta, etc.): \_\_\_\_\_

Length (minutes): \_\_\_\_\_ Colour: yes/no

Tape width (inches): \_\_\_\_\_

Please Attach Relevant Information (documentation, magazine reviews, etc.)

Return this form to: Dr. D. Troost, UNESCO, Coastal and Marine Sciences  
1, rue Miollis, 75015 Paris, France

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**C. FILM-BASED LEARNING MATERIALS**

(Please provide requested information or circle answer.)

**Key Word:** (1 only): biosciences, chemistry, geosciences, physics, technology, other—

**Secondary Key Words:** (2 only): \_\_\_\_\_ & \_\_\_\_\_

**Title:** \_\_\_\_\_

**Brief Summary of Contents:** \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Language(s):** \_\_\_\_\_

**Intended User Level:** general, secondary school, undergraduate university, advanced

**Provider or Producer: Name:** \_\_\_\_\_

**Organization:** \_\_\_\_\_

**Address:** \_\_\_\_\_

**Country:** \_\_\_\_\_

**Telephone number:** \_\_\_\_\_

**Telefax number:** \_\_\_\_\_

**Release Date:** \_\_\_\_\_ **Planned Future Release Date?** \_\_\_\_\_

**ISBN Number:** \_\_\_\_\_ **Rental Price:** \_\_\_\_\_

**Sale Price:** \_\_\_\_\_ **Rental Period:** \_\_\_\_\_

**Permission or License Required (Specify):** \_\_\_\_\_

**Hardware Specifications**

**Format:** 35mm, 16mm, Super 8 (speed 18 or speed 24)

**Sound (35 & 16mm):** optical \_\_\_\_\_ magnetic \_\_\_\_\_

**Length (minutes):** \_\_\_\_\_ **Colour:** yes/no

**Please Attach Relevant Information** (documentation, magazine reviews, etc.)

Return this form to: Dr. D. Troost, UNESCO, Coastal and Marine Sciences  
1, rue Miollis, 75015 Paris, France

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**D. CD-ROM-BASED LEARNING MATERIALS**

(Please provide requested information or circle answer.)

**Key Word (1 only):** biosciences, chemistry, geosciences, physics, technology, other—

**Secondary Key Words (2 only):** \_\_\_\_\_ & \_\_\_\_\_

**Title:** \_\_\_\_\_

**Brief Summary of Contents:** \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Language(s):** \_\_\_\_\_

**Intended User Level:** general, secondary school, undergraduate university, advanced

**Provider or Producer: Name:** \_\_\_\_\_

**Organization:** \_\_\_\_\_

**Address:** \_\_\_\_\_

**Country:** \_\_\_\_\_

**Telephone number:** \_\_\_\_\_

**Telefax number:** \_\_\_\_\_

**Release Date:** \_\_\_\_\_ **Planned Future Release Date?** \_\_\_\_\_

**ISBN Number:** \_\_\_\_\_ **Rental Price:** \_\_\_\_\_

**Sale Price:** \_\_\_\_\_ **Rental Period:** \_\_\_\_\_

**Permission or License Required (Specify):** \_\_\_\_\_

**Hardware-Software Specifications**

**Compatible drives (specify):** \_\_\_\_\_

**Format:** High Sierra \_\_\_\_\_ ISO 9660 \_\_\_\_\_ Apple HFS \_\_\_\_\_ Other \_\_\_\_\_

**Software (specify):** \_\_\_\_\_

**Peripherals:** graphics card type \_\_\_\_\_ **Hard disc (MB)** \_\_\_\_\_

**IBM or compatible computer:** XT, AT, 80386, 80486, other \_\_\_\_\_

**Other computer (specify):** \_\_\_\_\_

**RAM memory required:** \_\_\_\_\_ kb \_\_\_\_\_ Mb **Number of discs in programme:** \_\_\_\_\_

**Operating system:** DOS level \_\_\_\_\_ **Other system:** \_\_\_\_\_

**Monitor & graphics card:** CGA, HGC, EGA, VGA, Super VGA (VGA+), other \_\_\_\_\_

**Will updates be provided:** yes/no **When:** \_\_\_\_\_

**Please Attach Relevant Information (documentation, magazine reviews, etc.)**

Return this form to: Dr. D. Troost, UNESCO, Coastal and Marine Sciences  
1, rue Miollis, 75015 Paris. France

## **PART TWO**

### **INVENTORIES**

#### **A. COMPUTER-BASED LEARNING MATERIAL INVENTORY**

## COMPUTER-BASED LEARNING MATERIAL INDICIES

### KEY WORD INDEX

Biosciences . . . . .	17-23
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Data Acquisition . . . . .	30
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**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**A. COMPUTER-BASED LEARNING MATERIALS**

**Key Word:** Biosciences

**Secondary Key Words:** Ecosystem, Ecology

**Title:** A Guide to the ECOPATH II Software System

**Brief Summary of Contents:** An approach for balancing ecosystems models. Includes:  
1) routines for balancing flows in a steady-state ecosystem; 2) routines for estimating network flow indices; 3) other ecological indices.

**Language(s):** English

**Intended User Level:** advances

**Provider or Producer: Name:** V. Christensen

**Organization:** International Center for Living Aquatic Resources Management

**Address:** MC P.O. Box 1501

Makati

Metro Manila

**Country:** Philippines

**Telephone number:** 632 818-0466

**Telefax number:** 632 818 3183

**Release Date:**

**Planned Future Release Date:**

**ISBN Number:** ISSN 116-6964

**Rental Price:**

**Sale Price:** US \$20

**Rental Period:**

**Permission or License Required:** no

**Computer Type and Hardware Specifications (minimum requirements)**

**Computer Type:** IBM or Compatible: XT, 80286, 80386, 80486

**DOS level:** 3.0

**Disc drives:** 5.25": 360 kb

**Number of floppy discs in programme:** 1

**RAM required:** kb 512

**Hard disc required:** no

**Megabytes:**

**Monitor & graphics card:** CGA, HGC, EGA, VGA, Super VGA (VGA+)

**Sound:** no

**Programme copy protected:** no

**Computer programme language:** Exe-files



# **UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

## **A. COMPUTER-BASED LEARNING MATERIALS**

**Key Word:** Biosciences

**Secondary Key Words:** Fisheries Management, Population Dynamics

**Title:** AbaSim

**Brief Summary of Contents:** A cost-effective and time saving computer graphics program method of improving the performance and understanding of participants in the fisheries management process. It teaches important principles of fisheries management relevant to all fisheries by simulation training. A manual accompanies the program diskette.

**Language(s):** English

**Intended User Level:** undergraduate university, advanced

**Provider or Producer:** Name: Lesley Fairbairn, Administrator

Organization: Fish Insight

Address: South Australian Department of Fisheries

GPO Box 1625

Adelaide, SA 5001

Country: Australia

Telephone number: 618 226 0633

Telefax number: 618 226 0664

**Release Date:**

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:** single user licence US \$195; site license US \$450; half-price to educational institutions

**Rental Period:**

**Permission or License Required:**

**Computer Type and Hardware Specifications (minimum requirements)**

Computer Type: 286 compatible or higher

**DOC level:**

Disc drives:

Number of floppy discs in programme: 1

**RAM required:**

Hard disc required: no

**Megabytes:**

Monitor & graphics card: VGA colour

Sound:

Programme copy protected:

**Computer programme language:**

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**A. COMPUTER-BASED LEARNING MATERIALS**

**Key Word:** Biosciences

**Secondary Key Words:** Fisheries, Assessment/Management

**Title:** BASIC Fishery Science Programs: A Compendium of Microcomputer Programs and Manual of Operation

**Brief Summary of Contents:** Manual for using several BASIC programs applicable to fishery biology.

**Language(s):** English

**Intended User Level:** undergraduate university, advanced

**Provider or Producer:** Name: Prof. Saul B. Salla

Organization: International Center for Marine Resource Development

Address: University of Rhode Island

Kingston, RI 02881-0811

Country: USA

**Telephone number:** 1 401 792-2479

**Telefax number:**

**Release Date:** 1988

**Planned Future Release Date:**

**ISBN Number:** 0-444-4301-8

**Rental Price:**

**Sale Price:**

**Rental Period:**

**Permission or License Required:** no

**Computer Type and Hardware Specifications (minimum requirements)**

**Computer Type:** IBM or Compatible

**DOS level:** 2.0

**Disc drives:** 3.5": 720 kb; 5.25": 360 kb

**Number of floppy discs in programme:** 2-720 kb

**RAM required:** kb 64

**Hard disc required:** no

**Megabytes:**

**Monitor & graphics card:** none; other: monochrome

**Sound:** no

**Programme copy protected:** no

**Computer programme language:** BASIC

# UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY

## A. COMPUTER-BASED LEARNING MATERIALS

**Key Word:** Biosciences

**Secondary Key Words:** Population, Fisheries

**Title:** Estimation and Comparison of Fish Growth Parameters from Pond Experiments:  
A Spreadsheet Solution

**Brief Summary of Contents:** To estimate and compare the growth of fish in pond experiments using the Bulland/Holt plot. The method is implemented as a LOTUS 1-2-3 "spreadsheet" allowing easy data editing and analysis. An example is also provided with the disk.

**Language(s):** English

**Intended User Level:** undergraduate level, advanced

**Provider or Producer: Name:** J.M. Valily

**Organization:** Center for Living Aquatic Resources Management

**Address:** MC P.O. Box 1501

Makati

Metro Manila

**Country:** Philippines

**Telephone number:** 632 818-0466

**Telefax number:** 632 818-3183

**Release Date:**

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:** US \$15

**Rental Period:**

**Permission or License Required:** no

### Computer Type and Hardware Specifications (minimum requirements)

**Computer Type:** IBM or Compatible: XT

**DOS level:** 3.0

**Disc drives:** 5.25": 360 kb

**Number of floppy discs in programme:** 1

**RAM required:** kb 512

**Hard disc required:** no

**Megabytes:**

**Monitor & graphics card:** CGA, HGC

**Sound:** no

**Programme copy protected:** no

**Computer programme language:** Lotus 123 Macro

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**A. COMPUTER-BASED LEARNING MATERIALS**

**Key Word:** Biosciences

**Secondary Key Words:** Population, Fisheries

**Title:** MAXIMS

**Brief Summary of Contents:** A computer program for estimating the food consumption of fishes from dried stomach contents data and population parameters.

**Language(s):** English

**Intended User Level:** undergraduate university, advanced

**Provider or Producer: Name:** Dr. D. Pauly

**Organization:** Center for Living Aquatic Resources Management

**Address:** MC P.O. Box 1501

Makati

Metro Manila

**Country:** Philippines

**Telephone number:** 632 818-0466

**Telefax number:** 632 818-3183

**Release Date:**

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:** US \$20

**Rental Period:**

**Permission or License Required:** no

**Computer Type and Hardware Specifications (minimum requirements)**

**Computer Type:** IBM or Compatible

**DOS level:** 3.0

**Disc drives:** 5.25": 360 kb

**Number of floppy discs in programme:** 2

**RAM required:** kb 512

**Hard disc required:** no

**Megabytes:**

**Monitor & graphics card:**

**Sound:** no

**Programme copy protected:** no

**Computer programme language:** MS Quick Basic

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**A. COMPUTER-BASED LEARNING MATERIALS**

**Key Word:** Biosciences

**Secondary Key Words:** Population, Fisheries

**Title:** The Complete ELEFAN

**Brief Summary of Contents:** Graphic oriented software for length-based stock assessment. The set of routines cover most aspects of fish population dynamics (i.e. growth, mortality, gear selection, virtual population analysis, yield-per-recruit analyses, etc.).

**Language(s):** English

**Intended User Level:** undergraduate university, advanced

**Provider or Producer:** Name: Dr. D. Pauly

Organization: Center for Living Aquatic Resources Management

Address: MC P.O. Box 1501

Makati

Metro Manila

Country: Philippines

**Telephone number:** 632 818-0466

**Telefax number:** 632 818 3183

**Release Date:**

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:** US \$75

**Rental Period:**

**Permission or License Required:** no

**Computer Type and Hardware Specifications (minimum requirements)**

Computer Type: IBM or Compatible: XT

DOS level: 3.0

Disc drives: 5.25": 360 kb

Number of floppy discs in programme: 12

RAM required: kb 512

Hard disc required: no                      Megabytes:

Monitor & graphics card: CGA, HGC

Sound: no

Programme copy protected: no

Computer programme language: MS Quick Basic

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**A. COMPUTER-BASED LEARNING MATERIALS**

**Key Word:** Biosciences

**Secondary Key Words:** Population, Fisheries

**Title:** User's Manual for the Fish Population Dynamics Plug-in Module for HP41CV Calculators

**Brief Summary of Contents:** The module contains routines for fish stock assessment covering length-weight relationship; gear selection; growth parameter estimation; mortality estimation; and virtual population analyses as well as various length-structured and surplus-production models.

**Language(s):** English

**Intended User Level:** undergraduate university, advanced

**Provider or Producer:** Name: Dr. D. Pauly

Organization: Center for Living Aquatic Resources Management

Address: MC P.O. Box 1501

Makati

Metro Manila

Country: Philippines

Telephone number: 632 818-0466

Telefax number: 632 818-3183

**Release Date:**

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:** US \$150

**Rental Period:**

**Permission or License Required:**

**Computer Type and Hardware Specifications (minimum requirements)**

Computer Type: IBM or Compatible; HP41CV Calculator

DOS level:

Disc drives:

Number of floppy discs in programme:

RAM required:

Hard disc required:                      Megabytes:

Monitor & graphics card:

Sound: no

Programme copy protected: no

Computer programme language:

# **UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

## **A. COMPUTER-BASED LEARNING MATERIALS**

**Key Word:** Chemistry

**Secondary Key Words:** Chemicals from Sea-water, Salinity

**Title:** Conductivity

**Brief Summary of Contents:** Converts between practical salinity, conductivity (mS/cm,) temperature and pressure. The program utilises internationally approved algorithms (Perkin and Lewis, 1980). User friendly program, menu-driven operation with report print-out.

**Language(s):** English

**Intended User Level:** undergraduate university, advanced

**Provider or Producer:** Name: P.S. Ridout, Director  
Organization: Ocean Scientific International Ltd.  
Address: Brook Road  
Wormley  
Surrey GU8 5UB  
Country: UK

**Telephone number:** 44 428 685245  
**Telefax number:** 44 428 685075

**Release Date:** 1989

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:** UK £120

**Rental Period:**

**Permission or License Required:** serial number coding

### **Computer Type and Hardware Specifications (minimum requirements)**

**Computer Type:** IBM or Compatible: XT

**DOS level:** 2.0

**Disc drives:** 3.5": 720 kb; 5.25": 360 kb

**Number of floppy discs in programme:** 1

**RAM required:** kb 100

**Hard disc required:** no                      **Megabytes:**

**Monitor & graphics card:** CGA

**Sound:** no

**Programme copy protected:** yes

**Computer programme language:** Basic

# **UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

## **A. COMPUTER-BASED LEARNING MATERIALS**

**Key Word:** Chemistry

**Secondary Key Words:** Chemicals from Sea-water, Oxygen

**Title:** Oxygen

**Brief Summary of Contents:** Calculates oxygen solubility from temperature and salinity for a range of units. Utilises UNESCO approved algorithms. It is intended for use with data from laboratory salinometers. User friendly, menu-driven program with report print-out.

**Language(s):** English

**Intended User Level:** undergraduate university, advanced

**Provider or Producer:** Name: P.S. Ridout, Director  
Organization: Ocean Scientific International Ltd.  
Address: Brook Road  
Wormley  
Surrey GU8 5UB  
Country: UK

**Telephone number:** 44 428 685245  
**Telefax number:** 44 428 685075

**Release Date:** 1989

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:** UK £120

**Rental Period:**

**Permission or License Required:** serial number coding

### **Computer Type and Hardware Specifications (minimum requirements)**

**Computer Type:** IBM or Compatible: XT

**DOS level:** 2.0

**Disc drives:** 3.5": 720 kb; 5.25": 360 kb

**Number of floppy discs in programme:** 1

**RAM required:** kb 100

**Hard disc required:** no                      **Megabytes:**

**Monitor & graphics card:** CGA

**Sound:** no

**Programme copy protected:** yes

**Computer programme language:** Basic



# **UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

## **A. COMPUTER-BASED LEARNING MATERIALS**

**Key Word:** Chemistry

**Secondary Key Words:** Chemicals from Sea-water, Salinity

**Title:** Salinity

**Brief Summary of Contents:** Converts between practical salinity, conductivity ratio and temperature. Utilises UNESCO approved algorithms. It is intended for use with data from laboratory salinometers. User friendly, menu-driven program with report print-out.

**Language(s):** English

**Intended User Level:** undergraduate university, advanced

**Provider or Producer:** Name: P.S. Ridout, Director

Organization: Ocean Scientific International Ltd.

Address: Brook Road

Wormley

Surrey GU8 5UB

Country: UK

**Telephone number:** 44 428 685245

**Telefax number:** 44 428 685075

**Release Date:** 1989

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:** UK £120

**Rental Period:**

**Permission or License Required:** serial number coding

### **Computer Type and Hardware Specifications (minimum requirements)**

**Computer Type:** IBM or Compatible: XT

**DOS level:** 2.0

**Disc drives:** 3.5": 720 kb; 5.25": 360 kb

**Number of floppy discs in programme:** 1

**RAM required:** kb 100

**Hard disc required:** no

**Megabytes:**

**Monitor & graphics card:** CGA

**Sound:** no

**Programme copy protected:** yes

**Computer programme language:** Basic

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**A. COMPUTER-BASED LEARNING MATERIALS**

**Key Word:** Geosciences

**Secondary Key Words:** Paleontology, Data Acquisitions

**Title:** Expal 1.41

**Brief Summary of Contents:** Software for paleontology used to build databases and automatically identify/compare fossils using morphological descriptors. Available databases (1992): Dasycladales (calcareous green algae from the Paleozoic, the Mesozoic and the Cerozoic; planktic foraminifers from the Mesozoic.

**Language(s):** English

**Intended User Level:** undergraduate university, advanced

**Provider or Producer:** Name: Mr. Y. Conrad

Organization: Petroconsultants S.A.

Address: 8-10 Rue Muzy

P.O. Box 228

1211 Geneva 6

Country: Switzerland

Telephone number: 41 22-7368811

Telefax number: 41 22 7862852

**Release Date:**

**Planned Future Release Date:** version 2.0 end 1992

**ISBN Number:**

**Rental Price:**

**Sale Price:** 6,000 Swiss Francs

**Rental Period:**

**Permission or License Required:** license for single or multi-use

**Computer Type and Hardware Specifications (minimum requirements)**

Computer Type: IBM or Compatible: XT, 80286, 10386, 80486

DOS level:

Disc drives: 3.5": 1.44 Mb; 5.25": 1.2 Mb

Number of floppy discs in programme: 1

RAM required: 550 kb

Hard disc required: yes

Megabytes: depending on size of database(s)

Monitor & graphics card: CGA, EGA, VGA

Sound: no

Programme copy protected: no

Computer programme language: Turbo Pascal

# **UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

## **A. COMPUTER-BASED LEARNING MATERIALS**

**Key Word:** Geosciences

**Secondary Key Words:** Paleoceanography, Tectonics

**Title:** Time-Machine Earth, Professional Edition

**Brief Summary of Contents:** Draws past and future earth images with continental drift geologically correct for any year. Presentation control and laser printer hardcopy. User modification of continent position and labels. Includes multiple overlay maps and blink comparison between any two views. Maps may be used in publications.

**Language(s):** English

**Intended User Level:** secondary school, undergraduate university, advanced

**Provider or Producer:** Name: Edwin Smith

Organization: Sageware Corporation

Address: 1282 Garner Avenue

Schenectady, New York 12309

Country: USA

**Telephone number:** 1 518 377-1052

**Telefax number:**

**Release Date:** 1991

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:** US \$245

**Rental Period:**

**Permission or License Required:** site license available

### **Computer Type and Hardware Specifications (minimum requirements)**

**Computer Type:** IBM or Compatible: XT

**DOS level:** 2.0

**Disc drives:** 3.5": 720 kb; 5.25": 360 kb

**Number of floppy discs in programme:** 1

**RAM required:** kb 256

**Hard disc required:** no

**Megabytes:**

**Monitor & graphics card:** CGA, HGC, EGA, VGA, Super VGA (VGA+)

**Sound:** no

**Programme copy protected:** no

**Computer programme language:** C

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**A. COMPUTER-BASED LEARNING MATERIALS**

**Key Word:** Geosciences

**Secondary Key Words:** Paleocceanography, Tectonics

**Title:** Time-Machine Earth, Personal Edition

**Brief Summary of Contents:** Shows evolution of the earth's surface over 500 million years, through satellite and variable magnification views. Produces images and maps for any viewing angle and year. Includes multiple overlay maps, dot-matrix printer output, and blink comparison between any two views.

**Language(s):** English

**Intended User Level:** secondary school, undergraduate university

**Provider or Producer: Name:** Edwin Smith

**Organization:** Sageware Corporation

**Address:** 1282 Garner Avenue  
Schenectady, New York 12309

**Country:** USA

**Telephone number:** 1 518 377-1052

**Telefax number:**

**Release Date:** 1991

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:** US \$69.95

**Rental Period:**

**Permission or License Required:** site license available

**Computer Type and Hardware Specifications (minimum requirements)**

**Computer Type:** IBM or Compatible: XT

**DOS level:** 2.0

**Disc drives:** 3.5": 720 kb; 5.25": 360 kb

**Number of floppy discs in programme:** 1

**RAM required:** kb 256

**Hard disc required:** no **Megabytes:**

**Monitor & graphics card:** CGA, HGC, EGA, VGA

**Sound:** no

**Programme copy protected:** no

**Computer programme language:** C

# **UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

## **A. COMPUTER-BASED LEARNING MATERIALS**

**Key Word:** Other — Data Acquisition

**Secondary Key Words:** Data Acquisition

**Title:** CDS Assistant

**Brief Summary of Contents:** An intermediary software which facilitates (a) create paint/display format for use with the UNESCO-sponsored CDS/ISIS software through a sequence of queries and (b) translate text files generated by either SCIMATE or PAPERBASE bibliographic software to a format (ISO 2709) that may be imported to CDS/ISIS.

**Language(s):** English

**Intended User Level:** general

**Provider or Producer: Name:** F.C. Gayanilo, Jr.

**Organization:** Center for Living Aquatic Resources Management

**Address:** MC P.O. Box 1501

Makati

Metro Manila

**Country:** Philippines

**Telephone number:** 632 818-0466

**Telefax number:** 632 816-3183

**Release Date:**

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:** US \$15

**Rental Period:**

**Permission or License Required:**

**Computer Type and Hardware Specifications (minimum requirements)**

**Computer Type:** IBM or Compatible: XT

**DOS level:** 3.0

**Disc drives:** 5.25": 360 kb

**Number of floppy discs in programme:** 1

**RAM required:** kb 512

**Hard disc required:** no

**Megabytes:**

**Monitor & graphics card:** no

**Sound:** no

**Programme copy protected:** no

**Computer programme language:** MS Quick Basic

# **UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

## **A. COMPUTER-BASED LEARNING MATERIALS**

**Key Word:** Other — Remote Sensing

**Secondary Key Words:** Satellite, Aircraft

**Title:** Applications of Marine and Coastal Image Data

**Brief Summary of Contents:** Twenty-two lessons (in three stand-alone modules) written by scientists from around the world on a variety of marine and coastal phenomena—local, regional and basin-wide.

**Language(s):** English

**Intended User Level:** undergraduate university

**Provider or Producer:** Name: Dr. Dirk G. Troost

Organization: UNESCO, TREDMAR

Address: 1, rue Miollis

75015 Paris

Country: France

Telephone number: 33 1 4568 3971

Telefax number: 33 1 4783 5940

**Release Date:** 1989, 1991, 1992

**Planned Future Release Date:** 1993, 1994

**ISBN Number:**

**Rental Price:**

**Sale Price:**

**Rental Period:**

**Permission or License Required:** no

### **Computer Type and Hardware Specifications (minimum requirements)**

**Computer Type:** IBM or Compatible: XT, 80286, 80386, 80486

**DOS level:**

**Disc drives:** 3.5": 1.44 Mb; 5.25": 1.2Mb

**Number of floppy discs in programme:** 5 & 5; 6 & 5

**RAM required:** 640 kb

**Hard disc required:** no but preferred

**Megabytes:** 10

**Monitor & graphics card:** EGA, VGA

**Sound:** no

**Programme copy protected:** no

**Computer programme language:**

# **UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

## **A. COMPUTER-BASED LEARNING MATERIALS**

**Key Word:** Physics

**Secondary Key Words:** Circulation, Fluid Dynamics

**Title:** A View of the Sea

**Brief Summary of Contents:** This disk contains a series of programs which help the reader develop an understanding of the balance of forces involved in models of the steady ocean circulation, driven by wind and buoyancy forcing. Many of the ideas are at the forefront of our understanding of the ocean circulation.

**Language(s):** English

**Intended User Level:** undergraduate university, advanced

**Provider or Producer:** Name: William Banks

Organization: Market Bookshop

Address: Depot Avenue

Falmouth, Massachusetts 02540

Country: USA

**Telephone number:** 1 508 548-5636

**Telefax number:**

**Release Date:**

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:** US \$20

**Rental Period:**

**Permission or License Required:** no

### **Computer Type and Hardware Specifications (minimum requirements)**

Computer Type: IBM or Compatible: XT

DOS level: 3.0

Disc drives: 5.25": 360 kb

Number of floppy discs in programme: 1

RAM required: kb 640

Hard disc required: no

Megabytes:

Monitor & graphics card: CGA, EGA, VGA

Sound: no

Programme copy protected: no

Computer programme language: Basic

# **UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

## **A. COMPUTER-BASED LEARNING MATERIALS**

**Key Word:** Physics

**Secondary Key Words:** Isotherm Delineation, Imaging

**Title:** A PC-Based Interactive Graphics System to Perform Satellite-Derived Oceanographic Thermal Analysis

**Brief Summary of Contents:** Develop methods to improve upon manual methods of ocean feature and isotherm delineation by using a combination of automated and interactive computer techniques.

**Language(s):** English

**Intended User Level:** undergraduate university, advanced

**Provider or Producer:** Name: M. Neaks, K. Buttleman, and W.B. Campbell

Organization: National Environmental Satellite

Data and Information Service, NOAA

Address: Satellite Services Division

5200 Auth Road

NOAA Science Center

Camp Springs, Maryland 20746

Country: USA

Telephone number: (301) 763-8051

Telefax number: (301) 763-8131

**Release Date:**

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:**

**Rental Period:**

**Permission or License Required:**

**Computer Type and Hardware Specifications (minimum requirements)**

Computer Type: IBM or Compatible: XT, or higher

DOS level: 3.0

Disc drives: 5.25": 1.2 Mb

Number of floppy discs in programme: 3

RAM required: 640kb

Hard disc required: yes

Megabytes: 20

Monitor & graphics card: CGA, EGA, VGA; other: number 9 co. 512x32 graphics board

Sound: no

Programme copy protected: no

Computer programme language: C



**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**A. COMPUTER-BASED LEARNING MATERIALS**

**Key Word:** Physics

**Secondary Key Words:** Tables, Environment

**Title:** Applied Environmetrics Oceanographic Tables

**Brief Summary of Contents:** Tidal prediction tables; physical properties of seawater; geodetic tables and ekman spirals; wind wave and ideal wave properties; solar position, sunrise-sunset times; beaufort scale and wind speed conversions; saturation vapour pressures, latent heats; dynamic oceanography; transport properties of water; blackbody radiation; sedimentation rate for particles; dissolved O<sub>2</sub> and N<sub>2</sub> in seawater; normal and chi-squared distributions; and Weibull distribution.

**Language(s):** English

**Intended User Level:** general, undergraduate university, advanced

**Provider or Producer:** Name: Dr. Tom Beer

Organization: Applied Environmetrics

Address: 118 Gordon Street

Balwyn, Victoria 3103

Country: Australia

Telephone number: 61 381 72571

Telefax number: 61 381 69618

**Release Date:** 1989

**Planned Future Release Date:**

**ISBN Number:** 0-9590809-2-9

**Rental Price:**

**Sale Price:** US \$124.95

**Rental Period:**

**Permission or License Required:** no

**Computer Type and Hardware Specifications (minimum requirements)**

Computer Type: IBM or Compatible: ST, 80286, 80386, 80486

DOS level: >2.10

Disc drives: 3.5": 720 kb' 5.25": 360 kb

Number of floppy discs in programme: 1

RAM required: kb 256

Hard disc required: no

Megabytes:

Monitor & graphics card: any

Sound: no

Programme copy protected: no

Computer programme language: MS DOS executable files

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**A. COMPUTER-BASED LEARNING MATERIALS**

**Key Word:** Physics

**Secondary Key Words:** Physical Oceanography, General Oceanography

**Title:** Atlast: A World Ocean Atlas of Hydrography, Nutrients and Chemical Tracers

**Brief Summary of Contents:** Atlast is an electronic atlas which allows the sciencist to plot and examine hydrographic and tracer section data collected by ships. For example, vertical profiles of temperature or salinity may be plotted. Approximately 100 hydrographic-data sections are included.

**Language(s):** English

**Intended User Level:** undergraduate university, advanced

**Provider or Producer: Name:** Ruby Lassanyi

**Organization:** JPL Physical Oceanography Distributed Active Archive Center

**Address:** MS 300-320

JPL-4800 Oak Grove Drive

Pasadena, CA 91109

**Country:** USA

**Telephone number:** 1 818 354-0906

**Telefax number:** 1 818 393-6720

**Release Date:** 1991

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:** free

**Rental Period:**

**Permission or License Required:** no

**Computer Type and Hardware Specifications (minimum requirements)**

**Computer Type:** IBM or Compatible: XT, 80286, 80386, 80486

**DOS level:**

**Disc drives:** 3.5": 720 kb

**Number of floppy discs in programme:** 5

**RAM required:** Mb 1-2

**Hard disc required:** yes

**Megabytes:** 10 or less

**Monitor & graphics card:** CGA, EGA, VGA, Super VGA (VGA+); Other: monochrome, color

**Sound:** no

**Programme copy protected:** no

**Computer programme language:**

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**A. COMPUTER-BASED LEARNING MATERIALS**

**Key Word:** Physics

**Secondary Key Words:** Oceanography, PC-based Workstation

**Title:** Coastal and Estuarine Oceanographic Applications Using a PC-Based Workstation

**Brief Summary of Contents:** The use of the PC-based Interactive Digital Workstation Image Display and Analysis System (IDIDS) workstation for coastal and estuarine oceanographic applications is presented.

**Language(s):** English

**Intended User Level:** undergraduate university, advanced

**Provider or Producer:** Name: W. Tseng, P. Celone, K. Buttleman, and M. Weaks

Organization: National Environmental Satellite

Data and Information Service, NOAA

Address: Satellite Services Division

5200 Auth Road

NOAA Science Center

Camp Springs, Maryland 20746

Country: USA

Telephone number: (301) 763-8142

Telefax number: (301) 763-8131

**Release Date:** 1992 (version)

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:**

**Rental Period:**

**Permission or License Required:**

**Computer Type and Hardware Specifications (minimum requirements)**

Computer Type: IBM or compatible: XT or above

DOS level: 3.0

Disc drives: 5.25": 1.2 Mb

Number of floppy discs in programme: 3

RAM required: 640 kb

Hard disc required: yes

Megabytes: 20

Monitor & graphics card: CGA, EGA, VGA, other: Number 9 co. 512x32 graphics board

Sound: no

Programme copy protected: no

Computer programme language: C

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**A. COMPUTER-BASED LEARNING MATERIALS**

**Key Word:** Physics

**Secondary Key Words:** Currents, Sediment

**Title:** Handbook Sediment Transport by Currents and Waves: TRANSP Program

**Brief Summary of Contents:** Information of sediment properties, initiation of motion, roughness, bed load, and suspended load transport.

**Language(s):** English

**Intended User Level:** undergraduate university, advanced

**Provider or Producer:** Name: Leo C. van Rijn

Organization: Delft Hydraulics

Address: P.O. Box 177

2600 MH Delft

Country: The Netherlands

**Telephone number:** 31 5274 2922

**Telefax number:** 31 5274 3573

**Release Date:** 1989

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:** US \$175

**Rental Period:**

**Permission or License Required:** no

**Computer Type and Hardware Specifications (minimum requirements)**

Computer Type: IBM or Compatible: XT

DOS level:

Disc drives: 3.5": 720 kb

Number of floppy discs in programme: 1

RAM required:

Hard disc required: no                      Megabytes:

Monitor & graphics card: CGA, HGC, EGA, VGA

Sound: no

Programme copy protected: no

Computer programme language: Fortran

# **UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

## **A. COMPUTER-BASED LEARNING MATERIALS**

**Key Word:** Physics

**Secondary Key Words:** Physical Oceanography, Remote Sensing

**Title:** Imagic (version 0.9d52.0)

**Brief Summary of Contents:** Imagic is an image-processing software package for the Apple Macintosh II. It is useful for working with any type of data that can be viewed as a two-dimensional image. It was written primarily to process satellite derived imagery.

**Language(s):** English

**Intended User Level:** undergraduate university, advanced

**Provider or Producer:** Name: Ruby Lassanyi

Organization: JPL Physical Oceanography Distributed Active Archive Center

Address: MS 300-320

JPL-4800 Oak Grove Drive

Pasadena, CA 91109

Country: USA

Telephone number: 1 818 354-0906

Telefax number: 1 818 393-6720

**Release Date:** 1991

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:** free

**Rental Period:**

**Permission or License Required:** no

### **Computer Type and Hardware Specifications (minimum requirements)**

Computer Type: Macintosh

DOS level:

Disc drives: 3.5": 720 kb

Number of floppy discs in programme: 1

RAM required: Mb 2

Hard disc required: yes

Megabytes: no minimum requirement

Monitor & graphics card: Other: color

Sound: no

Programme copy protected: no

Computer programme language:

# UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY

## A. COMPUTER-BASED LEARNING MATERIALS

**Key Word:** Physics

**Secondary Key Words:** Circulation, Coastal

**Title:** Net Circulation in Estuaries

**Brief Summary of Contents:** A programme based on water and salt budgets of Puget Sound, a complex estuary. Calculates net fluxes of two-layer estuary circulation required for steady state conditions based on monthly means of salinity and river flows. Modifies net flows by recirculation of water at mixing sills. Contains its own data files, but can be adapted to analyze any estuary.

**Language(s):** English

**Intended User Level:** undergraduate university, advanced

**Provider or Producer:** Name: Prof. Alyn C. Duxbury

Organization: University of Washington

Address: School of Oceanography

Seattle, Washington 98195

Country: USA

Telephone number: 1 206 543-3131

Telefax number:

**Release Date:**

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:** cost of disk

**Rental Period:**

**Permission or License Required:** no

**Computer Type and Hardware Specifications (minimum requirements)**

Computer Type: Macintosh

DOS level:

Disc drives: 3.5": 720 kb

Number of floppy discs in programme: 1

RAM required:

Hard disc required: no                      Megabytes:

Monitor & graphics card: other: monochrome

Sound: no

Programme copy protected: no

Computer programme language: True Basic 2.0

# **UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

## **A. COMPUTER-BASED LEARNING MATERIALS**

**Key Word:** Physics

**Secondary Key Words:** General, Synoptic/Descriptive

**Title:** Ocean Atlas 1.0

**Brief Summary of Contents:** The program allows one to examine and plot hydrographic and tracer section data. It provides a graphic exploration environment which includes: an active data window, calculation of potential temperature and density, interpolations, station position maps, sequenced property-property plots colored by a third variable, scatter-type property-property plots colored by a third variable, lateral/vertical wireframe "horizons" of interpolated section data, contoured sections of interpolated data, data export to reports and spreadsheets.

**Language(s):** English

**Intended User Level:** advanced

**Provider or Producer:** Name: Elizabeth A. Smith

Organization: NASA Ocean Data System

Address: Jet Propulsion Lab

4800 Oak Grove Drive

Pasadena, California 91109

Country: USA

**Telephone number:** 1 818 354-6980

**Telefax number:**

**Release Date:** yes

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:** free distribution

**Rental Period:**

**Permission or License Required:** restriction on distribution

### **Computer Type and Hardware Specifications (minimum requirements)**

**Computer Type:** Macintosh 68020

**DOS level:**

**Disc drives:** 3.5": 720 kb, 1.44 kb

**Number of floppy discs in programme:** 2

**RAM required:** Mb 1

**Hard disc required:** no

**Megabytes:**

**Monitor & graphics card:** Mac, color

**Sound:** no

**Programme copy protected:** no

**Computer programme language:** Compiled

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**A. COMPUTER-BASED LEARNING MATERIALS**

**Key Word:** Physics

**Secondary Key Words:** Physical Oceanography, General Oceanography

**Title:** Ocean Atlas for Macintosh; A Microcomputer Application for Examining Oceanographic Data

**Brief Summary of Contents:** Ocean Atlas allows the scientist to plot and examine hydrographic and tracer section data selected by ships. Vertical profiles of temperature or salinity may, for example, be plotted. Approximately 50 hydrographic-data sections are included.

**Language(s):** English

**Intended User Level:** undergraduate university, advanced

**Provider or Producer:** Name: Ruby Lassanyi

Organization: JPL Physical Oceanography Distributed Active Archive Center

Address: MS 300-320

JPL-4800 Oak Grove Drive

Pasadena, CA 91109

Country: USA

Telephone number: 1 818 354-0906

Telefax number: 1 818 393-6720

**Release Date:** 1991

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:** free

**Rental Period:**

**Permission or License Required:** no

**Computer Type and Hardware Specifications (minimum requirements)**

Computer Type: Macintosh

DOS level:

Disc drives: 3.5": 720 kb

Number of floppy discs in programme: 2

RAM required: Mb 1-2

Hard disc required: yes

Megabytes: 10 or less

Monitor & graphics card: Other: color

Sound: no

Programme copy protected: no

Computer programme language:



**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**A. COMPUTER-BASED LEARNING MATERIALS**

**Key Word:** Physics

**Secondary Key Words:** Currents, Transport of Matter

**Title:** Transport Atlas of the Southern North Sea

**Brief Summary of Contents:** Contains basic information concerning the transport of matter that enters the southern North Sea across its boundaries and through river inflows. It enables the user to simulate own discharge scenarios.

**Language(s):** English

**Intended User Level:** undergraduate university, advanced

**Provider or Producer:** Name: Tidal Waters Division

Organization: Rijkswaterstaat

Address: Van Alkemadeaan 400

2597 AT The Hague

Country: The Netherlands

**Telephone number:**

**Telefax number:**

**Release Date:**

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:**

**Rental Period:**

**Permission or License Required:**

**Computer Type and Hardware Specifications (minimum requirements)**

Computer Type: IBM or Compatible: XT or higher

**DOS level:**

Disc drives:

Number of floppy discs in programme: 1

**RAM required:**

Hard disc required:

**Megabytes:**

Monitor & graphics card:

Sound:

Programme copy protected:

**Computer programme language:**

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**A. COMPUTER-BASED LEARNING MATERIALS**

**Key Word:** Physics

**Secondary Key Words:** Environmental Quality, Pollutant Transport

**Title:** Transport Atlas of the Southern North Sea

**Brief Summary of Contents:** Atlas of transport of river water in the southern North Sea together with computer programme to compute concentrations of conservative substances in the North Sea.

**Language(s):** English

**Intended User Level:** general

**Provider or Producer:** Name: J.A.G. van Gils

Organization: Delft Hydraulics

Address: P.O. Box 177

2600 MH Delft

Country: The Netherlands

**Telephone number:** 31 15 569353

**Telefax number:** 31 15 619674

**Release Date:** 1986

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:** US \$35

**Rental Period:**

**Permission or License Required:** no

**Computer Type and Hardware Specifications (minimum requirements)**

**Computer Type:** IBM or Compatible: XT

**DOS level:** 2.0

**Disc drives:** 5.25": 360 kb

**Number of floppy discs in programme:** 1

**RAM required:** kb 512

**Hard disc required:** no                      **Megabytes:**

**Monitor & graphics card:** CGA, HGC, EGA

**Sound:** no

**Programme copy protected:** no

**Computer programme language:** Executable

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**A. COMPUTER-BASED LEARNING MATERIALS**

**Key Word:** Technology

**Secondary Key Words:** Ports, Harbors

**Title:** Port Decision Making Process

**Brief Summary of Contents:** Module 1 of three modules. This module shows how to improve strategic and tactical decisions at your port, harbor or marina, how to more effectively allocate scarce decision making time and resources. The module also includes a VHS video tape (see Form B) and instruction manual.

**Language(s):** English

**Intended User Level:** undergraduate university

**Provider or Producer:** Name: Frederick J. Smith

Organization: Oregon State University

Address: Corvallis, Oregon 97331

Country: USA

**Telephone number:** 1 503 737-1429

**Telefax number:** 1 503 737-2563

**Release Date:** 1985

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:** US \$50/day

**Sale Price:** US \$900

**Rental Period:**

**Permission or License Required:**

**Computer Type and Hardware Specifications (minimum requirements)**

Computer Type: IBM or Compatible: XT, 80286

DOS level: 2.1

Disc drives: 5.25": 360kb

Number of floppy discs in programme: 2

RAM required: 64

Hard disc required: no

Megabytes:

Monitor & graphics card:

Sound:

Programme copy protected: no

Computer programme language: Basic

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**A. COMPUTER-BASED LEARNING MATERIALS**

**Key Word:** Technology

**Secondary Key Words:** Ports, Harbors

**Title:** Port Management Information and Analysis

**Brief Summary of Contents:** Module 2 of three modules. Presents management information including budgets, income and expense accounts, enterprise accounts and balance sheets; how to more effectively use this information and how to improve the quality of information available. The module also includes a VHS video tape (see Form B) and instruction manual.

**Language(s):** English

**Intended User Level:** undergraduate university

**Provider or Producer:** Name: Frederick J. Smith

Organization: Oregon State University

Address: Corvallis, Oregon 97331

Country: USA

Telephone number: 1 503 737-1429

Telefax number: 1 503 737-2563

**Release Date:** 1985

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:** US \$50/day

**Sale Price:**

**Rental Period:**

**Permission or License Required:**

**Computer Type and Hardware Specifications (minimum requirements)**

Computer Type: IBM or Compatible: XT, 80286

DOS level: 2.1

Disc drives: 5.25": 360kb

Number of floppy discs in programme: 2

RAM required: 64

Hard disc required: no

Megabytes:

Monitor & graphics card: EGA

Sound:

Programme copy protected: no

Computer programme language: Basic

# **UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

## **A. COMPUTER-BASED LEARNING MATERIALS**

**Key Word:** Technology

**Secondary Key Words:** Ports, Harbors

**Title:** Ports and the Local Economy

**Brief Summary of Contents:** Module 3 of three modules. Teaches about the economic connection between your port, harbor and marina, and the local economy, your economic impact, and how to effectively use this information for administration. The module also includes a VHS video tape (see Form B) and instruction manual.

**Language(s):** English

**Intended User Level:** undergraduate university

**Provider or Producer:** Name: Frederick J. Smith

Organization: Oregon State University

Address: Corvallis, Oregon 97331

Country: USA

**Telephone number:** 1 503 737-1429

**Telefax number:** 1 503 737-2563

**Release Date:** 1985

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:** US \$50/day

**Sale Price:** US \$900

**Rental Period:**

**Permission or License Required:**

**Computer Type and Hardware Specifications (minimum requirements)**

Computer Type: IBM or Compatible: XT, 80286

DOS level: 2.1

Disc drives: 5.25": 360kb

Number of floppy discs in programme: 2

RAM required: 64

Hard disc required: no                      Megabytes:

Monitor & graphics card: EGA

Sound:

Programme copy protected: no

Computer programme language: Basic

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**A. COMPUTER-BASED LEARNING MATERIALS**

**Key Word:** Technology

**Secondary Key Words:** Navigation, Collision Regulation

**Title:** Ship's Lights, Shapes and Sound Signals

**Brief Summary of Contents:** Concerns the International Rules for Prevention of Collisions at Sea. Contains tutorial and testing programs for ship's lights, shapes and sound signals.

**Language(s):** English

**Intended User Level:** undergraduate university, advanced

**Provider or Producer: Name:** Director

**Organization:** Videotel Marine International Ltd.

**Address:** Ramillies House

1/2 Ramillies Street

London W1V 1DF

**Country:** UK

**Telephone number:** 44 71 439 6301

**Telefax number:**

**Release Date:**

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:** UK £350

**Rental Period:**

**Permission or License Required:** yes

**Computer Type and Hardware Specifications (minimum requirements)**

**Computer Type:** IBM Or Compatible XT

**DOS level:** 3.3

**Disc drives:** 3.5": 720 kb; 5.25": 360kb

**Number of floppy discs in programme:** 1

**RAM required:**

**Hard disc required:** yes

**Megabytes:**

**Monitor & graphics card:** EGA

**Sound:** no

**Programme copy protected:** yes

**Computer programme language:**

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**A. COMPUTER-BASED LEARNING MATERIALS**

**Key Word:** Technology

**Secondary Key Words:** Coastal engineering, modelling

**Title:** UNIBEST

**Brief Summary of Contents:** This program shows the capabilities of the UNIBEST coastline modelling package as a supporting tool in coastal engineering practice.

**Language(s):** English

**Intended User Level:** undergraduate university, advanced

**Provider or Producer:** Name: Director

Organization: Delft Hydraulics

Address: P.O. Box 152

8300 AD Emmeloord

Country: The Netherlands

Telephone number: 31 5274 2922

Telefax number: 31 5274 3573

**Release Date:**

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:** US \$35

**Rental Period:**

**Permission or License Required:**

**Computer Type and Hardware Specifications (minimum requirements)**

Computer Type: IBM or Compatible: XT

DOS level:

Disc drives:

Number of floppy discs in programme: 2

RAM required:

Hard disc required: yes

Megabytes: 1.5 Mb

Monitor & graphics card: VGA

Sound:

Programme copy protected:

Computer programme language:

## **B. VIDEO-BASED LEARNING MATERIAL INVENTORY**



## VIDEO-BASED LEARNING MATERIAL INDICES

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**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Biosciences

**Secondary Key Words:** Mariculture, Algae

**Title:** A Guide to Seamoss Farming in the West Indies

**Brief Summary of Contents:** The methods used in the eastern Caribbean for the cultivation of edible seaweeds.

**Language(s):** English

**Intended User Level:** general

**Provider or Producer:** Name: Allan Smith

Organization: Eastern Caribbean Natural Area Management Programme

Address: Bergasse Building

Clarke Street

Vieux-Fort, St Lucia

Country: West Indies

Telephone number: 809 45-46878 and 45-46060

Telefax number: 809 45-45188

**Release Date:** 1987

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:** free to institutions

**Rental Period:**

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard: NTSC

Video format: VHS

Length (minutes): 25

Colour: yes

Tape width (inches):

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Biosciences

**Secondary Key Words:** Algae, Ecology

**Title:** A Guided Walk Through the Kelp Forest

**Brief Summary of Contents:** Live video footage of the kelp forest habitat in the Channel Islands National Park. No narration on video. Past tapes are available through the Channel Islands National Park.

**Language(s):** English

**Intended User Level:** general

**Provider or Producer:** Name: Dana Smith  
Organization: Channel Islands National Park  
Address: 1901 Spinnaker Drive  
Ventura, California 93001  
Country: USA

**Telephone number:** 1 805 658-5700  
**Telefax number:** 1 805 658-5799

**Release Date:**

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:**

**Rental Period:**

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard:

Video format: VHS

Length (minutes):

Colour:

Tape width (inches):

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Biosciences

**Secondary Key Words:** Cetacean, Mammals

**Title:** Beyond Belief: The Humpback Whale

**Brief Summary of Contents:** Highlights physical descriptions and attributes of humpback whales. Identification of individuals covered. Over 3200 hours of video footage taken to produce. Shows several feeding methods and all common behaviors common to this species. Several unusual, and quite rare and unexplained behaviors are shown.

**Language(s):** English

**Intended User Level:** General, secondary school

**Provider or Producer:** Name: A. Daniel Knaves

Organization: Cetacean Video

Address: P.O. Box 1052

Mechanicsburg, Pennsylvania 17055

Country: USA

**Telephone number:** 1 717 763-9507

**Telefax number:**

**Release Date:** 1988

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:** US \$29.95

**Rental Period:**

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard: NTSC, PAL, SECAM

Video format: VHS

Length (minutes): 50

Colour: yes

Tape width (inches):

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Biosciences

**Secondary Key Words:** Pollution, Ecology

**Title:** Chesapeake: The Twilight Estuary

**Brief Summary of Contents:** An environmental mystery story illustrating the causes for the system-wide decline of sea grasses throughout the Chesapeake Bay, once the USA's most productive estuary.

**Language(s):** English

**Intended User Level:** general

**Provider or Producer:** Name: Michael W. Fincham

Organization: Maryland Sea Grant

Address: College Park, Maryland 20742

Country: USA

**Telephone number:** 1 301 405-6382

**Telefax number:** 1 301 314-9581

**Release Date:** 1991

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:** US \$50

**Rental Period:**

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard:

Video format: VHS

Length (minutes): 39

Colour:

Tape width (inches):

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Biosciences

**Secondary Key Words:** Mangrove, Habitat

**Title:** Creatures of the Mangrove

**Brief Summary of Contents:** Journey to the tiny island of Siarau on the northwest coast of Borneo, where a tidal mangrove survives. Caught between land and sea, the forest and its creatures, it has adapted in bizarre ways to the daily flooding of its habitat. Experience a saltwater wilderness still untouched by man.

**Language(s):** English

**Intended User Level:** all levels

**Provider or Producer:** Name: Director  
Organization: National Geographic Society  
Address: P.O. Box 2895  
Washington, DC 20013-2895  
Country: USA

**Telephone number:** 1 800 368-2728  
**Telefax number:** 1 301 921-1575

**Release Date:** 1986

**Planned Future Release Date:**

**ISBN Number:** 0-8051-0533-0

**Rental Price:**

**Sale Price:** US \$19.95

**Rental Period:**

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard:

Video format: VHS

Length (minutes): 59

Colour:

Tape width (inches):

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Biosciences

**Secondary Key Words:** Mediterranean, Life Science

**Title:** Ecologie Benthique Méditerranéenne (Mediterranean Benthic Ecology)

**Brief Summary of Contents:** Illustrates the variety of Mediterranean marine biotopes and demonstrates the principles governing the distribution of organisms in the sea. The first part deals with relationships between aerial (land) morphology and submarine topography. The second part introduces the major bionomic units and their main characteristics. (Also available in film. See Form C.)

**Language(s):** French

**Intended User Level:** undergraduate university, graduate

**Provider or Producer:** Name: Centre National de la Recherche Scientifique

Organization: CNRS Audiovisuel

Address: 1 Place Aristide Briand

92195 Meudon Cedex

Country: France

**Telephone number:** 33 45 34 75 50

**Telefax number:** 33 46 28 49

**Release Date:** 1980

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:** FF130/week

**Sale Price:** FF400

**Rental Period:**

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard:

Video format: VHS

Length (minutes): 30

Colour: yes

Tape width (inches): 3/4

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Biosciences

**Secondary Key Words:** Mariculture, Algae

**Title:** El Cultivo del Alga Gracilaria

**Brief Summary of Contents:** It describes the different methods of culturing the red algae, *Gracilaria*, in Chile. This video is designed to transfer algae culture methods to the artisanal fishermen in Latin America. The pack includes a video, a set of six poster-like drawings, a set of 120 slides, and instruction manual for artisanal fishermen and a technical manual for fisheries extensionist.

**Language(s):** Spanish

**Intended User Level:** general

**Provider or Producer:** Name: Eduardo Tarifeño

Organization: Project "Fisheries Technology Transfer in Latin America"

Address: Universidad Catolica Ssma. Concepcion

Casilla 127 - Talcahuano

Country: Chile

Telephone number:

Telefax number: 056 041-546177

**Release Date:** 1991

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:** US \$150

**Rental Period:**

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard: NTSC 3.58

Video format: VHS

Length (minutes): 20

Colour: yes

Tape width (inches): ½



**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Biosciences

**Secondary Key Words:** Mariculture, Molluscs

**Title:** El Cultivo del Choro Zapatao en Chile

**Brief Summary of Contents:** It deals with the mariculture of the giant black mussel, *Choromytilus chorus*, in Chile. The biology of the mussel, its habitat and way of culture are described. The pack includes a video, a set of six poster-like drawings, a set of 120 slides, and instruction manual for artisanal fishermen and a technical manual for fisheries extensionist.

**Language(s):** English and Spanish

**Intended User Level:** general

**Provider or Producer:** Name: Eduardo Tarifeño

Organization: Project "Fisheries Technology Transfer in Latin America"

Address: Universidad Catolica Ssma. Concepcion

Casilla 127 - Talcahuano

Country: Chile

**Telephone number:**

**Telefax number:** 056 041-546177

**Release Date:** 1986

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:** US \$55

**Rental Period:**

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard: NTSC 3.58

Video format: VHS

Length (minutes): 18

Colour: yes

Tape width (inches): ½

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Biosciences

**Secondary Key Words:** Mariculture, Molluscs

**Title:** El Cultivo del Ostion del Norte

**Brief Summary of Contents:** The video deals with the culturing methods of the scallop (*Argopecten purpuratus*) used in Chile. It is oriented to transfer scallop culture technology to artisanal fishermen in Chile and Peru. The pack includes a video, a set of six poster-like drawings, a set of 120 slides, and instruction manual for artisanal fishermen and a technical manual for fisheries extensionist.

**Language(s):** Spanish

**Intended User Level:** general

**Provider or Producer:** Name: Eduardo Tarifeño

Organization: Project "Fisheries Technology Transfer in Latin America"

Address: Universidad Catolica Ssma. Concepcion

Casilla 127 - Talcahuano

Country: Chile

Telephone number:

Telefax number: 056 041-546177

**Release Date:** 1991

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:** US \$150

**Rental Period:**

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard: NTSC 3.58

Video format: VHS

Length (minutes): 20

Colour: yes

Tape width (inches): ½

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Biosciences

**Secondary Key Words:** Environment, Coral Reefs

**Title:** Encounters With the Reef

**Brief Summary of Contents:** An educational documentary that tells the story of the structure and evolution of the Great Barrier Reef. It provides a fascinating insight into how the greatest living structure on earth was built and continues to grow along 2200 km of the Queensland coastline.

**Language(s):** English

**Intended User Level:** general

**Provider or Producer: Name:** Director

**Organization:** Great Barrier Reef Aquarium

**Address:** P.O. Box 1379

Townsville, Queensland 4810

**Country:** Australia

**Telephone number:** 61 77 81 8875

**Telefax number:**

**Release Date:** 1988

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:** Australian \$45.50 (includes postage)

**Rental Period:**

**Permission or License Required:**

**Hardware Specifications**

**TV-video colour standard:**

**Video format:** VHS

**Length (minutes):** 20

**Colour:** yes

**Tape width (inches):**

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Biosciences

**Secondary Key Words:** Fish, Economics

**Title:** Estuary: Columbia's Link With the Sea

**Brief Summary of Contents:** The video examines the complex relationship between the biological and economic demands of the Pacific Northwest's largest river, the Columbia, and its estuary. It shows how upriver use of water affects salmon and other wildlife found in the estuary and relates this to the health of the fishing and tourist industries in the Astoria, Oregon, area.

**Language(s):** English

**Intended User Level:** general

**Provider or Producer:** Name: Director  
Organization: Sea Grant Communications  
Address: Oregon State University  
Administrative Services A402  
Corvallis, Oregon 97331-2134  
Country: USA

Telephone number: 1 503 737-2716  
Telefax number: 1 503 737-2392

**Release Date:** 1982

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:** US \$20

**Sale Price:** US \$25

**Rental Period:** 1 month

**Permission or License Required:** contact Sea Grant Communications

**Hardware Specifications**

TV-video colour standard:

Video format: VHS

Length (minutes): 28

Colour: yes

Tape width (inches): ½ or ¾

# **UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

## **B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Biosciences

**Secondary Key Words:** Aquaculture, Resources

**Title:** Farmers of the Sea

**Brief Summary of Contents:** The video explores the business of aquaculture around the world, comparing ventures in China, Japan, and Europe to those in the United States. This is a condensed version of a documentary produced for the Public Broadcasting Service science program, NOVA. (Also available in film. See Form C.)

**Language(s):** English

**Intended User Level:** general

**Provider or Producer:** Name: Director

Organization: Sea Grant Communications

Address: Oregon State University

Administrative Services A402

Corvallis, Oregon 97331-2134

Country: USA

**Telephone number:** 1 503 737-2716

**Telefax number:** 1 503 737-2392

**Release Date:** 1987

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:** US \$20

**Sale Price:** US \$25

**Rental Period:** 1 month

**Permission or License Required:** contact Sea Grant Communications

### **Hardware Specifications**

TV-video colour standard:

Video format: VHS

Length (minutes): 30

Colour: yes

Tape width (inches): ½

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Biosciences

**Secondary Key Words:** Mammals, Whales

**Title:** Gray Whale

**Brief Summary of Contents:** The video features OSU scientist Bruce Mate as he uses radio transmitters, shore-based monitoring stations, and airplane-mounted radio receivers to study the diving patterns, behavior, and movements of gray whales. (Also available in film. See Form C.)

**Language(s):** English

**Intended User Level:** general

**Provider or Producer:** Name: Director  
Organization: Sea Grant Communications  
Address: Oregon State University  
Administrative Services A402  
Corvallis, Oregon 97331-2134  
Country: USA

**Telephone number:** 1 503 737-2716  
**Telefax number:** 1 503 737-2392

**Release Date:** 1982

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:** US \$5

**Sale Price:** US \$25

**Rental Period:** 1 month

**Permission or License Required:** contact Sea Grant Communications

**Hardware Specifications**

TV-video colour standard:

Video format: VHS

Length (minutes): 8

Colour: no

Tape width (inches): ½

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Biosciences

**Secondary Key Words:** Corals, Ecology

**Title:** Jardin de la Vie (The Coral Garden)

**Brief Summary of Contents:** An undersea visit to the beautiful reefs of the Djibouti region. Pictures of various shapes of coral colonies illustrate the subject of coral biology, the invertebrates and fish that find shelter there. Shots of impoverished areas indicate threats to this coral garden. (Also available in film. See Form C.)

**Language(s):** French

**Intended User Level:**

**Provider or Producer:** Name: Centre National de la Recherche Scientifique

Organization: CNRS Audiovisuel

Address: 1 Place Aristide Briand  
92195 Meudon Cedex

Country: France

Telephone number: 33 45 34 75 50

Telefax number: 33 46 28 49

**Release Date:** 1986

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:** FF130/week

**Sale Price:** FF400

**Rental Period:**

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard:

Video format: VHS

Length (minutes): 16

Colour: yes

Tape width (inches): 3/4

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Biosciences

**Secondary Key Words:** Fisheries Assessment, Marketing

**Title:** La Comercializacion en la Pesca Artisanal

**Brief Summary of Contents:** The video describes the elements that participate in the marketing of a product from the artisanal fishery. The role of fishermen, brokers and consumers are discussed. The pack includes a video, a set of six poster-like drawings, a set of 120 slides, and instruction manual for artisanal fishermen and a technical manual for fisheries extensionist.

**Language(s):** Spanish

**Intended User Level:** general

**Provider or Producer:** Name: Eduardo Tarifeño

Organization: Project "Fisheries Technology Transfer in Latin America"

Address: Universidad Catolica Ssma. Concepcion

Casilla 127 - Talcahuano

Country: Chile

Telephone number:

Telefax number: 056 041-546177

**Release Date:** 1984

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:** US \$55

**Rental Period:**

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard: NTSC 3.58

Video format: VHS

Length (minutes): 18

Colour: yes

Tape width (inches): ½



**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Biosciences

**Secondary Key Words:** Fisheries Assessment, Molluscs

**Title:** La Pesca de la Navajuela en la Bahia de Concepcion

**Brief Summary of Contents:** It deals with fishing method used to harvest the razor clam, *tagelus dombeii*, by artisanal fishermen at Concepcion Bay, Chile. The bivalve's habitat, fishing methods used and the way of processing are shown, and suggestions for improving food quality are made. The pack includes a video, a set of six poster-like drawings, a set of 120 slides, and instruction manual for artisanal fishermen and a technical manual for fisheries extensionist.

**Language(s):** Spanish

**Intended User Level:** general

**Provider or Producer:** Name: Eduardo Tarifeño

Organization: Project "Fisheries Technology Transfer in Latin America"

Address: Universidad Catolica Ssma. Concepcion

Casilla 127 - Talcahuano

Country: Chile

**Telephone number:**

**Telefax number:** 056 041-546177

**Release Date:** 1984

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:** US \$55

**Rental Period:**

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard: NTSC 3.58

Video format: VHS

Length (minutes): 18

Colour: yes

Tape width (inches): ½

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Biosciences

**Secondary Key Words:** Fish, Fisheries Assessment

**Title:** La Pesca de la Sardina Común en la Bahía de Concepcion, Chile

**Brief Summary of Contents:** Provides a description of the common sardine, *Clupea bentincki*, fishery at Concepcion Bay, Chile. The video shows the fish's habitat, fishing methods used by artisanal fishermen and plant processing. Better methods for food processing are presented. The pack includes a video, a set of six poster-like drawings, a set of 120 slides, and instruction manual for artisanal fishermen and a technical manual for fisheries extensionist.

**Language(s):** Spanish

**Intended User Level:** general

**Provider or Producer:** Name: Eduardo Tarifeño

Organization: Project "Fisheries Technology Transfer in Latin America"

Address: Universidad Catolica Sma. Concepcion

Casilla 127 - Talcahuano

Country: Chile

Telephone number:

Telefax number: 056 041-546177

**Release Date:** 1984

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:** US \$55

**Rental Period:**

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard: NTSC 3.58

Video format: VHS

Length (minutes): 18

Colour: yes

Tape width (inches): ½

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Biosciences

**Secondary Key Words:** Fisheries Assessment, Invertebrates

**Title:** Los Buzos Mariscadores

**Brief Summary of Contents:** It describes the work of the shell fish divers at Concepcion Bay, Chile. The health problems, the fishing gear, and the resources exploited by the divers are shown. Suggestions to transform divers from gatherers to cultivators are made. The pack includes a video, a set of six poster-like drawings, a set of 120 slides, and instruction manual for artisanal fishermen and a technical manual for fisheries extensionist.

**Language(s):** Spanish

**Intended User Level:** general

**Provider or Producer:** Name: Eduardo Tarifeño

Organization: Project "Fisheries Technology Transfer in Latin America"

Address: Universidad Catolica Ssma. Concepcion

Casilla 127 - Talcahuano

Country: Chile

Telephone number:

Telefax number: 056 041-546177

**Release Date:** 1986

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:** US \$55

**Rental Period:**

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard: NTSC 3.58

Video format: VHS

Length (minutes): 18

Colour: yes

Tape width (inches): ½

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Biosciences

**Secondary Key Words:** Mariculture, Algae

**Title:** Manejo y Cultivo de Gracilaria en Caleta Lenga, Chile

**Brief Summary of Contents:** The videotape deals with the management and culture of the natural red algae, *Gracilaria*, bed by artisanal fishermen at Lenga Cove, Chile. The pack includes a video, a set of six poster-like drawings, a set of 120 slides, and instruction manual for artisanal fishermen and a technical manual for fisheries extensionist.

**Language(s):** English and Spanish

**Intended User Level:** general

**Provider or Producer:** Name: Eduardo Tarifeño

Organization: Project "Fisheries Technology Transfer in Latin America"

Address: Universidad Catolica Ssma. Concepcion

Casilla 127 - Talcahuano

Country: Chile

Telephone number:

Telefax number: 056 041-546177

**Release Date:** 1986

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:** US \$55

**Rental Period:**

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard: NTSC 3.58

Video format: VHS

Length (minutes): 18

Colour: yes

Tape width (inches): ½

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Biosciences

**Secondary Key Words:** Ecology, Microbiology

**Title:** Microbial Engine: Algae and Protozoa: Ecology to Biotechnology

**Brief Summary of Contents:** The video illustrates the crucial function of algae and protozoa in the biological processes that support life on Earth and their role in the new science of biotechnology. It includes fascinating sequences of microscopic algae and protozoa from a wide range of habitats and explores the vital ecological roles for these organisms in relation to current problems of toxic algal blooms, acid rain and climate change. (Sale Price: Schools UK £19.95; Higher Education £29.95; Other purchasers £49.95 plus postage)

**Language(s):** English

**Intended User Level:** general, secondary school, undergraduate university

**Provider or Producer:** Name: Jean Tompkins

Organization: Culture Collection of Algae and Protozoa (CCAP)

Address: Institute of Freshwater Ecology

Windermere Laboratory

Rat Sawrey

Ambleside, Cumbria LA22 0LP

Country: UK

**Telephone number:** 44 5394 42468

**Telefax number:** 44 5394 46914

**Release Date:** 1989

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:** see Summary

**Rental Period:**

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard: NTSC, PAL

Video format: VHS

Length (minutes): 35

Colour: yes

Tape width (inches):

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Biosciences

**Secondary Key Words:** Mariculture, Fish

**Title:** Ocean Ranching

**Brief Summary of Contents:** The program portrays the history of Alaska's salmon hatchery programs and describes the year-round procedures of present-day operations.

**Language(s):** English

**Intended User Level:** general, secondary school

**Provider or Producer:** Name: Debora Mercy  
Organization: University of Alaska  
Address: Sea Grant Marine Advisory Program  
Anchorage, Alaska  
Country: USA

**Telephone number:** 1 907 274-9691  
**Telefax number:** 1 907 277-5242

**Release Date:** 1990

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:** free, postage only

**Sale Price:** US \$15

**Rental Period:** 2 weeks

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard: NTSC

Video format: VHS

Length (minutes): 29

Colour: yes

Tape width (inches): ½

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Biosciences

**Secondary Key Words:** Resources, Oceanography

**Title:** Oceans of Wealth

**Brief Summary of Contents:** Six programmes in this series have the following titles:  
*These Ocean Commons, Salts of the Earth, Making Waves And Pipe Dreams, Fruits de Mer, The Lost Frontiers on Earth, Resources from the Sea.*

**Language(s):** English

**Intended User Level:** general, secondary school, undergraduate university

**Provider or Producer: Name:** Stephen Bond

**Organization:** Living Tape Productions

**Address:** 3rd Floor, Ramillies House

2 Ramillies Street

London W1V 2EL

**Country:** UK

**Telephone number:** 44 71 439 6301

**Telefax number:** 44 71 437 0731

**Release Date:** 1990

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:** on application

**Rental Period:**

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard: any format

Video format: any format

Length (minutes): 30 each

Colour: yes

Tape width (inches):

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Biosciences

**Secondary Key Words:** Fish Farming, Salmon/Squid

**Title:** Oceans of Wealth: Part 3 - Fruits de Mer

**Brief Summary of Contents:** Looks at the change and development of fish farming. Describes salmon farming in Scotland and squid fishing in the Falklands.

**Language(s):** English

**Intended User Level:** undergraduate university, advanced

**Provider or Producer:** Name: Richard Bacon

Organization: Videotel Marine International Ltd.

Address: Ramillies House

1-2 Ramillies Street

London W1V 1DF

Country: UK

**Telephone number:** 44 71 439 6301

**Telefax number:** 44 71 437 0731

**Release Date:** 1990

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:** UK £=300

**Rental Period:**

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard: NTSC, PAL, SECAM

Video format: VHS, Beta

Length (minutes): 25

Colour: yes

Tape width (inches):



**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Biosciences

**Secondary Key Words:** Aquaculture, Fish

**Title:** Policultivos

**Brief Summary of Contents:** The video deals with experiences of fish polycultures at Neiva Regio, Colombia. It shows the different methods for outgrowing fishes, the advantages of polyculture system and a way for a cost-benefit analysis. This video is oriented to transfer the fish polyculture system to rural village peasants.

**Language(s):** Spanish

**Intended User Level:** general

**Provider or Producer:** Name: Armando Hernandez  
Organization: IDRC Aquaculture Regional Net  
Address: P.O. Box 251245  
Bogota  
Country: Colombia

**Telephone number:**  
**Telefax number:** 2219321 Bogotá

**Release Date:** 1992

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:**

**Rental Period:**

**Permission or License Required:** no

**Hardware Specifications**

TV-video colour standard: NTSC 3.53

Video format: VHS

Length (minutes): 20

Colour: yes

Tape width (inches): ½

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Biosciences

**Secondary Key Words:** Fisheries Assessment, Fisheries Management

**Title:** Primer Seminario Latinoamericano de Pesca Artisanal: Tecnologías y Desarrollo

**Brief Summary of Contents:** The video reviews the principal aspects of the Second Latin American Artisanal Fisheries seminar held at Talcahuano, Chile, January 1985. The seminar was sponsored by IDRC and Subsecretaria de Pesca, Chile. The pack includes a video, a set of six poster-like drawings, a set of 120 slides, and instruction manual for artisanal fishermen and a technical manual for fisheries extensionist.

**Language(s):** Spanish

**Intended User Level:** general

**Provider or Producer:** Name: Eduardo Tarifeño

Organization: Project "Fisheries Technology Transfer in Latin America"

Address: Universidad Catolica Sma. Concepcion

Casilla 127 - Talcahuano

Country: Chile

Telephone number:

Telefax number: 056 041-546177

**Release Date:** 1985

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:** US \$55

**Rental Period:**

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard: NTSC 3.58

Video format: VHS

Length (minutes): 37

Colour: yes

Tape width (inches): ½

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Biosciences

**Secondary Key Words:** Invertebrates, Taxonomy (Indo-Pacific)

**Title:** Reef Corals and Sponges of Indonesia

**Brief Summary of Contents:** Identification and biology with underwater filming of numerous species, and computer simulations of reproduction, growth, etc.

**Language(s):** English

**Intended User Level:** undergraduate university, advanced

**Provider or Producer:** Name: Dr. Dirk G. Troost

Organization: UNESCO, TREDMAR

Address: 1, rue Miollis

75015 Paris

Country: France

**Telephone number:** 33 1 45683971

**Telefax number:** 33 1 47835940

**Release Date:** 1990

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:**

**Rental Period:**

**Permission or License Required:** no

**Hardware Specifications**

TV-video colour standard: PAL, NTSC

Video format: VHS, Beta

Length (minutes): 210

Colour: yes

Tape width (inches):

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Biosciences

**Secondary Key Words:** Corals, Sponges

**Title:** Reef Corals From Indonesia

**Brief Summary of Contents:** Overview of corals and sponges of Indonesia collected during the Snellius-II Expedition 1984-1985.

**Language(s):** English

**Intended User Level:** undergraduate university

**Provider or Producer:** Name: G.M. Mapstone

Organization: Netherlands Marine Research Foundation

Address: Lann van Nieuw Oost Indië 131

2509 AB Den Haag

Country: The Netherlands

Telephone number: 31 70 3440780

Telefax number: 31 70 3832173

**Release Date:** 1990

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:**

**Rental Period:**

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard: PAL

Video format: VHS

Length (minutes): 126

Colour: yes

Tape width (inches):

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Biosciences

**Secondary Key Words:** Pollution, Chemical

**Title:** Response to Marine Chemical Spills: Programme One - The Risk

**Brief Summary of Contents:** The four programs in this series have the following titles: The Risk (23 min.); Assessment and Analysis (4 min.); Response Options (4 min.); Contingency Planning, Operations and Training (4 min.)

**Language(s):** English, French

**Intended User Level:** undergraduate university, advanced

**Provider or Producer: Name:** Stephen Bond

**Organization:** Videotel Marine International Ltd.

**Address:** Ramillies House

1/2 Ramillies Street

London W1V 1DF

**Country:** UK

**Telephone number:** 71 439 6301

**Telefax number:** 71 437 0631

**Release Date:** 1991

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:** on application

**Rental Period:**

**Permission or License Required:**

**Hardware Specifications**

**TV-video colour standard:** any format

**Video format:**

**Length (minutes):** 35 total

**Colour:** yes

**Tape width (inches):**

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Biosciences

**Secondary Key Words:** Pollution, Pollutant Transport

**Title:** Response to Marine Oil Spills: Part 1 - The Oil Spill

**Brief Summary of Contents:** The film introduces the concept of an oil spill and demonstrates its potential consequences.

**Language(s):** English, French

**Intended User Level:** undergraduate university, advanced

**Provider or Producer:** Name: Stephen Bond

Organization: Videotel Marine International Ltd.

Address: Ramillies House

1/2 Ramillies Street

London W1V 1DF

Country: UK

**Telephone number:** 71 439 6301

**Telefax number:** 71 437 0631

**Release Date:** 1991

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:** on application

**Rental Period:**

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard: any format

Video format:

Length (minutes): 20

Colour: yes

Tape width (inches):

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Biosciences

**Secondary Key Words:** Pollution, Pollutant Transport

**Title:** Response to Marine Oil Spills: Part 2 - Containment and Recovery

**Brief Summary of Contents:** The film examines the main techniques for the containment and recovery of spilled oil through the use of live action.

**Language(s):** English, French

**Intended User Level:** undergraduate university, advanced

**Provider or Producer:** Name: Stephen Bond

Organization: Videotel Marine International Ltd.

Address: Ramillies House

1/2 Ramillies Street

London W1V 1DF

Country: UK

**Telephone number:** 71 439 6301

**Telefax number:** 71 437 0631

**Release Date:** 1991

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:** on application

**Rental Period:**

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard: any format

Video format:

Length (minutes): 20

Colour: yes

Tape width (inches):

**UNESCO-INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Biosciences

**Secondary Key Words:** Pollution, Pollutant Transport

**Title:** Response to Marine Oil Spills: Part 3 - The Use of Dispersants

**Brief Summary of Contents:** The film explores the role of dispersants in oil spill response. It explains the different types of dispersants that are available and describes their action and methods of application.

**Language(s):** English, French

**Intended User Level:** undergraduate university, advanced

**Provider or Producer:** Name: Stephen Bond

Organization: Videotel Marine International Ltd.

Address: Ramillies House

1/2 Ramillies Street

London W1V 1DF

Country: UK

**Telephone number:** 71 439 6301

**Telefax number:** 71 437 0631

**Release Date:** 1991

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:** on application

**Rental Period:**

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard: any format

Video format:

Length (minutes): 23

Colour: yes

Tape width (inches):



**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Biosciences

**Secondary Key Words:** Pollution, Pollutant Transport

**Title:** Response to Marine Oil Spills: Part 4 - Shore-line clean-up.

**Brief Summary of Contents:** The film looks at the consequences of an oil spill reaching the shore and some of the ways of dealing with it. Different shore-line types are considered and attention is given to the use of coastal sensitivity maps as a convenient method for displaying this and other information in contingency plans.

**Language(s):** English, French

**Intended User Level:** undergraduate university, advanced

**Provider or Producer:** Name: Stephen Bond

Organization: Videotel Marine International Ltd.

Address: Ramillies House

1/2 Ramillies Street

London W1V 1DF

Country: UK

Telephone number: 71 439 6301

Telefax number: 71 437 0631

**Release Date:** 1991

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:** on application

**Rental Period:**

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard: any format

Video format:

Length (minutes): 17

Colour: yes

Tape width (inches):

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Biosciences

**Secondary Key Words:** Pollution, Pollutant Transport

**Title:** Response to Marine Oil Spills: Part 5 - Planning and Operations

**Brief Summary of Contents:** The film follows the course of a hypothetical oil spill from source to shoreline over a period of weeks. The various stages of the response to an oil spill are described it is shown how the existence of a contingency plan is important.

**Language(s):** English, French

**Intended User Level:** undergraduate university, advanced

**Provider or Producer:** Name: Stephen Bond

Organization: Videotel Marine International Ltd.

Address: Ramillies House

1/2 Ramillies Street

London W1V 1DF

Country: UK

Telephone number: 71 439 6301

Telefax number: 71 437 0631

**Release Date:** 1991

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:** on application

**Rental Period:**

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard: any format

Video format:

Length (minutes): 27

Colour: yes

Tape width (inches):

# UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY

## B. VIDEO-BASED LEARNING MATERIALS

**Key Word:** Biosciences

**Secondary Key Words:** Ecology, Resources

**Title:** Saving the Seas

**Brief Summary of Contents:** Examines the global effects of pollution, over-fishing, whaling, coral reef destruction and coastal development and looks at some topical marine issues in Britain today.

**Language(s):** English

**Intended User Level:** general, secondary school

**Provider or Producer:** Name: ICCE

Organization: ICCE Services Ltd.

Address: Greenfield House

Guitting Power

Chettenham, Glos. GL54 5T2

Country: UK

**Telephone number:** 30 451 850 777

**Telefax number:** 30 451 850 705

**Release Date:** 1990

**Planned Future Release Date:**

**ISBN Number:** AVP 104

**Rental Price:**

**Sale Price:** UK £23.44

**Rental Period:**

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard: PAL

Video format: VHS

Length (minutes): 18

Colour: yes

Tape width (inches): ½

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Biosciences

**Secondary Key Words:** Fisheries Assessment, Fisheries Management

**Title:** Second Latin American Artisanal Fisheries Seminar: Toward an Integrated Coastal Development

**Brief Summary of Contents:** The video reviews the principal aspects of the Second Latin American Artisanal Fisheries seminar held at Talcahuano, Chile, January 1989. The pack includes a video, a set of six poster-like drawings, a set of 120 slides, and instruction manual for artisanal fishermen and a technical manual for fisheries extensionist.

**Language(s):** English and Spanish

**Intended User Level:** general

**Provider or Producer:** Name: Eduardo Tarifeño

Organization: Project "Fisheries Technology Transfer in Latin America"

Address: Universidad Catolica Sma. Concepcion

Casilla 127 - Talcahuano

Country: Chile

Telephone number:

Telefax number: 056 041-546177

**Release Date:** 1989

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:** US \$55

**Rental Period:**

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard: NTSC 3.58

Video format: VHS

Length (minutes): 18

Colour: yes

Tape width (inches): ½

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Biosciences

**Secondary Key Words:** Ecuador, Shrimp

**Title:** Shrimp Fever

**Brief Summary of Contents:** Over the last ten years Ecuador's shrimp industry, the second largest industry in the country, has caused the destruction of huge tracts of the coastal mangroves which have traditionally provided the larvae for fish ponds. Because of corruption and violence, the industry now risks destroying its own foundations.

**Language(s):** English, Spanish

**Intended User Level:** general

**Provider or Producer:** Name: Pamela Sayer

Organization: TVE

Address: 46 Charlotte Street

London W1P 1LX

Country: UK

**Telephone number:** 44 71 637 4602

**Telefax number:** 44 71 580 7780

**Release Date:** 1991

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:** UK £10

**Sale Price:** UK £40

**Rental Period:** 1 week

**Permission or License Required:** Third world rights for broadcast and non-theater use in Western countries only.

**Hardware Specifications**

TV-video colour standard: all

Video format: all

Length (minutes): 52

Colour: yes

Tape width (inches):

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Biosciences

**Secondary Key Words:** Cetaceans, Mammals

**Title:** The Best of Provincetown Whale Watching

**Brief Summary of Contents:** Identification and feeding techniques of cetaceans including the North Atlantic right whale, fin whale, humpback whale, minke whale and Atlantic white-sided dolphin.

**Language(s):** English

**Intended User Level:**

**Provider or Producer:** Name: A. Daniel Knaub

Organization: Cetacean Video

Address: P.O. Box 1052

Mechanicsburg, Pennsylvania 17055

Country: USA

Telephone number: 1 717 763-9507

Telefax number:

**Release Date:** 1989

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:** US \$29.95

**Rental Period:**

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard: NTSC, PAL, SECAM

Video format: VHS

Length (minutes): 50

Colour: yes

Tape width (inches):

# **UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

## **B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Biosciences

**Secondary Key Words:** Resources, Coral Reefs

**Title:** The Coral Triangle

**Brief Summary of Contents:** Introduces the social and economic values of coral reefs in Southeast Asia (Philippines, indonesia, and malaysia). Offers an overview of the linkages between reef destruction, fisheries productivity, food production needs, and coastal development.

**Language(s):** English

**Intended User Level:** general, secondary school

**Provider or Producer:** Name: Director

Organization: WNET/THIRTEEN

Address: 356 West 53th Street

New York, New York 10019

Country: USA

**Telephone number:**

**Telefax number:**

**Release Date:** 1988

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:**

**Rental Period:**

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard:

Video format:

Length (minutes): 60

Colour:

Tape width (inches):

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Biosciences

**Secondary Key Words:** Coral Reefs, Starfish

**Title:** The Crown of Thorns Story

**Brief Summary of Contents:** Documentary that presents the most up-to-date report on the Crown-of-Thorn starfish. It tells the story of the Crown-of-Thorn starfish on the Great Barrier Reef. It traces the history of infestations and what is now known about the starfish, with emphasis on the research currently underway.

**Language(s):** English

**Intended User Level:** general, secondary school

**Provider or Producer:** Name: Craig Sambell

Organization: Great Barrier Reef Marine Park Authority

Address: P.O. Box 1379

Townsville, Queensland 4810

Country: Australia

**Telephone number:** 077 81 8811

**Telefax number:** 077 72 6093

**Release Date:** 1987

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:** Australian \$25 includes postage

**Rental Period:**

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard: PAL

Video format: VHS

Length (minutes): 25

Colour: yes

Tape width (inches):



**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Biosciences

**Secondary Key Words:** Anatomy, Habitat

**Title:** The Great Whales

**Brief Summary of Contents:** Once feared and hunted almost to extinction, the whale now commands worldwide attention. Join scientists and conservationists as they study and document the anatomy, communication, and migratory patterns of a variety of whale species, including killer, pilot and humpback whales

**Language(s):** English

**Intended User Level:** general, all levels

**Provider or Producer:** Name: Director

Organization: National Geographic Society

Address: P.O. Box 2895

Washington, DC 20013-2895

Country: USA

**Telephone number:** 1 800 368-2728

**Telefax number:** 1 301 921-1575

**Release Date:** 1978

**Planned Future Release Date:**

**ISBN Number:** 0-8051-0226-4

**Rental Price:**

**Sale Price:** US \$19.95

**Rental Period:**

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard:

Video format: VHS

Length (minutes): 59

Colour: yes

Tape width (inches):

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Biosciences

**Secondary Key Words:** Anatomy, Behavior

**Title:** The Sharks

**Brief Summary of Contents:** Sharks, streamlined, swift and curious. An introduction to a variety of these remarkable creatures. Fascinating facts and mysteries to be solved. Aspects of anatomy and the way sharks live. How scientists learn about sharks.

**Language(s):** English

**Intended User Level:** general, secondary school

**Provider or Producer: Name:** Director

**Organization:** National Geographic Society

**Address:** P.O. Box 2895

Washington, DC 20013-2895

**Country:** USA

**Telephone number:** 1 800 368-2728

**Telefax number:** 1 301 921-1575

**Release Date:** 1977

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:** US \$38

**Rental Period:**

**Permission or License Required:**

**Hardware Specifications**

**TV-video colour standard:**

**Video format:**

**Length (minutes):** 12

**Colour:**

**Tape width (inches):**

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Biosciences

**Secondary Key Words:** Marine, Over-Fishing

**Title:** The State of Marine Mammals

**Brief Summary of Contents:** The threat to the existence of marine mammals from pollution, fishermen or native hunters has become an emotive issue in many parts of the world. This is a film examining both side of the debate.

**Language(s):** English

**Intended User Level:** undergraduate university

**Provider or Producer:** Name: Pamela Sayer

Organization: TVE

Address: 46 Charlotte Street

London W1P 1LX

Country: UK

**Telephone number:** 44 71 637 4602

**Telefax number:** 44 71 580 7780

**Release Date:**

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:** UK £10/week (non-theater)

**Sale Price:** UK £40

**Rental Period:**

**Permission or License Required:** non-broadcast use only

**Hardware Specifications**

TV-video colour standard: all

Video format: all

Length (minutes): 30

Colour: yes

Tape width (inches):

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Biosciences

**Secondary Key Words:** Cetaceans, Mammals

**Title:** The Whale: Earth's Largest Mammal

**Brief Summary of Contents:** Educational video developed for ages 7-12 years. Highlights identification of species, individuals within species, demonstration of behaviors and feeding techniques. Includes latest theories on social habits and reasons for various behaviors. Available with teacher's guide and lesson plan and with student kits for projects and activities.

**Language(s):** English

**Intended User Level:** general, secondary school

**Provider or Producer:** Name: A. Daniel Knaub

Organization: Cetacean Video

Address: P.O. Box 1052

Mechanicsburg, Pennsylvania 17055

Country: USA

Telephone number: 1 717 763-9507

Telefax number:

**Release Date:** 1992

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:** to be determined

**Rental Period:**

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard: NTSC, PAL, SECAM

Video format: VHS

Length (minutes): 35

Colour: yes

Tape width (inches):

# **UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

## **B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Biosciences

**Secondary Key Words:** Fisheries, Resources

**Title:** Today's Fishery in the Philippines

**Brief Summary of Contents:** Shows the state of the present municipal and commercial fisheries in the Philippines; conflicts on resource utilization between sustenance and commercial fishermen; problems of Philippine fisheries such as overfishing, pollution, illegal fishing methods, poor post harvest, fish processing practices and such.

**Language(s):** English or Philipino

**Intended User Level:** general

**Provider or Producer:** Name: The Director

Organization: Institute of Marine Fisheries and Oceanology

Address: College of Fisheries

UPV, Miag-ao

Iloilo 5000

Country: Philippines

**Telephone number:**

**Telefax number:**

**Release Date:**

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:** US \$38

**Rental Period:**

**Permission or License Required:** no

### **Hardware Specifications**

TV-video colour standard: PAL

Video format: Beta

Length (minutes): 18

Colour: yes

Tape width (inches):

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Biosciences

**Secondary Key Words:** Molluscs, Mariculture

**Title:** Triploid Oyster Production

**Brief Summary of Contents:** This video accompanies a written manual available from the University of Washington Press. The materials provide an illustrated step-by-step approach for producing triploid oysters in the hatchery. Triploid oysters produce few reproductive cells and so remain more appetizing through the summer spawning season.

**Language(s):** English

**Intended User Level:** undergraduate university, advanced

**Provider or Producer: Name:** R. Strickland

**Organization:** Washington Sea Grant Communications

**Address:** University of Washington Press

University of Washington

3716 Brooklyn Ave. NE

Seattle, Washington 98105

**Country:** USA

**Telephone number:** 1 206 543-6600

**Telefax number:** 1 206 543-0380

**Release Date:** 1989

**Planned Future Release Date:**

**ISBN Number:** 0-295-770341-1, ½" VHS; 0-295-77035-X ¾" U-matic **Rental Price:** \$15

**Sale Price:** \$250 (with manual)

**Rental Period:** 3 days

**Permission or License Required:** no

**Hardware Specifications**

**TV-video colour standard:** NTSC 3.58

**Video format:** VHS, U-matic (lowband)

**Length (minutes):** 38

**Colour:** yes

**Tape width (inches):** ½ or ¾

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Biosciences

**Secondary Key Words:** Pollution, Land Use

**Title:** What's Happening in Our Harbours, Princess Royal & Oyster Harbours - Albany

**Brief Summary of Contents:** This video explains how nutrients from agricultural activities, sewage and industrial effluent have resulted in excessive macroalgae growth which has, in turn, smothered and killed the majority of the seagrass meadows in Princess Royal and Oyster Harbours.

**Language(s):** English

**Intended User Level:**

**Provider or Producer:** Name: D. A. Mills

Organization: Environmental Protection Authority

Address: Marine Impacts Branch

1 Mount Street

Perth, Western Australia 6000

Country: Australia

**Telephone number:** 09 222 7000

**Telefax number:**

**Release Date:** 1988

**Planned Future Release Date:**

**ISBN Number:** 0-7309-1870X

**Rental Price:** for loan only-no cost

**Sale Price:**

**Rental Period:** 1 month

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard: PAL, SECAM

Video format: VHS, Beta

Length (minutes): 10

Colour: yes

Tape width (inches):

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Biosciences

**Secondary Key Words:** Marine, Mammals

**Title:** Where Have All the Dolphins Gone?

**Brief Summary of Contents:** This film is a head-on attack on the purse-seine method of tuna fishing in the USA, which uses explosives and has killed an estimated 6 million dolphins over the last 30 years. The Marine Mammal Protection Act of 1972 was established after these atrocities were revealed; but through lobbying, the tuna industry was exempted from the act.

**Language(s):** English

**Intended User Level:** general

**Provider or Producer:** Name: Pamela Sayer

Organization: TVE

Address: 46 Charlotte Street

London W1P 1LX

Country: UK

**Telephone number:** 44 71 637 4602

**Telefax number:** 44 71 580 7780

**Release Date:** 1989

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:** UK £10

**Sale Price:**

**Rental Period:** 1 week

**Permission or License Required:** Third world rights for broadcast and non-theater use

**Hardware Specifications**

TV-video colour standard: all

Video format: all

Length (minutes): 60

Colour: yes

Tape width (inches):



**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Chemistry

**Secondary Key Words:** Chemicals in Seawater, Salinity

**Title:** Maintaining Standards in Salinity Measurement

**Brief Summary of Contents:** Training video on the measurement of salinity in the laboratory. Topics covered include sample collection/storage, salinometer operation, calibration standards, data processing/reporting, definitions.

**Language(s):** English

**Intended User Level:** undergraduate university, advanced

**Provider or Producer:** Name: Paul Ridout

Organization: Ocean Scientific International Ltd.

Address: Brook Road

Wormley, Surrey GU8 5UB

Country: UK

**Telephone number:** 44 428 685245

**Telefax number:** 44 428 685075

**Release Date:**

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:**

**Rental Period:**

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard: PAL, SECAM

Video format: VHS

Length (minutes): 30-40

Colour: yes

Tape width (inches):

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Chemistry

**Secondary Key Words:** Resources, Mining

**Title:** Oceans of Wealth: Part 5 - Salts of the Earth

**Brief Summary of Contents:** This programme goes to an isolated coral atoll in Micronesia. Briefly considers the questions of rights to deep sea mining; shows the Red Sea; and shows changes in metal prices.

**Language(s):** English

**Intended User Level:** undergraduate university, advanced

**Provider or Producer:** Name: Richard Bacon

Organization: Videotel Marine International Ltd.

Address: Ramillies House

1-2 Ramillies Street

London W1V 1DF

Country: UK

Telephone number: 44 71 439 6301

Telefax number: 44 71 437 0731

**Release Date:** 1990

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:** UK £300

**Rental Period:**

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard: NTSC, PAL, SECAM

Video format: VHS, Beta

Length (minutes): 26

Colour: yes

Tape width (inches):

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Geosciences

**Secondary Key Words:** Hot Vents, Fauna

**Title:** 4000 Meters Under the Sea

**Brief Summary of Contents:** The film concerns a 1987 joint US-Japan expedition to study the geology and biology of the Marianas Trough spreading center. The film depicts the finding of hot vents and associated fauna at the accreting plate margin in the trough using the deep submersible *Alvin* and R/V *Atlantis II*. It is aimed toward the lay audience.

**Language(s):** English

**Intended User Level:** general

**Provider or Producer:** Name: Director

Organization: Films for the Humanities

Address: P.O. Box 2053

Princeton, New Jersey 08543-2053

Country: USA

**Telephone number:** 1 609 452-1128

**Telefax number:** 1 609 452-1602

**Release Date:** 1991

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:** US \$75

**Sale Price:** US \$149

**Rental Period:**

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard:

Video format:

Length (minutes): 28

Colour:

Tape width (inches):

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Geosciences

**Secondary Key Words:** Antarctic, General

**Title:** ANTARTIDA

**Brief Summary of Contents:** General description about the activities of the University of Mar del Plata scientist at the San Martin Peninsula. It involves geology, geomorphology, sedimentology. Mammal and bird descriptions.

**Language(s):** Spanish

**Intended User Level:** general, secondary school, undergraduate university

**Provider or Producer:** Name: Dr. Federico I. Isla

Organization: Universidad Nacional de Mar del Plata

Address: Centro de Geologia de Costas y del Cuaternario

Casilla de Correo 722 -Correo Central

7600 Mar del Plata

Country: Argentina

Telephone number: 54 23 72-7144

Telefax number: 54 23 728297

**Release Date:** 1991

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:**

**Rental Period:**

**Permission or License Required:** permission

**Hardware Specifications**

TV-video colour standard: PAL

Video format: VHS

Length (minutes): 38

Colour: yes

Tape width (inches):

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Geosciences

**Secondary Key Words:** Rift, Geodynamics

**Title:** Djibouti, Naissance D'un Ocean (Djibouti, Birth of an Ocean)

**Brief Summary of Contents:** Summary of ten years of studies and research carried out at the Arta Observatory (Republic of Djibouti) on the powerful geodynamism of the Assan Rift. Explains the volcano monitoring system and the processing of Argos PTT data. (Also available in film. See Form C.)

**Language(s):** French

**Intended User Level:** undergraduate university, advanced

**Provider or Producer:** Name: Centre National de la Recherche Scientifique

Organization: CNRS Audiovisual

Address: 1 Place Aristide Briand

92195 Meudon Cedex

Country: France

**Telephone number:** 33 45 34 75 50

**Telefax number:** 33 46 28 49

**Release Date:** 1985

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:** FF130/week

**Sale Price:** FF400

**Rental Period:**

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard:

Video format: Betacam

Length (minutes): 37

Colour: yes

Tape width (inches): 3/4

# **UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

## **B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Geosciences

**Secondary Key Words:** Hot Vents, Fauna

**Title:** Exploring Seafloor Hot Springs on the Juan De Fuca Ridge

**Brief Summary of Contents:** The video documents the research activities of the NOAA Vents Program along the Juan De Fuca Ridge 100 miles off the Oregon coast. The deep-diving submersible, *Alvin*, descends to a volcano half again as large as Mt. Hood. The exploration of seafloor hot springs is revolutionizing our understanding of the geology, chemistry, and biology of our ocean.

**Language(s):** English

**Intended User Level:** general

**Provider or Producer:** Name: Director  
Organization: Sea Grant Communications  
Address: Oregon State University  
Administrative Services A402  
Corvallis, Oregon 97331-2134  
Country: USA

**Telephone number:** 1 503 737-2716  
**Telefax number:** 1 503 737-2392

**Release Date:** not held by organization

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:** US \$5

**Sale Price:**

**Rental Period:** 1 month

**Permission or License Required:** contact Sea Grant Communications

### **Hardware Specifications**

TV-video colour standard:

Video format: VHS

Length (minutes): 10

Colour: yes

Tape width (inches): ½

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Geosciences

**Secondary Key Words:** Erosion, Coastal/Nearshore

**Title:** La Deteriorada Costa Galana (The Eroded Costa Galana)

**Brief Summary of Contents:** Survey of coastal erosion between Miramar and Mar Chiquite. Other coastal problems (sewage disposal, land reclamation, touristic impacts) at Mar del Plata are identified and benefits and problems caused by groin emplacements are shown.

**Language(s):** Spanish

**Intended User Level:** general, secondary school, undergraduate university, advanced

**Provider or Producer:** Name: Dr. Federico I. Isla

Organization: Centro de Geologia de Costas y del Cuaternario

Address: Universidad Nacional de Mar del Plata

Casilla de Correo 722 -Correo Central

7600 Mar del Plata

Country: Argentina

Telephone number: 54 23 72-7144

Telefax number: 54 23 728297

**Release Date:** 1990

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:**

**Rental Period:**

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard: PAL, PAL N, Pal B

Video format: VHS, U-matic lowband, Beta

Length (minutes):

Colour: yes

Tape width (inches):

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Geosciences

**Secondary Key Words:** Side-scan Sonar, Mapping

**Title:** Oceans of Wealth: Part 2 - The Last Frontier on Earth

**Brief Summary of Contents:** Looks at the two ways in which we are exploring the sea bed by side scan sonar mapping and by deep sea drilling.

**Language(s):** English

**Intended User Level:** undergraduate university, advanced

**Provider or Producer:** Name: Richard Bacon

Organization: Videotel Marine International Ltd.

Address: Ramillies House

1-2 Ramillies Street

London W1V 1DF

Country: UK

**Telephone number:** 44 71 439 6301

**Telefax number:** 44 71 437 0731

**Release Date:** 1990

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:** UK £300

**Rental Period:**

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard: NTSC, PAL, SECAM

Video format: VHS, Beta

Length (minutes): 26

Colour: yes

Tape width (inches):



**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Geosciences

**Secondary Key Words:** Technology, Biosciences

**Title:** The Ocean Floor

**Brief Summary of Contents:** Demonstrates how oceanographers gain a picture of the ocean floor. Modern submersibles, remotely operated vehicles using sonar ranging, computer imaging processing and remote sensing from satellites all combine to reveal underwater volcanoes and abyssal planes, as well as the ocean floor animals.

**Language(s):** English

**Intended User Level:** undergraduate university

**Provider or Producer: Name:** Director

**Organization:** Open University Educational Enterprises

**Address:** The Open University

12 Cofferridge Close

Stony Stratford

Milton Keynes, MK11 1BY

**Country:** UK

**Telephone number:** 908 261662

**Telefax number:**

**Release Date:** 1990

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:** UK £130

**Rental Period:**

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard: PAL

Video format: VHS

Length (minutes): 24

Colour:

Tape width (inches):

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Other—Biochemistry

**Secondary Key Words:** Fauna and Flora, Cancer

**Title:** Nature Contre Nature (Nature Versus Nature)

**Brief Summary of Contents:** Collecting, identifying and storing samples of rare plant and animal species are carried out by researchers in New Caledonia. The tropical and marine flora and fauna of this Pacific area, endowed with exceptional biological characteristics, are studied in the CCNRS laboratories (in Nouméa and Gif-sur-Yvette) and in ORSTOM's laboratory (in Nouméa) with a view to identifying, separating, and analysing the natural molecules that can be used in the treatment of cancerous tumors. (Also available in film. See Form C.)

**Language(s):** French

**Intended User Level:**

**Provider or Producer:** Name: Centre National de la Recherche Scientifique

Organization: CNRS Audiovisuel

Address: 1 Place Aristide Briand

92195 Meudon Cedex

Country: France

Telephone number: 33 45 34 75 50

Telefax number: 33 46 28 49

**Release Date:** 1988

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:** FF130/week

**Sale Price:** FF400

**Rental Period:**

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard:

Video format: VHS

Length (minutes): 38

Colour: yes

Tape width (inches): 3/4

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Other—Climate

**Secondary Key Words:** Sediments, Greenhouse Effect

**Title:** Oceans and Climates

**Brief Summary of Contents:** As the oceans respond to the global warming resulting from the Greenhouse Effect, oceanographers are studying ancient material from sea-beds which not only records past changes in marine temperature, but may also provide a key to predicting future climate changes.

**Language(s):** English

**Intended User Level:** undergraduate university

**Provider or Producer:** Name: Director

Organization: Open University Educational Enterprises

Address: The Open University

12 Cofferidge Close

Stony Stratford

Milton Keynes, MK11 1BY

Country: UK

**Telephone number:** 908 261662

**Telefax number:**

**Release Date:** 1990

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:** UK £130

**Rental Period:**

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard: PAL

Video format: VHS

Length (minutes): 24

Colour: yes

Tape width (inches):

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Other—Coastal Zone Management

**Secondary Key Words:** Fishing, Commercial

**Title:** Deckhand

**Brief Summary of Contents:** Video news magazine for Australian commercial fishing. Issues regarding technology, research and management. Produced three times a year.

**Language(s):** English

**Intended User Level:** general

**Provider or Producer:** Name: Commercial Fishermen

Organization: Great Barrier Reef Marine Park Authority

Address: P.O. Box 1379

Townsville, Queensland 4810

Country: Australia

Telephone number: 077 81 8811

Telefax number: 077 72 6093

**Release Date:** 1989

**Planned Future Release Date:** see summary

**ISBN Number:**

**Rental Price:**

**Sale Price:**

**Rental Period:**

**Permission or License Required:** on application

**Hardware Specifications**

TV-video colour standard: PAL

Video format: VHS

Length (minutes): 60

Colour: yes

Tape width (inches):

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Other—Coastal Zone Management

**Secondary Key Words:** Management, Coral Reefs

**Title:** Reef Report

**Brief Summary of Contents:** A video news magazine featuring conservation, science and management about Australia's Great Barrier Reef Marine park. Produced three times a year.

**Language(s):** English

**Intended User Level:**

**Provider or Producer:** Name: Craig Sambell

Organization: Great Barrier Reef Marine Park Authority

Address: P.O. Box 1379

Townsville, Queensland 4810

Country: Australia

Telephone number: 077 81 8811

Telefax number: 077 72 6093

**Release Date:** 1987

**Planned Future Release Date:** see summary

**ISBN Number:**

**Rental Price:**

**Sale Price:** Australian \$25

**Rental Period:**

**Permission or License Required:** on application

**Hardware Specifications**

TV-video colour standard: PAL

Video format: VHS

Length (minutes): 30

Colour: yes

Tape width (inches):

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Other—Law

**Secondary Key Words:** History, Hugo de Groot

**Title:** Oceans of Wealth: Part 1 - The Ocean Commons

**Brief Summary of Contents:** Looks at the evolution of Maritime Law, the writings of Hugo do Groot and the changes in science and society during the 18th and 19th centuries.

**Language(s):** English

**Intended User Level:** undergraduate, advanced

**Provider or Producer:** Name: Richard Bacon

Organization: Videotel Marine International Ltd.

Address: Ramillies House

1-2 Ramillies Street

London W1V 1DF

Country: UK

Telephone number: 44 71 439 6301

Telefax number: 44 71 437 0731

**Release Date:** 1990

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:** UK £300

**Rental Period:**

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard: NTSC, PAL, SECAM

Video format: VHS, Beta

Length (minutes): 26

Colour: yes

Tape width (inches):

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Other—Management

**Secondary Key Words:** Biology, Physical

**Title:** Jamaica and the Sea

**Brief Summary of Contents:** Filmed in Jamaica, just after its devastation by Hurricane Gilbert. Marine scientists at the University of the West Indies are studying the effects of natural disasters and human pollution on various ecosystems.

**Language(s):** English

**Intended User Level:** undergraduate university

**Provider or Producer:** Name: Director

Organization: Open University Educational Enterprises

Address: The Open University

12 Cofferridge Close

Stony Stratford

Milton Keynes, MK11 1BY

Country: UK

**Telephone number:** 908 261662

**Telefax number:**

**Release Date:** 1990

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:** UK £130

**Rental Period:**

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard: PAL

Video format: VHS

Length (minutes): 25

Colour: yes

Tape width (inches):

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Other--Marine Science

**Secondary Key Words:** Meteorology, Oceanography

**Title:** El Niño in Peru

**Brief Summary of Contents:** Description of El Niño phenomena and the effect of the 1982-83 event in Peru. Interviews with several specialists in meteorology, oceanography, ecology and biology. Also includes historical aspects of El Niño in Peru.

**Language(s):** Spanish, English

**Intended User Level:** undergraduate university

**Provider or Producer: Name:** Director

**Organization:** Marina de Guerra del Peru

**Address:** Direccion de Hidrografia y Navegacion

Gamarra 500

Chucuito, La Punta

Lima

**Country:** Peru

**Telephone number:** 51 14 299578, 51 14 298542

**Telefax number:** 51 14 638453, 51 14 641515

**Release Date:**

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:**

**Rental Period:**

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard:

Video format:

Length (minutes): 52

Colour:

Tape width (inches): 3/4



**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Other—Oceanography

**Secondary Key Words:** Deep Waters, Rockall Trough

**Title:** Rockall

**Brief Summary of Contents:** A case study of the deep waters around the Rockall Trough exemplifies the inter-disciplinary nature of oceanography. Different techniques of measuring physical, chemical and biological properties are shown. The recent discovery of seasonality among deep-water organisms is illustrated by unique footage of the seasonal arrival of "fluff."

**Language(s):** English

**Intended User Level:** undergraduate university

**Provider or Producer:** Name: Director

Organization: Open University Educational Enterprises

Address: The Open University

12 Cofferridge Close

Stony Stratford

Milton Keynes, MK11 1BY

Country: UK

**Telephone number:** 908 261662

**Telefax number:**

**Release Date:** 1990

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:** UK £130

**Rental Period:**

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard: PAL

Video format: VHS

Length (minutes): 25

Colour: yes

Tape width (inches):

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Other — Policies

**Secondary Key Words:** Decision Making, Chesapeake Bay

**Title:** A Question of Balance

**Brief Summary of Contents:** Examines the application of multiple use policies in the Chesapeake Bay. For use alone or with *Decision Making; The Chesapeake Bay*.

**Language(s):** English

**Intended User Level:** undergraduate university, advanced

**Provider or Producer:** Name: Sea Grant College Program

Organization: University of Maryland

Address: 1224 H.J. Patterson Hall

College Park, Maryland 20742

Country: USA

**Telephone number:**

**Telefax number:**

**Release Date:** 1985

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:** US \$30

**Rental Period:**

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard:

Video format: VHS videocassette

Length (minutes): 25

Colour:

Tape width (inches):

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Other—Pollution

**Secondary Key Words:** Toxic Compounds, North Sea

**Title:** North Sea - A Dying Environment

**Brief Summary of Contents:** Pollutants, that cannot be easily broken down into less harmful substances, are being released into the North Sea. The film voices the concerns of Dutch scientists and fishermen because at risk is one of the world's foremost fishing grounds.

**Language(s):** English, Dutch

**Intended User Level:** undergraduate university, advanced

**Provider or Producer:** Name: Jon Kraan

Organization: NCRV Television

Address: Schuttersweg 8

Hilversum

Country: The Netherlands

**Telephone number:** 31 35 719322

**Telefax number:**

**Release Date:** 1982

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:**

**Rental Period:**

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard:

Video format: VHS, U-matic

Length (minutes): 57

Colour:

Tape width (inches):

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Other—Pollution

**Secondary Key Words:** Modelling, Pollutant Transport

**Title:** North Sea Pollution

**Brief Summary of Contents:** Description of modelling of pollution of the North Sea (input, hydrodynamics, transport, water quality, ecology) with special emphasis on flows, spills, toxic substances and eutrophication.

**Language(s):** English

**Intended User Level:** Undergraduate university

**Provider or Producer:** Name: J.A.G. van Gils

Organization: Delft Hydraulics

Address: Rotterdamseweg 185

2629 HD Delft

Country: The Netherlands

**Telephone number:** 31 15 569 353

**Telefax number:** 31 15 619 674

**Release Date:**

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:** real costs

**Rental Period:**

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard: PAL

Video format: VHS

Length (minutes): 15

Colour: yes

Tape width (inches):

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Other—Pollution

**Secondary Key Words:** Biology, Coastal Zone

**Title:** Préserver la Mer

**Brief Summary of Contents:** Activities carried out both on board CERBOM's research vessels and laboratories to detect pollution and check the health quality of marine products: plankton, fishing, collecting water and sea-bottom samples for bacteriological and chemical content, techniques for laboratory measurements and data interpretation.

**Language(s):** French

**Intended User Level:** general, secondary school, undergraduate university

**Provider or Producer:** Name: M. Aubert

Organization: Centre d'Etude et de Recherche de Biologie et d'Océanographie Médicale

Address: 1, avenue Jean-Lorrain  
06300 Nice

Country: France

Telephone number: 93.89.72.49

Telefax number:

**Release Date:** 1988

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:** FF300

**Rental Period:**

**Permission or License Required:** CRDP de Nice

**Hardware Specifications**

TV-video colour standard: PAL, SECAM

Video format: Linatic, VHS, U-matic lowband

Length (minutes): 28

Colour: yes

Tape width (inches): ½, ¾

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Other—Pollution

**Secondary Key Words:** Toxic Compounds, Baltic Sea

**Title:** The Baltic Sea

**Brief Summary of Contents:** Focuses attention on the vulnerability of enclosed seas. Its message is that countries sharing the Baltic Sea should agree on a common programme of pollution control. (Also available in film. See Form C.)

**Language(s):** English, Swedish, Danish

**Intended User Level:** undergraduate university

**Provider or Producer: Name:** Bo Landin

**Organization:** Scandinatime Films

**Address:** P.O. Box 558

S 65169 Karlstad

**Country:** Sweden

**Telephone number:** 46 5410 0215

**Telefax number:** 46 5410 3303

**Release Date:** 1986

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:**

**Rental Period:**

**Permission or License Required:**

**Hardware Specifications**

**TV-video colour standard:**

**Video format:** all formats

**Length (minutes):** 59

**Colour:**

**Tape width (inches):**

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Other—Resources

**Secondary Key Words:** Resources, Oceans

**Title:** Oceans of Wealth: Part 6 - Resources of the Sea

**Brief Summary of Contents:** Studio based programme puts questions concerning food, minerals and energy of the oceans to three panelists.

**Language(s):** English

**Intended User Level:** undergraduate university, advanced

**Provider or Producer:** Name: Richard Bacon

Organization: Videotel Marine International Ltd.

Address: Ramillies House

1-2 Ramillies Street

London W1V 1DF

Country: UK

Telephone number: 44 71 439 6301

Telefax number: 44 71 437 0731

**Release Date:** 1990

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:** UK £300

**Rental Period:**

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard: NTSC, PAL, SECAM

Video format: VHS, Beta

Length (minutes): 26

Colour: yes

Tape width (inches):

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Physics

**Secondary Key Words:** Currents, Deep Ocean

**Title:** Currents

**Brief Summary of Contents:** Currents in the deep oceans influence on weather in complex ways. archival film of early water mass investigations in the research vessel *Discovery* is followed by a description of the classic MODE project.

**Language(s):** English

**Intended User Level:** undergraduate university, advanced

**Provider or Producer:** Name: Richard Bacon

Organization: Videotel Marine International Ltd.

Address: Ramillies House

1-2 Ramillies Street

London W1V 1DF

Country: UK

**Telephone number:** 44 71 439 6301

**Telefax number:** 44 71 437 0731

**Release Date:** 1990

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:** UK £300

**Rental Period:**

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard: NTSC, PAL, SECAM

Video format: VHS, Beta

Length (minutes): 25

Colour: yes

Tape width (inches):



# UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY

## B. VIDEO-BASED LEARNING MATERIALS

**Key Word:** Physics

**Secondary Key Words:** Currents, Deep Ocean

**Title:** Currents

**Brief Summary of Contents:** The currents in the deep oceans influence our weather in complex ways. Archival film of early water mass investigations in the research vessel *Discovery* is followed by a description of the classic MODE project. Oceanographers now use satellites and drifting buoys to measure and plot the movement of currents, and may soon be able to use this information to forecast the weather within and above the oceans.

**Language(s):** English

**Intended User Level:** undergraduate university

**Provider or Producer:** Name: Director

Organization: Open University Educational Enterprises

Address: The Open University

12 Cofferridge Close

Stony Stratford

Milton Keynes, MK11 1BY

Country: UK

**Telephone number:** 908 261662

**Telefax number:**

**Release Date:** 1990

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:** UK £130

**Rental Period:**

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard: PAL

Video format: VHS

Length (minutes): 25

Colour: yes

Tape width (inches):

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Physics

**Secondary Key Words:** Chemical, Sea Level

**Title:** Global Sea Levels

**Brief Summary of Contents:** This video shows how oceanographers measure the rise and fall of sea levels by looking at fluxes of carbon to the deep sea, and by direct monitoring of sea level changes with tidal gauges, bottom pressure recorders and satellite altimetry. This information may show whether the Greenhouse Effect is causing sea levels to rise more rapidly.

**Language(s):** English

**Intended User Level:** undergraduate university

**Provider or Producer:** Name: Director

Organization: Open University Educational Enterprises

Address: The Open University

12 Cofferridge Close

Stony Stratford

Milton Keynes, MK11 1BY

Country: UK

**Telephone number:** 908 261662

**Telefax number:**

**Release Date:** 1990

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:** UK £130

**Rental Period:**

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard: PAL

Video format: VHS

Length (minutes): 25

Colour: yes

Tape width (inches):

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Physics

**Secondary Key Words:** OTEC, Energy Conversion

**Title:** Oceans of Wealth: Part 4 - Making Waves and Pipe Dreams

**Brief Summary of Contents:** This programme examines whether the energy of the oceans, renewable and apparently limitless could be harnessed. Describes wave power and ocean thermal energy conversion.

**Language(s):** English

**Intended User Level:** undergraduate university, advanced

**Provider or Producer:** Name: Richard Bacon

Organization: Videotel Marine International Ltd.

Address: Ramillies House

1-2 Ramillies Street

London W1V 1DF

Country: UK

**Telephone number:** 44 71 439 6301

**Telefax number:** 44 71 437 0731

**Release Date:** 1990

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:** UK £300

**Rental Period:**

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard: NTSC, PAL, SECAM

Video format: VHS, Beta

Length (minutes): 26

Colour: yes

Tape width (inches):

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Physics

**Secondary Key Words:** Polar, Biology

**Title:** Polar Oceans

**Brief Summary of Contents:** Shows how oceanography in the polar regions can contribute valuable information towards environmental management. Archival film of Scott's and Shackleton's expeditions precedes a study of modern research work on the vessel *Polarstern* and on ice station "O." Cold water masses at the poles influence world climate, and the video considers how the Greenhouse Effect may alter the economic and strategic role of the polar oceans.

**Language(s):** English

**Intended User Level:** undergraduate university

**Provider or Producer:** Name: Director

Organization: Open University Educational Enterprises

Address: The Open University

12 Cofferidge Close

Stony Stratford

Milton Keynes, MK11 1BY

Country: UK

**Telephone number:** 908 261662

**Telefax number:**

**Release Date:** 1990

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:** UK £130

**Rental Period:**

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard: PAL

Video format: VHS

Length (minutes): 25

Colour: yes

Tape width (inches):

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Physics

**Secondary Key Words:** Generation, Propagation

**Title:** Tsunamis in Peru

**Brief Summary of Contents:** Description of the generation and propagation of Tsunamis. Historical tsunamis that have occurred in Peru and the safety rules for population in case of a tsunami warning are described.

**Language(s):** Spanish

**Intended User Level:** undergraduate university

**Provider or Producer: Name:** Director

**Organization:** Marina de Guerra del Peru

**Address:** Direccion de Hidrografia y Navegacion

Gamarra 500

Chucuito, La Punta

Lima

**Country:** Peru

**Telephone number:** 51 14 299578, 51 14 298542

**Telefax number:** 51 14 638453, 51 14 641515

**Release Date:**

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:**

**Rental Period:**

**Permission or License Required:**

**Hardware Specifications**

**TV-video colour standard:**

**Video format:**

**Length (minutes):** 34

**Colour:**

**Tape width (inches):** 3/4

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Physics

**Secondary Key Words:** Sediments, Waves

**Title:** Waves

**Brief Summary of Contents:** This covers two separate oceanographic case studies. In the classic experiment "Waves Across the Pacific," waves were tracked from Antarctica right up to Alaska. On Britain's East Anglian coast, waves of sediment-laden water, moved by storm surges and tidal currents, create and destroy beaches.

**Language(s):** English

**Intended User Level:** undergraduate university

**Provider or Producer: Name:** Director

**Organization:** Open University Educational Enterprises

**Address:** The Open University

12 Cofferridge Close

Stony Stratford

Milton Keynes, MK11 1BY

**Country:** UK

**Telephone number:** 908 261662

**Telefax number:**

**Release Date:** 1990

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:** UK £130

**Rental Period:**

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard: PAL

Video format: VHS

Length (minutes): 25

Colour: yes

Tape width (inches):

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Physics

**Secondary Key Words:** Sediments, Waves

**Title:** Waves

**Brief Summary of Contents:** This covers two separate oceanographic case studies. In the classic experiment "Waves Across the Pacific," waves were tracked from Antarctica right up to Alaska. On Britain's East Anglian coast, waves of sediment-laden water, moved by storm surges and tidal currents, create and destroy beaches.

**Language(s):** English

**Intended User Level:** undergraduate university

**Provider or Producer:** Name: Richard Bacon

Organization: Videotel Marine International Ltd.

Address: Ramillies House

1-2 Ramillies Street

London W1V 1DF

Country: UK

Telephone number: 44 71 439 6301

Telefax number: 44 71 437 0731

**Release Date:** 1990

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:**

**Rental Period:**

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard: All

Video format: VHS, Beta

Length (minutes): 25

Colour: yes

Tape width (inches):

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Technology

**Secondary Key Words:** Law, Ships

**Title:** A Naval Architect's Introduction to Admiralty Law I

**Brief Summary of Contents:** Includes hierarchy and sources of laws, questions of jurisdiction, and such key provisions as: liens, vessel damages, insurance, limitation of liability, personal injuries, cargo damage.

**Language(s):** English

**Intended User Level:** undergraduate university

**Provider or Producer:** Name: Dr. Dwight W. Stevenson

Organization: Michigan Engineering Television Network

Address: The University of Michigan

1020 H.H. Dow Building

Ann Arbor, Michigan 48109-2136

Country: USA

Telephone number: 1 313 763-1233

Telefax number: 1 313 936-3492

**Release Date:** 1985

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:** US \$135

**Sale Price:** US \$265

**Rental Period:** 2 weeks

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard:

Video format: 3/4" U-matic, 1/2" Beta I, 1/2" VHS

Length (minutes): 52

Colour: yes

Tape width (inches):



**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Technology

**Secondary Key Words:** Law, Ships

**Title:** A Naval Architect's Introduction to Admiralty Law II

**Brief Summary of Contents:** Reviews principles of law. Includes an illustrative case study: a web of conflicting interests, technical and legal aspects of limitations of liability and interrelationship of various suits arising from a single disaster.

**Language(s):** English

**Intended User Level:** undergraduate university

**Provider or Producer:** Name: Dr. Dwight W. Stevenson

Organization: Michigan Engineering Television Network

Address: The University of Michigan

1020 H.H. Dow Building

Ann Arbor, Michigan 48109-2136

Country: USA

Telephone number: 1 313 763-1233

Telefax number: 1 313 936-3492

**Release Date:** 1985

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:** US \$135

**Sale Price:** US \$265

**Rental Period:** 2 weeks

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard:

Video format: 3/4" U-matic, 1/2" Beta I, 1/2" VHS

Length (minutes): 55

Colour: yes

Tape width (inches):

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Technology

**Secondary Key Words:** Shipbuilding, Design

**Title:** Accommodation Design

**Brief Summary of Contents:** Discusses the integration of technical, economic and social/psychological components for a successful accommodation design.

**Language(s):** English

**Intended User Level:** undergraduate university

**Provider or Producer:** Name: Dr. Dwight W. Stevenson  
Organization: Michigan Engineering Television Network  
Address: The University of Michigan  
1020 H.H. Dow Building  
Ann Arbor, Michigan 48109-2136  
Country: USA

**Telephone number:** 1 313 763-1233  
**Telefax number:** 1 313 936-3492

**Release Date:** 1985

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:** US \$135

**Sale Price:** US \$265

**Rental Period:** 2 weeks

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard:

Video format: 3/4" U-matic, 1/2" Beta I, 1/2" VHS

Length (minutes): 47

Colour: yes

Tape width (inches):

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Technology

**Secondary Key Words:** Safety, Oil Production

**Title:** An Introduction to Offshore Safety

**Brief Summary of Contents:** This film provides an introduction to the offshore environment stressing the need for safety. Deals with muster stations and lifeboat drills, permits to work, importance of good housekeeping, wearing and using the correct protective equipment.

**Language(s):** English

**Intended User Level:** undergraduate university, advanced

**Provider or Producer: Name:** Richard Bacon

**Organization:** Videotel Marine International Ltd.

**Address:** Ramillies House

1-2 Ramillies Street

London W1V 1DF

**Country:** UK

**Telephone number:** 44 71 439 6301

**Telefax number:** 44 71 437 0731

**Release Date:**

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:** variable

**Sale Price:** UK £365

**Rental Period:**

**Permission or License Required:** yes

**Hardware Specifications**

TV-video colour standard: NTSC, PAL, SECAM

Video format: VHS, Beta

Length (minutes): 22

Colour: yes

Tape width (inches):

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Technology

**Secondary Key Words:** Shipbuilding, Design

**Title:** Cargo Handling and Access, Mooring Systems

**Brief Summary of Contents:** Talks about designing ships for efficient cargo handling. Includes mooring requirements and associated equipment.

**Language(s):** English

**Intended User Level:** undergraduate university

**Provider or Producer:** Name: Dr. Dwight W. Stevenson

Organization: Michigan Engineering Television Network

Address: The University of Michigan

1020 H.H. Dow Building

Ann Arbor, Michigan 48109-2136

Country: USA

Telephone number: 1 313 763-1233

Telefax number: 1 313 936-3492

**Release Date:** 1987

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:** US \$135

**Sale Price:** US \$265

**Rental Period:** 2 weeks

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard:

Video format: 3/4" U-matic, 1/2" Beta I, 1/2" VHS

Length (minutes): 46

Colour: yes

Tape width (inches):

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Technology

**Secondary Key Words:** Shipbuilding, Engines

**Title:** Characteristics of the Major Marine Propulsion Engines

**Brief Summary of Contents:** The characteristics of the low-speed diesel, medium-speed diesel, steam turbine, and gas turbine engines are judged against the requirements outlined in another video.

**Language(s):** English

**Intended User Level:** undergraduate university

**Provider or Producer:** Name: Dr. Dwight W. Stevenson

Organization: Michigan Engineering Television Network

Address: The University of Michigan

1020 H.H. Dow Building

Ann Arbor, Michigan 48109-2136

Country: USA

Telephone number: 1 313 763-1233

Telefax number: 1 313 936-3492

**Release Date:** 1988

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:** US \$135

**Sale Price:** US \$265

**Rental Period:** 2 weeks

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard:

Video format: 3/4" U-matic, 1/2" Beta I, 1/2" VHS

Length (minutes): 50

Colour: yes

Tape width (inches):

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Technology

**Secondary Key Words:** Shipbuilding, Engines

**Title:** Characteristics Required of the Marine Propulsion Engine

**Brief Summary of Contents:** Torque, speed, and power requirements of the propeller. Demands of the marine load profile. Economic factors. The marine environment.

**Language(s):** English

**Intended User Level:** undergraduate university

**Provider or Producer:** Name: Dr. Dwight W. Stevenson

Organization: Michigan Engineering Television Network

Address: The University of Michigan

1020 H.H. Dow Building

Ann Arbor, Michigan 48109-2136

Country: USA

**Telephone number:** 1 313 763-1233

**Telefax number:** 1 313 936-3492

**Release Date:** 1988

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:** US \$135

**Sale Price:** US \$265

**Rental Period:** 2 weeks

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard:

Video format: 3/4" U-matic, 1/2" Beta I, 1/2" VHS

Length (minutes): 48

Colour: yes

Tape width (inches):

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Technology

**Secondary Key Words:** Commerce, Ships

**Title:** Chartering Arrangements

**Brief Summary of Contents:** Kinds of charter parties and their applicability, divisions of costs, brokers, agents and the Baltic Exchange; Worldscale rates.

**Language(s):** English

**Intended User Level:** undergraduate university

**Provider or Producer: Name:** Dr. Dwight W. Stevenson

**Organization:** Michigan Engineering Television Network

**Address:** The University of Michigan

1020 H.H. Dow Building

Ann Arbor, Michigan 48109-2136

**Country:** USA

**Telephone number:** 1 313 763-1233

**Telefax number:** 1 313 936-3492

**Release Date:** 1985

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:** US \$135

**Sale Price:** US \$265

**Rental Period:** 2 weeks

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard:

Video format: 3/4" U-matic, 1/2" Beta I, 1/2" VHS

Length (minutes): 30

Colour: yes

Tape width (inches):

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Technology

**Secondary Key Words:** Offshore, Diving

**Title:** Decompression Illness - Part 1

**Brief Summary of Contents:** Draws attention to the potential seriousness of decompression illness. Anyone subjected to increased barometric pressure is at risk even with proper procedures, decompression illness can occur. Describes Type I and Type II decompression sickness.

**Language(s):** English

**Intended User Level:** undergraduate university, advanced

**Provider or Producer:** Name: Richard Bacon

Organization: Videotel Marine International Ltd.

Address: Ramillies House

1-2 Ramillies Street

London W1V 1DF

Country: UK

**Telephone number:** 44 71 439 6301

**Telefax number:** 44 71 437 0731

**Release Date:**

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:** variable

**Sale Price:** UK £375

**Rental Period:**

**Permission or License Required:** yes

**Hardware Specifications**

TV-video colour standard: NTSC, PAL, SECAM

Video format: VHS, Beta

Length (minutes): 20

Colour: yes

Tape width (inches):



**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Technology

**Secondary Key Words:** Offshore, Diving

**Title:** Decompression Illness - Part 2

**Brief Summary of Contents:** Follows from Part 1. Looks at the detailed effects of decompression illness on the body. Most of the film is devoted to neurological examinations. The importance of immediate treatment is stressed.

**Language(s):** English

**Intended User Level:** undergraduate university, advanced

**Provider or Producer:** Name: Richard Bacon

Organization: Videotel Marine International Ltd.

Address: Ramillies House

1-2 Ramillies Street

London W1V 1DF

Country: UK

Telephone number: 44 71 439 6301

Telefax number: 44 71 437 0731

**Release Date:**

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:** variable

**Sale Price:** UK £375

**Rental Period:**

**Permission or License Required:** yes

**Hardware Specifications**

TV-video colour standard: All

Video format: All

Length (minutes): 20

Colour: yes

Tape width (inches):

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Technology

**Secondary Key Words:** Underwater, Welding

**Title:** Deepwater Hyperbaric Welding

**Brief Summary of Contents:** Shows welding techniques for repairing pipes and structures in very deep water. follows divers on tests carried out in one of Norway's deepest fjords.

**Language(s):** English

**Intended User Level:** undergraduate university, advanced

**Provider or Producer: Name:** Richard Bacon

**Organization:** Videotel Marine International Ltd.

**Address:** Ramillies House

1-2 Ramillies Street

London W1V 1DF

**Country:** UK

**Telephone number:** 44 71 439 6301

**Telefax number:** 44 71 437 0731

**Release Date:**

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:** variable

**Sale Price:** UK £430

**Rental Period:**

**Permission or License Required:** yes

**Hardware Specifications**

TV-video colour standard: NTSC, PAL, SECAM

Video format: VHS, Beta

Length (minutes): 29

Colour: yes

Tape width (inches):

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Technology

**Secondary Key Words:** Shipbuilding, Labour Costs

**Title:** Designing Ships for Easy Construction I

**Brief Summary of Contents:** The importance of reducing labor costs in high wage nations; the role of shipyard policy and strategy for increasing labor productivity; and what the engineer can do at various stages of design are shown.

**Language(s):** English

**Intended User Level:** undergraduate university

**Provider or Producer: Name:** Dr. Dwight W. Stevenson

**Organization:** Michigan Engineering Television Network

**Address:** The University of Michigan

1020 H.H. Dow Building

Ann Arbor, Michigan 48109-2136

**Country:** USA

**Telephone number:** 1 313 763-1233

**Telefax number:** 1 313 936-3492

**Release Date:** 1985

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:** US \$135

**Sale Price:** US \$265

**Rental Period:** 2 weeks

**Permission or License Required:**

**Hardware Specifications**

**TV-video colour standard:**

**Video format:** 3/4 U-matic, 1/2 Beta I, 1/2 VHS

**Length (minutes):** 50

**Colour:** yes

**Tape width (inches):**

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Technology

**Secondary Key Words:** Shipbuilding, Design

**Title:** Designing Ships for Easy Construction II

**Brief Summary of Contents:** The video includes selecting design details for increased productivity, transforming systems-oriented designs into production-oriented designs, standard frame spacing, producing tailor-made ships by mass production methods, the role of the production engineer, radical shipbuilding techniques, and a look to the future.

**Language(s):** English

**Intended User Level:** undergraduate university

**Provider or Producer:** Name: Dr. Dwight W. Stevenson

Organization: Michigan Engineering Television Network

Address: The University of Michigan

1020 H.H. Dow Building

Ann Arbor, Michigan 48109-2136

Country: USA

Telephone number: 1 313 763-1233

Telefax number: 1 313 936-3492

**Release Date:** 1985

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:** US \$135

**Sale Price:** US \$265

**Rental Period:** 2 weeks

**Permission or license Required:**

**Hardware Specifications**

TV-video colour standard:

Video format: 3/4" U-matic, 1/2" Beta I, 1/2" VHS

Length (minutes): 47

Colour: yes

Tape width (inches):

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Technology

**Secondary Key Words:** Petroleum Production, Hydrogen Sulphide

**Title:** Detection H<sub>2</sub>S

**Brief Summary of Contents:** Professor Swampheart demonstrates to a class of petroleum workers the smart way to stay alive while dealing with hydrogen sulphide wherever it may be found

**Language(s):** English

**Intended User Level:** undergraduate university, advanced

**Provider or Producer:** Name: Richard Bacon

Organization: Videotel Marine International Ltd.

Address: Ramillies House

1-2 Ramillies Street

London W1V 1DF

Country: UK

**Telephone number:** 44 71 439 6301

**Telefax number:** 44 71 437 0731

**Release Date:**

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:** variable

**Sale Price:** UK £325

**Rental Period:**

**Permission or License Required:** yes

**Hardware Specifications**

TV-video colour standard: NTSC, PAL, SECAM

Video format: VHS, Beta

Length (minutes): 11

Colour: yes

Tape width (inches):

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Technology

**Secondary Key Words:** Collecting Samples, Nets

**Title:** Engins de Prélèvements Océanographiques, 1ère partie (Oceanographic Sampling Equipment, Part 1)

**Brief Summary of Contents:** On board CNRS RVs, demonstration of typical benthic and planktonic sampling equipment: plankton nets, pelagic nets, dragnets, dredge-buckets, core samplers, pump dredgers. The sampling exercises are completed by a detailed description of technical characteristics and methods of operation of the equipment. (Also available in film. See Form C.)

**Language(s):** French

**Intended User Level:**

**Provider or Producer:** Name: Centre National de la Recherche Scientifique

Organization: CNRS Audiovisuel

Address: 1 Place Aristide Briand

92195 Meudon Cedex

Country: France

Telephone number: 33 45 34 75 50

Telefax number: 33 46 28 49

**Release Date:** 1987

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:** FF130/week

**Sale Price:** FF400

**Rental Period:**

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard:

Video format: VHS

Length (minutes): 37

Colour: yes

Tape width (inches): 3/4

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Technology

**Secondary Key Words:** Shipbuilding, Weights

**Title:** Estimating Weights

**Brief Summary of Contents:** Practical techniques for estimating weights of ships at various stages of design or construction, weight breakdowns, scrap ratios and sources of data are presented.

**Language(s):** English

**Intended User Level:** undergraduate university

**Provider or Producer:** Name: Dr. Dwight W. Stevenson

Organization: Michigan Engineering Television Network

Address: The University of Michigan

1020 H.H. Dow Building

Ann Arbor, Michigan 48109-2136

Country: USA

**Telephone number:** 1 313 763-1233

**Telefax number:** 1 313 936-3492

**Release Date:** 1985

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:** US \$135

**Sale Price:** US \$265

**Rental Period:** 2 weeks

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard: NTSC 3.58

Video format: 3/4" U-matic, 1/2" Beta I, 1/2" VHS

Length (minutes): 35

Colour:

Tape width (inches):

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Technology

**Secondary Key Words:** Pollution, Ships' Personnel

**Title:** Fighting Pollution

**Brief Summary of Contents:** Designed to inform and motivate ships personnel on all aspects of prevention at sea. Video points out the effects of pollution are cumulative and are often caused by individual and crew who lack awareness.

**Language(s):** English

**Intended User Level:**

**Provider or Producer:** Name: Richard Bacon

Organization: Videotel Marine International Ltd.

Address: Ramillies House

1-2 Ramillies Street

London W1V 1DF

Country: UK

Telephone number: 44 71 439 6301

Telefax number: 44 71 437 0731

**Release Date:** 1991

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:** UK £330

**Rental Period:**

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard: NTSC, PAL, SECAM

Video format: VHS, Beta

Length (minutes): 25

Colour: yes

Tape width (inches):



**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Technology

**Secondary Key Words:** Shipbuilding, Load Limits

**Title:** Freeboard and Load Line Regulations I

**Brief Summary of Contents:** Presents advantages and disadvantages of large freeboard, brief history of load line regulations, considerations in assigning freeboard, division of responsibility current regulations and reasons behind them, the load line mark.

**Language(s):** English

**Intended User Level:** undergraduate university

**Provider or Producer: Name:** Dr. Dwight W. Stevenson

**Organization:** Michigan Engineering Television Network

**Address:** The University of Michigan

1020 H.H. Dow Building

Ann Arbor, Michigan 48109-2136

**Country:** USA

**Telephone number:** 1 313 763-1233

**Telefax number:** 1 313 936-3492

**Release Date:** 1985

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:** US \$135

**Sale Price:** US \$265

**Rental Period:** 2 weeks

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard:

Video format: 3/4" U-matic, 1/2" Beta I, 1/2" VHS

Length (minutes): 52

Colour: yes

Tape width (inches):

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Technology

**Secondary Key Words:** Shipbuilding, Load Limits

**Title:** Freeboard and Load Line Regulations II

**Brief Summary of Contents:** Further explanations of current regulation are presented. A worked out numerical example in illustration of the rules is shown.

**Language(s):** English

**Intended User Level:** undergraduate university

**Provider or Producer:** Name: Dr. Dwight W. Stevenson

Organization: Michigan Engineering Television Network

Address: The University of Michigan

1020 H.H. Dow Building

Ann Arbor, Michigan 48109-2136

Country: USA

**Telephone number:** 1 313 763-1233

**Telefax number:** 1 313 936-3492

**Release Date:** 1985

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:** US \$135

**Sale Price:** US \$265

**Rental Period:** 2 weeks

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard:

Video format: 3/4" U-matic, 1/2" Beta I, 1/2" VHS

Length (minutes): 43

Colour: yes

Tape width (inches):

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Technology

**Secondary Key Words:** Shipbuilding, Design

**Title:** General Arrangements of Ships

**Brief Summary of Contents:** Gives practical advice on blocking out general arrangements, and analysis of a wide range of modern designs.

**Language(s):** English

**Intended User Level:** undergraduate university

**Provider or Producer:** Name: Dr. Dwight W. Stevenson

Organization: Michigan Engineering Television Network

Address: The University of Michigan

1020 H.H. Dow Building

Ann Arbor, Michigan 48109-2136

Country: USA

**Telephone number:** 1 313 763-1233

**Telefax number:** 1 313 936-3492

**Release Date:** 1985

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:** US \$135

**Sale Price:** US \$265

**Rental Period:** 2 weeks

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard:

Video format: 3/4" U-matic, 1/2" Beta I, 1/2" VHS

Length (minutes): 50

Colour: yes

Tape width (inches):

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Technology

**Secondary Key Words:** Safety, Work Permits

**Title:** Harry's Hot Permit

**Brief Summary of Contents:** Harry, a producer contracted to make a film on unsafe work habits, oversteps the conditions of his hot work permit. Harry is characterized as an obnoxious fast-buck artist, greedy, arrogant and conceited, with no respect for human well-being.

**Language(s):** English

**Intended User Level:** undergraduate university, advanced

**Provider or Producer:** Name: Richard Bacon

Organization: Videotel Marine International Ltd.

Address: Ramillies House

1-2 Ramillies Street

London W1V 1DF

Country: UK

**Telephone number:** 44 71 439 6301

**Telefax number:** 44 71 437 0731

**Release Date:**

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:** variable

**Sale Price:** UK £320

**Rental Period:**

**Permission or License Required:** yes

**Hardware Specifications**

TV-video colour standard: NTSC, PAL, SECAM

Video format: VHS. Beta

Length (minutes): 10

Colour: yes

Tape width (inches):

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Technology

**Secondary Key Words:** Shipbuilding, Design

**Title:** Hull Form Dimensions and Coefficients I

**Brief Summary of Contents:** Deals with basic terms that define a ship's major dimensions and hull form characteristics. These include sectional area curves, Bonjean curves, and the block coefficient.

**Language(s):** English

**Intended User Level:** undergraduate university

**Provider or Producer: Name:** Dr. Dwight W. Stevenson

**Organization:** Michigan Engineering Television Network

**Address:** The University of Michigan

1020 H.H. Dow Building

Ann Arbor, Michigan 48109-2136

**Country:** USA

**Telephone number:** 1 313 763-1233

**Telefax number:** 1 313 936-3492

**Release Date:** 1986

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:** US \$135

**Sale Price:** US \$265

**Rental Period:** 2 weeks

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard:

Video format: 3/4" U-matic, 1/2" Beta I, 1/2" VHS

Length (minutes): 46

Colour: yes

Tape width (inches):

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Technology

**Secondary Key Words:** Shipbuilding, Design

**Title:** Hull Form Dimensions and Coefficients II

**Brief Summary of Contents:** The hull form coefficients and how they are applied to ship design are discussed. Included are Froude Number and speed length ration, curves of form and wetted surface.

**Language(s):** English

**Intended User Level:** undergraduate university

**Provider or Producer:** Name: Dr. Dwight W. Stevenson

Organization: Michigan Engineering Television Network

Address: The University of Michigan

1020 H.H. Dow Building

Ann Arbor, Michigan 48109-2136

Country: USA

Telephone number: 1 313 763-1233

Telefax number: 1 313 936-3492

**Release Date:** 1986

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:** US \$135

**Sale Price:** US \$265

**Rental Period:** 2 weeks

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard:

Video format: 3/4" U-matic, 1/2" Beta I, 1/2" VHS

Length (minutes): 48

Colour: yes

Tape width (inches):

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Technology

**Secondary Key Words:** Ships, Insurance

**Title:** Marine Insurance

**Brief Summary of Contents:** Protection afforded by various kinds of insurance policies. What is to be found in the fine print. The need for reform.

**Language(s):** English

**Intended User Level:** undergraduate university

**Provider or Producer: Name:** Dr. Dwight W. Stevenson

**Organization:** Michigan Engineering Television Network

**Address:** The University of Michigan

1020 H.H. Dow Building

Ann Arbor, Michigan 48109-2136

**Country:** USA

**Telephone number:** 1 313 763-1233

**Telefax number:** 1 313 936-3492

**Release Date:** 1987

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:** US \$135

**Sale Price:** US \$265

**Rental Period:** 2 weeks

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard:

Video format: 3/4" U-matic, 1/2" Beta I, 1/2" VHS

Length (minutes): 42

Colour: yes

Tape width (inches):

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Technology

**Secondary Key Words:** Shipbuilding, Systems

**Title:** Off-design Analysis of Marine Engineering Systems

**Brief Summary of Contents:** Behavior of systems and their components when operating under part-load conditions; the influence of disparate characteristics; and the influence of fixed design characteristics as illustrated by analysis of heat-exchange systems at reduced load are analyzed.

**Language(s):** English

**Intended User Level:** undergraduate university

**Provider or Producer:** Name: Dr. Dwight W. Stevenson

Organization: Michigan Engineering Television Network

Address: The University of Michigan

1020 H.H. Dow Building

Ann Arbor, Michigan 48109-2136

Country: USA

Telephone number: 1 313 763-1233

Telefax number: 1 313 936-3492

**Release Date:** 1988

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:** US \$135

**Sale Price:** US \$265

**Rental Period:** 2 weeks

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard:

Video format: 3/4" U-matic, 1/2" Beta I, 1/2" VHS

Length (minutes): 40

Colour: yes

Tape width (inches):



**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Technology

**Secondary Key Words:** Safety, Offshore

**Title:** Offshore Rescue

**Brief Summary of Contents:** Details the procedures for abandonment of an offshore oil installation. Begins with sounding of general alarm, gathering at muster point, evacuation by lifeboat.

**Language(s):** English

**Intended User Level:** undergraduate university, advanced

**Provider or Producer:** Name: Richard Bacon

Organization: Videotel Marine International Ltd.

Address: Ramillies House

1-2 Ramillies Street

London W1V 1DF

Country: UK

**Telephone number:** 44 71 439 6301

**Telefax number:** 44 71 437 0731

**Release Date:**

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:** variable

**Sale Price:** UK £370

**Rental Period:**

**Permission or License Required:** yes

**Hardware Specifications**

TV-video colour standard: NTSC, PAL, SECAM

Video format: VHS, Beta

Length (minutes): 23

Colour: yes

Tape width (inches):

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Technology

**Secondary Key Words:** Ports, Harbors

**Title:** Port Decision Making Process

**Brief Summary of Contents:** Module 1 of three modules. This module shows how to improve strategic and tactical decisions at your port, harbor or marina, how to more effectively allocate scarce decision making time and resources. The module also includes a floppy disk (see Form A) and instruction manual.

**Language(s):** English

**Intended User Level:** undergraduate university

**Provider or Producer:** Name: Frederick J. Smith

Organization: Oregon State University

Address: Corvallis, Oregon 97331

Country: USA

**Telephone number:** 1 503 737-1429

**Telefax number:** 1 503 737-2563

**Release Date:** 1985

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:** US \$50/ day

**Sale Price:** US \$900

**Rental Period:**

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard:

Video format: VHS

Length (minutes): 60

Colour: yes

Tape width (inches):

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Technology

**Secondary Key Words:** Ports, Harbors

**Title:** Port Management Information and Analysis

**Brief Summary of Contents:** Module 2 of three modules. Presents management information including budgets, income and expense accounts, enterprise accounts and balance sheets; how to more effectively use this information and how to improve the quality of information available. The module also includes a floppy disk (see Form A) and instruction manual.

**Language(s):** English

**Intended User Level:** undergraduate university

**Provider or Producer:** Name: Frederick J. Smith

Organization: Oregon State University

Address: Corvallis, Oregon 97331

Country: USA

**Telephone number:** 1 503 737-1429

**Telefax number:** 1 503 737-2563

**Release Date:** 1985

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:** US \$50/day

**Sale Price:** US \$ 900

**Rental Period:**

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard:

Video format: VHS

Length (minutes): 60

Colour: yes

Tape width (inches):

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Technology

**Secondary Key Words:** Ports, Harbors

**Title:** Ports and the Local Economy

**Brief Summary of Contents:** Module 3 of three modules. Teaches about the economic connection between your port, harbor and marina, and the local economy, your economic impact, and how to effectively use this information for administration. The module also includes a floppy disk (see Form A) and instruction manual.

**Language(s):** English

**Intended User Level:** undergraduate university

**Provider or Producer:** Name: Frederick J. Smith

Organization: Oregon State University

Address: Corvallis, Oregon 97331

Country: USA

**Telephone number:** 1 503 737-1429

**Telefax number:** 1 503 737-2563

**Release Date:** 1985

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:** US \$50/day

**Sale Price:** US \$900

**Rental Period:**

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard:

Video format: VHS

Length (minutes): 60

Colour: yes

Tape width (inches):

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Technology

**Secondary Key Words:** Shipbuilding, Engines

**Title:** Power Interaction Principles in Marine Engineering I

**Brief Summary of Contents:** General principles of power interaction are discussed. Some individual examples such as engine-plus-propeller, pump-plus-pipe, and pump-plus-motor are given.

**Language(s):** English

**Intended User Level:** undergraduate university

**Provider or Producer:** Name: Dr. Dwight W. Stevenson

Organization: Michigan Engineering Television Network

Address: The University of Michigan

1020 H.H. Dow Building

Ann Arbor, Michigan 48109-2136

Country: USA

Telephone number: 1 313 763-1233

Telefax number: 1 313 936-3492

**Release Date:** 1988

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:** US \$135

**Sale Price:** US \$265

**Rental Period:** 2 weeks

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard:

Video format: 3/4" U-matic, 1/2" Beta I, 1/2" VHS

Length (minutes): 48

Colour: yes

Tape width (inches):

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Technology

**Secondary Key Words:** Shipbuilding, Engine Systems

**Title:** Power Interaction Principles in Marine Engineering II

**Brief Summary of Contents:** Shows the behavior of systems and their components in multiple-unit systems such as hull/propeller/engine or pipe/pump/motor. Solution of branch flows and powers are presented.

**Language(s):** English

**Intended User Level:** undergraduate university

**Provider or Producer:** Name: Dr. Dwight W. Stevenson

Organization: Michigan Engineering Television Network

Address: The University of Michigan

1020 H.H. Dow Building

Ann Arbor, Michigan 48109-2136

Country: USA

Telephone number: 1 313 763-1233

Telefax number: 1 313 936-3492

**Release Date:** 1988

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:** US \$135

**Sale Price:** US \$265

**Rental Period:** 2 weeks

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard:

Video format: 3/4" U-matic, 1/2" Beta I, 1/2" VHS

Length (minutes): 48

Colour: yes

Tape width (inches):

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Technology

**Secondary Key Words:** Safety, Attitudes

**Title:** Professional Attitudes

**Brief Summary of Contents:** Presents the story of a man who comes to work on heavy equipment with a hangover. In the hot sun the worker does about everything wrong: no seat belt, no hard hat, daydreams constantly, improper equipment, and finally the tragic end.

**Language(s):** English

**Intended User Level:** undergraduate university, advanced

**Provider or Producer: Name:** Richard Bacon

**Organization:** Videotel Marine International Ltd.

**Address:** Ramillies House

1-2 Ramillies Street

London W1V 1DF

**Country:** UK

**Telephone number:** 44 71 439 6301

**Telefax number:** 44 71 437 0731

**Release Date:**

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:** variable

**Sale Price:** UK £380

**Rental Period:**

**Permission or License Required:** yes

**Hardware Specifications**

**TV-video colour standard:** NTSC, PAL, SECAM

**Video format:** VHS, Beta

**Length (minutes):** 15

**Colour:**

**Tape width (inches):**

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Technology

**Secondary Key Words:** Pollution, Chemical Spills

**Title:** Response to Marine Chemical Spills: 1 - The Risk

**Brief Summary of Contents:** Begins with worldwide trade in chemicals and continues examining the way in which hazardous and dangerous cargoes are transported by packaged goods or in specialized chemical and gas carriers.

**Language(s):** English

**Intended User Level:** undergraduate university, advanced

**Provider or Producer:** Name: Richard Bacon

Organization: ViCeotel Marine International Ltd.

Address: Ramillies House

1-2 Ramillies Street

London W1V 1DF

Country: UK

Telephone number: 44 71 439 6301

Telefax number: 44 71 437 0731

**Release Date:** 1991

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:** UK £450

**Rental Period:**

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard: NTSC, PAL, SECAM

Video format: VHS, Beta

Length (minutes): 23

Colour: yes

Tape width (inches):



**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Technology

**Secondary Key Words:** Chemicals, Pollution

**Title:** Response to Marine Chemical Spills: 2 - Assessment and Analysis

**Brief Summary of Contents:** Classification of thousands of commonly transported chemicals by their physical properties. On contact with water does the substance sink, dissolve, float, evaporate or react?

**Language(s):** English

**Intended User Level:** undergraduate university, advanced

**Provider or Producer:** Name: Richard Bacon

Organization: Videotel Marine International Ltd.

Address: Ramillies House

1-2 Ramillies Street

London W1V 1DF

Country: UK

Telephone number: 44 71 439 6301

Telefax number: 44 71 437 0731

**Release Date:** 1991

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:** UK £450

**Rental Period:**

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard: NTSC, PAL, SECAM

Video format: VHS, Beta

Length (minutes): 24

Colour: yes

Tape width (inches):

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Technology

**Secondary Key Words:** Pollution, Hazardous Materials

**Title:** Response to Marine Chemical Spills: 3 - Response Options

**Brief Summary of Contents:** Physical property of the hazardous material. The response approaches: observe, monitor and notify; securing the cargo; and acting on the chemical once it is in the environment.

**Language(s):** English

**Intended User Level:** undergraduate university, advanced

**Provider or Producer:** Name: Richard Bacon

Organization: Videotel Marine International Ltd.

Address: Ramillies House

1-2 Ramillies Street

London W1V 1DF

Country: UK

**Telephone number:** 44 71 439 6301

**Telefax number:** 44 71 437 0731

**Release Date:** 1991

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:** UK £450

**Rental Period:**

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard: NTSC, PAL, SECAM

Video format: VHS, Beta

Length (minutes): 24

Colour: yes

Tape width (inches):

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Technology

**Secondary Key Words:** Pollution, Hazardous Cargo

**Title:** Response to Marine Chemical Spills: 4 - Contingency Planning, Operations and Training

**Brief Summary of Contents:** A detailed response exercise in which a ship reports a leak on a tank container. The chemical concerned is titanium tetra-chloride. Four stages of response: 1) notification and information gathering; 2) situation analysis, defining the problem; 3) action planning; 4) decision and execution.

**Language(s):** English

**Intended User Level:** undergraduate university, advanced

**Provider or Producer:** Name: Richard Bacon

Organization: Videotel Marine International Ltd.

Address: Ramillies House

1-2 Ramillies Street

London W1V 1DF

Country: UK

Telephone number: 44 71 439 6301

Telefax number: 44 71 437 0731

**Release Date:** 1991

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:** UK £450

**Rental Period:**

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard: NTSC, PAL, SECAM

Video format: VHS, Beta

Length (minutes): 24

Colour: yes

Tape width (inches):

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Technology

**Secondary Key Words:** Oil Spill, Pollution

**Title:** Response to Marine Oil Spills: Part 1 - The Oil Spill

**Brief Summary of Contents:** The consequences of an oil spill. The video explores the frequency and causes of spills and traces one: The fate of oil spilled into the sea.

**Language(s):** English

**Intended User Level:** undergraduate university, advanced

**Provider or Producer:** Name: Richard Bacon

Organization: Videotel Marine International Ltd.

Address: Ramillies House

1-2 Ramillies Street

London W1V 1DF

Country: UK

Telephone number: 44 71 439 6301

Telefax number: 44 71 437 0731

**Release Date:** 1988

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:** UK £385

**Rental Period:**

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard: NTSC, PAL, SECAM

Video format: VHS, Beta

Length (minutes): 20

Colour: yes

Tape width (inches):

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Technology

**Secondary Key Words:** Oil Spills, Pollution

**Title:** Response to Marine Oil Spills: Part 2 - Containment and Recovery

**Brief Summary of Contents:** Examines the main techniques of the containment and recovery of spilled oil. The design principle of booms and skimmers and described with reference to the wide variety and types available from around the world. Also highlights recommendations such as maintenance of equipment, storage and regular training exercises.

**Language(s):** English

**Intended User Level:** undergraduate university, advanced

**Provider or Producer: Name:** Richard Bacon

**Organization:** Videotel Marine International Ltd.

**Address:** Ramillies House

1-2 Ramillies Street

London W1V 1DF

**Country:** UK

**Telephone number:** 44 71 439 6301

**Telefax number:** 44 71 437 0731

**Release Date:** 1988

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:** UK £385

**Rental Period:**

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard: NTSC. PAL, SECAM

Video format: VHS, Beta

Length (minutes): 20

Colour: yes

Tape width (inches):

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Technology

**Secondary Key Words:** Oil Spills, Dispersals

**Title:** Response to Marine Oil Spills: Part 3 - The Use of Dispersants

**Brief Summary of Contents:** Explains different types of dispersants that are available and describes their action and methods of application. The video also suggests application of dispersants from the air, shore or sea.

**Language(s):** English

**Intended User Level:** undergraduate university, advanced

**Provider or Producer:** Name: Richard Bacon

Organization: Videotel Marine International Ltd.

Address: Ramillies House

1-2 Ramillies Street

London W1V 1DF

Country: UK

**Telephone number:** 44 71 439 6301

**Telefax number:** 44 71 437 0731

**Release Date:** 1988

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:** UK £385

**Rental Period:**

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard: NTSC, PAL, SECAM

Video format: VHS, Beta

Length (minutes): 23

Colour: yes

Tape width (inches):

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Technology

**Secondary Key Words:** Oil Spills, Shore Pollution

**Title:** Response to Marine Oil Spills: Part 4 - Shore-Line Clean-Up

**Brief Summary of Contents:** The consequences of an oil spill reaching the shore and some of the ways of dealing with it. Reviews various clean-up procedures for heavy, moderate and light contamination of different types of beach substrate.

**Language(s):** English

**Intended User Level:** undergraduate university, advanced

**Provider or Producer: Name:** Richard Bacon

**Organization:** Videotel Marine International Ltd.

**Address:** Ramillies House

1-2 Ramillies Street

London W1V 1DF

**Country:** UK

**Telephone number:** 44 71 439 6301

**Telefax number:** 44 71 437 0731

**Release Date:** 1988

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:** UK £385

**Rental Period:**

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard:

Video format: NTSC, PAL, SECAM

Length (minutes):

Colour: 17

Tape width (inches): no

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Technology

**Secondary Key Words:** Oil Spills, Planning

**Title:** Response to Marine Oil Spills: Part 5 - Planning and Operations

**Brief Summary of Contents:** Follows the course of a hypothetical oil spill from source to shoreline over a period of weeks . Various stages of an oil spill are described and it is demonstrated how the existence of a comprehensive contingency plan provides essential information.

**Language(s):** English

**Intended User Level:** undergraduate university, advanced

**Provider or Producer: Name:** Richard Bacon

**Organization:** Videotel Marine International Ltd.

**Address:** Ramillies House

1-2 Ramillies Street

London W1V 1DF

**Country:** UK

**Telephone number:** 44 71 439 6301

**Telefax number:** 44 71 437 0731

**Release Date:**

**Planned Future Release Date:**

**ISBN Number:** UK £385

**Rental Price:**

**Sale Price:**

**Rental Period:**

**Permission or License Required:** NTSC, PAL, SECAM

**Hardware Specifications**

TV-video colour standard: VHS, Beta

Video format:

Length (minutes): yes

Colour: no

Tape width (inches):



**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Technology

**Secondary Key Words:** Offshore, Diving

**Title:** Safe Diving

**Brief Summary of Contents:** Examines safety aspects of diving operations in deep water. Described basic parameters in diving.

**Language(s):** English

**Intended User Level:** undergraduate university, advanced

**Provider or Producer:** Name: Richard Bacon

Organization: Videotel Marine International Ltd.

Address: Ramillies House

1-2 Ramillies Street

London W1V 1DF

Country: UK

**Telephone number:** 44 71 439 6301

**Telefax number:** 44 71 437 0731

**Release Date:**

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:** variable

**Sale Price:** UK £350

**Rental Period:**

**Permission or License Required:** yes

**Hardware Specifications**

TV-video colour standard: NTSC, PAL, SECAM

Video format: VHS, Beta

Length (minutes): 22

Colour: yes

Tape width (inches):

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Technology

**Secondary Key Words:** Offshore, Ionizing Radiation

**Title:** Safe Use of Ionizing Radiation in the Offshore

**Brief Summary of Contents:** Understanding and control of ionizing radiations can reduce the risk of exposure to acceptable levels. Procedure for the safe use are shown on an oil rig. The three important factors are shielding, time and distance.

**Language(s):** English

**Intended User Level:** undergraduate university, advanced

**Provider or Producer:** Name: Richard Bacon

Organization: Videotel Marine International Ltd.

Address: Ramillies House

1-2 Ramillies Street

London W1V 1DF

Country: UK

Telephone number: 44 71 439 6301

Telefax number: 44 71 437 0731

**Release Date:**

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:** variable

**Sale Price:** UK £375

**Rental Period:**

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard: NTSC, PAL, SECAM

Video format: VHS, Beta

Length (minutes): 22

Colour: yes

Tape width (inches):

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Technology

**Secondary Key Words:** Safety, Offshore

**Title:** Safety in Offshore Operations

**Brief Summary of Contents:** Discusses Norwegian law regarding safety offshore vessels and oil rigs.

**Language(s):** English

**Intended User Level:** undergraduate university, advanced

**Provider or Producer:** Name: Richard Bacon

Organization: Videotel Marine International Ltd.

Address: Ramillies House

1-2 Ramillies Street

London W1V 1DF

Country: UK

Telephone number: 44 71 439 6301

Telefax number: 44 71 437 0731

**Release Date:** 1990

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:** variable

**Sale Price:** UK £430

**Rental Period:**

**Permission or License Required:** yes

**Hardware Specifications**

TV-video colour standard: NTSC, PAL, SECAM

Video format: VHS, Beta

Length (minutes): 29

Colour: yes

Tape width (inches):

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Technology

**Secondary Key Words:** Diving, Offshore

**Title:** Saturation Diving

**Brief Summary of Contents:** Intended as a general introduction on saturation diving. The principle audience would be divers, construction, and maintenance engineers involved in underwater operations. The video explains what is meant by saturation diving.

**Language(s):** English

**Intended User Level:** undergraduate university, advanced

**Provider or Producer:** Name: Richard Bacon

Organization: Videotel Marine International Ltd.

Address: Ramillies House

1-2 Ramillies Street

London W1V 1DF

Country: UK

Telephone number: 44 71 439 6301

Telefax number: 44 71 437 0731

**Release Date:**

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:** variable

**Sale Price:** UK £315

**Rental Period:**

**Permission or License Required:** yes

**Hardware Specifications**

TV-video colour standard: NTSC, PAL, SECAM

Video format: VHS, Beta

Length (minutes): 21

Colour: yes

Tape width (inches):

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Technology

**Secondary Key Words:** Shipbuilding, Hull Loads

**Title:** Ship Strength and Structures I

**Brief Summary of Contents:** The video gives an overall look at the loads on a ship's hull and the nature of the resulting stresses within the structure. It includes elementary beam structure and the ship as a girder.

**Language(s):** English

**Intended User Level:** undergraduate university

**Provider or Producer:** Name: Dr. Dwight W. Stevenson

Organization: Michigan Engineering Television Network

Address: The University of Michigan

1020 H.H. Dow Building

Ann Arbor, Michigan 48109-2136

Country: USA

**Telephone number:** 1 313 763-1233

**Telefax number:** 1 313 936-3492

**Release Date:** 1987

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:** US \$135

**Sale Price:** US \$265

**Rental Period:** 2 weeks

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard:

Video format: 3/4" U-matic, 1/2" Beta I, 1/2" VHS

length (minutes): 46

Colour: yes

Tape width (inches):

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Technology

**Secondary Key Words:** Shipbuilding. Design

**Title:** Ship Strength and Structures II

**Brief Summary of Contents:** Brittle fracture, racking, twisting, transverse strength and local loads are presented. Also shown is the need for safety factors and framing systems.

**Language(s):** English

**Intended User Level:** undergraduate university

**Provider or Producer:** Name: Dr. Dwight W. Stevenson

Organization: Michigan Engineering Television Network

Address: The University of Michigan

1020 H.H. Dow Building

Ann Arbor, Michigan 48109-2136

Country: USA

Telephone number: 1 313 763-1233

Telefax number: 1 313 936-3492

**Release Date:** 1987

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:** US \$135

**Sale Price:** US \$265

**Rental Period:** 2 weeks

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard:

Video format: 3/4" U-matic, 1/2" Beta I, 1/2" VHS

Length (minutes): 45

Colour: yes

Tape width (inches):

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Technology

**Secondary Key Words:** Shipbuilding, Design

**Title:** Ship Strength and Structures III

**Brief Summary of Contents:** Items presented: framing members, end attachments, welding, permissible stresses and limits on ratio of ship's length to depth, and practical guides to good structural design.

**Language(s):** English

**Intended User level:** undergraduate university

**Provider or Producer: Name:** Dr. Dwight W. Stevenson

**Organization:** Michigan Engineering Television Network

**Address:** The University of Michigan

1020 H.H. Dow Building

Ann Arbor, Michigan 48109-2136

**Country:** USA

**Telephone number:** 1 313 763-1233

**Telefax number:** 1 313 936-3492

**Release Date:** 1987

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:** US \$135

**Sale Price:** US \$265

**Rental Period:** 2 weeks

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard:

Video format: 3/4" U-matic, 1/2" Beta I, 1/2" VHS

Length (minutes): 46

Colour: yes

Tape width (inches):

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Technology

**Secondary Key Words:** Shipbuilding, Design

**Title:** Ship Strength and Structures IV

**Brief Summary of Contents:** The video discusses miscellaneous practical considerations in structural design. Also presented are the component parts of the hull structure: functions and terminology.

**Language(s):** English

**Intended User Level:** undergraduate university

**Provider or Producer:** Name: Dr. Dwight W. Stevenson  
Organization: Michigan Engineering Television Network  
Address: The University of Michigan  
1020 H.H. Dow Building  
Ann Arbor, Michigan 48109-2136  
Country: USA

**Telephone number:** 1 313 763-1233  
**Telefax number:** 1 313 936-3492

**Release Date:** 1987

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:** US \$135

**Sale Price:** US \$265

**Rental Period:** 2 weeks

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard:

Video format: 3/4" U-matic, 1/2" Beta I, 1/2" VHS

Length (minutes): 50

Colour: yes

Tape width (inches):



**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Technology

**Secondary Key Words:** Shipbuilding, Costs

**Title:** Shipbuilding Cost Estimates I

**Brief Summary of Contents:** Presents cost estimating techniques applicable to various stages of design and for various purposes. Includes cost breakdown systems and analysis of cost data.

**Language(s):** English

**Intended User Level:** undergraduate university

**Provider or Producer: Name:** Dr. Dwight W. Stevenson

**Organization:** Michigan Engineering Television Network

**Address:** The University of Michigan

1020 H.H. Dow Building

Ann Arbor, Michigan 48109-2136

**Country:** USA

**Telephone number:** 1 313 763-1233

**Telefax number:** 1 313 936-3492

**Release Date:** 1985

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:** US \$135

**Sale Price:** US \$265

**Rental Period:** 2 weeks

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard:

Video format: 3/4" U-matic, 1/2" Beta I, 1/2" VHS

Length (minutes): 38

Colour: yes

Tape width (inches):

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Technology

**Secondary Key Words:** Shipbuilding, Costs

**Title:** Shipbuilding Cost Estimates II

**Brief Summary of Contents:** Non-traditional cost estimating methods, owner's costs, extrinsic factors affecting shipyard bids, need for reform, sources of cost data are presented.

**Language(s):** English

**Intended User Level:** undergraduate university

**Provider or Producer:** Name: Dr. Dwight W. Stevenson

Organization: Michigan Engineering Television Network

Address: The University of Michigan

1020 H.H. Dow Building

Ann Arbor, Michigan 48109-2136

Country: USA

Telephone number: 1 313 763-1233

Telefax number: 1 313 936-3492

**Release Date:** 1988

**Planned : ure Release Date:**

**ISBN Number:**

**Rental Price:** US \$135

**Sale Price:** US \$265

**Rental Period:** 2 weeks

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard:

Video format: 3/4" U-matic, 1/2" Beta I, 1/2" VHS

Length (minutes): 44

Colour: yes

Tape width (inches):

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Technology

**Secondary Key Words:** Shipbuilding, Specifications

**Title:** Shipbuilding Specifications and Contracts

**Brief Summary of Contents:** Principles to keep in mind when writing specifications are addressed. Common understandings embodied in shipbuilding contracts, and pitfalls and protections are included.

**Language(s):** English

**Intended User Level:** undergraduate university

**Provider or Producer: Name:** Dr. Dwight W. Stevenson

**Organization:** Michigan Engineering Television Network

**Address:** The University of Michigan

1020 H.H. Dow Building

Ann Arbor, Michigan 48109-2136

**Country:** USA

**Telephone number:** 1 313 763-1233

**Telefax number:** 1 313 936-3492

**Release Date:** 1987

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:** US \$135

**Sale Price:** US \$265

**Rental Period:** 2 weeks

**Permission or License Required:**

**Hardware Specifications**

**TV-video colour standard:**

**Video format:** 3/4" U-matic, 1/2" Beta I, 1/2" VHS

**Length (minutes):** 39

**Colour:** yes

**Tape width (inches):**

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Technology

**Secondary Key Words:** Offshore, Oil Production

**Title:** Simultaneous Drilling and Production

**Brief Summary of Contents:** Shows regulations for simultaneous drilling and production in the North Sea, particularly Norwegian regulations. Emphasizes safety aspects of the procedures involved.

**Language(s):** English

**Intended User Level:** undergraduate university, advanced

**Provider or Producer:** Name: Richard Bacon

Organization: Videotel Marine International Ltd.

Address: Ramillies House

1-2 Ramillies Street

London W1V 1DF

Country: UK

**Telephone number:** 44 71 439 6301

**Telefax number:** 44 71 437 0731

**Release Date:**

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:** variable

**Sale Price:** UK £400

**Rental Period:**

**Permission or License Required:** yes

**Hardware Specifications**

TV-video colour standard: NTSC, PAL, SECAM

Video format: VHS, Beta

Length (minutes): 20

Colour: yes

Tape width (inches):

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Technology

**Secondary Key Words:** Radar Images, Currents

**Title:** Télédétection Radar

**Brief Summary of Contents:** Testing radar remote sensing equipment on an aircraft prior to installation on satellite; Description of operation and uses of equipment, range of sensing capacities (by night, in cloudy weather); a few examples to demonstrate applications to certain processes, i.e. soil erosion, crop monitoring, precise delineation of land shapes, determination of ocean currents, changes in sea-ice, guiding boats to fishing grounds, etc.

**Language(s):** French

**Intended User Level:** undergraduate university, advanced

**Provider or Producer:** Name: Centre National de la Recherche Scientifique

Organization: CNRS Audiovisual

Address: 1 Place Aristide Briand

92195 Meudon Cedex

Country: France

Telephone number: 33 45 34 75 50

Telefax number: 33 46 28 49

**Release Date:** 1989

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:** FF130/week

**Sale Price:** FF400

**Rental Period:**

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard:

Video format: Betacam

Length (minutes): 19

Colour: yes

Tape width (inches): 3/4

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Technology

**Secondary Key Words:** Oil Production, Safety

**Title:** The Green Man

**Brief Summary of Contents:** The new employee on a drilling rig is oriented, trained counselled and humored as he gets the swing of it during his first few days at work. He gains confidence in himself and responds quickly in a rescue during a drill stem test.

**Language(s):** English

**Intended User Level:** undergraduate university, advanced

**Provider or Producer:** Name: Richard Bacon

Organization: Videotel Marine International Ltd.

Address: Ramillies House

1-2 Ramillies Street

London W1V 1DF

Country: UK

**Telephone number:** 44 71 439 6301

**Telefax number:** 44 71 437 0731

**Release Date:**

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:** variable

**Sale Price:** UK £400

**Rental Period:**

**Permission or License Required:** yes

**Hardware Specifications**

TV-video colour standard: NTSC, PAL, SECAM

Video format: VHS, Beta

Length (minutes): 20

Colour: yes

Track width (inches):

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Technology

**Secondary Key Words:** Offshore. Diving

**Title:** The Role & Duties of the Tender & Stand-By Diver

**Brief Summary of Contents:** The roles of both stand-by diver and tender are vital to the diving team. The film illustrates proper working practices as stressed adherence to the use of checklists and the company manual. Being prepared and fully alert is underlined. Casualty recovery is shown.

**Language(s):** English

**Intended User Level:** undergraduate university, advanced

**Provider or Producer:** Name: Richard Bacon

Organization: Videotel Marine International Ltd.

Address: Ramillies House

1-2 Ramillies Street

London W1V 1DF

Country: UK

Telephone number: 44 71 439 6301

Telefax number: 44 71 437 0731

**Release Date:**

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:** variable

**Sale Price:** UK £385

**Rental Period:**

**Permission or License Required:** yes

**Hardware Specifications**

TV-video colour standard: NTSC, PAL, SECAM

Video format: VHS, Beta

Length (minutes): 17

Colour: yes

Tape width (inches):

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Technology

**Secondary Key Words:** Diving, Offshore

**Title:** The Role and Duties of the Bellman

**Brief Summary of Contents:** Diving bell operations require good training, keeping alert and keeping strictly to established procedures. Important safety points are stressed. The unexpected can happen. A real diving incident involving recovery of an unconscious diver is shown.

**Language(s):** English

**Intended User Level:** undergraduate university, advanced

**Provider or Producer:** Name: Richard Bacon

Organization: Videotel Marine International Ltd.

Address: Ramillies House

1-2 Ramillies Street

London W1V 1DF

Country: UK

Telephone number: 44 71 439 6301

Telefax number: 44 71 437 0731

**Release Date:**

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:** variable

**Sale Price:** UK £395

**Rental Period:**

**Permission or License Required:** yes

**Hardware Specifications**

TV-video colour standard: NTSC, PAL, SECAM

Video format: VHS, Beta

Length (minutes): 22

Colour: yes

Tape width (inches):



**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Technology

**Secondary Key Words:** Cranes, Offshore

**Title:** The Safe Use of Cranes in the Offshore Industry

**Brief Summary of Contents:** Crane operation can be hazardous without careful regard for safe operation. The basics of crane operation are shown. The film shows how safe crane operations are a result of good training, proper safe working practices, teamwork and communications.

**Language(s):** English

**Intended User Level:** undergraduate university, advanced

**Provider or Producer:** Name: Richard Bacon

Organization: Videotel Marine International Ltd.

Address: Ramillies House

1-2 Ramillies Street

London W1V 1DF

Country: UK

**Telephone number:** 44 71 439 6301

**Telefax number:** 44 71 437 0731

**Release Date:**

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:** variable

**Sale Price:** UK £375

**Rental Period:**

**Permission or License Required:** yes

**Hardware Specifications**

TV-video colour standard: NTSC, PAL, SECAM

Video format: VHS, Beta

Length (minutes): 22

Colour: yes

Tape width (inches):

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Technology

**Secondary Key Words:** Leadership, Safety

**Title:** The Supervisor

**Brief Summary of Contents:** Supervision is more than knowledge and the issuing of orders. This film concentrates on supervision in hazardous environments. The intelligent behavior of a foreman at a gas plant and his ways of relating to the people about him combine to show his effectiveness.

**Language(s):** English

**Intended User Level:** undergraduate university, advanced

**Provider or Producer:** Name: Richard Bacon

Organization: Videotel Marine International Ltd.

Address: Ramillies House

1-2 Ramillies Street

London W1V 1DF

Country: UK

Telephone number: 44 71 439 6301

Telefax number: 44 71 437 0731

**Release Date:**

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:** variable

**Sale Price:** UK £420

**Rental Period:**

**Permission or License Required:** yes

**Hardware Specifications**

TV-video colour standard: NTSC, PAL, SECAM

Video format: VHS, Beta

Length (minutes): 20

Colour: yes

Tape width (inches):

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Technology

**Secondary Key Words:** Shipbuilding, Design

**Title:** Tonnage Measurement for Ships

**Brief Summary of Contents:** Describes the purpose of tonnage measurement, gives a historic overview and reviews current regulations.

**Language(s):** English

**Intended User Level:** undergraduate university, advanced

**Provider or Producer: Name:** Dr. Dwight W. Stevenson

**Organization:** Michigan Engineering Television Network

**Address:** The University of Michigan

1020 H.H. Dow Building

Ann Arbor, Michigan 48109-2136

**Country:** USA

**Telephone number:** 1 313 763-1233

**Telefax number:** 1 313 936-3492

**Release Date:** 1985

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:** US \$135

**Sale Price:** US \$265

**Rental Period:** 2 weeks

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard:

Video format: 3/4" U-matic, 1/2" Beta I, 1/2" VHS

Length (minutes): 37

Colour: yes

Tape width (inches):

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Technology

**Secondary Key Words:** Coastal Zone, Photography

**Title:** Un Regard Sous la Mer

**Brief Summary of Contents:** Use of a remotely controlled submarine camera to explore some typical Mediterranean sea-bottom sites. Exploring posidonia beds, rocky bottoms and coral reefs.

**Language(s):** French

**Intended User Level:** general, secondary school, undergraduate university

**Provider or Producer:** Name: M. Aubert

Organization: Centre d'Etude et de Recherche de Biologie et d'Océanographie Médicale

Address: 1, avenue Jean-Lorrain  
06300 Nice

Country: France

Telephone number: 93.89.72.49

Telefax number:

**Release Date:** 1988

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:** FF200

**Rental Period:**

**Permission or License Required:** CRDEP de Nice

**Hardware Specifications**

TV-video colour standard: SECAM

Video format: U-matic lowband, VHS

Length (minutes): 10

Colour: yes

Tape width (inches):

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Technology

**Secondary Key Words:** Offshore. Electrical Safety

**Title:** Underwater Electrical Safety

**Brief Summary of Contents:** Using electricity underwater can be safe, but safety relies on proper design, maintenance and operational procedures.

**Language(s):** English

**Intended User Level:** undergraduate university, advanced

**Provider or Producer:** Name: Richard Bacon

Organization: Videotel Marine International Ltd.

Address: Ramillies House

1-2 Ramillies Street

London W1V 1DF

Country: UK

Telephone number: 44 71 439 6301

Telefax number: 44 71 437 0731

**Release Date:**

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:** variable

**Sale Price:** UK £330

**Rental Period:**

**Permission or License Required:** yes

**Hardware Specifications**

TV-video colour standard: NTSC, PAL, SECAM

Video format: VHS, Beta

Length (minutes): 18

Colour: yes

Tape width (inches):

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Technology

**Secondary Key Words:** Offshore, Diving

**Title:** Underwater Inspection Techniques: Part 1 - General Visual Inspection

**Brief Summary of Contents:** The objective of general visual inspection is to examine the structure for any signs of damage or distortion that may affect its structural integrity and performance. Assessment of marine growth, protective coating, deposits, corrosion, debris and other hazards are included.

**Language(s):** English

**Intended User Level:** undergraduate university, advanced

**Provider or Producer:** Name: Richard Bacon

Organization: Videotel Marine International Ltd.

Address: Ramillies House

1-2 Ramillies Street

London W1V 1DF

Country: UK

Telephone number: 44 71 439 6301

Telefax number: 44 71 437 0731

**Release Date:**

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:** UK £190

**Rental Period:**

**Permission or License Required:** yes

**Hardware Specifications**

TV-video colour standard: NTSC, PAL, SECAM

Video format: VHS, Beta

Length (minutes): 25

Colour: yes

Tape width (inches):

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Technology

**Secondary Key Words:** Corrosion, Underwater

**Title:** Underwater Inspection Techniques: Part 2 - Close Visual Inspection

**Brief Summary of Contents:** Detailed examination of selected areas of the structure welds to detect or monitor any defects or corrosion which may effect the integrity of the structure.

**Language(s):** English

**Intended User Level:** undergraduate university, advanced

**Provider or Producer:** Name: Richard Bacon

Organization: Videotel Marine International Ltd.

Address: Ramillies House

1-2 Ramillies Street

London W1V 1DF

Country: UK

**Telephone number:** 44 71 439 6301

**Telefax number:** 44 71 437 0731

**Release Date:** 1988

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:** UK £190

**Rental Period:**

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard: NTSC, PAL, SECAM

Video format: VHS, Beta

Length (minutes): 23

Colour: yes

Tape width (inches):

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Technology

**Secondary Key Words:** Underwater, Non-Destructive Testing

**Title:** Underwater Inspection Techniques: Part 3 - Non-Destructive Testing Underwater

**Brief Summary of Contents:** Non-destructive testing, or NDT, techniques are incorporated along with visual inspection methods to detect and monitor any defects which may affect the integrity of a structure.

**Language(s):** English

**Intended User Level:** undergraduate university, advanced

**Provider or Producer:** Name: Richard Bacon

Organization: Videotel Marine International Ltd.

Address: Ramillies House

1-2 Ramillies Street

London W1V 1DF

Country: UK

**Telephone number:** 44 71 439 6301

**Telefax number:** 44 71 437 0731

**Release Date:** 1988

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:** UK £190 each

**Rental Period:**

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard: NTSC, PAL, SECAM

Video format: VHS, Beta

Length (minutes): 28

Colour: yes

Tape width (inches):



**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Technology

**Secondary Key Words:** Underwater, Concrete

**Title:** Underwater Inspection Techniques: Part 4 - Concrete Inspection

**Brief Summary of Contents:** Techniques of using videos during inspection: 1) locating and positioning of features using cardinal clock positions and vertical tagged line; 2) nature of damage, cracking, etc. showing examples of how these are inspected.

**Language(s):** English

**Intended User Level:** undergraduate university, advanced

**Provider or Producer:** Name: Richard Bacon

Organization: Videotel Marine International Ltd.

Address: Ramillies House

1-2 Ramillies Street

London W1V 1DF

Country: UK

**Telephone number:** 44 71 439 6301

**Telefax number:** 44 71 437 0731

**Release Date:** 1988

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:** UK £190

**Rental Period:**

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard: NTSC, PAL, SECAM

Video format: VHS, Beta

Length (minutes): 34

Colour: yes

Tape width (inches):

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Technology

**Secondary Key Words:** Underwater, Pipelines

**Title:** Underwater Inspection Techniques: Part 5 - Pipeline Inspection

**Brief Summary of Contents:** Examining pipeline for evidence of damage, distortion, movement of supported lengths that may affect structural integrity. Also includes an assessment of features that form part of a pipeline installation.

**Language(s):** English

**Intended User Level:** undergraduate university, advanced

**Provider or Producer:** Name: Richard Bacon

Organization: Videotel Marine International Ltd.

Address: Ramillies House

1-2 Ramillies Street

London W1V 1DF

Country: UK

Telephone number: 44 71 439 6301

Telefax number: 44 71 437 0731

**Release Date:** 1988

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:** UK £190

**Rental Period:**

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard: NTSC, PAL, SECAM

Video format: VHS, Beta

Length (minutes): 24

Colour: yes

Tape width (inches):

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Technology

**Secondary Key Words:** Underwater, ROVs

**Title:** Underwater Inspection Techniques: Part 6 - Use of ROVs in Monitoring Diver Safety

**Brief Summary of Contents:** Compilation of video tapes showing emergencies which have occurred during diving operations. Sequences shown demonstrate that remotely operated vehicles have a major role to play in looking after the welfare and safety of the diver.

**Language(s):** English

**Intended User Level:** undergraduate university, advanced

**Provider or Producer: Name:** Richard Bacon

**Organization:** Videotel Marine International Ltd.

**Address:** Ramillies House

1-2 Ramillies Street

London W1V 1DF

**Country:** UK

**Telephone number:** 44 71 439 6301

**Telefax number:** 44 71 437 0731

**Release Date:** 1988

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:** UK £190

**Rental Period:**

**Permission or License Required:**

**Hardware Specifications**

**TV-video colour standard:** NTSC, PAL, SECAM

**Video format:** VHS, Beta

**Length (minutes):** 18

**Colour:** yes

**Tape width (inches):**

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Technology

**Secondary Key Words:** Safety, Offshore

**Title:** Underwater Tools

**Brief Summary of Contents:** This film introduces the tools used by divers in the Royal Navy and describes the safety drills and procedures. Suitable for instruction of all divers.

**Language(s):** English

**Intended User Level:** undergraduate university, advanced

**Provider or Producer:** Name: Richard Bacon

Organization: Videotel Marine International Ltd.

Address: Ramillies House

1-2 Ramillies Street

London W1V 1DF

Country: UK

**Telephone number:** 44 71 439 6301

**Telefax number:** 44 71 437 0731

**Release Date:**

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:** variable

**Sale Price:** UK £340

**Rental Period:**

**Permission or License Required:** yes

**Hardware Specifications**

TV-video colour standard: NTSC, PAL, SECAM

Video format: VHS, Beta

Length (minutes): 27

Colour: yes

Tape width (inches):

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**B. VIDEO-BASED LEARNING MATERIALS**

**Key Word:** Technology

**Secondary Key Words:** Shipbuilding, Weights and Volume

**Title:** Weight and Volume Measurement of Ships

**Brief Summary of Contents:** the video addresses the units of weight and volume and how they are applied in ship design and operation. Standard components of light ship and the deadweight coefficient are presented.

**Language(s):** English

**Intended User Level:** undergraduate university

**Provider or Producer:** Name: Dr. Dwight W. Stevenson

Organization: Michigan Engineering Television Network

Address: The University of Michigan

1020 H.H. Dow Building

Ann Arbor, Michigan 48109-2136

Country: USA

Telephone number: 1 313 763-1233

Telefax number: 1 313 936-3492

**Release Date:** 1986

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:** US \$135

**Sale Price:** US \$265

**Rental Period:** 2 weeks

**Permission or License Required:**

**Hardware Specifications**

TV-video colour standard:

Video format: 3/4" U-matic, 1/2" Beta I, 1/2" VHS

Length (minutes): 48

Colour: yes

Tape width (inches):

## **C. FILM-BASED LEARNING MATERIAL INVENTORY**

## FILM-BASED LEARNING MATERIAL INDICES

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**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**C. FILM-BASED LEARNING MATERIALS**

**Key Word:** Biosciences

**Secondary Key Words:** Ecology, Coral Reef

**Title:** Coral Reef

**Brief Summary of Contents:** This film introduces the ecology of coral reefs using examples from the Western Pacific, Australia, and Florida.

**Language(s):** English

**Intended User Level:** general, secondary schools

**Provider or Producer: Name:** Director

**Organization:** National Geographic Society Educational Services

**Address:** Department 84

Washington, D.C. 20036

**Country:** USA

**Telephone number:**

**Telefax number:**

**Release Date:**

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:**

**Rental Period:**

**Permission or License Required:**

**Hardware Specifications**

**Format:** 16mm

**Sound:**

**Length (minutes):** 23

**Colour:**



**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**C. FILM-BASED LEARNING MATERIALS**

**Key Word:** Biosciences

**Secondary Key Words:** Ecology, Mediterranean

**Title:** Die Garten Des Poseidon (The Garden of Poseidon)

**Brief Summary of Contents:** Looks at four different ecological systems within the Mediterranean Sea and what can be done to stop the pollution currently threatening to destroy their delicate interrelationship.

**Language(s):** German

**Intended User Level:** undergraduate university, advanced

**Provider or Producer:** Name: Director

Organization: ORF

Address: 30 Wurzburggasse

1136 Wien

Country: Austria

**Telephone number:** 22 28291

**Telefax number:**

**Release Date:** 1989

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:**

**Rental Period:**

**Permission or License Required:**

**Hardware Specifications**

**Format:**

**Sound:**

**Length (minutes):** 45

**Colour:**

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**C. FILM-BASED LEARNING MATERIALS**

**Key Word:** Biosciences

**Secondary Key Words:** Monk Seal, Mediterranean

**Title:** Die Kueste Der Moenchsrobben (Monk Seal Coast)

**Brief Summary of Contents:** Sets out a conservation model for the Mediterranean Monk Seal.

**Language(s):** German, English

**Intended User Level:** general, undergraduate university

**Provider or Producer:** Name: Director

Organization: ZDF

Address: Postfach 4040

D-6500 Mainz 1

Country: Germany

**Telephone number:** 6131 70 2080

**Telefax number:** 6131 72 855

**Release Date:** 1977

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:**

**Rental Period:**

**Permission or License Required:**

**Hardware Specifications**

Format:

Sound:

Length (minutes): 43

Colour:

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**C. FILM-BASED LEARNING MATERIALS**

**Key Word:** Biosciences

**Secondary Key Words:** Mediterranean, Life Science

**Title:** Ecologie Benthique Méditerranéenne (Mediterranean Benthic Ecology)

**Brief Summary of Contents:** Illustrates the variety of Mediterranean marine biotopes and demonstrates the principles governing the distribution of organisms in the sea. The first part deals with relationships between aerial (land) morphology and submarine topography. The second part introduces the major bionomic units and their main characteristics. (Also available in video format. See Form B.)

**Language(s):** French

**Intended User Level:** undergraduate university, advanced

**Provider or Producer: Name:** Centre National de la Recherche Scientifique

**Organization:** CNRS Audiovisuel

**Address:** 1 Place Aristide Briand  
92195 Meudon Cedex

**Country:** France

**Telephone number:** 33 45 34 75 50

**Telefax number:** 33 46 28 49

**Release Date:** 1980

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:**

**Rental Period:**

**Permission or License Required:**

**Hardware Specifications**

**Format:** 16mm

**Sound:** optical

**Length (minutes):** 30

**Colour:** yes

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**C. FILM-BASED LEARNING MATERIALS**

**Key Word:** Biosciences

**Secondary Key Words:** Fish, Estuary

**Title:** Estuary: Columbia's Link with the Sea

**Brief Summary of Contents:** Examines the complex relationship between the biological and economic demands on the Pacific Northwest's largest river, The Columbia, and its estuary. Shows how upriver use of water affects salmon and other wildlife found in the estuary and relates this to the health of the fishing and tourist industries in the Astoria, Oregon, area.

**Language(s):** English

**Intended User Level:** general

**Provider or Producer:** Name: Director  
Organization: Sea Grant Communications  
Address: Administrative Services A402  
Oregon State University  
Corvallis, OR 97331-2134  
Country: USA

**Telephone number:** 1 503 737-2716  
**Telefax number:** 1 503 737-2392

**Release Date:** 1982

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:** US \$20

**Sale Price:** US \$25

**Rental Period:** 1 month

**Permission or License Required:** contact Sea Grant Communications

**Hardware Specifications**

Format: 16mm

Sound:

Length (minutes): 28

Colour: yes

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**C. FILM-BASED LEARNING MATERIALS**

**Key Word:** Biosciences

**Secondary Key Words:** Aquaculture, Business

**Title:** Farmers of the Sea

**Brief Summary of Contents:** Explores the business of aquaculture around the world, comparing ventures in China, Japan, and Europe to those in the United States. This is a documentary produced for the Public Broadcasting Service science program, NOVA.

**Language(s):** English

**Intended User Level:** general

**Provider or Producer: Name:** Director

**Organization:** Sea Grant Communications

**Address:** Administrative Services A402

Oregon State University

Corvallis, OR 97331-2134

**Country:** USA

**Telephone number:** 1 503 737-2716

**Telefax number:** 1 503 737-2392

**Release Date:** 1987

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:** US \$20

**Sale Price:** US \$200

**Rental Period:** 1 month

**Permission or License Required:** contact Sea Grant Communications

**Hardware Specifications**

**Format:** 16mm

**Sound:**

**Length (minutes):** 58

**Colour:** yes

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**C. FILM-BASED LEARNING MATERIALS**

**Key Word:** Biosciences

**Secondary Key Words:** Aquaculture, Business

**Title:** Farmers of the Sea

**Brief Summary of Contents:** Explores the business of aquaculture around the world, comparing ventures in China, Japan, and Ejuropa to those in the United States. This is a condensed version of a documentary produced for the Public Broadcasting Service science program, NOVA.

**Language(s):** English

**Intended User Level:** general

**Provider or Producer:** Name: Director  
Organization: Sea Grant Communications  
Address: Administrative Services A402  
Oregon State University  
Corvallis, OR 97331-2134  
Country: USA

**Telephone number:** 1 503 737-2716  
**Telefax number:** 1 503 737-2392

**Release Date:** 1987

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:** US \$20

**Sale Price:** US \$200

**Rental Period:** 1 month

**Permission or License Required:** contact Sea Grant Communications

**Hardware Specifications**

**Format:** 16mm

**Sound:**

**Length (minutes):** 30

**Colour:** yes

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**C. FILM-BASED LEARNING MATERIALS**

**Key Word:** Biosciences

**Secondary Key Words:** Mammals, Technology

**Title:** Gray Whale

**Brief Summary of Contents:** Features OSU scientist, Bruce Mate, as he uses radio transmitters, shore-based monitoring stations, and airplane-mounted radio receivers to study the diving patterns, behavior, and movements of gray whales.

**Language(s):** English

**Intended User Level:** general

**Provider or Producer:** Name: Director

Organization: Sea Grant Communications

Address: Administrative Services A402

Oregon State University

Corvallis, OR 97331-2134

Country: USA

**Telephone number:** 1 503 737-2716

**Telefax number:** 1 503 737-2392

**Release Date:** 1982

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:** US \$20

**Sale Price:** US \$75

**Rental Period:** 1 month

**Permission or License Required:** contact Sea Grant Communications

**Hardware Specifications**

Format: 16mm

Sound:

Length (minutes): 8

Colour:

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**C. FILM-BASED LEARNING MATERIALS**

**Key Word:** Biosciences

**Secondary Key Words:** Ecology, Resources

**Title:** Home to the Sea

**Brief Summary of Contents:** The presentation explains the ecological and economic importance of the world's coastal and ocean areas, and describes UN programs for the sustainable use of coastal and oceans.

**Language(s):** English

**Intended User Level:** general

**Provider or Producer:** Name: Director

Organization: United Nations Environment Programme

Address: United Nations Plaza

New York, New York 10017

Country: USA

**Telephone number:**

**Telefax number:**

**Release Date:** 1980

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:**

**Rental Period:**

**Permission or License Required:**

**Hardware Specifications**

Format: 16mm

Sound:

Length (minutes): 27

Colour:



**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**C. FILM-BASED LEARNING MATERIALS**

**Key Word:** Biosciences

**Secondary Key Words:** Corals, Ecology

**Title:** Jardin de la Vie (The Coral Garden)

**Brief Summary of Contents:** An undersea visit to the beautiful reefs of the Djibouti region. Pictures of various shapes of coral colonies illustrate the subject of coral biology, the invertebrates and fish that find shelter there. Shots of impoverished areas indicate threats to this coral garden. (Also available in video format. See Form B.)

**Language(s):** French

**Intended User Level:**

**Provider or Producer:** Name: Centre National de la Recherche Scientifique

Organization: CNRS Audiovisuel

Address: 1 Place Aristide Briand

92195 Meudon Cedex

Country: France

**Telephone number:** 33 45 34 75 50

**Telefax number:** 33 46 28 49

**Release Date:** 1986

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:**

**Rental Period:**

**Permission or License Required:**

**Hardware Specifications**

Format: 16mm

Sound: optical

Length (minutes): 16

Colour: yes

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**C. FILM-BASED LEARNING MATERIALS**

**Key Word:** Biosciences

**Secondary Key Words:** Ecology, Maldives

**Title:** Maldivy: Ekologiya Raya (The Maldives)

**Brief Summary of Contents:** Looks at how the ancient, balanced, harmonious and self-reliant culture of the Maldivian islanders has been upset by tourism and modern consumer values and aspirations. Coral reefs have been weakened, exposing the island's vulnerable coastline.

**Language(s):** Ukrainian, Russian

**Intended User Level:** undergraduate university

**Provider or Producer:** Name: Director

Organization: Kievnauchfilm

Address: Kioto 27

Kiev 105

Country: Ukraine

**Telephone number:** 5138154 51307

**Telefax number:**

**Release Date:** 1988

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:**

**Rental Period:**

**Permission or License Required:**

**Hardware Specifications**

Format:

Sound:

Length (minutes): 50

Colour:

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**C. FILM-BASED LEARNING MATERIALS**

**Key Word:** Biosciences

**Secondary Key Words:** Fauna and Flora, Cancer

**Title:** Nature Contre Nature (Nature Versus Nature)

**Brief Summary of Contents:** Collecting, identifying and storing samples of rare plant and animal species are carried out by researchers in New Caledonia. The tropical and marine flora and fauna of this Pacific area, endowed with exceptional biological characteristics, are studied in the CCNRS laboratories (in Nouméa and Gif-sur-Yvette) and in ORSTOM's laboratory (in Nouméa) with a view to identifying, separating, and analysing the natural molecules that can be used in the treatment of cancerous tumors. (Also available in video format. See Form B.)

**Language(s):** French

**Intended User Level:**

**Provider or Producer:** Name: Centre National de la Recherche Scientifique

Organization: CNRS Audiovisuel

Address: 1 Place Aristide Briand

92195 Meudon Cedex

Country: France

Telephone number: 33 45 34 75 50

Telefax number: 33 46 28 49

**Release Date:** 1988

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:**

**Rental Period:**

**Permission or License Required:**

**Hardware Specifications**

Format: 16mm

Sound: optical

Length (minutes): 38

Colour: yes

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**C. FILM-BASED LEARNING MATERIALS**

**Key Word:** Geosciences

**Secondary Key Words:** Rift, Geodynamics

**Title:** Djibouti, Naissance d'un Océan (Djibouti, Birth of an Ocean)

**Brief Summary of Contents:** Summary of ten years of studies and research carried out at the Arta Observatory, Republic of Djibuti, on the powerful geodynamism of the Assan Rift. Explains the volcano monitoring system and the processing of Argos PTT data. (Also available in video format. See Form B.)

**Language(s):** French

**Intended User Level:**

**Provider or Producer:** Name: Centre National de la Recherche Scientifique

Organization: CNRS Audiovisuel

Address: 1 Place Aristide Briand

92195 Meudon Cedex

Country: France

Telephone number: 33 45 34 75 50

Telefax number: 33 46 28 49

**Release Date:** 1986

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:**

**Rental Period:**

**Permission or License Required:**

**Hardware Specifications**

Format: 16mm

Sound: optical

Length (minutes): 37

Colour: yes

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**C. FILM-BASED LEARNING MATERIALS**

**Key Word:** Other—Pollution

**Secondary Key Words:** Mediterranean.

**Title:** Mare Nostrum

**Brief Summary of Contents:** The film describes the international problems of pollution in the Mediterranean Sea and introduces the UNEP program, international agreements, and techniques used to begin cleanup.

**Language(s):** English

**Intended User Level:** undergraduate university, advanced

**Provider or Producer: Name:** Director

**Organization:** United Nations Environment Programme

**Address:** United Nations Plaza

New York, NY 10017

**Country:** USA

**Telephone number:**

**Telefax number:**

**Release Date:**

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:**

**Rental Period:**

**Permission or License Required:**

**Hardware Specifications**

**Format:** 16 mm

**Sound:**

**Length (minutes):** 27 mins.

**Colour:** X

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**C. FILM-BASED LEARNING MATERIALS**

**Key Word:** Other—Pollution

**Secondary Key Words:** Toxic Compounds, Baltic Sea

**Title:** The Baltic Sea

**Brief Summary of Contents:** Focuses attention on the vulnerability of enclosed. Its message is that countries sharing the Baltic Sea should agree on a common programme op pollution control. (Also available in video format. See Form B.)

**Language(s):** English, Swedish, Danish

**Intended User Level:** undergraduate university

**Provider or Producer: Name:** Bo Landin

**Organization:** Scandinature Films

**Address:** P.O. Box 558

S 65169 Karlstad

**Country:** Sweden

**Telephone number:** 46 5410 0215

**Telefax number:** 46 5410 3303

**Release Date:** 1986

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:**

**Rental Period:**

**Permission or License Required:**

**Hardware Specifications**

**Format:** 16mm

**Sound:**

**Length (minutes):** 59

**Colour:**

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**C. FILM-BASED LEARNING MATERIALS**

**Key Word:** Technology

**Secondary Key Words:** Collecting Samples, Nets

**Title:** Engins de Prélèvements Océanographiques, 1ère partie (Oceanographic Sampling Equipment, Part 1)

**Brief Summary of Contents:** On board CNRS RVs, demonstration of typical benthic and planktonic sampling equipment: plankton nets, pelagic nets, dragnets, dredge-buckets, core samplers, pump dredgers. The sampling exercises are completed by a detailed description of technical characteristics and methods of operation of the equipment. (Also available in video format. See Form B.)

**Language(s):** French

**Intended User Level:** undergraduate university, advanced

**Provider or Producer:** Name: Centre National de la Recherche Scientifique

Organization: CNRS Audiovisuel

Address: 1 Place Aristide Briand

92195 Meudon Cedex

Country: France

Telephone number: 33 45 34 75 50

Telefax number: 33 46 28 49

**Release Date:** 1987

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:**

**Rental Period:**

**Permission or License Required:**

**Hardware Specifications**

Format: 16mm

Sound: optical

Length (minutes): 37

Colour: yes

#### **D. CD-ROM-BASED LEARNING MATERIAL INVENTORY**



## CD-ROM-BASED LEARNING MATERIAL INDICES

### KEY WORD

Biosciences . . . . .	219, 220
Geosciences . . . . .	221-225
Physics . . . . .	226-229

### COUNTRY INDEX

Norway . . . . .	220
Switzerland . . . . .	229
USA . . . . .	219, 221-228

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**D. CD-ROM-BASED LEARNING MATERIALS**

**Key Word:** Biosciences

**Secondary Key Words:** Aquatic Sciences, Fisheries

**Title:** Aquatic Sciences and Fisheries Abstracts

**Brief Summary of Contents:** Covers world literature on the science, technology and management of marine, brackish and freshwater environments. Produced in cooperation with four United Nations agencies and an international network of contributing research centers. CD-ROM covers 1987 to present.

**Language(s):** English and other languages

**Intended User Level:** undergraduate university, advanced

**Provider or Producer:** Name: Director

Organization: Compact Cambridge

Address: 7200 Wisconsin Avenue

Bethesda, Maryland 20814

Country: USA

**Telephone number:** 1 301 961-6700

**Telefax number:** 1 301 961-6720

**Release Date:**

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:** request price

**Rental Period:** annual subscription

**Permission or License Required:** yes

**Hardware Specifications**

Compatible drives:

Format: ISO 9660

Software: DOS

Peripherals: graphics card type:

Hard disc (Mb):

IBM or compatible computer: XT or higher

RAM memory required: 640 kb

Number of discs in programme:

Operating system: DOS level: MS or PC 3.1

Monitor & graphics card: CGA, HGC, EGA, VGA, Super VGA (VGA+), MGA

Will updates be provided: quarterly

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**D. CD-ROM-BASED LEARNING MATERIALS**

**Key Word:** Biosciences

**Secondary Key Words:** Taxonomy, Invertebrates

**Title:** Linnarus Protist

**Brief Summary of Contents:** A CD-ROM module for identification of the protists (algae and protozoa) and selected zooplankton of the northeast Atlantic, especially Scandinavian waters, and the entry of new taxonomic and ecological data.

**Language(s):** English

**Intended User Level:** undergraduate university, advanced

**Provider or Producer:** Name: Dr. F. Rey  
Organization: Institute of Marine Research  
Address: P.O. Box 1870  
N-5024 Bergen  
Country: Norway

**Telephone number:** 47 5 238500  
**Telefax number:** 47 5 238531

**Release Date:** 1991

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:** free

**Rental Period:**

**Permission or License Required:** none

**Hardware Specifications**

Compatible drives:

Format:

Software:

Peripherals: graphics card type:

Hard disc (Mb):

IBM or compatible computer: yes; Other computers: Macintosh, UNIX

RAM memory required:

Number of discs in programme:

Operating system: DOS level:

Monitor & graphics card:

Will updates be provided: yes, through ETI, Amsterdam

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**D. CD-ROM-BASED LEARNING MATERIALS**

**Key Word:** Geosciences

**Secondary Key Words:** Paleoceanography, Tectonics

**Title:** Deep Sea Drilling Project: Marine Geological and Geophysical Data, NGDC-03

**Brief Summary of Contents:** The DSDP CD-ROM data set contains the full suite of sediment, hard-rock, downhole logging, and underway geophysical data compite in digital form by the staff of teh DSDP. Select-retrieval software for PC-compatibles and Macintosh machines is included. A companion set, with expanded software capabilities is planned. The CD-ROM is subsidized by JOI/USSSP.

**Language(s):** English

**Intended User Level:** undergraduate university, advanced

**Provider or Producer: Name:** Carla J. Moore

**Organization:** National Geophysical Data Center

**Address:** E/GC3

325 Broadway

Boulder, Colorado 80303

**Country:** USA

**Telephone number:** 1 303 497-6339

**Telefax number:** 1 303 497-6513

**Release Date:** 1989

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:** free/US \$90

**Rental Period:**

**Permission or License Required:** optional US \$1 license for log analysis software .

**Hardware Specifications**

**Compatible drives:** all ISO 9660 compatible drives

**Format:** ISO 9660

**Software:** custom, developed at NGCD, no additional software required

**Peripherals:** graphics card type: any type

**Hard disc (Mb):** 10 recommended

**IBM or compatable computer:** XT, 80286,80386, 80486; Other computer: Macintosh

**RAM memory required:** 640 kb

**Number of discs in programme:** 2

**Operating system:** DOS level: ≥2.0

**Monitor & graphics card:** all types both monochrome and color

**Will updates be provided:** irregular, as needed

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**D. CD-ROM-BASED LEARNING MATERIALS**

**Key Word:** Geosciences

**Secondary Key Words:** Remote Sensing, Geophysics

**Title:** Earth and Space Sciences

**Brief Summary of Contents:** Three marine and eight other science activities using data sets, images and programs: 1) modeling coastal flooding, 2) interpreting salinity/temperature data, 3) sea-floor features (plus ozone, earthquakes, Antarctica, etc.)

**Language(s):** English

**Intended User Level:** secondary school

**Provider or Producer: Name:** Director

**Organization:** Joint Education Initiative

**Address:** Office of Technology Liaison

University of Maryland

4312 Knox Road

College Park, Maryland 20742

**Country:** USA

**Telephone number:** 1 301 405-4209

**Telefax number:** 1 301 314-9871

**Release Date:** 1990

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:**

**Rental Period:**

**Permission or License Required:** yes, individual

**Hardware Specifications**

**Compatible drives:** CD-ROM drive

**Format:** ISO 9660

**Software:** Microsoft Extensions ≥2.0

**Peripherals:** graphics card type:

**Hard disc (Mb):**

**IBM or compatible computer:** 80286 or higher; **Other:** Macintosh, 2Mb RAM, Software system 6.0.5, Hypercard

**RAM memory required:** 640 kb

**Number of discs in programme:** 3

**Operating system:** DOS level: ≥3.1

**Monitor & graphics card:** EGA, VGA, VGA Extended (recommended)

**Will updates be provided:** yes

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**D. CD-ROM-BASED LEARNING MATERIALS**

**Key Word:** Geosciences

**Secondary Key Words:** Geophysics, Digital

**Title:** GEODAS CD-ROM

**Brief Summary of Contents:** The GEOPhysical Data System (GEODAS) includes 12.8 million nautical miles of bathymetry, magnetics, gravity, and seismic reflection profiles worldwide.

**Language(s):** English

**Intended User Level:** undergraduate university, advanced

**Provider or Producer:** Name: Dan R. Metzger

Organization: National Geophysical Data Center

Address: NOAA, E/GC4, Dept. 890

325 Broadway

Boulder, Colorado 80303-3328

Country: USA

Telephone number: 1 303 497 6338

Telefax number: 1 303 497 6513

**Release Date:** 1992

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:** US \$200 (product no. 129F27001)

**Rental Period:**

**Permission or License Required:**

**Hardware Specifications**

Compatible drives:

Format: ISO 9660

Software: custom

Peripherals: graphics card type: Hard disc (Mb): 29 for inventories; 4 Gb for entire data set

IBM or compatible computer: AT type (286) or higher

RAM memory required: 640 kb

Number of discs in programme: 2 CD-ROM; 1 floppy

Operating system: DOS level: 2.10 or later

Monitor & graphics card: EGA, VGA

Will updates be provided:

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**D. CD-ROM-BASED LEARNING MATERIALS**

**Key Word:** Geosciences

**Secondary Key Words:** Tectonics, Bathymetry

**Title:** GLORIA - East Coast

**Brief Summary of Contents:** Two CD-ROMS containing multiple mosaic images of GLORIA surveys. Software for PC only.

**Language(s):** English

**Intended User Level:**

**Provider or Producer:** Name: Dr. Peter W. Sloss  
Organization: National Geophysical Data Center  
Address: E/GC3  
325 Broadway  
Boulder, Colorado 80303  
Country: USA

**Telephone number:** 1 303 320-6119  
**Telefax number:** 1 303 497-6513

**Release Date:**

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:** US \$100

**Rental Period:**

**Permission or License Required:**

**Hardware Specifications**

**Compatible drives:**

**Format:** ISO 9660

**Software:** CD-ROM discs

**Peripherals:** graphics card type:

**Hard disc (Mb):**

**IBM or compatible computer:** XT, 8206, 8306, 8406; Other computer: Macintosh II

**RAM memory required:** 640 kb

**Number of discs in programme:** 2

**Operating system:** DOS level:

**Monitor & graphics card:** CGA, HGC, EGA, VGA

**Will updates be provided:** no

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**D. CD-ROM-BASED LEARNING MATERIALS**

**Key Word:** Geosciences

**Secondary Key Words:** Tectonics, Bathymetry

**Title:** GLORIA - Sidescan Sonar Data (Gulf of Mexico), NGDC-04

**Brief Summary of Contents:** Raw trackline survey data (PK-ARC compressed files), and 8-bit monochrome mosaic images. Software for PC only on separate floppy.

**Language(s):** English

**Intended User Level:** undergraduate university, advanced

**Provider or Producer:** Name: Dr. Peter W. Sloss

Organization: National Geophysical Data Center

Address: E/GC3

325 Broadway

Boulder, Colorado 80303

Country: USA

**Telephone number:** 1 303 320-6119

**Telefax number:** 1 303 497-6513

**Release Date:**

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:** US \$45

**Rental Period:**

**Permission or License Required:**

**Hardware Specifications**

Compatible drives: All but NEC CD-ROM

Format: High Sierra

Software: MS-DOS, CD-ROM Extensions, version 2.0

Peripherals: graphics card type: Orchid

Hard disc (Mb):

IBM or compatible computer: XT, 8026, 8036, 8046; Other computer: Macintosh II

RAM memory required: 640 kb

Number of discs in programme: 1

Operating system: DOS level: ≥2.0

Monitor & graphics card: CGA, HBC, EGA, VGA

Will updates be provided: no



**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**D. CD-ROM-BASED LEARNING MATERIALS**

**Key Word:** Physics

**Secondary Key Words:** Sea Ice, Satellite

**Title:** DMSP SSM/I Ice Concentration Grids for the Polar Regions

**Brief Summary of Contents:** Ice concentration grids (25km) calculated from SSM/I brightness temperatures, using NASA Team and J.C. Comiso ice algorithms.

**Language(s):** English

**Intended User Level:** undergraduate university, advanced

**Provider or Producer:** Name: Claire Hanson

Organization: World Data Center-A for Glaciology

Address: National Snow and Ice Center

Cooperative Institute for Research in Environmental Sciences

Box 449

University of Colorado

Boulder, Colorado 80309

Country: USA

Telephone number: 1 303 492-1834

Telefax number: 1 303 492-2468

**Release Date:**

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:** on request

**Rental Period:**

**Permission or License Required:** none

**Hardware Specifications**

Compatible drives:

Format: ISO 9660

Software: producer-developed

Peripherals: graphics card type:

Hard disc (Mb):

IBM or compatible computer: 80286, 80386, 80486

RAM memory required: 640 kb

Number of discs in programme:

Operating system: DOS level: 3.3

Monitor & graphics card: EGA, VGA

Will updates be provided: quarterly

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**D. CD-ROM-BASED LEARNING MATERIALS**

**Key Word:** Physics

**Secondary Key Words:** Sea Ice, Satellite

**Title:** DMSP SSM/I Brightness Temperature - Polar Regions, Volumes 1-12 and continuing

**Brief Summary of Contents:** Passive microwave brightness temperatures for north and south polar regions, gridded to daily 12.5 and 25 km grids. Primary use is to determine sea ice extent and concentration.

**Language(s):** English

**Intended User Level:** undergraduate university, advanced

**Provider or Producer: Name:** Claire Hanson

**Organization:** World Data Center-A for Glaciology

**Address:** National Snow and Ice Data Center

Cooperative Institute for Research in Environmental Sciences

Box 449

University of Colorado

Boulder, Colorado 80309

**Country:** USA

**Telephone number:** 1 303 492-1834

**Telefax number:** 1 303 492-2468

**Release Date:**

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:** on request

**Rental Period:**

**Permission or License Required:** none

**Hardware Specifications**

**Compatible drives:**

**Format:** ISO 9660

**Software:** producer-developed

**Peripherals:** graphics card type:

**Hard disc (Mb):** 20

**IBM or compatible computer:** 80286, 80386, 80486

**RAM memory required:** 640 kb

**Number of discs in programme:**

**Operating system:** DOS level: 3.3

**Monitor & graphics card:** EGA, VGA, Math co-processor recommended

**Will updates be provided:** quarterly

**UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY**

**D. CD-ROM-BASED LEARNING MATERIALS**

**Key Word:** Physics

**Secondary Key Words:** Sea Ice, Satellite

**Title:** NIMBUS-7 SMR Polar Radiances and Sea Ice Concentration, Volume 1-12

**Brief Summary of Contents:** Passive microwave brightness temperatures and sea ice concentration for north and south polar regions, gridded to 3-day average 25 km grids. Discs are produced by NASA/Goddard Space Flight Center, Oceans and Ice Branch.

**Language(s):** English

**Intended User Level:** undergraduate university, advanced

**Provider or Producer:** Name: Claire Hanson

Organization: World Data Center-A for Glaciology

Address: National Snow and Ice Center

Cooperative Institute for Research in Environmental Sciences

Box 449

University of Colorado

Boulder, Colorado 80309

Country: USA

Telephone number: 1 303 492-1834

Telefax number: 1 303 492-2468

**Release Date:**

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:** on request

**Rental Period:**

**Permission or License Required:** none

**Hardware Specifications**

Compatible drives:

Format: ISO 9660

Software: producer-developed

Peripherals: graphics card type:

Hard disc (Mb): 20

IBM or compatible computer: 80286, 80386, 80486

RAM memory required: 640 kb

Number of discs in programme:

Operating system: DOS level: 3.3

Monitor & graphics card: EGA, VGA, Math co-processor recommended

Will updates be provided: none

# UNESCO INVENTORY OF INNOVATIVE LEARNING MATERIALS IN MARINE SCIENCE AND TECHNOLOGY

## D. CD-ROM-BASED LEARNING MATERIALS

**Key Word:** Physics

**Secondary Key Words:** Climate, Ocean/Atmosphere System

**Title:** Tropical Ocean Global Atmosphere (TOGA) Meteorological Oceanographic Data Sets for 1985 and 1986

**Brief Summary of Contents:** The TOGA CD-ROM contains both selected observations and selected numerical model results from 1985 and 1986, i.e. tropical ship surface and sub-surface data, global drifting buoy data, Tropical Pacific sea level, moored current meter, moored temperature and island data, global surface meteorological and sea surface temperature fields.

**Language(s):**

**Intended User Level:** secondary school, undergraduate university

**Provider or Producer:** Name: Director

Organization: International TOGA Project Office

Address: World Meteorological Organization

41 Guisepppe-Motta, P.O. Box 2300

CH-1211 Geneva 2

Country: Switzerland

Telephone number: 41 22 7308 430

Telefax number: 41 22 7342 376

**Release Date:**

**Planned Future Release Date:**

**ISBN Number:**

**Rental Price:**

**Sale Price:** free

**Rental Period:**

**Permission or License Required:**

### Hardware Specifications

Compatible drives: driver for MicroVax, IBM PC compatible, Apple Macintosh and SUN systems for the ISO 9660 standard

Format: ISO 9660

Software: MS DOS extensions (version 2.0 or higher)

Peripherals: graphics card type:

Hard disc (Mb): ≥2

IBM or compatible computer: XT; Other computer: Macintosh II

RAM memory required: 640 kb

Number of discs in programme:

Operating system: DOS level: ≥2.0

Monitor & graphics card: EGA

Will updates be provided: yes, autumn 1992 updates and new data sets

## UNESCO REPORTS IN MARINE SCIENCE

*Cont'd on inside of back cover*  
*Cont'd from inside of front cover*

No.	Year	No.	Year
45	1987	53	1990
Marine science teaching and training at first degree (undergraduate) level. Recommended guidelines from a UNESCO workshop on university curricula, Paris, November 1986. Available in Arabic, Chinese, English, French, Russian and Spanish		Physical oceanography of the Eastern Mediterranean (POEM): The intercalibrated POEM data set and the emerging picture of the circulation, POEM Scientific Workshop, Trieste, Italy, 31 May-4 June 1988. English only	
46	1987	54	1990
Comparison between Atlantic and Pacific tropical marine coastal ecosystems: community structure, ecological processes, and productivity. Results and scientific papers of a UNESCO/COMAR workshop, University of the South Pacific, Suva, Fiji, 24-29 March 1986. English only		Relative sea-level change: a critical evaluation. UNESCO (COMAR) Working Group on Mean Sea-Level Rise and its Influence on the Coastal Zone. English only	
47	1987	55	1991
Temperate coastal systems of Latin America. Report on meeting on COSALC Pilot Project No. VII, November 1986. Spanish only		Physical oceanography of the Eastern Mediterranean (POEM): The new phenomenology of the Eastern Mediterranean. POEM Scientific Workshop, Cambridge, Massachusetts, USA, 29 May-2 June 1989. English only	
48	1988	56	1992
Coastal marine ecosystems of Africa. Objectives and strategy of the COMARAF Regional Project. English only		Geological and geophysical investigations in the Mediterranean and Black Seas. Initial results of the 'Training through Research' Cruise of RV Gelendzhik in the Eastern Mediterranean and the Black Sea (June-July 1991). English only	
49	1988	57	1992
Eutrophication in the Mediterranean sea: receiving capacity and monitoring of long-term effects. Report and proceedings of a Scientific Workshop, Bologna, Italy, 2 to 6 March 1987. Sponsored by: UNESCO, FAO, UNEP, Regione Emilia Romagna and University of Bologna. English only		Physical oceanography of the Eastern Mediterranean (POEM): The scientific plan for the second phase of POEM. Fourth POEM Scientific Workshop, Venice, Italy, August-September 1990. English only	
50	1988	58	1993
Marine Geology of the West African shelf zone. Available in English and Russian		Geological development of the Sicilian-Tunisian Platform. Proceedings of the International Scientific Meeting held at the University of Urbino, Italy, 4-6 November 1992. English only	
51	1988	59	1993
Physical oceanography of the Eastern Mediterranean (POEM): Programme for 1988/89. English only		Artificial radioactivity of the Black Sea. English only	
52	1988		1993
Year 2000 challenges for marine science training and education worldwide. Available in Arabic, Chinese, English, French, Russian and Spanish			

## UNESCO REPORTS IN MARINE SCIENCE

### Title of numbers which are out of stock

No.	Year	No.	Year
1	1977	16	1981
Marine ecosystem modelling in the Eastern Mediterranean. Report of a UNESCO workshop held in Alexandria, Egypt, December 1974. English only		Marine and coastal processes in the Pacific: ecological aspects of coastal zone management. Report of a UNESCO seminar held at Motupore Island Research Centre, University of Papua New Guinea, 14-17 July 1980.	
2	1977	17	1981
Marine ecosystem modelling in the Mediterranean. Report of the Second UNESCO Workshop on Marine Ecosystem Modelling. English only		The coastal ecosystems of West Africa: coastal lagoons, estuaries and mangroves. A workshop report, Dakar, 11-15 June 1979.	
3	1979	18	1982
Benthic ecology and sedimentation of the south Atlantic continental platform. Report of the seminar organized by UNESCO in Montevideo, Uruguay, 9-12 May 1978.		Coral reef management in Asia and the Pacific: some research and training priorities. Report of a UNESCO workshop held in Manila, Philippines, 21-22 May 1981. English only.	
7	1979	19	1982
Coastal ecosystems of the Southern Mediterranean: lagoons, deltas and salt marshes. Report of a meeting of experts, Tunis, 25-27 September 1978.		Mareas rojas en el Plancton del Pacífico Oriental. Informe del Segundo Taller del Programa de Plancton del Pacífico Oriental, Instituto del Mar Callao, Perú, 19-20 de noviembre de 1981. Spanish only	
11	1981	27	1984
Programa de Plancton para el Pacífico Oriental. Informe final del Seminario Taller realizado en el Instituto del Mar del Perú. El Callao, Perú, 8-11 de septiembre de 1980.		Productivity and processes in island marine ecosystems. Recommendations and scientific papers from the UNESCO/IOC sessions on marine science co-operation in the Pacific, at the XVth Pacific Science Congress, Dunedin, New Zealand, February 1983. English only	
12	1981		
Geología y geoquímica del margen continental del Atlántico Sudoccidental. Informe final del Taller de Trabajo organizado por la UNESCO en Montevideo, Uruguay, 2-4 de diciembre de 1980.			
13	1981		
Seminario Latinoamericano sobre Enseñanza de la Oceanografía. Informe final del Seminario organizado por la UNESCO en São Paulo, Brasil, 17-20 de noviembre de 1978.			