

Tuscaloosa Trend Regional Data Search and Synthesis Study

User's Guide to the Tuscaloosa Trend Bibliographic Data Base

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User's Guide to the Tuscaloosa Trend Bibliographic Data Base

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INTRODUCTION

The purpose of the Tuscaloosa Trend Regional Data Search and Synthesis study was to survey the information describing the physical, chemical, geological, biological and socioeconomic processes important in the Trend ecosystem. Based on this information, a synthesis report was prepared and gaps in the available information were identified to help direct future data collection efforts. A wide variety of information was acquired and reviewed during the study including journal articles, books, reports, conference proceedings, theses, dissertations, and data sets. In order to effectively catalog this information, a computerized bibliographic data base was created. This guide describes the protocols employed in implementing the data base and provides some additional information which will help others utilize the data base.

IDENTIFICATION OF RELEVANT CITATIONS

Relevant literature and data sets were initially identified through searches of commercial computerized bibliographic data bases. Table 1 lists the data bases searched together with a brief discussion of their contents. Typically these data bases contain a bibliographic citation, various keywords and descriptors, and in many cases an abstract. The data bases were searched using an interactive query language which allowed a user to define the geographic, temporal, and subject area of interest. Search strategies were developed for each data base by reviewing the vendor's documentation and controlled vocabulary list. Appropriate geographic and subject descriptors were chosen from the controlled vocabulary list, and these terms were combined with the logical operators AND, OR, and NOT to selectively retrieve those citations of interest to the study area.

The citations and abstracts retrieved from the computerized searches were reviewed and those documents relevant to the study area were acquired from federal, state, and academic libraries. The library catalogs were also reviewed to locate other pertinent literature which was not listed in the computerized data bases. The computerized searches and library visits were supplemented by personal contacts with federal, state and academic researchers working in the northeastern Gulf of Mexico. The library visits and personal

Table 1. Computerized bibliographic data bases searched.

Database	Temporal Coverage	Description
Biosis Previews	1969 - 1983	Comprehensive worldwide coverage of biological literature. Includes over 9000 primary journals as well as reviews, symposia, selected government and institutional reports, research communications and other secondary sources.
Coastal Information Depository, Louisiana State University		Index of the literature holdings of researchers at the Center for Wetland Resources, Louisiana State University.
DOE Energy	1974 - 1983	Comprehensive coverage of all aspects of energy and related topics.
Life Sciences Collection	1978 - 1983	Worldwide coverage of applied ecology.
National Technical Information Service	1964 - 1983	Coverage of government funded research, development and engineering reports that are publically available from approximately 250 federal agencies.
National Environmental Data Referral Service	1974 - 1983	Comprehensive index of climatological, meteorological, geological, geophysical, oceanographic, geographic, hydrologic, and limnological data.
National Marine Pollution Information System	1980 - 1982	Catalog of federally funded marine pollution research programs.
Oceanic Abstracts	1964 - 1983	Worldwide coverage of oceanography, marine biology, marine pollution, ships and shipping, geology and geophysics, meteorology, and legal and governmental aspects of marine resources.
SSIE Current Research	1978 - 1982	Index of governmental and privately funded scientific research programs.

contacts were especially useful in identifying dissertations, theses, data sets, and unpublished "gray literature" pertinent to the study area.

IMPLEMENTATION OF THE COMPUTERIZED BIBLIOGRAPHIC DATA BASE

To ensure the uniformity and integrity of the data base, a standard format indexing vocabulary were employed. A two-sided form was used to record citations and annotations for entry into the data base. Figure 1a illustrates the side used for the citations while Figure 1b shows the side used for the abstracts. The format described in the third edition of the Council of Biology Editors (CBE) Style Manual (Council of Biology Editors 1972) was used in recording the citations unless otherwise noted. The following paragraphs describe each of the citation parts and provide additional information on the protocols used.

Accession Number. The accession number is a five digit number which uniquely identifies each citation. When a document was acquired, the reviewer consulted a list of accession numbers, assigned the next available number to the document, and crossed the number off the list. The number was written on the cover or title page of the document and on the citation form (Figure 1a).

Author(s). All author names are reported with the surname first followed by a comma and the initials of the first and middle names. A semicolon is used as a delimiter for the field. In the case of joint authorship, each name follows the single author format and the authors are separated by a semicolon. This differs from the CBE format, but provides uniformity when searching the data base for specific authors. Many reports published by committees, government agencies or other organizations do not list the authors of the report. In these cases, the organization, editor, or chairperson was used as the author.

Year. For an article, the year shown in the journal was used as the year of publication. For a book, the year on the title page was used, or if no date was given there, the latest copyright date on the reverse side of the title page was used. The year field is ended with a period.

Title. The wording, spelling and punctuation of the title were copied as they appeared on the document. Only the first word and proper nouns in the title were capitalized and the field ended with a period.

LITERATURE CITATION FORM

ACCESSION CODE: _____

AUTHOR(S): _____

YEAR: _____

TITLE: _____

PUBLISHER: _____

GEOGRAPHIC DESCRIPTORS: _____

SUBJECT DESCRIPTORS: _____

CITATION: _____

ANNOTATION: _____

RECEIVED: _____

RECEIVED: _____

KEYPUNCHED: _____

KEYPUNCHED: _____

PROOFED: _____

PROOFED: _____

COMMENTS:

Figure 1a. Citation recording form.

Publisher. Scientific journals were abbreviated in accordance with standard bibliographic practices. If there no abbreviation existed, the word was spelled out. Single word journal names such as Phytopathology were not abbreviated. The volume number of a periodical was expressed in arabic numerals even if the original volume numbers were roman numerals. Inclusive page numbers followed the volume number with a colon separating the volume and page numbers. For a book, the name and city of the publisher were listed, separated by a comma and ended with a period. The total number of pages in the book followed next, and the field ended with a period.

Geographic and Subject Descriptors. Descriptors are words assigned to a document to reflect the content of the item indexed. The retrievability of citations depends on the proper selection of descriptors. Two classes of descriptors were used in the data base. Geographic descriptors specify the location(s) considered in the document, while the subject descriptors index the major topics discussed. Both of these descriptor types were stored in the same field.

In order to ensure consistency and compatibility in indexing the literature, a controlled vocabulary was developed. The Oceanic Abstracts vocabulary list was used wherever possible (Data Courier Inc. 1980). A list of the geographic and subject descriptors are included as Appendix A and B respectively. A total of ten to fifteen descriptors were assigned to each document. Only proper names were capitalized in the descriptor field. The descriptors were separated by a semicolon and the field was ended with a semicolon. Three to five geographic terms were used with balance devoted to subject indexing. The geographic descriptors were hierarchical and included state names together with specific habitat and hydrologic terms. Descriptors assigned by the publisher were used if these descriptors appeared in the controlled vocabulary list. If the publisher assigned descriptors were not found in the controlled vocabulary, the reviewer attempted to find suitable synonyms in the list. If this failed, new words were added to the controlled vocabulary. In those cases where no descriptors were provided by the publisher, descriptors were assigned based on a review of the article, document, or data set and entered into the controlled vocabulary list where necessary. Appendix C lists the descriptors present in the data base together with the frequency of their occurrence.

Abstract. For those documents deemed especially pertinent to the Trend area, the reviewer prepared an abstract which concisely summarized the content of the document. Each abstract generally consisted of four elements; (1) subject and scope, (2) method, (3) results and (4) conclusions and was recorded on the second side of the citation form (Figure 1b). Existing abstracts supplied by the publisher were used wherever possible. In this case, a photocopy of the abstract was attached to the form.

DATA BASE STRUCTURE

The original contract specified that the data base and associated software was to be installed on an Amdahl Model 470 computer. With the dramatic increase in the power of microcomputers, the contractor decided to implement the data base on a microcomputer. Since the microcomputer hardware and software had not been selected, the contractor requested that only the data base be submitted in the Famulus format (described below).

UWRIM (Erickson 1982) was initially chosen as the software to manage the software on the contractor mainframe. This software was originally developed by NASA for the space shuttle program and is presently available from the University of Washington for a nominal fee. The UWRIM package requires a mainframe or minicomputer for operation, and is best suited to a timesharing operating system. When the contractor requested that only the data base was to be submitted, we changed from UWRIM to the DRS data management software (Advanced Data Management 1980). This change was done for two reasons. First, DRS is more powerful than UWRIM in managing bibliographic data bases. By using DRS, we were able to increase the size and coverage of the data base instead of writing and debugging programs to manage the data base. Second, the supplier of DRS provides extensive documentation and user assistance. since the University of Washington is not a commercial software vendor, UWRIM is not extensively documented or supported.

The bibliographic data base has been output in the Famulus format (Pacific Southwest Forest and Range Experiment Station 1971). In this format each citation is divided into several fields, and each field is identified with a unique label. A list of the field labels used in this data base is given in Table 2. The Famulus format requires that the fields appear in the same order

Table 2. Famulus field identifiers.

<u>Field Identifier</u>	<u>Description</u>
AC	Accession code
AU	Author(s)
YR	Year of publication
TI	Title
PU	Publisher
DE	Geographic and subject descriptors
AB	Abstract

within each citation. Each record may be up to 80 characters in length. The field label appears in columns 1 through 4 and the field begins in column 6. If it is necessary to continue a field onto another record, the field begins in either column 6 or column 7. If the last word of the preceding record ends in column 80, then the next record is started in column 7. However, if last word would extend past column 80, the word is split and the remainder begins in column 6 of the subsequent record. Also if column 80 is a blank, the continuation record begins in column 6.

REFERENCES

- Advanced Data Management. 1980. DRS command reference manual. Advanced Data Management, Kingston, NJ.
- Council of Biology Editors, Committee on Form and Style. 1972. CBE style manual. Third edition. American Institute of Biological Sciences, Washington, DC.
- Data Courier Inc. 1980. Oceanic Abstracts user guide. Data Courier, Inc., Louisville, KY.
- Erickson, W.J. 1982. UWRIM reference manual. UWRIM/N510. Academic Computer Center, University of Washington, Seattle, WA.
- Pacific Southwest Forest and Range Experiment Station. 1971. Famulus: a personal documentation system users' guide. U.S. Department of Agriculture, Berkley, CA.

Appendix A

Oceanic Abstracts Geographic Descriptors

CONTROLLED VOCABULARY

Alphabetical by Geographic Terms

KEY: sn = scope note u = use uf = use for rt = related term

Aden
u Peoples Democratic Republic of Yemen

Adriatic Sea

Aegean Sea

Africa

Africa Coast
sn Used before 1976 and after 1979

Africa East Coast

Africa North Coast

Africa South Coast

Africa West Coast

Ago Bay
sn Used from 1980 forward

Agulhas Bank

Agulhas Current

Alabama

Alabama Coast

Alaska

Alaska Coast

Alaska Current

Albania
sn Used from 1976 forward

Albania Coast
sn Used from 1978 forward

Alboran Sea

Aldabra Atoll

Aleutian Basin
sn Used from 1970 forward

Aleutian Current
sn Used from 1977 forward
uf Subarctic Current

Aleutian Islands

Aleutian Ridge

Aleutian Trench

Algeciras Bay
sn Used from 1980 forward

Algeria

Algeria Coast

Amundsen Sea

Anacapa Islands
sn Used from 1973 forward

Andaman Basin

Andaman Islands

Andaman Sea

Angola
sn Used from 1974 forward

Angola Coast

Antarctic
sn Used only before 1973
sn Use compound terms below

Antarctic Circumpolar Current

Antarctic Convergence

Antarctic Ocean
sn Used only before 1973

Antarctic waters

Antarctic West Wind Drift
sn Used from 1978 forward
uf West Wind Drift

Antarctica

Antarctica Coast
sn Used from 1973 forward

Antilles Current

Antipodes Islands

Antipodes Scarp
sn Used from 1980 forward

Arabian Gulf

Arabian Sea

Arafura Sea

Aral Sea

Arcachon Basin

Arcachon Bay

Arctic
sn Used only before 1973
sn Use compound terms below

Arctic Archipelago
uf Arctic Canada after 1972
uf Baffin Island
rt Canada North Coast

Arctic Basin

Arctic Canada
sn Used only before 1973
u Arctic Archipelago
u Canada North Coast

Arctic Ocean

Arctic Ridge

Arctic waters

Argentina

Argentina Coast

Argentine Basin

Ariake Sea

Arlington Reef
sn Used from 1980 forward

Arlpma Deep

Asia
uf Southeast Asia after 1967

Asia East Coast
sn Used from 1973 forward

Asia North Coast
sn Used from 1975 forward

Asia South Coast
sn Used from 1973 forward

Asia West Coast
sn Used from 1980 forward

Atlantic Coast
sn Used only before 1975

Atlantic Coastal Plain

Atlantic Equatorial Undercurrent

Atlantic Ocean

Atlantic Ocean East

Atlantic Ocean Equatorial
sn Used from 1968 forward
uf Equatorial Atlantic Ocean after 1967

Atlantic Ocean North
uf North Atlantic Ocean after 1975

Atlantic Ocean Northeast
sn Used from 1974 forward
uf Northeast Atlantic Ocean after 1967

Atlantic Ocean Northwest
sn Used from 1971 forward
uf Northwest Atlantic Ocean after 1967

Atlantic Ocean South
sn Used from 1968 forward
uf South Atlantic Ocean after 1967

Atlantic Ocean Southeast
sn Used from 1974 forward

Atlantic Ocean Southwest
sn Used from 1974 forward
uf Southwest Atlantic Ocean after 1967

Atlantic Ocean Subtropical

Atlantic Ocean Tropical
sn Used from 1968 forward
uf Tropical Atlantic Ocean after 1967

Atlantic Ocean West
sn Used from 1968 forward
uf West Atlantic Ocean after 1968
uf Western Atlantic Ocean after 1964

Atlantis Deep

Atlantis II Deep

Austral Islands
sn Used only before 1971
u Tubuai Islands

Australasia waters

Australia
rt New South Wales
rt Queensland
rt South Australia
rt Victoria
rt Western Australia

Australia Coast
sn Used before 1977 and after 1979

Australia East Coast

Australia North Coast

Australia South Coast

Australia waters
sn Used before 1972 and after 1979

Australia West Coast

Azores

Azores Coast
sn Used from 1974 forward

Azov Sea
sn Used only before 1966
u Sea of Azov

Controlled Vocabulary

- Baffin Bay**
- Baffin Island**
 - u Arctic Archipelago
- Bahama Banks**
- Bahama Islands**
- Bahama waters**
- Bahamas**
 - sn Used only before 1973
- Baja California**
- Baja California Coast**
- Baker Island**
- Balearic Islands**
- Balearic Sea**
 - sn Used from 1974 forward
- Baltic Sea**
- Banda Sea**
- Bangladesh**
 - sn Used from 1976 forward
- Bangladesh Coast**
 - sn Used from 1975 forward
- Bantry Bay**
- Banyuls-sur-Mer**
 - sn Used only before 1968
 - u France Coast
- Barbados**
- Barbados Coast**
- Barbados Ridge**
- Barents Sea**
- Bass Strait**
- Bay of Angles**
- Bay of Bengal**
- Bay of Biscay**
- Bay of Cannes**
- Bay of Fundy**
- Bay of Monaco**
- Bay of Naples**
- Bay of Natal**
- Bay of Nhatrang**
- Bay of Plenty**
- Bay of Santos**
 - sn Used from 1972 forward
- Bay of Seine**
- Beaufort Sea**
- Belgium**
- Belgium Coast**
- Belize**
 - sn Used from 1980 forward
 - uf British Honduras
- Belize Coast**
 - sn Used from 1980 forward
 - uf British Honduras Coast
- Belle Isle Strait**
- Bellingham Bay**
- Bellingshausen Basin**
- Bellingshausen Sea**
- Benguela Current**
- Benin**
 - sn Used from 1980 forward
 - uf Dahomey
- Benin Coast**
 - sn Used from 1980 forward
 - uf Dahomey Coast
- Bering Sea**
- Bering Strait**
- Bermuda**
 - sn Used only before 1973
- Bermuda Islands**
- Bermuda Rise**
- Bermuda waters**
- Bight of Biafra**
- Bikini Atoll**
- Bimini**
- Bimini Coast**
- Biscayne Bay**
- Bismark Sea**
- Black Island**
 - sn Used from 1970 forward
- Black Sea**
- Blackwater Estuary**
 - sn Used from 1971 forward
- Blake Plateau**
- Boca Ciega Bay**
- Bolsa Island**
- Bombay**
 - sn Used from 1979 forward
- Bombay Coast**
- Bombay Harbor**
- Brazil**
 - sn Use with period for full 1973 set
- Brazil Coast**
- Brazil Current**
- Bristol Bay**
- British Columbia**
- British Columbia Coast**
 - uf British Columbia waters after 1972
- British Columbia waters**
 - sn Used only before 1973
- British Guiana**
 - sn Used 1976-79
 - u Guyana
- British Guiana Coast**
 - u Guyana Coast
- British Honduras**
 - u Belize
- British Honduras Coast**
 - u Belize Coast
- British Isles**
 - rt Great Britain
 - rt United Kingdom
- British waters**
 - sn Used only before 1973
- Bulgaria**
- Bulgaria Coast**
 - sn Used from 1978 forward
- Burma**
- Burma Coast**
- Buzzards Bay**
- Cabot Fault Zone**
- Cabot Strait**
- California**
- California Coast**
 - uf San Diego after 1972
- California Current**
- Cambodia**
 - u Kampuchea
- Cambodia Coast**
 - u Kampuchea Coast
- Cameroon**
 - sn Used from 1980 forward
 - uf Cameroun
- Cameroon Coast**
 - sn Used from 1980 forward
 - uf Cameroun Coast
- Cameroun**
 - sn Used 1976-79
 - u Cameroon
- Cameroon Coast**
 - u Cameroon Coast
- Canada**
- Canada Coast**
- Canada East Coast**
- Canada North Coast**
 - uf Arctic Canada after 1972
 - rt Arctic Archipelago
- Canada West Coast**
- Canaries Current**
 - sn Used from 1974 forward
- Canary Islands**
- Cantabria Seamount**
- Canton Island**
- Cape Agulhas**
- Cape Cod**
- Cape Hatteras**
- Cape Horn Current**
 - sn Used from 1980 forward
- Cape of Good Hope**
- Cape Verde Islands**
- Cape Verde Plateau**
 - sn Used from 1980 forward
- Cape Verde Rise**
- Cardigan Bay**
- Caribbean Current**
 - sn Used from 1980 forward
- Caribbean Sea**
 - uf Caribbean waters after 1972
- Caribbean waters**
 - sn Used only before 1973
 - u Caribbean Sea
- Caroline Islands**
- Caspian Sea**
- Celebes Sea**
- Celtic Sea**
- Central America**
- Central America East Coast**
 - sn Used from 1974 forward
- Central America West Coast**
- Central Pacific Ocean**
 - sn Used before 1968
 - u Pacific Ocean Central
- Ceram Sea**
 - sn Used from 1980 forward
- Ceylon**
 - sn Used before 1972
 - u Sri Lanka
- Ceylon Coast**
 - sn Used before 1974
 - u Sri Lanka Coast
- Chagos Islands**
- Chain Deep**
- Chain Fracture Zone**
- Channel Islands**
- Chao Phraya Estuary**

Controlled Vocabulary

- sn Used from 1980 forward
- Chatham Islands**
- Chesapeake Bay**
- Chile**
- Chile Coast**
- Chiloe Island**
 - sn Used from 1980 forward
- China**
 - sn Used only before 1978
- China Coast**
- China Sea**
 - rt East China Sea
 - rt South China Sea
- China, People's Republic of**
 - sn Used 1975-79
 - u Peoples Republic of China after 1979
 - u Republic of China for Taiwan
- Chuckchee Sea**
 - sn Used from 1974 forward
- Chukchi Sea**
 - u Chuckchee Sea
- Circum-Pacific Zone**
- Circumpolar Current**
 - rt Currents
- Circumpolar water**
- Clipperton Island**
- Cobb Seamount**
 - sn Used only before 1973
 - u Seamounts
- Cocos Islands**
- Colombia**
- Colombia Coast**
- Columbia River**
- Columbia River Estuary**
- Congo Republic**
 - sn Used from 1980 forward
- Congo Republic Coast**
 - sn Used from 1975 forward
- Connecticut**
- Connecticut Coast**
- Cook Inlet**
- Cook Islands**
- Cook Strait**
- Coral Sea**
- Corpus Christi Bay**
- Corsica**
- Corsica Coast**
- Costa Rica**
- Costa Rica Coast**
- Crib Island**
- Cromwell Current**
- Crozet Island**
 - sn Used from 1975 forward
- Cuba**
- Cuba Coast**
- Curacao**
- Cyprus**
- Dahomey**
 - sn Used 1976-79
 - u Benin
- Dahomey Coast**
 - u Benin Coast
- Davis Sea**
- Davis Strait**
- Dead Sea**
- Delaware**
 - sn Used from 1971 forward
- Delaware Bay**
- Delaware Coast**
- Democratic Peoples Republic of Korea**
 - sn Used from 1980 forward
 - uf North Korea
- Democratic Peoples Republic of Korea Coast**
 - sn Used from 1980 forward
 - uf North Korea Coast
- Denmark**
- Denmark Coast**
- Denmark Strait**
- Discovery Bay**
- Dominican Republic**
 - sn Used from 1978 forward
- Dominican Republic Coast**
 - sn Used from 1973 forward
- Drake Passage**
- Drobak Sound**
- Dubai**
- Dubai Coast**
 - sn Used from 1973 forward
- Durban Bay**
- East Africa Rift System**
- East Anglia**
- East Australian Current**
- East China Sea**
 - rt China Sea
- East Greenland Current**
- East Pacific Rise**
- East Tropical Pacific Ocean**
 - sn Used only before 1968
- Easter Island**
- Eastern Pacific Ocean**
 - sn Used only before 1969
 - u Pacific Ocean East
- Ecuador**
- Ecuador Coast**
- Egypt**
- Egypt Coast**
- El Nino**
- El Pilar Fault**
 - sn Used from 1980 forward
- El Salvador**
 - sn Used from 1970 forward
- El Salvador Coast**
 - sn Used from 1974 forward
- Elbe Estuary**
- Elbe River**
 - sn Used only before 1968
- Eleuthera Ridge**
- Ems Estuary**
- England**
 - rt United Kingdom
- England Coast**
 - uf England East Coast after 1967
 - uf England South Coast after 1970
- England East Coast**
 - sn Used only before 1970
 - u England Coast
- England South Coast**
 - sn Used only before 1971
- u England Coast**
- English Channel**
- Eniwetok Atoll**
- Eniwetok Lagoon**
 - sn Used from 1971 forward
- Equator**
- Equatorial**
 - sn Used only before 1973
 - sn Use compound terms below
- Equatorial Atlantic Ocean**
 - sn Used only before 1968
 - u Atlantic Ocean Equatorial
- Equatorial Countercurrent**
- Equatorial currents**
 - rt Currents
- Equatorial Guinea**
 - sn Used from 1980 forward
 - uf Rio Muni
- Equatorial Guinea Coast**
 - sn Used from 1980 forward
 - uf Rio Muni Coast
- Equatorial undercurrents**
 - sn Used only before 1973
 - sn Also use singular before 1970
- Equatorial waters**
- Ethiopia**
- Ethiopia Coast**
- Europe**
- Europe North Coast**
 - sn Used from 1975 forward
- Europe South Coast**
 - sn Used from 1980 forward
- Europe West Coast**
- European waters**
- Exuma Sound**
- Faeroe Shetland Channel**
 - sn Used from 1975 forward
- Faeroes**
 - sn Used from 1973 forward
 - uf Faeroe Islands after 1972
- Falkland Current**
- Falkland Islands**
- False Bay**
- Fanning Island**
- Far Eastern seas**
- Farallon Islands**
- Farnsworth Lantern**
- Faeroe Islands**
 - sn Used only before 1973
 - u Faeroes
- Federal Republic of Germany**
 - uf Germany after 1972
 - rt German Democratic Republic
- Federal Republic of Germany Coast**
 - sn Used from 1974 forward
 - uf Germany Coast after 1972
 - rt German Democratic Republic Coast
- Fehmarn Belt**
- Fernando Poo Island**
- Fiji Islands**
- Fiji Sea**
- Finland**
- Finland Coast**
- Firth of Clyde**

Controlled Vocabulary

- Firth of Forth** •
Flank Crater
sn Used from 1980 forward
- Fletchers Ice Island**
Flores Sea
sn Used from 1977 forward
- Florida**
Florida Coast
Florida Current
Florida Keys
Formosa
u Republic of China
Formosa Coast
u Republic of China Coast
- Foveaux Strait**
France
sn Use with period for full 1973 set
France Coast
uf France Northwest Coast after 1970
uf France South Coast after 1971
uf France Southwest Coast after 1970
uf Roscoff Coast after 1972
- France Northwest Coast**
sn Used only before 1971
u France Coast
- France South Coast**
sn Used only before 1972
u France Coast
- France Southwest Coast**
sn Used only before 1971
u France Coast
- Franz Josef Island**
Freen Deep
sn Used from 1980 forward
- French Guiana**
sn Used from 1976 forward
French Guiana Coast
sn Used from 1973 forward
- Frobisher Bay**
Fuertaventura Island
Gabon
Gabon Coast
Galapagos Islands
Galapagos Rift Zone
Gambia
sn Used from 1980 forward
Gambia Coast
Gdansk Bay
Georges Bank
Georges Basin
sn Used from 1977 forward
- Georgia**
Georgia Coast
German Bight
German Democratic Republic
uf Germany after 1972
rt Federal Republic of Germany
German Democratic Republic Coast
uf Germany Coast after 1972
rt Federal Republic of Germany Coast
- Germany**
sn Used only before 1973
u Federal Republic of Germany
u German Democratic Republic
- Germany Coast**
sn Used only before 1973
u Federal Republic of Germany Coast
u German Democratic Republic Coast
- Ghana**
Ghana Coast
Gilbert Islands
Gondwanaland
Gotland Deep
Gotoh Island
Gough Island
Grand Bahama Canyon
sn Used from 1980 forward
- Grand Banks**
Great Australian Bight
Great Bank
Great Barrier Reef
Great Belt
sn Used from 1973 forward
- Great Britain**
rt British Isles
rt United Kingdom
- Great Britain Coast**
Great Britain waters
sn Used only before 1972
- Great Lakes**
Great North Bay
sn Used from 1980 forward
- Greece**
Greece Coast
Greenland
Greenland Coast
Greenland Sea
Guadalquivir Delta
Guadalupe Island
Guam
Guatemala
Guatemala Coast
sn Used from 1975 forward
- Guiana Current**
Guinea
sn Used from 1980 forward
uf Portuguese Guinea
Guinea-Bissau Coast
sn Used from 1980 forward
uf Portuguese Guinea Coast
- Gulf Basin**
Gulf Coast
Gulf of Aden
Gulf of Alaska
Gulf of Aqaba
Gulf of Bothnia
Gulf of Cadiz
Gulf of California
Gulf of Carpentaria
Gulf of Darien
Gulf of Finland
Gulf of Gascony
Gulf of Guayaquil
Gulf of Guinea
Gulf of Honduras
- Gulf of Kutch**
• **Gulf of La Spezia**
Gulf of Lion
sn Used only before 1980
u Gulf of Lions
Gulf of Lions
sn Used from 1980 forward
- Gulf of Maine**
Gulf of Mannar
Gulf of Marseille
sn Also use Gulf of Marseilles before 1972
- Gulf of Mexico**
Gulf of Naples
Gulf of Oman
Gulf of Panama
Gulf of Riga
Gulf of Siam
Gulf of St. Lawrence
Gulf of St. Tropez
Gulf of Suez
Gulf of Tadjura
Gulf of Taranto
Gulf of Tatory
Gulf of Thailand
Gulf of the Breton Cape
Gulf of Tonkin
Gulf of Trieste
Gulf of Tunis
Gulf of Venice
Gulf Stream
- Guyana**
sn Used from 1980 forward
uf British Guiana
- Guyana Coast**
sn Used from 1980 forward
uf British Guiana Coast
- Haiti**
sn Used from 1970 forward
Haiti Coast
sn Used from 1977 forward
- Hardangerfjord**
Hauraki Gulf
Hawaii
uf Hawaiian Islands after 1975
Hawaii Coast
uf Hawaiian Island waters after 1968
uf Hawaiian waters after 1972
- Hawaiian Arch**
Hawaiian Archipelago
Hawaiian Island waters
sn Used only before 1968
u Hawaii Coast
- Hawaiian Islands**
sn Used only before 1976
u Hawaii
- Hawaiian Ridge**
Hawaiian Trough
sn Used from 1974 forward
- Hawaiian waters**
sn Used only before 1973
u Hawaii Coast
- Helgoland**
Hokkaido

Controlled Vocabulary

- Hokkaido Coast**
- Honduras**
 sn Used from 1976 forward
- Honduras Coast**
 sn Used from 1973 forward
- Hong Kong**
- Hong Kong Coast**
- Honshu Coast**
- Howland Island**
- Hudson Bay**
- Hudson River**
- Hudson Strait**
- Humber Estuary**
- Iceland**
- Iceland Coast**
 uf Iceland waters after 1971
- Iceland waters**
 sn Used only before 1972
 u Iceland Coast
- Iles-de-la-Madeleine**
 uf Magdalen Islands
- India**
- India Coast**
 uf India East Coast after 1971
 uf India South Coast after 1967
 uf India Southeast Coast after 1970
 uf India Southwest Coast after 1970
 uf India waters after 1967
 uf India West Coast after 1971
 uf Madras Coast after 1971
- India East Coast**
 sn Used only before 1971
 u India Coast
- India South Coast**
 sn Used only before 1968
 u India Coast
- India Southeast Coast**
 sn Used only before 1971
 u India Coast
- India Southwest Coast**
 sn Used only before 1971
 u India Coast
- India waters**
 sn Used only before 1968
 u India Coast
- India West Coast**
 sn Used only before 1972
 u India Coast
- Indian Ocean**
- Indian Ocean East**
- Indian Ocean North**
- Indian Ocean Northeast**
 sn Used from 1970 forward
- Indian Ocean Northwest**
 sn Used from 1970 forward
- Indian Ocean South**
 sn Used from 1972 forward
 uf South Indian Ocean after 1967
- Indian Ocean Southeast**
 sn Used from 1970 forward
- Indian Ocean Southwest**
 sn Used from 1974 forward
- Indian Ocean West**
 uf West Indian Ocean after 1967
- Indo-Pacific Region**
- Indonesia**
- Indonesia Coast**
 uf Indonesia waters after 1969
- Indonesia waters**
 sn Used only before 1970
 u Indonesia Coast
- Inhaca Island**
- Intertropical Convergence Zone**
 rt Convergence zones
- Ionian Sea**
- Iran**
- Iran Coast**
 sn Used from 1974 forward
- Iraq**
- Iraq Coast**
 sn Used from 1975 forward
- Ireland**
 uf Republic of Ireland
- Ireland Coast**
 uf Republic of Ireland Coast
- Irian Jaya**
 sn Used from 1980 forward
 uf New Guinea (in part)
- Irian Jaya Coast**
 sn Used from 1980 forward
- Irish Sea**
- Irminger Current**
- Irminger Sea**
- Isle of Anglesey**
- Isle of Man**
 rt United Kingdom
- Israel**
- Israel Coast**
- Italy**
- Italy Coast**
- Ivory Coast**
 sn Use with period for full set
- Jade Bay**
- Jamaica**
- Jamaica Coast**
- Jan Mayen waters**
- Japan**
 sn Use with period for full set
- Japan Coast**
 uf Japan East Coast after 1967
 uf Japan South Coast after 1968
 uf Japan waters after 1971
- Japan East Coast**
 sn Used only before 1968
 u Japan Coast
- Japan Sea**
 sn Used only before 1976
 u Sea of Japan
- Japan South Coast**
 sn Used only before 1969
 u Japan Coast
- Japan waters**
 sn Used only before 1972
 u Japan Coast
 u Sea of Japan
- Java Sea**
- Java Trench**
- Jervis Inlet**
- Juan de Fuca Ridge**
- Juan de Fuca Submarine Canyon**
- Jutland Coast**
- Kamchatka Coast**
- Kampuchea**
 sn Used from 1980 forward
 uf Cambodia
 uf Khmer
- Kampuchea Coast**
 sn Used from 1980 forward
 uf Cambodia Coast
 uf Khmer Coast
- Kandalaksha Bay**
- Kara Sea**
- Kattegat**
- Kenya**
 sn Used from 1976 forward
- Kenya Coast**
- Kerguelen Islands**
- Kerguelen Ridge**
- Kermadec Arc**
- Kermadec Islands**
- Khmer**
 u Kampuchea
- Khmer Coast**
 u Kampuchea Coast
- Kiel Bay**
- Kiel Fjord**
- Kii Strait**
- Kodiak Island**
- Korea**
 sn Used only before 1975
- Korea Coast**
 sn Used only before 1976
- Korea Strait**
- Korea waters**
 sn Used only before 1970
- Kuril Islands**
 sn Also use Kurile Islands before 1971
- Kuril-Kamchatka Arc**
- Kuril-Kamchatka Islands**
 sn Used from 1971 forward
- Kuril-Kamchatka Trench**
- Kuroshio**
 uf Tsushima Current
- Kuroshio Current**
 sn Used only before 1975
- Kuroshio variations**
- Kuroshio-Oyashio front**
 rt Fronts
- Kuwait**
- Kuwait Coast**
 sn Used from 1975 forward
- Kyushu Coast**
- La Jolla Canyon**
- La Jolla Submarine Fan Valley**
- La Palu Bay**
- La Perouse Bank**
- Labrador**
 sn Used only before 1973
- Labrador Current**
- Labrador Sea**
- Lagos Lagoon**
- Laguna de Terminos**

Controlled Vocabulary

- Laguna Madre**
- Langeland Belt**
 - sn Used from 1976 forward
- Langenwerder Island**
- Laptev Sea**
- Latin America**
 - sn Used before 1977 and after 1979
 - sn See also individual countries
- Latvia**
- Laurentian Highlands**
 - sn Used from 1980 forward
- Lebanon**
 - sn Used from 1976 forward
- Lebanon Coast**
- Lesser Antilles**
- Lesser Antilles Island Arc**
- Levant Sea**
- Liberia**
 - sn Used from 1970 forward
- Liberia Coast**
 - sn Used from 1971 forward
- Libya**
- Libya Coast**
- Ligurian Sea**
- Line Islands**
 - rt Islands
 - rt Pacific Islands
- Little Belt**
- Lomonosov Current**
- Lomonosov Deep Countercurrent**
- Long Beach**
- Long Island**
- Long Island Coast**
- Long Island Sound**
 - sn Used only before 1972
- Lord Howe Island**
- Lord Howe Rise**
- Louisiana**
- Louisiana Coast**
- Macquarie Island**
- Macquarie Ridge**
- Madagascar**
- Madagascar Coast**
- Madeira Islands**
- Madras Coast**
 - sn Used only before 1972
 - u India Coast
- Magdalen Islands**
 - u Iles-de-la-Madeleine
- Maine**
- Maine Coast**
- Makai Range**
- Makran Coast**
- Malay Coast**
 - sn Used only before 1972
- Malay Peninsula**
- Malaysia**
- Malaysia Coast**
- Maldiv Islands**
- Malta**
- Malta Coast**
- Manitoba**
- Manitoba Coast**
 - sn Used from 1980 forward
- Marlborough Sound**
 - sn Used from 1973 forward
- Marquesas Islands**
- Marshall Islands**
- Maryland**
- Maryland Coast**
- Massachusetts**
- Massachusetts Coast**
- Mauritania**
- Mauritania Coast**
- McMurdo Ice Shelf**
- McMurdo Sound**
 - sn Also use Mc Murdo Sound before 1972
- McMurdo Station**
- Mediterranean Basin**
- Mediterranean Coast**
- Mediterranean Sea**
 - sn Use with period for full set
 - uf Mediterranean Sea East after 1971
 - uf Mediterranean Sea West after 1971
- Mediterranean Sea East**
 - sn Used only before 1972
 - u Mediterranean Sea
- Mediterranean Sea West**
 - sn Used only before 1972
 - u Mediterranean Sea
- Mekong Delta**
- Melanesia**
- Menai Straits**
- Mexico**
- Mexico Coast**
 - sn Used only before 1973
- Mexico East Coast**
- Mexico West Coast**
- Michigan**
- Micronesia**
- Mid-Atlantic Ocean**
- Mid-Atlantic Ridge**
- Middle America Trench**
- Midway Island**
- Milford Haven Estuary**
- Milford Sound**
 - sn Used only before 1976
 - u New Zealand Coast
- Mindanao Current**
- Mississippi**
- Mississippi Coast**
- Mississippi Delta**
- Mississippi Sound**
- Monaco**
- Monterey Bay**
- Morecambe Bay**
- Morocco**
- Morocco Coast**
- Mozambique**
- Mozambique Channel**
- Mozambique Coast**
- Mozambique Current**
- Muggia Bay**
- Murray Fracture Zone**
- Mururoa Atoll**
- Mustang Island**
- Mutsu Bay**
- Namibia**
 - sn Used from 1980 forward
 - uf South-West Africa
- Namibia Coast**
 - sn Used from 1980 forward
 - uf South-West Africa Coast
- Nares Strait**
- Narragansett Bay**
- Nassau**
- Near East**
- Netherlands**
- Netherlands Coast**
- New Britain**
- New Brunswick**
- New Brunswick Coast**
- New Caledonia**
- New England**
- New England Coast**
- New Guinea**
 - sn Used only before 1980
 - u Irian Jaya
 - u Papua New Guinea
- New Guinea Coast**
 - sn Used only before 1980
 - u Irian Jaya Coast
 - u Papua New Guinea Coast
- New Hampshire**
- New Hampshire Coast**
 - sn Used from 1973 forward
- New Hebrides**
- New Jersey**
- New Jersey Coast**
- New South Wales**
- New South Wales Coast**
- New York**
- New York Bight**
- New York Coast**
- New York Harbor**
 - sn Used only before 1973
- New Zealand**
- New Zealand Coast**
 - uf Milford Sound after 1966
 - uf New Zealand waters after 1967
- New Zealand waters**
 - sn Used only before 1968
 - u New Zealand Coast
- Newfoundland**
- Newfoundland Coast**
 - uf Newfoundland waters after 1967
- Newfoundland waters**
 - sn Used only before 1968
 - u Newfoundland Coast
- Nicaragua**
- Nicaragua Coast**
 - sn Used from 1976 forward
- Nicaragua Rise**
 - sn Used from 1980 forward
- Nicobar Islands**
 - sn Used from 1970 forward
- Niger Delta**
 - sn Used from 1980 forward
- Nigeria**
- Nigeria Coast**
- Niue Island**

Controlled Vocabulary

- Nordkapp Current** •
Norfolk Coast
Norfolk Island
Norfolk Ridge
North America
North America Coast
sn Used only before 1972
North America East Coast
North America West Coast
North Atlantic Current
North Atlantic Ocean
sn Used only before 1976
u Atlantic Ocean North
North Carolina
North Carolina Coast
North Equatorial Current
North Korea
sn Used 1970-79
u Democratic Peoples Republic of Korea
North Korea Coast
u Democratic Peoples Republic of Korea Coast
North Pacific Current
North Pacific Ocean
sn Used only before 1976
u Pacific Ocean North
North Sea
sn Use with period for full set
North Sea Basin
sn Used from 1970 forward
North Sea Canal
Northeast Atlantic Current
sn Used from 1980 forward
Northeast Atlantic Ocean
sn Used only before 1968
u Atlantic Ocean Northeast
Northeast Monsoon Current
sn Used from 1980 forward
Northeast Pacific Ocean
sn Used only before 1968
u Pacific Ocean Northeast
Northern Hemisphere
Northern Ireland
sn Used from 1980 forward
rt United Kingdom
Northern Ireland Coast
sn Used from 1980 forward
Northland Coast
sn Used from 1980 forward
Northumberland
Northumberland Coast
Northumberland Strait
Northwest Atlantic Ocean
sn Used only before 1968
u Atlantic Ocean Northwest
Northwest Passage
Northwest Territories
sn Used from 1975 forward
Northwest Territories Coast
sn Used from 1973 forward
Norw
Norway Coast
uf Norway waters after 1969
Norway waters
sn Used only before 1970
u Norway Coast
Norwegian Basin
Norwegian Current
Norwegian Sea
Nova Scotia
Nova Scotia Banks
Nova Scotia Coast
Okhotsk Sea
sn Used only before 1975
u Sea of Okhotsk
Okinawa
Oman
sn Used from 1975 forward
Oman Coast
Ontario
sn Used from 1975 forward
Ontario Coast
sn Used from 1973 forward
Oregon
Oregon Coast
Oresund
Oslo Fjord
Otsuchi Bay
sn Used from 1980 forward
Oyashio
Pacific Antarctic Ridge
Pacific Basin
Pacific Coast
sn Used only before 1973
Pacific Equatorial Undercurrent
Pacific Islands
rt Islands
rt Line Islands
Pacific Ocean
Pacific Ocean Central
uf Central Pacific Ocean after 1967
Pacific Ocean East
uf Eastern Pacific Ocean after 1968
Pacific Ocean Equatorial
Pacific Ocean Intertropical
Pacific Ocean North
uf North Pacific Ocean after 1967
Pacific Ocean Northeast
sn Used from 1974 forward
uf Northeast Pacific Ocean after 1967
Pacific Ocean Northwest
sn Used from 1974 forward
Pacific Ocean South
uf South Pacific Ocean after 1967
Pacific Ocean Southeast
sn Used from 1974 forward
Pacific Ocean Southwest
sn Used from 1974 forward
uf Southwest Pacific Ocean after 1967
Pacific Ocean Subtropical
sn Used from 1972 forward
Pacific Ocean Tropical
uf Tropical Pacific Ocean after 1968
Pacific Ocean West
uf West Pacific Ocean after 1968
Pakistan
Pakistan Coast
Panama
Panama Bight
Panama Canal
Panama Coast
Papua
sn Used only before 1980
u Papua New Guinea
Papua New Guinea
sn Used from 1980 forward
uf New Guinea (in part)
Papua New Guinea Coast
sn Used from 1980 forward
Peoples Democratic Republic of Yemen
sn Used from 1980 forward
uf Aden
Peoples Democratic Republic of Yemen Coast
sn Used from 1980 forward
Peoples Republic of China
sn Used from 1980 forward
uf China, People's Republ
Persian Gulf
Peru
Peru Coast
Peru Current
Peru Trench
sn Used from 1973 forward
Philippine Islands
sn Used only before 1973
u Philippines
Philippine Sea
Philippine Trench
Philippines
uf Philippine Islands after 1972
Philippines Coast
sn Used from 1973 forward
Poland
sn Use with period for full set
Poland Coast
Polar
sn Use compound terms below
sn Used before 1968
Polar front
rt Fronts
Polar ocean
Polar regions
Polar wandering
Polar waters
sn Used from 1972 forward
Polynesia
Port of Gages
Port of Hull
Port of Liverpool
Port of London
Port of Manchester
Port of New York
Porto Belo Cove
Porto Novo
sn Used from 1970 forward
Portugal
Portugal Coast
Portugal Current
sn Used from 1980 forward
Portuguese Guinea
u Guinea-Bissau
Portuguese Guinea Coast

Controlled Vocabulary

- u Guinea-Bissau Coast
- Possiet Gulf
- Pribilof Islands
- Prince Edward Island
- Prince Edward Island Coast
 - sn Used from 1973 forward
- Prudhoe Bay
 - sn Used from 1970 forward
- Puerto Rico
- Puerto Rico Coast
- Puerto Rico Trench
- Puget Sound
- Qatar
 - sn Used from 1977 forward
- Qatar Coast
 - sn Used from 1977 forward
- Quebec
- Quebec Coast
 - sn Used from 1974 forward
- Queen Charlotte Islands
- Queen Charlotte Sound
- Queen Elizabeth Islands
- Queensland
- Queensland Coast
- Razades Islands
 - sn Used from 1980 forward
- Red Sea
- Republic of China
 - sn Used from 1980 forward
 - uf Formosa
 - uf Taiwan
- Republic of China Coast
 - sn Used from 1980 forward
 - uf Formosa Coast
 - uf Taiwan Coast
- Republic of Ireland
 - u Ireland
- Republic of Ireland Coast
 - u Ireland Coast
- Republic of Korea
 - sn Used from 1980 forward
 - uf South Korea
- Republic of Korea Coast
 - sn Used from 1980 forward
 - uf South Korea Coast
- Reunion Coast
- Reunion Island
- Reykjanes Peninsula
- Reykjanes Ridge
- Reykjavik Ridge
- Rhode Island
- Rhode Island Coast
- Rhode Island Sound
- Rhone Delta
- Rhone Estuary
- Rio Grande Rise
 - sn Used from 1973 forward
- Rio Muni
 - u Equatorial Guinea
- Rio Muni Coast
 - u Equatorial Guinea Coast
- Romanche Fracture Zone
- Romania
 - sn Used from 1971 forward
- Romania Coast
 - sn Used from 1973 forward
 - uf Rumania Coast after 1972
- Roscoff Coast
 - sn Used only before 1973
 - u France Coast
- Ross Sea
- Rumania Coast
 - sn Used only before 1973
 - u Romania Coast
- Saanich Inlet
- Sado Island
- Sagami Bay
- Sahul Shelf
- Saimaa Canal
- Saint Brides Bay
 - sn Used from 1980 forward
- Saint Helena
- Saint Ives Bay
 - sn Used from 1980 forward
- Saint Lawrence Estuary
 - sn Used from 1973 forward
 - uf St. Lawrence Estuary after 1972
- Saint Lawrence River
 - sn Used from 1973 forward
 - uf St. Lawrence River after 1972
- Saint Lucie Estuary
 - sn Used from 1975 forward
- Saint Tropez Canyon
 - sn Used from 1977 forward
- Sakhalin
- Sakhalin Coast
- Samoa
- San Andreas Fault
- San Clemente Island
- San Diego
 - sn Used only before 1973
 - u California Coast
- San Diego Bay
- San Diego Trough
- San Francisco Bay
- San Juan Archipelago
- San Juan Seamount
- Sandy Hook Bay
- Santa Barbara Basin
- Santa Barbara Channel
- Santa Catalina Island
- Santa Cruz Island
- Sao Sebastiano Channel
 - sn Used from 1976 forward
- Sapelo Island
- Sarawak
 - sn Used from 1971 forward
- Sardinia
- Sardinia Coast
 - sn Used from 1974 forward
- Sargasso Sea
- Saudi Arabia
- Saudi Arabia Coast
 - sn Used from 1974 forward
- Scammons Lagoon
- Schlei Fjord
- Scilly Isles
- Scotia Sea
- Scotian Shelf
 - sn Used before 1973 and after 1979
- Scotland
- Scotland Coast
- Sea of Azov
 - uf Azov Sea after 1965
- Sea of Japan
- Sea of Norway
 - sn Used from 1980 forward
- Sea of Okhotsk
 - uf Okhotsk Sea after 1974
- Senegal
 - sn Used from 1976 forward
- Senegal Coast
- Seribu Islands
- Seto Inland Sea
 - sn Used before 1968 and after 1979
 - sn Use Seto Sea 1968-72
- Sevastopol Bay
- Seychelles Archipelago
- Seychelles Coast
- Shatsky Rise
- Shetland
 - sn Used from 1970 forward
- Shetland Coast
 - sn Used from 1973 forward
- Shinnecock Lock
- Siberia
- Sicily
- Sicily Coast
- Sierra Leone
- Sierra Leone Coast
 - sn Used from 1974 forward
- Sierra Leone Rise
 - sn Used from 1973 forward
- Singapore
- Skagerrak
- Skagerrak Deep
- Skidaway Island
- Skye Island
 - sn Used from 1970 forward
- Slupsk Furrow
- Society Islands
- Solander Trough
- Solomon Islands
- Solomon Sea
- Somali Current
- Somalia
 - sn Used from 1980 forward
- Somalia Coast
 - sn Used from 1973 forward
 - sn Use Somali Coast before 1973
- South Africa
- South Africa Coast
- South America
 - uf Latin America 1976-79
- South America Coast
 - sn Used only before 1973
- South America East Coast
- South America North Coast
 - sn Used from 1972 forward
- South America South Coast
 - sn Used from 1976 forward
- South America West Coast

Controlled Vocabulary

- South Atlantic Current**
sn Used from 1980 forward
- South Atlantic Ocean**
sn Used only before 1968
u Atlantic Ocean South
- South Australia**
sn Used from 1977 forward
rt Australia
- South Australia Coast**
- South Carolina**
- South Carolina Coast**
- South China Sea**
rt China Sea
- South Equatorial Current**
- South Indian Ocean**
sn Used only before 1968
u Indian Ocean South
- South Korea**
sn Used 1973-79
u Republic of Korea
- South Korea Coast**
u Republic of Korea Coast
- South Pacific Ocean**
sn Used only before 1968
u Pacific Ocean South
- South-West Africa**
sn Used 1973-79
u Namibia
- South-West Africa Coast**
sn Used 1973-79
u Namibia Coast
- Southeast Asia**
sn Used before 1972 and after 1979
rt Asia
- Southern Bight**
- Southern Hemisphere**
- Southern Ocean**
- Southern Seas**
- Southwest Atlantic Ocean**
sn Used only before 1968
u Atlantic Ocean Southwest
- Southwest Monsoon Current**
sn Used from 1980 forward
- Southwest Pacific Ocean**
sn Used only before 1968
u Pacific Ocean Southwest
- Spain**
- Spain Coast**
- Spanish Sahara**
sn Used from 1980 forward
uf Western Sahara
- Spanish Sahara Coast**
sn Used from 1977 forward
uf Western Sahara Coast
- Sri Lanka**
sn Used from 1976 forward
uf Ceylon after 1971
- Sri Lanka Coast**
sn Used from 1976 forward
uf Ceylon Coast after 1973
- St. Lawrence Estuary**
sn Used only before 1973
u Saint Lawrence Estuary
- St. Lawrence River**
sn Used only before 1977
u Saint Lawrence River
- Strait of Dover**
- Strait of Georgia**
- Strait of Gibraltar**
- Strait of Juan de Fuca**
- Strait of Magellan**
- Strait of Malacca**
- Strait of Messina**
- Strait of Tiran**
- Straits of Florida**
- Subantarctic**
sn Used only before 1973
- Subarctic**
sn Used only before 1973
- Subarctic Current**
u Aleutian Current
- Subtropical convergence**
- Subtropics**
- Sudan**
sn Used from 1976 forward
- Sudan Coast**
- Suez Canal**
- Sumatra-Java Trench**
- Sunda Strait**
- Surinam**
sn Used from 1974 forward
- Surinam Coast**
- Surtsey**
- Suruga Bay**
- Svalbard**
sn Used from 1974 forward
- Swan Estuary**
- Sweden**
sn Use with period for full set
- Sweden Coast**
uf Sweden West Coast after 1969
- Sweden West Coast**
sn Used only before 1970
u Sweden Coast
- Syria**
- Syria Coast**
- Tahiti**
- Taiwan**
u Republic of China
- Taiwan Coast**
u Republic of China Coast
- Taiwan Strait**
- Tampa Bay**
- Tampico Bank**
sn Used from 1980 forward
- Tanzania**
- Tanzania Coast**
sn Used from 1973 forward
- Tasman Sea**
- Tasmania**
- Tasmania Coast**
- Tateyama Bay**
- Texas**
- Texas Coast**
- Texas Gulf Coast**
sn Used only before 1973
- Thailand**
- Thailand Coast**
- Thames Estuary**
- Timor Sea**
- Tobago**
- Togo**
sn Used from 1973 forward
- Togo Coast**
- Tokyo Bay**
- Tomales Bay**
- Tonga**
- Tonga Arcs**
- Tonga Islands**
- Tonga Trench**
- Tonkin Bay**
- Trinidad**
- Tropical Atlantic Ocean**
sn Used only before 1968
u Atlantic Ocean Tropical
- Tropical ocean**
- Tropical Pacific Ocean**
sn Used only before 1969
u Pacific Ocean Tropical
- Tropical regions**
uf Tropics after 1972
- Tropical waters**
- Tropics**
sn Used only before 1973
u Tropical regions
- Trucial Oman**
u United Arab Emirates
- Trucial Oman Coast**
u United Arab Emirates Coast
- Tsugaru Straits**
- Tsushima current**
u Kuroshio
- Tuamotu Islands**
- Tubuai Islands**
sn Used from 1974 forward
uf Austral Islands after 1970
- Tunisia**
- Tunisia Coast**
sn Used from 1974 forward
- Turkey**
- Turkey Coast**
- Tyrrhenian Sea**
- United Arab Emirates**
sn Used from 1980 forward
uf Trucial Oman
- United Arab Emirates Coast**
sn Used from 1980 forward
uf Trucial Oman Coast
- Uruguay**
sn Used from 1971 forward
- Uruguay Coast**
- US**
sn See U.S. 1964-67
sn Use with period for full set
- US Coast**
sn Used from 1973 forward
sn Use plural before 1973
- US East Coast**
sn Use U.S. East Coast 1965-66
uf U.S. Northeast Coast after 1967
uf U.S. Southeast Coast after 1968
- US West Coast**

Controlled Vocabulary

sn Use with period fog full set

USSR

sn Use with period for full set

USSR Coast

Vancouver Island

Vellar Estuary

sn Used from 1974 forward

Venezuela

Venezuela Coast

Victoria

sn Used from 1973 forward

Victoria Coast

Vietnam

Vietnam Coast

Vigo Bay

Villefranche-sur-Mer

Virgin Islands

Virginia

Virginia Coast

Wadden Sea

Wake Island

Wales

Wales Coast

Walvis Ridge

Wanganella Bank

Washington Coast

uf Washington State Coast after 1971

Washington State

Washington State Coast

sn Used only before 1971

u Washington Coast

Weddell Current

sn Used from 1976 forward

Weddell Sea

Weser Estuary

West Australian Current

sn Used from 1975 forward

West Greenland Current

West Indies

West Spitsbergen Current

sn Used from 1976 forward

West Wind Drift

u Antarctic West Wind Drift

Western Australia

sn Used from 1975 forward

rt Australia

Western Australia Coast

sn Used from 1974 forward

Western Sahara

u Spanish Sahara

Western Sahara Coast

u Spanish Sahara Coast

White Sea

Wilmington Submarine Canyon

sn Used from 1971 forward

sn Also use plural before 1973

Yellow Sea

Yemen

sn Used 1976-79

u Peoples Democratic Republic of Yemen

u Yemen Arab Republic

Yemen Arab Republic

sn Used from 1980 forward

Yemen Arab Republic Coast

sn Used from 1980 forward

Yemen Coast

u Peoples Democratic Republic of Yemen

Coast

u Yemen Arab Republic Coast

Yermak Strait

Yucatan Channel

Yucatan Current

Yucatan Shelf

Yucatan Strait

Yugoslavia

Yugoslavia Coast

Yukon Territory

sn Used from 1980 forward

Yukon Territory Coast

sn Used from 1980 forward

Zaire

sn Used from 1976 forward

Zaire Coast

sn Used from 1980 forward

Appendix B

Oceanic Abstracts Subject Descriptors

CONTROLLED VOCABULARY

Alphabetical by Subject Terms

KEY: **sn** = scope note **u** = use **uf** = use for **rt** = related term

- Abalones**
 sn Used only before mid-1980
 u Gastropoda
- Abdomens**
 sn Used from 1973 forward
- Abrasion**
 uf Abrasives
 rt Corrosion
- Abrasives**
 u Abrasion
- Absorption**
 rt Adsorption
 rt Light absorption
 rt Sound Absorption
- Absorption spectra**
 sn Used before 1973 and after 1979
- Absorption spectroscopy**
 sn Used from 1973 forward
 rt Spectroscopy
- Abstract collections**
 sn Used from 1973 forward
 sn Used for document type
- Abundance**
 sn Used from 1973 forward
- Abyssal**
 sn Used only before 1968
 sn Use compound terms below
- Abyssal fauna**
 sn Used only before mid-1980
 u Abyssal organisms
- Abyssal flora**
 u Abyssal organisms
- Abyssal hills**
- Abyssal organisms**
 sn Used from 1975 forward
 uf Abyssal fauna after mid-1980
 uf Abyssal flora after mid-1980
 rt Fauna
 rt Flora
- Abyssal plains**
- Abyssal zones**
 sn Used from 1973 forward
- Acanthocephala**
 sn Used from 1971 forward
 uf Spiny-headed worms
- Acanthuridae**
 sn Used from mid-1980 forward
 uf Surgeonfish
 uf Tangs
 rt Osteichthyes
- Acceleration**
- Accidents**
 rt Collisions
- rt Underwater accidents
- Acclimation**
 rt Adaptation
- Acclimatization**
 rt Adaptation
- Accretion**
 rt Sediment accretion
- Accumulators**
- Acidity**
 sn Used from 1974 forward
- Acids**
 sn Used from 1973 forward
 rt Alginic acids
 rt Amino acids
 rt Carboxylic acids
 rt Fatty acids
 rt Nucleic acids
- Acipenseridae**
 sn Used from mid-1980 forward
 uf Sturgeons after mid-1980
 rt Osteichthyes
- Acora worms**
 u Hemichordata
- Acoustic analogs**
 sn Used only before 1973
 u Acoustic models
- Acoustic arrays**
 sn Used only before 1977
 u Arrays
- Acoustic attenuation**
 sn Used 1967-72 and 1978-79
 u Sound attenuation
- Acoustic backscattering**
 sn Used only before 1970
 u Backscattering
- Acoustic baffles**
 u Baffles
- Acoustic data**
- Acoustic devices**
- Acoustic energy**
- Acoustic field**
 sn Used only before 1972
 u Sound fields
- Acoustic holography**
 sn Used only before 1972
 u Holography
- Acoustic homing**
 u Homing
- Acoustic images**
 sn Used from 1973 forward
- Acoustic impedance**
- Acoustic lenses**
- Acoustic locating**
- Acoustic measurements**
- Acoustic models**
 sn Used from 1973 forward
 uf Acoustic analogs after 1972
- Acoustic navigation**
 rt Navigation
- Acoustic profiles**
 sn Used only before 1973
 u Sound profiles
- Acoustic properties**
- Acoustic radiation**
 sn Used only before 1972
- Acoustic scattering**
 sn Used only before 1973
 u Sound scattering
- Acoustic signals**
 rt Signals
- Acoustic spectra**
 u Sound spectra
- Acoustic surveys**
 rt Surveys
- Acoustic telemetry**
 sn Used only before 1972
 u Telemetry
- Acoustic thresholds**
- Acoustic transducers**
 rt Transducers
- Acoustic transponders**
 rt Transponders
- Acoustic waves**
 sn Used only before 1973
 u Sound waves
- Acoustics**
 uf Electroacoustics after 1972
 rt Bioacoustics
- Acrylics**
- Actinium**
 sn Used from 1980 forward
- Actinium compounds**
 sn Used from 1980 forward
- Active transport**
 rt Passive transport
 rt Transport
- Activity patterns**
- Adaptation**
 rt Acclimation
 rt Acclimatization
- Adenosine triphosphate (ATP)**
 sn Used only before 1973
 u High energy compounds
- Adhesion**
- Adhesives**
- Admiralty charts**
 sn Used from 1977 forward
 rt Charts

Controlled Vocabulary

- Admiralty laws**
sn Used from 1970 forward
rt Legal aspects
- Adrenal glands**
- Adsorption**
rt Absorption
rt Ion adsorption
- Advection**
- Aeolian sediments**
u Eolian sediments
- Aerial**
sn Use compound terms below
sn Used only before 1966
- Aerial photography**
rt Photography
- Aerial surveys**
rt Surveys
- Aerobes**
sn Used from 1974 forward
rt Anaerobes
- Aerodynamics**
sn Used from 1972 forward
- Aeromagnetic surveys**
rt Surveys
- Aerosols**
- Agar**
- Age**
rt Maturation age
- Age composition**
sn Used before 1973 and after 1979
- Age determination**
- Agglutination**
sn Used from 1973 forward
- Agglutinins**
rt Antibodies
- Aggregates**
sn Used from 1970 forward
- Aggregation**
sn Used from 1973 forward
sn Use plural before 1973
- Aggressive behavior**
rt Behavior
- Aging**
sn Used from 1974 forward
- Agnatha**
sn Used from 1973 forward
sn See Fish Families in Section J
uf Jawless fish
rt Hagfish
rt Lampreys
rt Vertebrata
- Agonidae**
sn Used from mid-1980 forward
uf Poachers
rt Osteichthyes
- Air**
sn Used before 1970
u Atmosphere
- Air bubbles**
rt Bubbles
- Air cushion vehicles**
rt Hovercraft
rt Vehicles
- Air guns**
- Air layers**
sn Used from 1970 forward
- Air masses**
- Air movement**
sn Used from 1973 forward
rt Movement
- Air pollution**
rt Pollution
- Air temperatures**
sn Used from 1973 forward
sn Use singular before 1973
rt Temperatures
- Air-sea**
sn Use compound terms below
sn Used before 1970
- Air-sea exchange**
sn Used only before 1973
u Air-water exchange
- Air-sea interface**
sn Used only before 1973
u Air-water interface
- Air-water exchange**
sn Used from 1973 forward
uf Air-sea exchange after 1972
- Air-water interactions**
sn Used from 1973 forward
- Air-water interface**
sn Used from 1973 forward
uf Air-sea interface after 1972
- Air-water temperatures**
sn Used from 1973 forward
rt Temperatures
- Airborne**
sn Use compound terms below
u Used before 1970
- Airborne instruments**
rt Instruments
- Aircraft**
rt Helicopters
- Alarm reactions**
sn Used from 1977 forward
- Alarm systems**
- Albacores**
sn Used only before 1973
u Tunas 1973-80
u Scombridae after mid-1980
- Albatrosses**
sn Used only before mid-1980
u Aves
- Albedo**
- Albinism**
- Albulidae**
sn Used from mid-1980 forward
uf Bonefish after mid-1980
rt Osteichthyes
- Alcohols**
rt Hydrocarbons
- Alcyonarians**
sn Used before mid-1980
u Corals
- Aldehydes**
sn Used from 1974 forward
rt Hydrocarbons
- Alepisauridae**
sn Used from mid-1980 forward
uf Lancet fish after mid-1980
rt Osteichthyes
- Alewives**
sn Used only before mid-1980
u Clupeidae
- Algae**
rt Chlorophyta
rt Chrysoophyta
rt Cyanophyta
rt Euglenophyta
rt Phaeophyta
rt Pyrrophyta
rt Rhodophyta
rt Seaweeds
- Algae culture**
rt Aquiculture
- Algin**
sn Used from 1971 forward
- Alginate compounds**
sn Used from 1974 forward
uf Alginates after 1972
- Alginates**
sn Used only before 1973
u Alginate compounds
- Alginic acids**
sn Used from 1975 forward
rt Acids
- Aliphatic compounds**
sn Used from 1973 forward
rt Hydrocarbons
- Alkalies**
sn Used from 1974 forward
- Alkalinity**
- Allometry**
- Alloys**
rt Aluminum alloys
rt Copper alloys
rt Nickel alloys
rt Stainless steel alloys
rt Titanium alloys
- Alluvial deposits**
rt Deposits
- Alopiidae**
sn Used from mid-1980 forward
uf Thresher sharks
rt Chondrichthyes
rt Sharks
- Alpha radiation**
sn Used from 1976 forward
rt Radiation
- Alpha-activity**
- Alternation of generations**
sn Used from 1973 forward
rt Gametophytes
rt Medusae
rt Polyps
rt Sporophytes
- Aluminaut**
sn Used before 1972
sn Submersible names no longer controlled terms
- Aluminum**
- Aluminum alloys**

Controlled Vocabulary

- rt Alloys**
- Aluminum compounds**
sn Used from 1976 forward
- Alvin**
sn Used before 1972
sn Submersible names no longer controlled terms
- Ambient noise**
sn Used only before 1971
u Noise levels
- Amensalism**
sn Used from 1975 forward
rt Commensalism
rt Mutualism
- Americium**
sn Used from 1975 forward
- Americium compounds**
sn Used from 1980 forward
- Amides**
sn Used from 1974 forward
rt Hydrocarbons
- Amines**
sn Used from 1973 forward
rt Hydrocarbons
- Amino acids**
uf Aspartic acid
rt Acids
- Amino sugars**
- Ammodytidae**
sn Used from mid-1980 forward
uf Sand eels
uf Sand lances after mid-1980
rt Osteichthyes
- Ammonia**
- Ammonium ions**
rt Ions
- Amphibia**
sn Used 1965-69 and 1973 forward
sn Use Amphibians before 1970
- Amphibious vehicles**
rt Vehicles
- Amphipoda**
sn Used 1964-65 and 1973 forward
sn Use Amphipods 1966-72
uf Beach fleas
uf Sand hoppers
rt Crustacea
rt Malacostraca
- Amplifiers**
- Amplitude**
rt Wave amplitude
- Anadromous fish**
sn Used from 1973 forward
rt Catadromous fish
rt Diadromous fish
rt Fish
- Anaerobes**
rt Aerobes
- Analog data**
sn Used only before 1968
- Anarhichadidae**
sn Used from mid-1980 forward
uf Wolffish
rt Osteichthyes
- Anatomy**
rt Comparative anatomy
rt Cytology
rt Histology
rt Morphology
- Anchor stations**
rt Stations
- Anchors**
- Anchovies**
rt Engraulidae
- Andesites**
- Anemia**
sn Used only before 1972
u Hematopoietic pathologies
- Anemometers**
- Anemones**
sn Used only before mid-1980
u Anthozoa
- Anesthesia**
- Anesthetics**
- Angel sharks**
u Squatinidae
- Angelfish**
sn Used only before mid-1980
u Chaetodontidae
- Anglerfish**
sn Used only before mid-1980
u Lophiidae
- Anguillidae**
sn Used from mid-1980 forward
uf Freshwater eels after mid-1980
rt Osteichthyes
- Animal communication**
sn Used from 1973 forward
rt Communications
- Animal hormones**
sn Used from 1973 forward
rt Hormones
- Animals**
rt Stranded animals
- Anions**
rt Ions
- Anisotropy**
rt Upper mantle anisotropy
rt Velocity anisotropy
- Annelida**
uf Segmented worms after mid-1980
rt Archiannelida
rt Hirudinea
rt Myzostomaria
rt Oligochaeta
rt Polychaeta
- Annual cycles**
sn Used from 1973 forward
sn Use singular 1966-67
- Annual variations**
- Annuli**
- Anodes**
- Anoplomatidae**
sn Used from mid-1980 forward
uf Sablefish after mid-1980
uf Skilfish
rt Osteichthyes
- Anopteroideae**
- sn Used from mid-1980 forward
uf Daggertooth fish
rt Osteichthyes
- Anoxia**
- Antagonism**
sn Used from 1975 forward
- Antennae**
sn Used only before 1972
u Appendages
- Antennal gland**
u Excretory organs
- Antennariidae**
sn Used from mid-1980 forward
uf Frogfish
rt Osteichthyes
- Anthelmintics**
sn Used from 1980 forward
rt Pesticides
- Anthozoa**
sn Used from 1973 forward
sn Use Anthozoans 1967-72
uf Anemones after mid-1980
uf Sea anemones after 1972
uf Sea pansies after mid-1980
uf Sea pens after mid-1980
uf Sea whips
rt Cnidaria
rt Corals
- Antibacterial activity**
- Antibiotics**
rt Pesticides
- Antibodies**
rt Agglutinins
- Antifouling**
sn Used only before 1977
u Antifouling systems
- Antifouling paints**
sn Used only before 1973
- Antifouling systems**
uf Antifouling after 1976
rt Fouling prevention
- Antigens**
- Antimony**
sn Used from 1972 forward
- Antimony compounds**
sn Used from 1977 forward
- Antiviral activity**
- Aphotic zones**
sn Used from 1974 forward
rt Photic zones
- Aplacophora**
sn Used from 1978 forward
uf Solenogasters
rt Mollusca
- Apogonid fish**
u Apogonidae
- Apogonidae**
sn Used from mid-1980 forward
uf Apogonid fish
uf Cardinal fish after mid-1980
rt Osteichthyes
- Appendages**
sn Used from 1973 forward
uf Antennae after 1971

Controlled Vocabulary

- Appendicularia**
u Larvacea
- Aquaculture**
sn Used only before 1972
u Aquiculture
- Aquanuts**
sn Used from 1972 forward
- Aquaria**
- Aquiculture**
sn Used from 1972 forward
uf Aquaculture after 1971
uf Mariculture after mid-1980
rt Algae culture
rt Fish culture
- Arabinose**
u Monosaccharides
- Arachnida**
uf Mites after mid-1980
uf Pseudoscorpions
uf Spiders
uf Ticks
rt Arthropoda
- Aragonite**
rt Oolitic aragonite
- Archaeology**
sn Used only before 1975
u Archeology
- Archeology**
uf Archaeology after 1974
- Archannelida**
rt Annelida
- Archibenthal fauna**
u Bathyal organisms
- Argentines**
u Argentinidae
- Argentinidae**
sn Used from mid-1980 forward
uf Argentines
rt Osteichthyes
- Argon**
- Ariidae**
sn Used from mid-1980 forward
uf Sea catfish
rt Osteichthyes
- Armored catfish**
u Loricariidae
- Armorheads**
u Pentacerotidae
- Aromatic compounds**
sn Used from 1974 forward
rt Hydrocarbons
- Arrays**
uf Acoustic arrays after 1976
rt Hydrophone arrays
rt Sonar arrays
rt Transducer arrays
rt Transponder arrays
- Arrhythmia**
rt Cardiac rhythms
- Arrowteeth eels**
u Dysommidae
- Arrowworms**
sn Used only before mid-1980
u Chaetognatha
- Arsenic**
- Arsenic compounds**
sn Used from 1973 forward
- Arteries**
rt Blood vessels
- Arthropoda**
sn Use Arthropods 1966-67
rt Arachnida
rt Crustacea
rt Insecta
rt Merostomata
rt Pentastomida
rt Pycnogonida
rt Tardigrada
- Artificial cultivation**
- Artificial habitats**
sn Used from 1971 forward
sn Use singular before 1971
rt Habitats
- Artificial Islands**
rt Islands
- Artificial propagation**
- Artificial reefs**
rt Reefs
- Artificial seaweeds**
rt Seaweeds
- Aschelminthes**
rt Gastrotricha
rt Kinorhyncha
rt Nematoda
rt Nematomorpha
rt Rotifera
- Ascidacea**
rt Chordata
rt Tunicata
- Ascorbic acid**
u Vitamins
- Asexual reproduction**
uf Fission after mid-1980
rt Budding
rt Reproduction
- Aspartic acid**
u Amino acids
- Asphyxia**
- Assimilation**
- Associations**
rt Biological interactions
rt Commensalism
rt Symbiosis
- Astatine**
sn Used from 1980 forward
- Astatine compounds**
sn Used from 1980 forward
- Asteroida**
sn Used from 1973 forward
uf Starfish after mid-1980
rt Echinodermata
- ASW**
sn Used only before 1972
sn Used for Antisubmarine warfare
u Undersea warfare
- Asymmetry**
rt Symmetry
- Atherinidae**
sn Used from mid-1980 forward
uf Sand smelts
uf Silversides after mid-1980
rt Osteichthyes
- Atlases**
sn Used for document type
- Atmosphere**
uf Air after 1969
rt Compressed air
- Atmosphere-ocean system**
sn Use Atmosphere-ocean-system
1972-77
- Atmospheric boundary layers**
rt Boundary layers
- Atmospheric circulation**
rt Circulation
- Atmospheric pollutants**
sn Used from 1972 forward
- Atmospheric pressure**
- Atmospheric temperatures**
sn Used from 1973 forward
rt Temperatures
- Atolls**
sn See Geographic Term list for specific
atolls
rt Coral atolls
- Atomic absorption spectroscopy**
sn Used from 1974 forward
rt Spectroscopy
- ATP**
u High energy compounds
- Attachment organs**
sn Used from 1973 forward
sn Use singular form before 1972
- Attenuation**
rt Light attenuation
rt Sound attenuation
rt Spectral attenuation
rt Wave attenuation
- Attractants**
- Audiograms**
- Auditory responses**
- Aulostomidae**
sn Used from mid-1980 forward
uf Trumpetfish
rt Osteichthyes
- AUTEC**
sn Used only before 1972
sn Used for Atlantic Undersea Test and
Evaluation Center
- Authigenic minerals**
rt Minerals
- Autolysis**
sn Used from 1970 forward
rt Lysis
- Automatic control**
sn Used only before 1973
u Automation systems
- Automation**
sn Used only before 1972
u Automation systems
- Automation systems**
uf Automatic control after 1972
uf Automation after 1971

Controlled Vocabulary

- Autonomic nervous systems**
sn Used from 1974 forward
rt Central nervous systems
rt Nervous systems
- Autopilots**
- Autotrophs**
sn Used from 1975 forward
rt Heterotrophs
- Autumn**
- Auxospore formation**
u Asexual reproduction
u Spore formation
- Aves**
sn Used from 1974 forward
uf Albatrosses after mid-1980
uf Birds after mid-1980
uf Ducks after mid-1980
uf Gulls after mid-1980
uf Ospreys
uf Pelicans after mid-1980
uf Penguins after mid-1980
uf Petrels after mid-1980
uf Shearwaters
uf Terns after mid-1980
rt Vertebrata
- Avicides**
sn Used from 1980 forward
rt Pesticides
- Avoidance responses**
sn Used from 1973 forward
sn Use singular before 1973
- Axenic culture**
- Axillary glands**
u Glands
- Backscattering**
sn Use backscatter before 1968
uf Acoustic backscattering after 1969
- Bacteria**
uf Coliform bacteria after mid-1980
uf Enteric bacteria after mid-1980
uf Sulfur bacteria after mid-1980
rt Microorganisms
- Bacterial metabolism**
sn Used from 1973 forward
uf Bacterial oxidation
rt Metabolism
- Bacterial pollution**
sn Used from 1973 forward
sn Use Bacteria pollution before 1973
rt Pollution
- Bactericides**
- Bacteriological oxidation**
u Bacterial metabolism
- Bacteriophages**
sn Used only before 1976
u Viruses
- Baffles**
uf Acoustic baffles
- Bait**
rt Fish attraction
- Balistidae**
sn Used from mid-1980 forward
uf Filefish after mid-1980
uf Triggerfish after mid-1980
- rt Osteichthyes
- Ballasting**
- Balloons**
rt Weather balloons
- Bandwidths**
rt Telecommunications
- Banks**
sn See Geographic Term list for specific banks
rt Mud banks
rt Ocean banks
- Barbados Oceanographic projects**
u BOMAP
u BOMEX before 1975
- Barges**
rt Cargo transport
- Barium**
- Barium compounds**
sn Used from 1973 forward
- Barnacles**
u Cirripedia
- Baroclinic**
sn Use compound terms below
sn Used before 1967
- Baroclinic instability**
- Baroclinic Ocean**
- Baroreception**
sn Used from 1973 forward
rt Sensory perception
- Barotropic flow**
- Barracoutas**
sn Used only before mid-1980
u Gempylidae
- Barracudas**
sn Used only before mid-1980
u Sphyraenidae
- Barrages**
- Barrier Islands**
rt Islands
- Basalts**
sn Used from 1973 forward
sn Use singular before 1973
rt Igneous rocks
- Basins**
sn See Geographic Term list for specific basins
rt Ocean basins
rt Sedimentary basins
- Basses**
sn Used only before mid-1980
sn Use singular before 1973
u Percichthyidae
u Serranidae
- Batfish**
sn Used only before mid-1980
u Ogocephalidae
- Bathyal fauna**
sn Used only before mid-1980
u Bathyal organisms
- Bathyal flora**
u Bathyal organisms
- Bathyal organisms**
sn Used from mid-1980 forward
uf Archibenthal fauna
- uf Bathyal fauna after mid-1980
uf Bathyal flora
rt Benthic fauna
rt Fauna
rt Flora
- Bathyal zones**
sn Used from 1973 forward
- Bathykymographs**
- Bathylagidae**
sn Used from mid-1980 forward
uf Black smelts
uf Deep-sea smelts
rt Osteichthyes
- Bathymasteridae**
sn Used from mid-1980 forward
uf Ronquils
rt Osteichthyes
- Bathymetric charts**
rt Charts
- Bathymetric data**
- Bathymetric surveys**
rt Surveys
- Bathymetry**
- Bathypelagic**
sn Use compound terms below
sn Used only before 1968
- Bathypelagic fauna**
sn Used only before mid-1980
u Bathypelagic organisms
- Bathypelagic flora**
u Bathypelagic organisms
- Bathypelagic organisms**
sn Used from mid-1980 forward
uf Bathypelagic fauna after mid-1980
uf Bathypelagic flora
rt Fauna
rt Fish
rt Flora
- Bathypelagic zones**
sn Used from 1980 forward
- Bathyscaphes**
sn Used from 1974 forward
sn Use Bathyscaphs before 1974
- Bathythermographs**
sn Used only before 1969
u Bathythermographs
- Bathythermographs**
uf Bathythermographs after 1968
- Batrachoididae**
sn Used from mid-1980 forward
uf Toadfish after mid-1980
rt Osteichthyes
- Batteries**
- Bays**
sn See Geographic Term list for specific bays
- Beach building**
- Beach deposits**
rt Deposits
- Beach erosion**
rt Erosion
- Beach fauna**
sn Used from 1974 forward
rt Fauna

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- Beach fleas**
u Amphipoda
- Beach flora**
sn Used from 1974 forward
rt Flora
- Beach organisms**
sn Used from 1974 forward
- Beach pollution**
rt Pollution
- Beach profiles**
- Beach protection**
- Beach restoration**
- Beach ridges**
rt Ridges
- Beach sands**
rt Sands
- Beach sediments**
rt Sediments
- Beaches**
rt Fossil beaches
rt Recreation beaches
rt Sand beaches
- Beacons**
- Beard worms**
sn Used only before mid-1980
u Pogonophora
- Beardfish**
u Polymyxiidae
- Bearings**
- Bedrock**
- Behavior**
uf Behavior patterns after 1972
rt Aggressive behavior
rt Fish behavior
rt Fracture behavior
rt Mating behavior
rt Orienting behavior
- Behavior patterns**
sn Used only before 1973
u Behavior
- Belonidae**
sn Used from mid-1980 forward
uf Garfish
uf Long-toms
uf Needlefish
rt Osteichthyes
- Bending moments**
- Benthic**
sn Used only before 1973
sn Use compound terms below
- Benthic communities**
sn Used only before 1973
- Benthic fauna**
rt Abyssal organisms
rt Bathyal organisms
rt Fauna
rt Hadal organisms
rt Littoral fauna
- Benthic flora**
rt Flora
- Benthic foraminifera**
sn Used from 1971 forward
rt Calcareous foraminifera
rt Foraminifera
rt Planktonic foraminifera
- Benthic organisms**
sn Used from 1973 forward
rt Macrobenthos
rt Microbenthos
rt Sessile organisms
- Benthic surveys**
rt Surveys
- Benthic zones**
sn Used from 1973 forward
- Benthos**
rt Macrobenthos
rt Microbenthos
- Berkelium**
sn Used from 1980 forward
- Berkelium compounds**
sn Used from 1980 forward
- Berthing**
rt Docking
- Berthing facilities**
- Beryllium**
- Beryllium compounds**
sn Used from 1980 forward
- Beta radiation**
rt Radiation
- Bibliographies**
sn Used for document type
- Bigeyes**
u Priacanthidae
- Bile pigments**
sn Used from 1975 forward
rt Pigments
- Billfish**
sn Used only before mid-1980
u Istiophoridae
- Bioacoustics**
rt Acoustics
- Bioassays**
sn Also use singular before 1973
- Biocenoses**
sn Used from 1973 forward
sn Use Biocoenoses before 1973
rt Ecosystems
- Biochemical analysis**
- Biochemical oxygen demand**
u BOD
- Biochemistry**
rt Chemistry
rt Comparative biochemistry
rt Pharmacology
- Biodegradation**
rt Degradation
rt Microbial degradation
- Biodeterioration**
- Bioenergetics**
sn Used from 1973 forward
- Bioengineering**
sn Used from 1976 forward
rt Engineering
- Biofouling**
rt Fouling
- Biogenic elements**
- Biogeochemistry**
- Biogeography**
rt Geographic distribution
rt Geography
rt Phytogeography
rt Zoogeography
- Bioindicators**
sn Used from 1973 forward
sn Use Biological indicators before 1973
- Biological control**
sn Used from 1974 forward
- Biological data**
- Biological interactions**
rt Associations
- Biological oxidation**
sn Used from 1970 forward
rt Chemical oxidation
rt Oxidation
rt Oxidative compound metabolism
- Biology**
rt Fishery biology
rt Microbiology
rt Paleobiology
- Bioluminescence**
rt Luminescence
rt Phosphorescence
- Biomass**
- Biomedicine**
rt Medicine
- Biometeorology**
sn Used from 1980 forward
rt Meteorology
- Biometrics**
rt Morphometry
- Biophysics**
rt Physics
- Biorhythms**
sn Used from 1972 forward
rt Periodicity
- Biostratigraphy**
rt Stratigraphy
- Biosynthesis**
- Biota**
- Biotechnology**
sn Used from 1975 forward
- Biotelemetry**
rt Telemetry
- Biotin**
sn Used only before 1973
u Vitamins
- Birds**
sn Used only before mid-1980
u Aves
- Birth**
rt Sexual reproduction
- Bismuth**
sn Used from 1975 forward
- Bismuth compounds**
sn Used from 1980 forward
- Bituminous matter**
rt Coal
- Bivalves**
sn Used only before mid-1980
u Pelecypoda
- Black dragonfish**
u Idiicanthidae

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- Black skipjack**
u Tunas before mid-1980
u Scombridae after mid-1980
- Black smelts**
u Bathylagidae
- Blennies**
sn Used only before mid-1980
u Blenniidae
u Clinidae
- Blenniidae**
sn Used from mid-1980 forward
uf Combtooth blennies
rt Osteichthyes
- Blood**
rt Body fluids
- Blood cells**
sn Used from 1973 forward
uf Erythrocytes after 1972
rt Cells
- Blood chemistry**
sn Used from 1973 forward
uf Blood composition after 1972
rt Chemistry
- Blood composition**
sn Used only before 1973
u Blood chemistry
- Blood groups**
- Blood pressure**
- Blood vessels**
rt Arteries
rt Lymph vessels
rt Veins
- Blowout preventers**
u BOP
- Blue-green algae**
sn Used only before mid-1980
u Cyanophyta
- Bluefish**
sn Used from mid-1980 forward
sn Use plural before 1971
u Pomatomidae
- Boarfish**
u Caproidae
- Boat construction**
- Boat design**
rt Design
- Boating**
rt Recreation
- Boats**
sn Used only before 1968
- BOD**
uf Biochemical oxygen demand
- Body fluids**
rt Blood
rt Hemolymph
rt Lymph
- Body temperatures**
rt Temperatures
- BOMAP**
sn Used from 1970 forward
uf Barbados Oceanographic and Meteorological Analysis Project
- BOMEX**
sn Used only before 1975
- sn Used for Barbados Oceanographic and Meteorological Experiment
- Bonefish**
sn Used only before mid-1980
u Albulidae
- Bones**
sn Used from 1973 forward
- Bonito**
sn Used only before 1973
u Tunas 1972-80
u Scombridae after mid-1980
- Boonemmouths**
u Emmelichthyidae
- Bony fish**
u Osteichthyes
- Books**
sn Used for document type
- BOP**
sn Used before 1975 and after 1979
uf Blowout preventers
- Borers**
rt Rock borers
rt Wood borers
- Boring organs**
- Boron**
- Boron compounds**
sn Used from 1973 forward
- Bothidae**
sn Used from mid-1980 forward
uf Halibuts after 1972
uf Lefteye flounders after mid-1980
uf Sanddabs
uf Whittings (Windowpanes)
rt Osteichthyes
rt Pleuronectidae
- Bottom**
sn Use compound terms below
sn Used before 1968
- Bottom currents**
rt Currents
- Bottom mounted instruments**
rt Instruments
- Bottom samplers**
sn Used only before 1973
- Bottom sediments**
sn Used only before 1973
sn Use also singular before 1972
u Sediments and Ocean bottom
- Bottom surveys**
rt Surveys
- Bottom topography**
rt Topography
- Bottom waters**
sn Also use singular before 1974
- Bouguer anomaly**
- Bouguer anomaly map**
rt Maps
- Boundaries**
sn Use singular 1964-67
rt Lateral boundaries
rt Maritime boundaries
- Boundary currents**
rt Currents
- Boundary layers**
sn Also use singular before 1974
rt Atmospheric boundary layers
rt Ekman boundary layers
rt Turbulent boundary layers
- Boxfish**
sn Used only before mid-1980
u Ostraciidae
- Brachiopoda**
sn Used 1964-65 and 1973 forward
sn Use Brachiopods 1966-72
uf Lamp shells after mid-1980
- Brackish**
sn Use compound terms below
sn Used before 1967
- Brackish waters**
sn Used from 1970 forward
sn Also use singular before 1974
- Bradycardia**
sn Used only before 1971
u Cardiac rhythms
- Brains**
sn Use singular before 1966
- Bramidae**
sn Used from mid-1980 forward
uf Pomfrets
rt Osteichthyes
- Branchiopoda**
sn Used from 1973 forward
uf Brine shrimps after mid-1980
uf Cladocerans after 1972
uf Water fleas
rt Crustacea
- Branchiostegidae**
sn Used from mid-1980 forward
uf Tilefish
rt Osteichthyes
- Branchiura**
sn Used from 1978 forward
uf Fish lice after mid-1980
rt Crustacea
- Breaking waves**
rt Waves
- Breakwaters**
rt Floating breakwaters
- Breams**
sn Used only before mid-1980
u Sparidae
- Breathing devices**
- Breathing gases**
- Breathing mechanics**
- Breccia**
- Breeding**
rt Mating
rt Reproduction
rt Spawning
- Breeding grounds**
sn Used only before mid-1980
- Bregmacerotidae**
sn Used from mid-1980 forward
uf Codlets
rt Osteichthyes
- Bridges**
- Brine effluents**
sn Used only before 1973

Controlled Vocabulary

- Brine shrimps**
sn Used only before mid-1980
sn Use singular before 1974
u Branchiopoda
- Brines**
rt Hot brines
- Bristle worms**
sn Used only before mid-1980
u Polychaeta
- Bristlemouths**
u Gonostomatidae
- Brittle stars**
sn Used only before mid-1980
u Ophiuroidea
- Bromine**
- Bromine compounds**
sn Used from 1975 forward
- Brotulas**
sn Used only before mid-1980
u Ophidiidae
- Brown Algae**
sn Used only before mid-1980
u Phaeophyta
- Bryophyta**
sn Used only before mid-1980
- Bryozoa**
u Ectoprocta
- Bubbles**
rt Air bubbles
rt Gas bubbles
- Buckling**
- Budding**
rt Asexual reproduction
- Budgets**
sn Used only before 1972
sn Use singular before 1970
u Compound terms, e.g., Energy budg
- Buffers**
- Bulk cargo**
sn Used from 1975 forward
sn Use plural before 1975
rt Cargo
- Bulk carriers**
rt Cargo transport
- Bullhead sharks**
sn Used only before mid-1980
u Heterodontidae
- Bullheads**
u Cottidae
- Buoy data**
- Buoy design**
rt Design
- Buoy motion**
- Buoyancy**
- Buoyant structures**
- Buoys**
rt Data buoys
rt Loading buoys
rt Marker buoys
rt Meteorological buoys
rt Seismic recording buoys
rt Sonobuoys
rt Spar buoys
rt Underwater buoys
- rt Unmanned data buoys
- Burrfish**
u Diodontidae
- Burrowing**
- Burrows**
- Butterfish**
sn Used only before mid-1980
u Stromateidae
- Butterflyfish**
sn Used only before mid-1980
u Chaetodontidae
- By-products**
- Cable laying**
- Cables**
rt Communications cables
rt Lines
rt Mooring cables
rt Telephone cables
rt Tow cables
rt Underwater cables
- Cableships**
rt Ships
- Cadmium**
- Cadmium compounds**
sn Used from 1980 forward
- Caissons**
rt Shallow water caissons
- Calcareous**
- Calcareous foraminifera**
sn Used from 1973 forward
rt Benthic foraminifera
rt Foraminifera
rt Planktonic foraminifera
- Calcareous sediments**
sn Used from 1973 forward
sn Use singular before 1973
rt Sediments
- Calcification**
- Calcite**
- Calcium**
- Calcium carbonate**
rt Carbonates
- Calcium compounds**
sn Used from 1973 forward
- Calibration**
rt Geodetic calibration
rt Instrument calibration
- Californium**
sn Used from 1980 forward
- Californium compounds**
sn Used from 1980 forward
- Callionymidae**
sn Used from mid-1980 forward
uf Dragonets after mid-1980
rt Osteichthyes
- Caloric content**
- Cambrian**
sn Used from 1975 forward
- Cameras**
rt Photographic equipment
- Camouflage**
- Canals**
- Cancer**
sn Used only before 1975
- Canneries**
rt Fishing industry
- Canyons**
sn Used only before mid-1980
u Submarine canyons
- Capelins**
sn Used only before mid-1980
u Osmeridae
- Capillary waves**
rt Waves
- Caproidae**
sn Used from mid-1980 forward
uf Boarfish
rt Osteichthyes
- Captivity**
- Carangidae**
sn Used from mid-1980 forward
uf Jacks after mid-1980
uf Pompano after mid-1980
uf Scads after mid-1980
uf Yellowtails after mid-1980
rt Osteichthyes
- Carapaces**
sn Used from 1973 forward
sn Use singular before 1973
- Carapidae**
sn Used from mid-1980 forward
uf Pearlfish
rt Osteichthyes
- Carbohydrate content**
sn Used only before 1973
u Carbohydrates
- Carbohydrate metabolism**
rt Metabolism
- Carbohydrates**
uf Carbohydrate content after 1972
- Carbon**
uf Carbon content after 1972
- Carbon compounds**
sn Used from 1973 forward
- Carbon content**
sn Used only before 1973
u Carbon
- Carbon dioxide**
- Carbon dioxide exchange**
- Carbon isotopes**
sn Used only before 1973
- Carbon monoxide**
- Carbon-14**
sn Used only before 1973
- Carbonate sediments**
rt Sediments
- Carbonates**
rt Calcium carbonate
- Carboniferous**
sn Used from 1973 forward
uf Lower Carboniferous
uf Mississippian
uf Pennsylvanian
- Carboxylic acids**
sn Used from 1974 forward
rt Acids
rt Hydrocarbons

Controlled Vocabulary

- Carcharhinidae**
sn Used from mid-1980 forward
uf Requiem sharks after mid-1980
rt Chondrichthyes
rt Sharks
- Carcinogenesis**
sn Used from 1976 forward
- Carcinogens**
rt Mutagens
- Cardiac rhythms**
rt Arrhythmia
rt Hearts
- Cardinal fish**
sn Used only before mid-1980
u Apogonidae
- Cardiovascular pathologies**
sn Used from 1974 forward
- Cardiovascular physiology**
sn Used only before 1973
- Cardiovascular systems**
sn Used from 1973 forward
rt Circulatory systems
rt Vascular systems
- Cargo**
rt Bulk cargo
rt Liquid cargo
- Cargo handling**
- Cargo tanks**
rt Tanks
- Cargo transport**
rt Barges
rt Bulk carriers
rt Container ships
rt Ore carriers
rt Transport
- Cargo vessels**
rt Vessels
- Carnivora**
sn Used from 1973 forward
uf Otters
rt Mammalia
- Carotenes**
sn Used from 1974 forward
rt Carotenoids
rt Pigments
rt Xanthophylls
- Carotenoids**
sn Use singular before 1967
rt Carotenes
rt Pigments
rt Xanthophylls
- Carpet sharks**
u Orectolobidae
- Carps**
sn Used only before mid-1980
u Cyprinidae
- Carrageenin**
sn Used from 1974 forward
sn Use Carrageenan before 1974
- Cartilage**
- Cartilaginous fish**
u Chondrichthyes
- Cartography**
rt Mapping
- Cat sharks**
sn Used only before mid-1980
u Scyliorhinidae
- Catadromous fish**
sn Used from 1975 forward
rt Anadromous fish
rt Diadromous fish
rt Fish
- Catalysis**
sn Used from 1975 forward
- Catalysts**
sn Used from 1973 forward
- Catamarans**
sn Use singular before 1971
- Catch**
sn Used before 1968
- Catch statistics**
rt Statistics
- Catch yield**
- Catfish**
sn Used only before mid-1980
u Ariidae
u Loricariidae
- Cathodes**
- Cathodic protection**
rt Materials protection
- Cations**
rt Ions
- Caves**
rt Underwater caves
- Cavitation**
- Celestial navigation**
rt Navigation
- Cell division**
- Cell walls**
sn Used from 1973 forward
sn Use singular before 1973
- Cells**
sn Use singular before 1966
rt Blood cells
rt Secretory cells
- Cellulose**
sn Used only before 1973
u Polysaccharides
- Cementation**
- Cements**
- Cenozoic**
- Central nervous systems**
sn Used from 1973 forward
sn Use singular before 1973
rt Autonomic nervous systems
- Centrifugation**
rt Separation processes
- Centrifuges**
sn Used from 1974 forward
- Centriscidae**
sn Used from mid-1980 forward
uf Snipefish
rt Osteichthyes
- Centropomidae**
sn Used from mid-1980 forward
uf Snooks
rt Osteichthyes
- Cephalocarida**
rt Crustacea
- Cephalochordata**
uf Lancelets after mid-1980
rt Chordata
- Cephalopoda**
sn Used 1964-65 and 1973 forward
sn Use Cephalopods 1966-72
rt Cuttlefish
rt Mollusca
rt Nautili
rt Octopi
rt Squids
- Cephalothoraxes**
sn Used from 1976 forward
- Ceramics**
- Ceratiidae**
sn Used from mid-1980 forward
uf Seadevils
rt Osteichthyes
- Cerebrosides**
sn Used only before mid-1980
u Sphingolipids
- Cerium**
- Cerium compounds**
sn Used from 1975 forward
- Cesium**
- Cesium compounds**
sn Used from 1980 forward
- Cestoda**
uf Tapeworms
rt Platyhelminthes
- Cetacea**
sn Used 1964-65 and 1973 forward
sn Use Cetaceans 1966-72
rt Dolphins
rt Mammalia
rt Porpoises
rt Whales
- Chaetodontidae**
sn Used from mid-1980 forward
uf Angelfish after mid-1980
uf Butterflyfish after mid-1980
rt Osteichthyes
- Chaetognatha**
sn Used 1964-66 and 1973 forward
sn Use Chaetognaths 1966-72
uf Arrowworms after mid-1980
- Chains**
- Channel navigation**
rt Navigation
- Channels**
rt Sound channels
- Chars**
sn Used only before mid-1980
u Salmonidae
- Charting**
rt Mapping
- Charts**
rt Admiralty charts
rt Bathymetric charts
rt Nautical charts
- Chauliodontidae**
sn Used from mid-1980 forward
uf Viperfish

Controlled Vocabulary

- rt Osteichthyes
- Chemical**
 - sn Use compound terms below
 - sn Used before 1970
- Chemical analysis**
 - uf Quantitative analysis after 1969
- Chemical balance**
- Chemical composition**
 - sn Used before 1973 and after 1979
- Chemical data**
- Chemical energy**
 - sn Used from 1973 forward
- Chemical interactions**
 - sn Used from 1973 forward
- Chemical oceanography**
 - rt Oceanography
- Chemical oxidation**
 - sn Used from 1973 forward
 - rt Biological oxidation
 - rt Oxidation
- Chemical oxygen demand**
 - u COD
- Chemical pollution**
 - rt Pollution
- Chemical reactions**
 - sn Used from 1973 forward
- Chemical wastes**
- Chemicals**
 - sn Used only before 1976
- Chemistry**
 - rt Biochemistry
 - rt Blood chemistry
 - rt Cytochemistry
 - rt Electrochemistry
 - rt Geochemistry
 - rt Histochemistry
 - rt Immunochemistry
 - rt Isotope chemistry
 - rt Lymph chemistry
 - rt Petrochemistry
 - rt Plasma chemistry
 - rt Seawater chemistry
 - rt Serum chemistry
- Chemoreception**
 - rt Sensory perception
- Chemosynthesis**
- Chimaeras**
 - sn Used only before mid-1980
 - u Chimaeridae
- Chimaeridae**
 - sn Used from mid-1980 forward
 - uf Chimaeras after mid-1980
 - rt Chondrichthyes
- Chitons**
 - sn Used only before mid-1980
 - u Polyplacophora
- Chlamydoselachidae**
 - sn Used from mid-1980 forward
 - uf Frill sharks
 - rt Chondrichthyes
 - rt Sharks
- Chlorine**
- Chlorine compounds**
 - sn Used from 1973 forward
- Chlorinity**
- Chloromonad algae**
 - u Chrysophyta
- Chlorophthalmidae**
 - sn Used from mid-1980 forward
 - uf Greeneyes
 - rt Osteichthyes
- Chlorophyll A**
 - sn Used only before 1973
 - u Chlorophylls
- Chlorophyll distribution**
 - rt Distribution
- Chlorophyll measurements**
- Chlorophylls**
 - sn Used from 1973 forward
 - sn Use singular before 1973
 - uf Chlorophyll A after 1972
 - rt Pigments
- Chlorophyta**
 - uf Green algae after mid-1980
 - rt Algae
 - rt Seaweeds
- Chloroplasts**
 - sn Used only before 1973
 - u Chromatophores
 - u Chlorophylls
- Chondrichthyes**
 - sn See Fish Families, Section J
 - uf Cartilaginous fish
 - uf Elasmobranchs after 1975
 - rt Rays
 - rt Sharks
- Chordata**
 - rt Cephalochordata
 - rt Tunicata
 - rt Vertebrata
- Chromatographic analysis**
 - sn Used only before 1974
- Chromatography**
 - rt Gas chromatography
 - rt Liquid chromatography
- Chromatophores**
 - uf Melanophores after 1971
 - rt Pigments
- Chromium**
- Chromium compounds**
 - sn Used from 1980 forward
- Chromosomes**
- Chronology**
 - rt Geochronology
- Chrysomonads**
 - sn Used only before 1972
 - u Chrysophyta
- Chrysophyta**
 - uf Chloromonad algae
 - uf Chrysomonads after 1971
 - uf Coccolithophorids
 - uf Golden-brown algae (except diatoms) after mid-1980
 - uf Silicoflagellates after 1972
 - uf Yellow-green algae after mid-1980
 - rt Algae
- Cichlidae**
 - sn Used from mid-1980 forward
 - uf Cichlids
 - rt Osteichthyes
- Cichlids**
 - u Cichlidae
- Cilia**
- Ciliata**
 - sn Used 1964-65 and 1973 forward
 - sn Use Ciliates 1966-72
 - u Protozoa
- Circadian cycles**
 - sn Used only before 1973
- Circadian rhythm**
 - rt Diurnal cycles
- Circular cylinders**
 - rt Cylinders
- Circulation**
 - rt Atmospheric circulation
 - rt Geostrophic circulation
 - rt Meridional circulation
 - rt Vertical circulation
 - rt Wind circulation
- Circulation air**
 - sn Used from 1980 forward
- Circulation processes**
- Circulation water**
 - sn Used from 1972 forward
- Circulatory pathologies**
 - sn Used from 1975 forward
- Circulatory systems**
 - sn Used from 1973 forward
 - sn Use singular before 1973
 - rt Cardiovascular systems
- Cirratidae**
 - sn Used from mid-1980 forward
 - uf Hawkfish
 - rt Osteichthyes
- Cirripedia**
 - uf Barnacles
 - rt Crustacea
- Civil engineering**
 - rt Engineering
- Cladocerans**
 - sn Used only before 1973
 - u Branchiopoda
- Clam fisheries**
 - rt Fisheries
- Clams**
 - uf Quahogs after mid-1980
 - uf Shipworms after 1972
 - rt Mollusca
 - rt Pelecypoda
- Classification**
 - sn Used only before 1968
 - u Taxonomy
- Clastic deposits**
 - sn Used from 1970 forward
 - rt Deposits
- Clay**
 - uf Red clay after 1971
 - rt Saliferous clays
- Clay facies**
 - rt Facies
- Clay mineralogy**
 - rt Mineralogy

Controlled Vocabulary

- Clay minerals**
sn Used only before 1972
- Cliffs**
rt Sea cliffs
- Climates**
sn Used from 1973 forward
sn Use singular before 1973
- Climatic changes**
- Climatic data**
- Climatic zonation**
rt Zonation
- Climatology**
rt Paleoclimatology
- Clingfish**
sn Used only before mid-1980
u Gobiesocidae
- Clinidae**
sn Used from mid-1980 forward
uf Clinids
uf Scaled blennies
rt Osteichthyes
- Clinids**
u Clinidae
- Cloud data**
sn Used from 1974 forward
- Cloud distribution**
rt Distribution
- Cloud formation**
- Clouds**
rt Convection clouds
- Clupeidae**
sn Used from mid-1980 forward
uf Alewives after mid-1980
uf Menhadens after mid-1980
uf Shads after mid-1980
uf Sprats after mid-1980
rt Herrings
rt Osteichthyes
rt Sardines
- Clupeiformes**
sn Used only before mid-1980
- CMSER**
sn Used only before 1971
sn Used for Commission on Marine Science, Engineering, and Resources
- Cnidaria**
sn Used from 1973 forward
sn Use Cnidarians before 1973
uf Coelenterata
rt Anthozoa
rt Hydrozoa
rt Scyphozoa
- Coagulants**
sn Used from 1970 forward
- Coagulation**
sn Used from 1973 forward
rt Flocculation
rt Separation processes
- Coal**
rt Bituminous matter
- Coastal currents**
rt Currents
- Coastal engineering**
- Coastal geomorphology**
rt Geomorphology
- Coastal plain**
sn Used only before 1973
- Coastal protection**
sn Used from 1973 forward
- Coastal resources**
rt Resources
- Coastal waters**
- Coastal zones**
- Coasts**
sn Also use singular in 1964
sn See Geographic Term list for specific continent, country, and state coast names
- Coatings**
sn Also use singular before 1969
rt Epoxy coatings
rt Inorganic coatings
rt Metallic coatings
rt Organic coatings
rt Paints
- Cobalt**
- Cobalt compounds**
sn Used from 1977 forward
- Cobias**
u Rachycentridae
- Cobitidae**
sn Used from mid-1980 forward
uf Loaches
rt Osteichthyes
- Coccolithophorids**
sn Used only before 1973
u Chrysophyta
- Coccoliths**
- Cockles**
rt Mollusca
rt Pelecypoda
- COD**
uf Chemical oxygen demand
- Codfish**
sn Used from 1973 forward
sn Use plural before 1973
rt Gadidae
rt Osteichthyes
- Coding**
- Codlets**
u Bregmacerotidae
- Coelacanth**
sn Used only before mid-1980
u Latimeridae
- Coelenterata**
sn Used only in 1965
sn Use Coelenterates 1966-72
u Cnidaria
- Coelomic fluids**
- Coenzymes**
sn Used from 1975 forward
- Cofferdams**
- Coherence theory**
- Cold fronts**
rt Fronts
- Coliform bacteria**
sn Used only before mid-1980
u Bacteria
- Collagens**
sn Used only before 1973
u Proteins
- Collisions**
rt Accidents
- Colloblasts**
sn Used from 1979 forward
- Colloids**
- Colonial organisms**
sn Used from 1973 forward
- Colonization**
- Color changes**
sn Also use singular before 1970
- Color discrimination**
- Color photography**
rt Photography
- Color vision**
rt Vision
- Coloration**
rt Pigmentation
- Colorimetric determination**
- Colors**
sn Also use singular before 1972
rt Water color
- Column stability**
- Comb jellies**
sn Used only before mid-1980
u Ctenophora
- Combtooth blennies**
u Blenniidae
- Combustion**
sn Used from 1970 forward
- Commensalism**
rt Amensalism
rt Associations
- Commensals**
- Commerce**
- Commercial fisheries**
rt Fisheries
- Commercial vessels**
rt Vessels
- Communication cables**
rt Cables
- Communications**
sn Also use singular before 1970
rt Animal communication
rt Divers communication
rt Radio communications
rt Satellite communications
rt Ship communications
rt Telecommunications
rt Underwater communications
- Comparative anatomy**
sn Used from 1973 forward
rt Anatomy
rt Morphology
- Comparative biochemistry**
sn Used from 1973 forward
rt Biochemistry
- Comparative morphology**
sn Used from 1973 forward
rt Morphology
- Comparative physiology**
sn Used from 1973 forward

Controlled Vocabulary

- rt Physiology
- Compasses**
 - rt Gyrocompasses
 - rt Navigation aids
- Competition**
 - rt Cooperation
- Composite materials**
 - rt Materials
- Compressed air**
 - rt Atmosphere
- Compressed air equipment**
 - rt Equipment
- Compressive loading**
 - sn Used from 1977 forward
 - rt Loading
- Compressors**
- Computer analysis**
 - sn Used from 1971 forward
- Computer programs**
- Computer simulation**
 - rt Simulation
- Computers**
 - rt Data processing
 - rt Shipboard computers
- Conchs**
 - sn Used only before mid-1980
 - u Gastropoda
- Concrete**
- Concrete construction**
- Concrete hulls**
 - rt Hulls
- Concretions**
- Condensation**
- Condensers**
- Conditioning**
- Conductivity**
 - rt Electrical conductivity
 - rt Thermal conductivity
- Conductometry**
 - sn Used from 1976 forward
 - rt Electroanalysis
- Conductor pipes**
 - rt Pipes
- Conduits**
- Conferences**
 - sn Used for document type
- Conger eels**
 - sn Used only before mid-1980
 - u Congridae
- Congridae**
 - sn Used from mid-1980 forward
 - uf Conger eels after mid-1980
 - rt Osteichthyes
- Conjugation**
 - rt Fertilization
- Connective tissues**
 - sn Used from 1973 forward
 - rt Tissues
- Conservation**
- Construction**
 - sn Use compound terms below
 - sn Used before 1970
- Construction materials**
 - rt Materials
- Construction methods**
- Container cranes**
 - sn Used from 1973 forward
 - rt Cranes
- Container design**
 - sn Used from 1973 forward
 - rt Design
- Container service**
 - sn Used from 1972 forward
- Container ships**
 - rt Cargo transport
 - rt Ships
- Containerization**
- Containers**
- Contaminant detection**
 - sn Used from 1975 forward
- Contaminant measurements**
 - sn Used from 1973 forward
- Contaminant removal**
 - sn Used from 1973 forward
 - rt Decontamination
 - rt Pollutant removal
- Contaminants**
 - sn Used from 1971 forward
- Contamination**
 - rt Fish contamination
 - rt Oil contamination
 - rt Pollution
- Continent-lithosphere interaction**
- Continental**
 - sn Use compound terms below
 - sn Used before 1968
- Continental crust**
- Continental drift**
- Continental margins**
 - sn Also use singular before 1974
- Continental plateaus**
 - rt Plateaus
- Continental rises**
 - sn Used from 1974 forward
 - sn Use singular before 1968
 - rt Rises
- Continental shelf break**
 - sn Used from 1973 forward
- Continental shelves**
 - sn Used from 1974 forward
 - sn Use singular before 1974
 - rt Outer continental shelves
- Continental slopes**
 - sn Used from 1974 forward
 - sn Use singular before 1974
 - rt Slopes
- Continental terraces**
 - sn Also use singular before 1974
 - rt Terraces
- Continents**
 - sn See Geographic Term list for specific continent names
- Contractile muscles**
 - sn Used from 1974 forward
 - rt Muscles
- Contracts**
 - sn Used for document type
- Control consoles**
 - sn Used from 1970 forward
- Control lines**
 - rt Lines
- Control valves**
 - rt Valves
- Controllable pitch propellers**
 - rt Propellers
- Convection**
 - rt Cumulus convection
- Convection clouds**
 - sn Used from 1976 forward
 - rt Clouds
- Convection currents**
 - rt Currents
- Convective diffusion**
 - sn Used from 1972 forward
 - rt Diffusion
- Convective mixing**
 - rt Mixing
- Convergence**
 - sn Used only before 1970
 - u Convergence zones
- Convergence zones**
 - uf Convergence
 - rt Intertropical Convergence Zone
- Conveyors**
- Cooling systems**
 - sn Used from 1973 forward
- Cooling waters**
 - sn Used from 1973 forward
- Cooperation**
 - rt Competition
- Copepod parasites**
 - sn Used only before 1969
- Copepoda**
 - sn Used 1964-65 and 1973 forward
 - sn Use Copepods 1966-72
 - rt Crustacea
- Copper**
- Copper alloys**
 - rt Alloys
- Copper compounds**
 - sn Used from 1974 forward
- Copper-nickel alloys**
 - sn Used only before 1973
- Coral atolls**
 - rt Atolls
- Coral islands**
 - rt Islands
- Coral reefs**
 - rt Reefs
- Corals**
 - sn Also use singular before 1967
 - uf Alcyonarians after mid-1980
 - uf Gorgonians after 1972
 - rt Anthozoa
 - rt Cnidaria
- Corbinas**
 - u Sciaenidae
- Cordillera**
- Core drilling**
 - sn Used from 1970 forward
 - rt Drilling
- Core samples**

Controlled Vocabulary

- Core-mantle interface**
Corers
Cores
rt Deep-sea cores
rt Gravity cores
rt Sediment cores
Coriolis force
Cornetfish
u Fistulariidae
Corrosion
rt Abrasion
rt Stress corrosion
Corrosion control
Corrosion prevention
Corrosion resistance
Corvinas
sn Used only before mid-1980
u Sciaenidae
Coryphaenidae
sn Used from mid-1980 forward
uf Dolphin fish after mid-1980
rt Osteichthyes
Cosmic radiation
sn Used from 1973 forward
rt Radiation
Costs
Cottidae
sn Used from mid-1980 forward
uf Bullheads
uf Sculpins after mid-1980
rt Osteichthyes
Coulometry
sn Used from 1975 forward
rt Electroanalysis
Countercurrents
rt Geostrophic countercurrents
Cow sharks
u Hexanchidae
Cowfish
u Ostraciidae
Cowries
sn Used only before mid-1980
u Gastropoda
Crab fisheries
rt Fisheries
Crabs
rt Crustacea
rt Decapoda
rt Malacostraca
Cranes
uf Davits
rt Container cranes
rt Underwater cranes
Crankshafts
sn Used from 1970 forward
Crayfish
sn Used only before mid-1980
sn Use plural before 1972
u Decapoda
Crestfish
u Lophotidae
Cretaceous
Crew boats
sn Used from 1970 forward
Crew quarters
sn Used from 1973 forward
Crinoidea
uf Feather stars
uf Sea lilies
rt Echinodermata
Croakers
sn Used only before mid-1980
u Sciaenidae
Crocodyles
sn Used only before mid-1980
u Reptilia
Crude oil
sn Used only before 1973
u Petroleum
Cruise reports
sn Used only before 1970
Cruises
sn Used before 1971 and after 1979
Crust
sn Used only before 1970
Crust-mantle interface
Crustacea
sn Used 1964-65 and 1973 forward
sn Use Crustaceans 1966-72
rt Arthropoda
rt Branchiopoda
rt Branchiura
rt Cephalocarida
rt Cirripedia
rt Copepoda
rt Malacostraca
rt Ostracoda
Crustal movement
rt Movement
Crustal plates
sn Used from 1970 forward
rt Plates
Crustal properties
Cryogenics
Cryptacanthodidae
sn Used from mid-1980 forward
uf Wrymouths
rt Osteichthyes
Crystallization
Crystallography
sn Used from 1976 forward
Ctenophora
sn Used 1964-65 and 1973 forward
sn Use Ctenophores 1967-72
uf Comb jellies after mid-1980
Cultch
sn Used from 1970 forward
Culture
sn Use compound terms below
sn Used before 1968
Culture media
Culture methods
sn Also use singular before 1970
Cumacea
sn Used from 1973 forward
rt Crustacea
rt Malacostraca
Cumulus convection
rt Convection
Curium
sn Used from 1975 forward
Curium compounds
Current data
Current forces
sn Used from 1970 forward
Current measurements
sn Used before 1974 and after 1979
Current meters
rt Electromagnetic current meters
Current velocity
sn Also use plural before 1974
rt Velocity
Currents
sn See Geographic Term list for specific currents
rt Bottom currents
rt Boundary currents
rt Coastal currents
rt Convection currents
rt Cyclonic currents
rt Downwelling
rt Drift currents
rt Ebb-tide currents
rt Electric currents
rt Equatorial currents
rt Geostrophic currents
rt Gradient currents
rt Horizontal currents
rt Impressed currents
rt Inertial currents
rt Longshore currents
rt Rip currents
rt Tidal currents
rt Turbidity currents
rt Undercurrents
rt Upwelling
rt Wind drift currents
Curricula
rt Training
Cusk-eels
u Ophidiidae
Cusplate forelands
Cuticles
Cutlass fish
sn Used only before mid-1980
u Trichiuridae
Cutlink
u Television
u Underwater communications
Cutterheads
sn Used from 1972 forward
Cutting torches
Cuttlefish
sn Also use plural before 1973
rt Cephalopoda
rt Mollusca
Cyanophyta
uf Blue-green algae after mid-1980
rt Algae
rt Sea weeds
Cyclic compounds
sn Used from 1974 forward

Controlled Vocabulary

- rt Heterocyclic compounds
- rt Hydrocarbons
- Cyclogenesis**
- Cyclones**
- Cyclonic currents**
 - sn Used from 1970 forward
 - rt Currents
- Cyclonic development**
 - rt Development
- Cyclopteridae**
 - sn Used from mid-1980 forward
 - uf Giobefish
 - uf Lumpfish after mid-1980
 - uf Lumpsuckers
 - rt Osteichthyes
- Cylinders**
 - rt Circular cylinders
 - rt Elastic cylinders
- Cylindrical shells**
 - rt Shells
- Cynoglossidae**
 - sn Used from mid-1980 forward
 - uf Tonguefish
 - rt Osteichthyes
- Cyprinidae**
 - sn Used from mid-1980 forward
 - uf Carps after mid-1980
 - rt Osteichthyes
- Cyprinodontidae**
 - sn Used from mid-1980 forward
 - uf Killifish after mid-1980
 - uf Mummichogs after mid-1980
- Cysts**
- Cytochemistry**
 - rt Chemistry
- Cytochromes**
 - sn Used from 1975 forward
 - rt Pigments
- Cytogenetics**
 - rt Genetics
- Cytology**
 - rt Anatomy
- Cytopathology**
 - sn Used from 1977 forward
 - rt Histopathology
- Dabs**
 - sn Used only before mid-1980
 - u Pleuronectidae
- Dactylopteridae**
 - sn Used from mid-1980 forward
 - uf Flying gurnards
 - rt Osteichthyes
- Dactyloscopidae**
 - sn Used from mid-1980 forward
 - uf Sand stargazers
 - rt Osteichthyes
- Daggertooth fish**
 - u Anotopteridae
- Damages**
 - sn Used only before 1970
- Damping**
 - rt Roll damping
 - rt Wave damping
- Dams**
- Damselfish**
 - sn Used only before mid-1980
 - u Pomacentridae
- Dasytidae**
 - sn Used from mid-1980 forward
 - uf Stingrays after mid-1980
 - rt Chondrichthyes
 - rt Rays
- Data**
 - sn Use compound terms below
 - sn Used before 1971
- Data acquisition**
- Data analysis**
 - sn Used only before 1968
- Data buoys**
 - rt Buoys
- Data collections**
 - sn Also use singular before 1971
- Data compilation**
 - sn Used only before 1968
- Data processing**
 - rt Computers
- Data records**
 - sn Used only before 1973
- Davits**
 - u Cranes
- DDD**
 - sn Used from mid-1980 forward
- DDE**
 - sn Used from mid-1980 forward
- DDT**
 - sn Used before 1973 and after mid-1980
- Decapoda**
 - sn Used 1964-65 and 1973 forward
 - sn Use Decapods 1966-72
 - uf Crayfish after mid-1980
 - rt Crabs
 - rt Crustacea
 - rt Lobsters
 - rt Malacostraca
 - rt Prawns
 - rt Shrimps
- Decay**
 - rt Wave decay
- Decca**
- Decks**
- Decomposition**
- Decompression**
- Decompression chambers**
- Decompression sickness**
 - uf Intravascular bubbles
- Decontamination**
 - sn Used from 1970 forward
 - rt Contaminant removal
- Deep diving**
 - rt Diving
- Deep diving chambers**
 - sn Used from 1973 forward
 - rt Diving chambers
- Deep ocean**
 - sn Used only before 1973
- Deep sea**
 - sn Also use Deep-sea before 1966
- Deep water**
 - sn Used only before 1968
- Deep wells**
 - rt Wells
- Deep-sea cores**
 - sn Used from 1973 forward
 - sn Use Deep sea cores before 1973
 - rt Cores
- Deep-sea fauna**
 - sn Used 1973 to mid-1980
 - sn Use Deep sea fauna before 1973
 - u Deep-sea organisms
- Deep-sea fishing**
 - sn Used from 1973 forward
 - sn Use Deep sea fishing before 1973
 - rt Fishing
- Deep-sea floor**
 - sn Used from 1973 forward
- Deep-sea flora**
 - u Deep-sea organisms
- Deep-sea mining**
 - sn Used from 1970 forward
 - sn Also use Deep sea mining before 1974
 - rt Mining
- Deep-sea organisms**
 - sn Used from 1973 forward
 - sn Also use Deep sea organisms before 1975
 - uf Deep-sea fauna after mid-1980
 - uf Deep-sea flora
 - rt Fauna
 - rt Flora
- Deep-sea sediments**
 - sn Used from 1973 forward
 - sn Use Deep sea sediments before 1973
 - rt Sediments
- Deep-sea smelts**
 - u Bathylagidae
- Deep-sea zones**
 - sn Used from 1973 forward
 - uf Depths after 1972
- Deepstar**
 - sn Used only before 1970
 - sn Submersible names no longer controlled terms
- Deficiency diseases**
 - sn Used from 1979 forward
 - rt Diseases
- Deflection**
- Degeneration**
 - uf Deterioration after 1975
- Degradation**
 - rt Biodegradation
 - rt Microbial degradation
- Dehydration**
- Deicing equipment**
 - sn Used from 1973 forward
 - rt Equipment
- Deltas**
 - sn Also use singular before 1968
 - sn See Geographic Term list for specific deltas
- Demersal fauna**
 - sn Used only before mid-1980
 - u Demersal organisms

Controlled Vocabulary

- Demersal fishes**
sn Used only before 1973
- Demersal flora**
u Demersal organisms
- Demersal organisms**
sn Used from 1973 forward
uf Demersal fauna after mid-1980
uf Demersal flora
rt Fauna
rt Fish
rt Flora
- Demersal zones**
sn Used from 1978 forward
- Demineralization**
- Demospongiae**
sn Used only before mid-1980
u Porifera
- Denitrification**
rt Nitrification
- Density**
rt Population density
rt Spectral density
- Density anomalies**
sn Used from 1971 forward
- Density gradients**
- Density measurements**
- Deposition**
sn Used before 1968 and after 1979
- Deposits**
rt Alluvial deposits
rt Beach deposits
rt Clastic deposits
rt Geothermal deposits
rt Glacial deposits
rt Mineral deposits
rt Mud deposits
rt Ore deposits
rt Sand deposits
rt Sedimentary deposits
rt Shallow water deposits
- Depth**
rt Thermocline depth
- Depth data**
rt STD
- Depth measurements**
sn Used before 1973 and after 1979
- Depth meters**
- Depth profiles**
- Depth zones**
- Depths**
sn Used only before 1972
u Deep-sea zones
- Derricks**
- Desalination**
- Desalination methods**
- Desalination plants**
rt Plants
- Description**
sn Used only before 1968
- Descriptive**
sn Used only before 1969
- Desiccation**
sn Used from 1970 forward
- Design**
uf Design criteria after 1972
rt Boat design
rt Buoy design
rt Container design
rt Hull design
rt Instrument design
rt RO/RO cargo design
rt Shell design
rt Ship design
- Design criteria**
sn Used only before 1973
u Design
- Desorption**
- Destroyers**
rt Warships
- Detection**
sn Used only before 1971
- Detectors**
- Detergents**
- Deterioration**
sn Used only before 1977
u Degeneration
- Determination**
sn Used only before 1972
u Compound terms, e.g., Age determination
- Detritus**
sn Used only before 1978
u Detritus particles
- Detritus particles**
uf Detritus after 1977
- Deuterium**
- Development**
rt Cyclonic development
rt Port development
- Devil rays**
u Mobulidae
- Devilfish**
u Octopi
- Devonian**
- Dextrans**
sn Used only before mid-1980
u Polysaccharides
- Diidromous fish**
sn Used from 1975 forward
rt Anadromous fish
rt Catadromous fish
rt Fish
- Diagenesis**
- Dialysis**
sn Used from 1973 forward
rt Electrodialysis
- Diamonds**
sn Use singular before 1968
- Diapirs**
- Diatoms**
rt Algae
rt Chrysophyta
- Diesels**
rt Engines
- Diet**
uf Stomach content after 1967
- Differential heating**
- Diffraction**
rt Wave diffraction
rt X-ray diffraction
- Diffusion**
rt Convective diffusion
rt Eddy diffusion
rt Exchange diffusion
rt Horizontal diffusion
rt Longitudinal diffusion
rt Turbulent diffusion
- Diffusion-advection models**
sn Used from 1972 forward
- Digestion**
- Digestive organs**
sn Used from 1973 forward
- Digestive pathologies**
sn Used from 1976 forward
- Digestive systems**
sn Used from 1973 forward
- Digital data**
- Digital recorders**
- Digitizers**
- Dikes**
- Dimorphism**
rt Polymorphism
rt Sexual dimorphism
- Dinghies**
sn Used from 1972 forward
- Dinoflagellates**
rt Algae
rt Pyrrophyta
- Diodes**
sn Used from 1976 forward
- Diodontidae**
sn Used from mid-1980 forward
uf Burrfish
uf Porcupine fish
rt Osteichthyes
- Diocicism**
sn Used from 1974 forward
rt Hermaphroditism
- Diploids**
sn Used from 1975 forward
rt Haploids
- Direction**
sn Used only before 1970
u Compound terms, e.g., Wind direction
- Direction finding**
rt Navigation
- Directories**
sn Used for document type
- Disaccharides**
sn Used only before mid-1980
u Oligosaccharides
- Disasters**
sn Used only before 1971
sn Also use singular before 1971
- Discoloration**
rt Water discoloration
- Diseases**
rt Deficiency diseases
rt Infectious diseases
rt Injuries
- Dispersants**
- Dispersion**

Controlled Vocabulary

- rt Longitudinal dispersion
- Displacement**
 - sn Used only before 1966
- Displacement-length ratios**
- Dissolved**
 - sn Use compound terms below
 - sn Used before 1967
- Dissolved gases**
- Dissolved inorganic compounds**
 - sn Used from 1974 forward
- Dissolved organic carbon**
 - sn Used only before 1973
 - u Dissolved organic compounds
- Dissolved organic compounds**
 - sn Used from 1970 forward
 - uf Dissolved organic carbon
 - uf Dissolved organic matter
- Dissolved organic matter**
 - sn Used only before 1973
 - u Dissolved organic compounds
- Dissolved oxygen**
 - sn Used before 1974
 - u DO
- Distillation**
 - rt Flash distillation
 - rt Freeze distillation
 - rt Multi-stage flash distillation
 - rt Solar distillation
- Distillation plants**
 - rt Plants
- Distribution**
 - sn Not geographic
 - rt Chlorophyll distribution
 - rt Cloud distribution
 - rt Horizontal distribution
 - rt Longitudinal distribution
 - rt Oxygen distribution
 - rt Particle size distribution
 - rt Plankton distribution
 - rt Pollution distribution
 - rt Pressure distribution
 - rt Spatial distribution
 - rt Vertical distribution
- Diurnal**
 - sn Use compound terms below
 - sn Used before 1967
- Diurnal activity**
 - sn Used only before 1973
- Diurnal cycles**
 - sn Used from 1973 forward
 - rt Circadian rhythm
- Diurnal migrations**
 - sn Used only before 1973
- Diurnal rhythms**
 - sn Used only before 1973
- Diurnal variations**
 - rt Nocturnal variations
- Diver performance**
 - sn Used only before 1973
- Divergence**
- Divers**
- Divers communication**
 - rt Communications
- Divers health**
- Divers physiology**
 - sn Used from 1971 forward
 - rt Physiology
- Divers safety**
- Divers training**
 - rt Training
- Divers visual acuity**
 - rt Visual acuity
- Divers work**
- Dives**
 - sn Used from 1973 forward
 - rt Helium dives
- Diving**
 - rt Deep diving
 - rt Saturation diving
 - rt Scuba diving
 - rt Skin diving
- Diving bells**
 - sn Also use singular before 1972
- Diving chambers**
 - rt Deep diving chambers
- Diving equipment**
 - rt Equipment
- Diving hazards**
- Diving industry**
 - rt Industries
- Diving saucers**
 - sn Used only before 1973
 - u Submersibles
- Diving suits**
- Diving vehicles**
 - rt Vehicles
- DNA**
 - sn Used only before 1973
 - u Nucleic acids
- DO**
 - sn Used from 1973 forward
 - uf Dissolved oxygen after 1973
 - rt Oxygen
- Docking**
 - rt Berths
- Docks**
 - rt Dry docks
- Dogfish**
 - sn Used only before mid-1980
- Dogfish sharks**
 - u Squalidae
- Dolomites**
 - sn Use singular before 1968
- Dolphin fish**
 - sn Used only before mid-1980
 - u Coryphaenidae
- Dolphins**
 - rt Cetacea
 - rt Mammalia
- Domes**
 - rt Salt domes
 - rt Sonar domes
- Domestic wastes**
 - sn Used from 1973 forward
- Doppler**
 - sn Use compound terms below
 - sn Used before 1970
- Doppler navigation**
 - rt Navigation
- Doppler shift**
- Doppler sonar**
 - rt Sonar
- Doppler spectra**
 - sn Used from 1970 forward
- Dories**
 - sn Used only before mid-1980
 - u Zeidae
- DOT**
 - sn Used only before 1972
 - sn Used for Deep Ocean Technology
- Downwelling**
 - sn Used from 1976 forward
 - rt Currents
 - rt Water movement
- Drag**
 - sn Use compound terms below
 - sn Used before 1972
- Drag coefficients**
 - sn Also use singular before 1972
- Drag measurements**
- Drag reduction**
 - rt Fairings
- Dragonets**
 - sn Used only before mid-1980
 - u Callionymidae
- Dragonfish**
 - u Idiacanthidae
 - u Melanostomiatidae
 - u Stomiidae
- Drainage**
- Dredge spoil**
 - sn Used from 1973 forward
- Dredgers**
 - sn Used only before 1973
- Dredges**
 - rt Hydraulic dredges
- Dredging**
- Dredging equipment**
 - rt Equipment
- Dredging industry**
 - rt Industries
- Dredging pumps**
 - sn Used only before 1973
- Drift**
 - sn Use compound terms below
 - sn Used before 1968
- Drift currents**
 - rt Currents
 - rt Wind drift current
- Drift ice**
 - rt Ice
- Drift measurements**
- Drift patterns**
- Drift stations**
 - sn Used from 1975 forward
 - sn Use Drifting stations before 1973
 - rt Stations
- Drilling**
 - rt Core drilling
 - rt Offshore drilling
 - rt Oil drilling
 - rt Well drilling

Controlled Vocabulary

- Drilling equipment**
rt Equipment
- Drilling operations**
- Drilling platforms**
rt Platforms
- Drilling rigs**
uf Offshore drilling rigs after 1972
rt Rigs
- Drilling vessels**
rt Vessels
- Drillships**
sn Used only before 1973
- Drogues**
sn Used from 1972 forward
- Drugs**
rt Pharmacology
- Drummers**
u Kyphosidae
- Drums**
sn Used only before mid-1980
u Sciaenidae
- Dry docks**
rt Docks
- Dry weight**
rt Weight
- DSDP**
sn Used only before 1975
sn Used for Deep Sea Drilling Project
- DSL**
sn Used only before 1975
sn Used for Deep Scattering Layer
- DSRV**
sn Used only before 1975
sn Used for Deep Submergence Rescue Vehicle
- DSSP**
sn Used only before 1973
sn Used for Deep Submergence Systems Project
- DSV**
sn Used only before 1973
sn Used for Deep Submergence Vehicle
- Ducks**
sn Used only before mid-1980
u Aves
- Ducted propellers**
rt Propellers
- Ducts**
rt Surface ducts
- Dugongs**
sn Used only before mid-1980
u Sirenia
- Dunes**
rt Sand dunes
- Dusters**
- Dusts**
sn Used from 1973 forward
sn Use singular before 1973
rt Volcanic dust
- Dyes**
- Dynamic positioning**
rt Positioning
- Dynamics**
sn Used only before 1968
- Dysommidae**
sn Used from mid-1980 forward
uf Arrowtooth eels
rt Osteichthyes
- Dysprosium**
sn Used from 1980 forward
- Dysprosium compounds**
sn Used from 1980 forward
- Eagle rays**
sn Used only before mid-1980
u Myliobatidae
- Ears**
rt Sense organs
- Earth**
sn Used only before 1966
- Earth tides**
rt Tides
- Earthquake epicenters**
rt Epicenters
- Earthquakes**
- Earths crust**
sn Used only before 1972
- Earths magnetic field**
sn Used only before 1972
- Earths mantle**
sn Used only before 1971
- Earths rotation**
- Easterly waves**
rt Waves
- Ebb-tide currents**
rt Currents
- Echeneidae**
sn Used from mid-1980 forward
uf Remoras
uf Shark suckers
uf Suckers
rt Osteichthyes
- Echinodera**
u Kinorhyncha
- Echinodermata**
sn Used 1964-65 and 1973 forward
sn Use Echinoderms 1966-72
rt Asteroidea
rt Crinoidea
rt Echinoidea
rt Holothuroidea
rt Ophiuroidea
- Echinoidea**
sn Also use Echinoids before 1973
uf Heart urchins
uf Sand dollars after mid-1980
uf Sea urchins after mid-1980
rt Echinodermata
- Echiurida**
sn Used from mid-1980 forward
uf Echiuroidea after mid-1980
- Echiuroidea**
sn Used only before mid-1980
sn Also use Echiuroids before 1973
u Echiurida
- Echo ranging**
sn Used only before 1972
- Echo sounding**
sn Also use Echo-sounding before 1970
rt Sounding
- Echo surveys**
rt Surveys
- Echoes**
- Echograms**
sn Use singular before 1967
- Echolocation**
- Ecology**
rt Paleocology
rt Radioecology
- Economics**
sn Use with period for full 1973 set
rt Geoeconomics
- Ecosystems**
rt Biocenoses
- Ectoprocta**
sn Used from 1973 forward
uf Bryozoa
uf Moss animals
- Eddies**
sn Use singular before 1967
- Eddy diffusion**
rt Diffusion
- Education**
rt Training
- Eelpouts**
u Zoarcidae
- Eels**
rt Anguillidae
rt Congridae
rt Dysommidae
rt Moringuidae
rt Muraenesocidae
rt Muraenidae
rt Nemichthyidae
rt Notacanthidae
rt Ophichthidae
rt Xenocongridae
- Effluent disposal**
rt Waste disposal
- Effluents**
rt Radioactive effluents
rt Waste effluents
- Egg laying**
- Eggs**
rt Fish eggs
- Eggshell thickness**
sn Used from 1970 forward
- Eh**
- Einsteinium**
sn Used from 1980 forward
- Einsteinium compounds**
sn Used from 1980 forward
- Ekman boundary layers**
rt Boundary layers
- Ekman flow**
- Ekman layers**
- Ekman spiral**
- Ekman transport**
sn Used before 1968 and after 1979
- Elastobranchs**
sn Used only before 1976
sn Use Elastobranchii before 1967
u Chondrichthyes

Controlled Vocabulary

- Elastic cylinders**
rt Cylinders
- Elastic waves**
rt Waves
- Elasticity**
uf Hydroelasticity after 1972
- Electric**
sn Use compound terms below
sn Used before 1971
- Electric currents**
rt Currents
- Electric discharges**
sn Used from 1973 forward
sn Use singular before 1973
- Electric energy**
sn Used from 1973 forward
- Electric fields**
uf Electrical fields after 1972
rt Electromagnetic fields
- Electric fishing**
sn Used from 1973 forward
rt Fishing
- Electric motors**
- Electric organs**
sn Used from 1975 forward
- Electric power**
rt Hydroelectric power
rt Power sources
- Electric power plants**
sn Used from 1973 forward
uf Electric power stations after 1972
rt Power plan
- Electric power stations**
sn Used only before 1973
u Electric power plants
- Electric rays**
sn Used only before mid-1980
u Torpedinidae
- Electrical conductivity**
rt Conductivity
- Electrical fields**
sn Used only before 1973
u Electric fields
- Electricity**
rt Thermoelectricity
- Electroacoustics**
sn Used only before 1973
u Acoustics
- Electroanalysis**
sn Used from 1973 forward
rt Conductometry
rt Coulomet
- Electrochemical**
sn Used only before 1966
- Electrochemistry**
sn Used from 1973 forward
rt Chemistry
- Electrodes**
- Electrodialysis**
rt Dialysis
- Electrolysis**
- Electrolytes**
- Electromagnetic**
sn Use compound terms below
sn Used before 1966
- Electromagnetic current meters**
sn Used from 1972 forward
rt Current meters
- Electromagnetic energy**
- Electromagnetic fields**
rt Electric fields
rt Magnetic fields
- Electromagnetic induction**
- Electromagnetic radiation**
sn Used from 1975 forward
rt Radiation
- Electromagnetics**
sn Use singular before 1966
rt Magnetics
- Electron micrographs**
sn Used only before 1966-67
- Electron microscopy**
sn Used before 1973 and after 1979
rt Microscopy
- Electronic equipment**
rt Equipment
- Electronic instruments**
rt Instruments
- Electronic positioning**
sn Used from 1971 forward
rt Positioning
- Electronics**
- Electrophoresis**
- Eleotridae**
sn Used from mid-1980 forward
uf Sleepers
rt Osteichthyes
- Elopidae**
sn Used from mid-1980 forward
uf Tarpons after mid-1980
rt Osteichthyes
- Embankments**
- Embiotocidae**
sn Used from mid-1980 forward
uf Seaperch
uf Surfperch after mid-1980
rt Osteichthyes
- Embryogeny**
sn Used from 1972 forward
- Embryology**
- Embryos**
- Emission spectroscopy**
sn Used from 1974 forward
rt Spectroscopy
- Emmelichthyidae**
sn Used from mid-1980 forward
uf Bonnetmouths
rt Osteichthyes
- Emulsifiers**
- Emulsions**
sn Used from 1974 forward
- Endangered species**
sn Used from 1973 forward
rt Extinct species
- Endemic fauna**
sn Used from 1972 forward
rt Fauna
- Endocrine glands**
sn Used from 1970 forward
rt Exocrine glands
rt Glands
- Endocrine pathologies**
sn Used from 1975 forward
- Endocrine systems**
sn Used from 1973 forward
- Endocrinology**
- Endogenous rhythms**
rt Exogenous rhythms
- Endoskeletons**
sn Used from 1973 forward
rt Exoskeletons
rt Skeletons
- Endozoic plants**
sn Used from 1973 forward
rt Epiphytes
rt Epizoites
- Energy**
sn Use compound terms below
sn Used before 1975
- Energy balance**
- Energy budget**
- Energy conversion**
- Energy exchange**
- Energy flux**
sn Also use plural before 1973
- Energy spectra**
sn Also use singular before 1972
- Energy transfer**
- Engineering**
rt Bioengineering
rt Civil engineering
rt Hydraulic engineering
rt Mechanical engineering
rt Ocean engineering
rt Petroleum engineering
rt Underwater engineering
- Engineering data**
- Engines**
uf Outboard motors
rt Diesels
rt Steam engines
- Engraulidae**
sn Used from mid-1980 forward
rt Anchovies
rt Osteichthyes
- Enteric bacteria**
sn Used only before mid-1980
u Bacteria
- Entoprocta**
sn Used 1964-69 and 1973 forward
sn Use Entoprocts before 1973
- Environment**
sn Used only before 1968
- Environmental changes**
- Environmental conditions**
- Environmental data**
sn Used only before 1972
- Environmental factors**
sn Used only before 1972
- Environmental hazards**
- Environmental impact**
sn Used from 1975 forward

Controlled Vocabulary

- Environmental management**
 - sn Used from 1970 forward
 - rt Management
- Environmental parameters**
 - sn Used only before 1973
- Environmental protection**
 - sn Used from 1973 forward
- Environmental surveillance**
 - rt Surveillance
- Environmental variations**
 - sn Used only before 1972
- Enzymes**
- Enzymology**
- Eocene**
 - sn Used only before 1973
 - u Tertiary
- Eolian processes**
- Eolian sediments**
 - sn Used from 1971 forward
 - uf Aeolian sediments
 - rt Sediments
- Epeirogeny**
- Ephippidae**
 - sn Used from mid-1980 forward
 - uf Spadefish
 - rt Osteichthyes
- Epicenters**
 - rt Earthquake epicenters
- Epicontinental seas**
- Epidemiology**
 - sn Used from 1975 forward
- Epifauna**
 - rt Infauna
- Epinephrine**
 - sn Used from 1976 forward
- Epipelagic fauna**
 - sn Used from 1973 forward
 - rt Fauna
- Epipelagic flora**
 - rt Flora
- Epipelagic organisms**
 - sn Used from 1974 forward
- Epiphytes**
 - rt Endozoic plants
- Epizoites**
 - rt Endozoic plants
- Epizootics**
- Epoxies**
 - sn Use singular before 1967
- Epoxy coatings**
 - rt Coatings
- Epoxy resins**
 - rt Resins
- Equilibrium**
 - rt Geostrophic equilibrium
 - rt Hydrostatic equilibrium
 - rt Isostatic equilibrium
- Equipment**
 - rt Compressed air equipment
 - rt Deicing equipment
 - rt Diving equipment
 - rt Dredging equipment
 - rt Drilling equipment
 - rt Electronic equipment
 - rt Fishing equipment
 - rt Loading equipment
 - rt Offshore equipment
 - rt Photographic equipment
 - rt Pollution control equipment
 - rt Rescue equipment
 - rt Seismic equipment
 - rt Shipboard equipment
 - rt Survey equipment
 - rt Survival equipment
 - rt Tools
- Erbium**
 - sn Used from 1980 forward
- Erbium compounds**
 - sn Used from 1980 forward
- Erosion**
 - rt Beach erosion
- Erosion control**
- Erythrocytes**
 - sn Used only before 1973
 - u Blood cells
- Escolars**
 - sn Used only before mid-1980
 - u Gempylidae
- Esophagi**
 - sn Used from 1973 forward
- Esters**
 - sn Used from 1973 forward
 - rt Hydrocarbons
 - rt Phosphatidyl esters
- Estuaries**
 - sn See Geographic Term list for specific estuaries
 - rt Tidal estuaries
- Estuarine fauna**
 - rt Fauna
- Estuarine flora**
 - sn Used from 1973 forward
 - rt Flora
- Estuarine organisms**
- Estuarine zones**
 - sn Used from 1973 forward
- Ethers**
 - sn Used from 1974 forward
 - rt Glyceryl ethers
 - rt Hydrocarbons
- Etiology**
- Euglenophyta**
 - sn Used from 1974 forward
 - rt Algae
- Eulittoral fauna**
 - sn Used from 1974 forward
 - rt Fauna
- Eulittoral flora**
 - sn Used from 1974 forward
 - rt Flora
- Eulittoral organisms**
 - sn Used from 1973 forward
- Eulittoral zones**
 - sn Used from 1973 forward
 - rt Littoral zones
 - rt Sublittoral zones
- Euphausiacea**
 - uf Krill
 - rt Crustacea
 - rt Malacostraca
- Europium**
 - sn Used from 1977 forward
- Europium compounds**
 - sn Used from 1980 forward
- Europoort**
- Euryhaline**
 - rt Stenohaline
- Eustacy**
 - uf Eustatic changes after 1972
- Eustatic changes**
 - sn Used only before 1973
 - u Eustacy
- Eutrophication**
- Evaporation**
 - rt Flash evaporation
 - rt Solar evaporation
- Evaporators**
 - rt Flash evaporators
- Evaporites**
- Evolution**
- Excavation**
- Exchange**
 - sn Used only before 1967
- Exchange diffusion**
 - rt Diffusion
- Excretion**
 - rt Feces
 - rt Urine
- Excretion pathologies**
 - sn Used from 1980 forward
- Excretory organs**
 - sn Used from 1974 forward
 - uf Antennal gland
- Excretory systems**
 - sn Used from 1971 forward
 - sn Use singular before 1971
- Exocoetidae**
 - sn Used from mid-1980 forward
 - uf Flying fish
 - uf Halfbeaks after mid-1980
 - rt Osteichthyes
- Exocrine glands**
 - sn Used from 1973 forward
 - rt Endocrine glands
 - rt Glands
- Exogenous rhythms**
 - sn Used from 1974 forward
 - rt Endogenous rhythms
- Exoskeletons**
 - sn Used from 1973 forward
 - rt Endoskeletons
 - rt Skeletons
- Expeditions**
 - sn Used only before 1968
- Experimental**
 - sn Used only before 1968
- Exploitation**
 - uf Ocean exploitation after 1972
 - rt Mineral exploitation
 - rt Offshore exploitation
 - rt Oil exploitation
 - rt Petroleum exploitation

Controlled Vocabulary

Exploration

- uf Ocean exploration after 1972
- rt Geophysical exploration
- rt Mineral exploration
- rt Offshore exploration
- rt Oil exploration
- rt Petroleum exploration
- rt Seismic exploration
- rt Underwater exploration

Exploratory fishing

- rt Fishing

Explosions

- rt Nuclear explosions
- rt Underwater explosions

Explosives

- rt Nuclear explosives

Exports

Extinct species

- sn Used from 1974 forward
- rt Endangered species

Extraction

- rt Mineral/Chemical extraction

Extracts

Eye lens

- sn Used only before 1973
- u Eyes

Eyes

- uf Eye lens after 1972
- rt Sense organs

Eyespots

- sn Used from 1974 forward
- sn Use singular before 1973

Eyestalks

- sn Also use singular before 1971

Facies

- rt Clay facies
- rt Sediment facies

Facilities

- sn Used only before 1976
- u Compound terms, e.g., Port facilities

Factory ships

- rt Ships

Fairings

- rt Drag reduction

Fallout measurements

False morays

- u Xenocongridae

Fan valleys

- sn See Geographic term list for specific names
- rt Valleys

Fans

Fat

- sn Used only before 1968

Fat content

- rt Lipids

Fatigue

Fatty acids

- rt Acids

Fault zones

Faulti

Faults

- sn Used only before 1968
- sn See Geographic Term list for specific

faults

Fauna

- rt Abyssal organisms
- rt Bathyal organisms
- rt Bathypelagic organisms
- rt Beach fauna
- rt Benthic fauna
- rt Deep-sea organisms
- rt Demersal organisms
- rt Endemic fauna
- rt Epipelagic fauna
- rt Estuarine fauna
- rt Eulittoral fauna
- rt Hadal organisms
- rt Interstitial fauna
- rt Littoral fauna
- rt Macrofauna
- rt Marine fauna
- rt Mesopelagic fauna
- rt Microfauna
- rt Pelagic fauna
- rt Sand organisms
- rt Sessile organisms
- rt Sublittoral fauna

Fauna list

- sn Used only before 1968

Feasibility studies

Feather stars

- sn Used only before mid-1980
- u Crinoidea

Feces

- rt Excretion

Fecundity

- rt Fertility

Federal agencies

- rt Government agencies
- rt State agencies

Federal policies

- sn Used from 1973 forward
- uf National policies after 1972
- uf US government policies after 1972
- uf US national policies after 1972
- rt Government policies
- rt State policies

Federal programs

- sn Used from 1973 forward
- uf US government programs after 1972
- rt Government programs
- rt State programs

Federal regulations

- rt Government regulations
- rt Legislation
- rt State regulations

Feeding

- uf Grazing after 1972
- rt Foods

Feeding grounds

Feeding habits

Feeding mechanisms

- sn Also use singular before 1969

Feldspar

Females

Fenders

Fermium

- sn Used from 1980 forward

Ferrium compounds

- sn Used from 1980 forward

Ferries

Ferro-cement

Fertility

- rt Fecundity

Fertilization

- rt Conjugation

Fetches

Fetuses

- sn Used from 1974 forward
- rt Embryos
- rt Young

Fiber optics

- rt Optics

Fiberglass

Filaments

Filefish

- sn Used only before mid-1980
- u Balistidae

Filled lands

Film

- sn Also use plural before 1971

Filter feeders

Filters

Filtration

- rt Gel filtration
- rt Hyperfiltration
- rt Separation processes

Fine structure

- sn Used only before 1971
- u Microstructure or Ultrastructure

Fingerlings

- sn Used from 1973 forward
- rt Fish fry

Fins

Fire hazards

Fire prevention

Fish

- sn Use as combining term
- sn Also use plural before 1974
- sn See Fish Families, Section J
- rt Anadromous fish
- rt Bathypelagic organisms
- rt Catadromous fish
- rt Demersal organisms
- rt Diadromous fish
- rt Mesopelagic fauna
- rt Pelagic fauna

Fish attraction

- uf Fish luring after 1970
- rt Bait

Fish behavior

- rt Behavior

Fish catches

Fish collecting

Fish contamination

- rt Contamination

Fish counters

Fish cultivation

- u Fish culture

Fish culture

Controlled Vocabulary

- uf Fish cultivation
- uf Fish-farming after mid-1980
- rt Aquaculture
- Fish detection**
- Fish eggs**
 - rt Eggs
- Fish fauna**
 - sn Used only before 1973
- Fish fillets**
- Fish finding**
 - sn Used only before 1973
- Fish fry**
 - uf Fry
 - rt Fingerlings
 - rt Young
- Fish handling**
- Fish harvesting**
 - rt Harvesting
- Fish kills**
 - sn Also use Fishkills before 1973
- Fish larvae**
 - rt Larvae
- Fish lice**
 - sn Used only before mid-1980
 - u Branchiura
- Fish luring**
 - sn Used only before 1970
 - u Fish attraction
- Fish marketing**
- Fish meal**
- Fish migration**
 - sn Used from 1973 forward
 - rt Migration
- Fish mortality**
 - rt Mortality
- Fish noises**
 - sn Used from 1975 forward
 - sn Use singular before 1973
- Fish oils**
 - rt Oils
- Fish parasites**
 - rt Parasites
- Fish poisoning**
 - rt Poisoning
- Fish ponds**
- Fish preservation**
 - rt Preservation
- Fish processing**
- Fish products**
- Fish protein concentrates**
 - u FPC
- Fish protein products**
 - rt FPC
- Fish schools**
 - uf Schooling after 1971
- Fish shoals**
 - rt Shoals
- Fish statistics**
 - rt Statisti
- Fish stocks**
 - rt Stocks
- Fish storage**
 - rt Frozen fish
 - rt Storage
- Fish tags**
 - rt Tags
- Fish-farming**
 - sn Used only before mid-1980
 - sn Use Fish farming before 1974
 - u Fish culture after mid-1980
- Fisheries**
 - rt Clam fisheries
 - rt Commercial fisheries
 - rt Crab fisheries
 - rt Flatfish fisheries
 - rt Haddock fisheries
 - rt Hake fisheries
 - rt Halflin fisheries
 - rt Herring fisheries
 - rt International fisheries
 - rt Lobster fisheries
 - rt Mackerel fisheries
 - rt Oyster fisheries
 - rt Prawn fisheries
 - rt Salmon fisheries
 - rt Shellfish fisheries
 - rt Shrimp fisheries
 - rt Sport fisheries
 - rt Trawl fisheries
 - rt Tuna fisheries
 - rt Whale fisheries
- Fisheries forecasting**
 - rt Forecasting
- Fisheries legislation**
 - rt Legislation
- Fisheries management**
 - rt Management
- Fisheries resources**
 - sn Also use Fishery resources before 1972
 - rt Resources
- Fishery biology**
 - rt Biology
- Fishery products**
- Fishery statistics**
- Fishery zones**
- Fishing**
 - rt Deep-sea fishing
 - rt Electric fishing
 - rt Exploratory fishing
 - rt Light fishing
 - rt Longline fishing
 - rt Overfishing
 - rt Sport fishing
 - rt Trawling
- Fishing boats**
 - sn Used only before 1973
- Fishing efficiency**
- Fishing equipment**
 - rt Equipment
- Fishing gear**
 - sn Used only before 1973
- Fishing grounds**
- Fishing industry**
 - rt Canneries
 - rt Industries
- Fishing limits**
- Fishing methods**
- Fishing rights**
- Fishing vessels**
 - rt Vessels
- Fishing zones**
- Fission**
 - sn Used only before mid-1980
 - u Asexual reproduction
- Fistulariidae**
 - sn Used from mid-1980 forward
 - uf Cornetfish
 - uf Flutemouths
 - rt Osteichthyes
- Fixed platforms**
 - rt Platforms
- Fjords**
 - sn Use singular before 1967
 - sn See Geographic Term list for specific fjords
- Flagella**
- Flagellata**
 - sn Used only before mid-1980
 - u Protozoa
- Flagellates**
- Flash distillation**
 - rt Distillation
- Flash evaporation**
 - rt Evaporation
- Flash evaporators**
 - rt Evaporators
- Flash freezing**
 - rt Freezing
- Flatfish**
 - sn Also use plural before 1973
 - rt Bothidae
 - rt Cynoglossidae
 - rt Pleuronectidae
 - rt Soleidae
- Flatfish fisheries**
 - rt Fisheries
- Flatheads**
 - u Percopididae
- Flatworms**
 - sn Used only before mid-1980
 - u Platyhelminthes
- Fleas**
 - sn Used only before mid-1980
 - u Amphipoda
- Flies**
 - u Insecta
- FLIP**
 - sn used only before 1972
 - sn Used for Floating Laboratory Instrument Platform
- Floating breakwaters**
 - rt Breakwaters
- Floating platforms**
 - rt Platforms
- Floating rigs**
 - rt Rigs
- Floating structures**
- Floating vessels**
 - sn Used only before 1973
- Floats**
- Flocculation**
 - rt Coagulation

Controlled Vocabulary

- Floor**
 - sn Used only before 1972
 - u Ocean floor
- Flora**
 - rt Abyssal organisms
 - rt Algae
 - rt Bathyal organisms
 - rt Bathypelagic organisms
 - rt Beach flora
 - rt Benthic flora
 - rt Deep-sea organisms
 - rt Demersal organisms
 - rt Epipelagic flora
 - rt Estuarine flora
 - rt Eulittoral flora
 - rt Hadal organisms
 - rt Littoral flora
 - rt Macroflora
 - rt Marine flora
 - rt Mesopelagic flora
 - rt Microflora
 - rt Pelagic flora
 - rt Sand organisms
 - rt Sessile organisms
 - rt Sublittoral flora
- Flounders**
 - sn Used only before mid-1980
 - u Bothidae
 - u Pleuronectidae
- Flow**
 - sn Use compound terms below
 - sn Used before 1967
- Flow leads**
- Flow lines**
 - rt Lines
- Flow noise**
 - rt Noises
- Flow patterns**
 - sn Used only before 1971
- Flow profile**
- Flow rates**
- Flow velocity**
 - rt Velocity
- Flowmeters**
- Fluid**
 - sn Use compound terms below
 - sn Used before 1967
- Fluid flow**
 - rt Jet flow
- Fluid mechanics**
- Fluid motion**
- Fluid volumes**
 - sn Used from 1974 forward
- Fluidics**
 - sn Used from 1973 forward
- Flukes**
 - u Trematoda
- Fluorescence**
 - rt Luminescence
 - rt Phosphorescence
- Fluorine**
- Fluorine compounds**
- Flutemouths**
 - u Fistulariidae
- Flying fish**
 - u Exocoetidae
- Flying gurnards**
 - u Dactylopteridae
- Flysch sediments**
 - rt Sediments
- Foam**
- Fog horns**
- Fogs**
 - sn Also use singular before 1970
- Food chains**
 - sn Used from 1970 forward
 - sn Also use singular before 1974
- Food composition**
- Food fish**
- Food intake**
 - sn Used only before 1973
 - u Feeding or Feeding mechanisms
- Food resources**
 - rt Resources
- Food sources**
- Foods**
 - sn Used from 1973 forward
 - sn Use singular before 1973
 - rt Feeding
- Footballfish**
 - u Himantolophidae
- Foraminifera**
 - rt Benthic foraminifera
 - rt Calcareous foraminifera
 - rt Planktonic foraminifera
- Foraminiferal zonation**
 - rt Zonation
- Forced waves**
 - rt Waves
- Forecast**
 - sn Used only before 1968
- Forecasting**
 - uf Prediction after 1967
 - rt Fisheries forecasting
 - rt Ice forecasting
 - rt Wave forecasting
 - rt Weather forecasting
- Fossil beaches**
 - rt Beaches
- Fossil reefs**
 - rt Reefs
- Fossils**
 - rt Microfossils
- Fouling**
 - rt Biofouling
- Fouling communities**
- Fouling organisms**
- Fouling prevention**
 - rt Antifouling systems
- Fouling resistance**
- Fourier analysis**
 - uf Harmonic analysis after 1969
- FPC**
 - uf Fish protein concentrates
 - rt Fish protein products
- Fracture behavior**
 - rt Behavior
- Fracture gradients**
 - sn Used from 1970 forward
- Fracture mechanics**
- Fracture zones**
 - sn See Geographic Term list for specific names
- Francium**
 - sn Used from 1980 forward
- Francium compounds**
 - sn Used from 1980 forward
- Free-living flatworms**
 - u Turbellaria
- Freeze separation process**
- Freeze-distillation**
 - sn Used from 1972 forward
 - rt Distillation
- Freeze-drying**
 - sn Used from 1970 forward
 - sn Use Freeze drying before 1970
- Freezer trawlers**
 - sn Used from 1970 forward
 - rt Trawlers
- Freezing**
 - rt Flash freezing
- Freighters**
 - rt Ships
- Frequencies**
 - sn Use singular before 1967
 - rt Impulse frequencies
 - rt Radio frequencies
 - rt Wave frequencies
- Frequency dependence**
- Frequency discrimination**
- Frequency distribution**
 - sn Used only before 1968
- Frequency inhomogeneities**
 - rt Inhomogeneities
- Frequency response**
- Frequency spectra**
- Fresh waters**
 - sn Used from 1973 forward
 - sn Use singular before 1972
 - sn Use Freshwater in 1972
- Freshwater eels**
 - sn Used only before mid-1980
 - u Anguillidae
- Friction**
 - rt Skin friction
 - rt Tidal friction
- Friction coefficients**
- Friction reduction**
- Frill sharks**
 - u Chlamydoselachidae
- Frogfish**
 - u Antennariidae
- Frolds**
- Frontal zones**
- Fronts**
 - rt Cold fronts
 - rt Hydrologic fronts
 - rt Kuroshio-Oyashio front
 - rt Polar front
 - rt Weather conditions
- Frozen fish**
 - sn Used from 1970 forward

Controlled Vocabulary

- rt Fish storage
- Fry**
 - u Fish fry
- Fuel cells**
- Fuel injection**
 - sn Used from 1971 forward
- Fuel oils**
 - rt Oils
- Fuels**
 - rt Nuclear fuels
- Fungi**
 - uf Phycomycetes after 1972
 - uf Yeasts after 1972
- Fur seals**
 - sn Used only before 1973
 - u Seals
- Furrows**
 - sn Used from 1972 forward
- Gadidae**
 - sn Used from mid-1980 forward
 - uf Pollocks after 1972
 - uf Whittings
 - rt Codfish
 - rt Haddock
 - rt Hakes
 - rt Osteichthyes
- Gadolinium**
 - sn Used from 1980 forward
- Gadolinium compounds**
 - sn Used from 1980 forward
- Gales**
- Gallbladders**
 - sn Used from 1978 forward
- Gallium**
- Gallium compounds**
 - sn Used from 1980 forward
- Gametes**
 - rt Eggs
 - rt Sperm
- Gametogenesis**
 - rt Oogenesis
 - rt Spermatogenesis
- Gametophytes**
 - rt Alternation of generations
 - rt Sporophytes
- Gamma radiation**
 - rt Radiation
- Gamma ray spectrometry**
 - rt Spectrometry
- Gangliosides**
 - u Sphingolipids
- Garfish**
 - u Belonidae
- Gas bubbles**
 - rt Bubbles
- Gas chromatography**
 - rt Chromatography
- Gas exchange**
- Gas fields**
- Gas industry**
 - rt Industries
- Gas production**
 - rt Production
- Gas turbines**
 - rt Turbines
- Gas wells**
 - rt Wells
- Gases**
 - sn Also use singular before 1972
 - rt Liquefied gases
 - rt Natural gases
 - rt Rare gases
- Gasterosteidae**
 - sn Used from mid-1980 forward
 - uf Sticklebacks after mid-1980
 - rt Osteichthyes
- Gastropoda**
 - sn Used 1964-65 and 1973 forward
 - sn Use Gastropods 1966-72
 - uf Abalones after mid-1980
 - uf Conchs after mid-1980
 - uf Cowries after mid-1980
 - uf Limpets after mid-1980
 - uf Oyster drills
 - uf Oysters after mid-1980
 - uf Periwinkles after mid-1980
 - uf Pteropods after 1972
 - uf Sea hares after mid-1980
 - uf Slugs after mid-1980
 - uf Snails after mid-1980
 - uf Whelks after mid-1980
 - rt Mollusca
 - rt Opisthobranchia
 - rt Prosobranchia
- Gastrotricha**
 - sn Used from 1973 forward
 - sn Use Gastrotrichs before 1973
 - rt Aschelminthes
- Gears**
 - sn Used from 1970 forward
- GEK**
 - sn Used only before 1966
 - sn Used for Geomagnetic Electrokinetograph
- Gel filtration**
 - sn Also use Gel-filtration before 1967
 - rt Filtration
- Gelbstoff**
- Gels**
- Gempylidae**
 - sn Used from mid-1980 forward
 - uf Barracoutas after mid-1980
 - uf Escolars after mid-1980
 - uf Snake mackerels
 - rt Osteichthyes
- Generators**
 - rt Pneumatic wave generators
 - rt Signal generators
 - rt Sound generators
- Genes**
 - rt Nucleic acids
- Genetics**
 - uf Heredity
 - rt Cytogenetics
- Genitalia**
 - sn Used before 1973 and after 1979
- Genotypes**
 - rt Phenotypes
- Geochemical data**
 - sn Used from 1971 forward
- Geochemical oceanography**
 - rt Oceanography
- Geochemical tracers**
 - rt Tracers
- Geochemistry**
 - rt Chemistry
- Geochronology**
 - rt Chronology
- Geodesy**
 - rt Satellite geodesy
- Geodetic calibration**
 - sn Used from 1978 forward
 - rt Calibration
- Geodetic positioning**
 - rt Positioning
- Geodetic satellites**
 - rt Satellites
- Geodynamics**
- Geoeconomics**
 - sn Used from 1976 forward
 - rt Economics
- Geographic distribution**
 - rt Biogeography
- Geographic variations**
- Geography**
 - rt Biogeography
 - rt Paleogeography
 - rt Phytogeography
 - rt Zoogeography
- Geoid**
- Geologic data**
 - sn Also use Geological data before 1974
- Geologic history**
 - sn Used only before 1971
 - u Geology
- Geologic parameters**
- Geologic structures**
 - sn Also use singular before 1967
 - sn Also use Geological structures before 1972
- Geologic surveys**
 - sn Also use Geological surveys before 1973
 - rt Surveys
- Geology**
 - uf Geologic history after 1970
 - uf Structural geology after 1971
- Geomagnetic data**
- Geomagnetic fields**
- Geomagnetic surveys**
 - rt Surveys
- Geomagnetic variations**
- Geomagnetism**
 - rt Magnetism
- Geomicrobiology**
 - rt Microbiology
- Geomorphology**
 - rt Coastal geomorphology
 - rt Morphology
- Geophones**
 - sn Used from 1970 forward
- Geophysical data**

Controlled Vocabulary

- Geophysical exploration**
 - rt Exploration
- Geophysical instruments**
 - rt Instruments
- Geophysical mapping**
 - rt Mapping
- Geophysical profiles**
- Geophysical prospecting**
- Geophysical surveys**
 - rt Surveys
- Geophysics**
 - rt Physics
- Geostrophic**
 - sn Use compound terms below
 - sn Used before 1969
- Geostrophic circulation**
 - rt Circulation
- Geostrophic countercurrents**
 - sn Used from 1977 forward
 - rt Countercurrents
- Geostrophic currents**
 - rt Currents
- Geostrophic drag**
- Geostrophic equilibrium**
 - rt Equilibrium
- Geostrophic flow**
- Geostrophic transport**
 - rt Transport
- Geostrophic velocity**
 - rt Velocity
- Geostrophic winds**
 - rt Winds
- Geosynclinal rocks**
 - rt Rocks
- Geosynclines**
- Geothermal deposits**
 - rt Deposits
- Geothermal gradients**
- Geothermal power**
 - rt Power sources
- Geothermal surveys**
 - rt Surveys
- Geothermy**
- Germanium**
 - sn Used from 1976 forward
- Germanium compounds**
 - sn Used from 1980 forward
- Germination**
- Gerreidae**
 - sn Used from mid-1980 forward
 - uf Mojarras
 - uf Silver bellies
 - rt Osteichthyes
- Gestation**
 - sn Used from 1975 forward
 - rt Sexual reproduction
- Gill nets**
 - rt Nets
- Gills**
- Gizzards**
 - sn Used from 1978 forward
- Glacial**
 - sn Use compound terms below
 - sn Used before 1970
- Glacial deposits**
 - rt Deposits
- Glacial sediments**
 - rt Sediments
- Glaciation**
- Glaciers**
- Glaciology**
- Glands**
 - uf Axillary glands
 - rt Endocrine glands
 - rt Exocrine glands
- Glass reinforced plastics**
 - u GRP
- Glasses**
 - sn Used from 1973 forward
 - sn Use singular before 1973
 - rt Volcanic glass
- Global ocean**
 - sn Used only before 1973
 - u World ocean
- Globefish**
 - u Cyclopteridae
 - u Molidae
- Globules**
- Glomar Challenger**
 - sn Used only before 1973
 - u Vessel names no longer controlled terms
- Glossaries**
 - sn Used for document type
- Glycerophosphatides**
 - sn Used from 1979 forward
 - uf Lysophosphatides
 - uf Phosphatidic acids
 - uf Phosphatidyl inositides
 - uf Plasmalogens
- Glyceryl ethers**
 - rt Ethers
- Glycogen**
 - sn Used only before 1973
 - u Polysaccharides
- Glycosides**
 - sn Used from 1973 forward
- Goatfish**
 - u Mullidae
- Gobies**
 - sn Used only before mid-1980
 - u Gobiidae
- Gobiesocidae**
 - sn Used from mid-1980 forward
 - uf Clingfish after mid-1980
 - rt Osteichthyes
- Gobiidae**
 - sn Used from mid-1980 forward
 - uf Gobies
 - rt Osteichthyes
- Gold**
- Gold compounds**
 - sn Used from 1980 forward
- Golden-brown algae**
 - sn Used only before mid-1980
 - u Chrysophyta (except Diatoms)
- Gonads**
 - rt Reproductive organs
- Gonostomatidae**
 - sn Used from mid-1980 forward
 - uf Bristlemouths
 - uf Lightfish
 - rt Osteichthyes
- Goosefish**
 - u Lophiidae
- Gordiacea**
 - u Nematomorpha
- Gorgonians**
 - sn Used only before 1973
 - u Corals
- Government**
 - sn Use compound terms below
 - sn Used before 1971
- Government agencies**
 - sn Used from 1973 forward
 - rt Federal agencies
 - rt International agencies
 - rt State agencies
- Government policies**
 - rt Federal policies
 - rt International policies
 - rt State policies
- Government programs**
 - rt Federal programs
 - rt State programs
- Government regulations**
 - sn Used from 1972 forward
 - rt Federal regulations
 - rt Legislation
 - rt State regulations
- Grab samplers**
- Grabens**
- Gradient currents**
 - rt Currents
- Gradient measurements**
- Gradients**
 - sn Used only before 1975
- Grain size**
- Grammistidae**
 - sn Used from mid-1980 forward
 - uf Soapfish
 - rt Osteichthyes
- Granite**
 - rt Igneous rocks
- Granulometrics**
- Grasses**
 - rt Sea grasses
 - rt Spermatophyta
 - rt Tracheophyta
- Gravel**
- Graveldivers**
 - u Scytalinidae
- Gravimeters**
- Gravimetric analysis**
 - sn Used from 1973 forward
- Gravimetry**
- Gravity**
- Gravity anomalies**
- Gravity cores**
 - rt Cores
- Gravity data**
- Gravity fields**
- Gravity fluctuations**

Controlled Vocabulary

- Gravity measurements**
sn Used only before 1973
- Gravity surveys**
rt Surveys
- Gravity waves**
rt Waves
- Grazing**
sn Used only before 1968
u Feeding
- Green algae**
sn Used only before mid-1980
u Chlorophyta
- Greeneyes**
u Chlorophthalmidae
- Greenlings**
u Hexagrammidae
- Grenadiers**
sn Used only before mid-1980
u Macrouridae
- Grey mullets**
u Mugilidae
- Gribbles**
u Isopoda
- Groins**
- Groundwater**
- Groupers**
sn Used only before mid-1980
u Serranidae
- Growth**
- Growth rates**
sn Used from 1973 forward
sn Use singular before 1973
- GRP**
uf Glass reinforced plastics
rt Plastics
rt Reinforced plastics
- Grunts**
sn Used only before mid-1980
u Pomadasysidae
- Guitarfish**
u Rhinobatidae
- Gulfs**
sn See Geographic Term list for specific gulfs
- Gullies**
- Gulls**
sn Used only before mid-1980
u Aves
- Gunnels**
u Pholidae
- Guppy**
u Poeciliidae
- Gurnards**
sn Used only before mid-1980
u Trigiidae
- Guts**
sn Used from 1973 forward
sn Use singular before 1973
- Guyots**
rt Seamounts
- Gyrais**
- Gyrocompasses**
rt Compasses
- Gyros**
- Gyroscopes**
- Habitats**
sn Also use singular before 1970
rt Artificial habitats
- Hadal organisms**
sn Used from 1980 forward
rt Benthic fauna
rt Fauna
rt Flora
- Hadal zones**
sn Used from 1977 forward
- Haddock fisheries**
rt Fisheries
- Haddocks**
rt Gadidae
- Hafnium**
sn Used from 1980 forward
- Hafnium compounds**
sn Used from 1980 forward
- Hagfish**
sn Used only before mid-1980
u Myxinidae
- Hairs**
sn Used from 1973 forward
- Hairworms**
u Nematomorpha
- Hake fisheries**
rt Fisheries
- Hakes**
rt Gadidae
- Halfbeaks**
sn Used only before mid-1980
u Exocoetidae
- Halfin fisheries**
rt Fisheries
- Halibuts**
sn Used only before 1973
u Bothidae
u Pleuronectidae
- Halocline**
- Halogenated pesticides**
sn Used from 1973 forward
rt Pesticides
- Halogens**
- Halophytes**
- Hammerhead sharks**
u Sphyrnidae
- Haploids**
sn Used from 1975 forward
rt Diploids
- Harbor construction**
- Harbors**
- Harmonic analysis**
sn Used only before 1970
u Fourier analysis
- Harvest**
sn Used only before 1968
- Harvesters**
- Harvesting**
rt Fish harvesting
rt Kelp harvesting
- Harzburgites**
- Hatch covers**
- Hatcheries**
- Hatchetfish**
u Sternoptychidae
- Hatching**
- Hawkfish**
u Cirrhitidae
- Heads**
sn Used from 1973 forward
- Health**
sn Used only before 1975
u Compound terms, e.g., Divers health
- Health hazards**
sn Used only before 1977
- Hearing**
sn Used only before 1973
u Phonoreception
- Hearing thresholds**
sn Used only before 1973
- Heart urchins**
u Echinoidea
- Hearts**
sn Also use singular before 1968
rt Cardiac rhythms
- Heat**
rt Waste heat
- Heat balance**
sn Not biology
- Heat budget**
- Heat exchange**
- Heat flow**
sn Used only before 1978
- Heat flux**
sn Also use plural before 1972
- Heat loss**
- Heat recovery**
sn Used from 1970 forward
- Heat storage**
rt Storage
- Heat transfer**
- Heavy liquids**
- Heavy metals**
rt Metals
- Heavy minerals**
rt Minerals
- Heights**
sn Also use singular before 1973
rt Tidal heights
rt Wave heights
- Helicopters**
rt Aircraft
- Helium**
rt Hyperbaric helium
- Helium compounds**
sn Used from 1980 forward
- Helium dives**
rt Dives
- Helium speech**
- Helium-oxygen breathing**
sn Used from 1979 forward
sn Use Helium oxygen breathing before 1979
- Helminths**
sn Used only before 1973
u See entries under Worms
- Hematology**

Controlled Vocabulary

- Hematopoietic pathologies**
sn Used from 1976 forward
uf Anemia
- Hematopoietic systems**
sn Used from 1973 forward
- Hemicelluloses**
- Hemichordata**
sn Used from 1977 forward
sn Use Hemichordates before 1973
uf Acorn worms after mid-1980
- Hemoglobins**
sn Also use singular before 1973
rt Pigments
- Hemolymph**
rt Body fluids
- Hepatopancreases**
sn Used from 1973 forward
sn Use singular before 1973
- Heptoses**
u Monosaccharides
- Herbicide residues**
sn Used from 1975 forward
rt Pesticide residues
- Herbicides**
rt Pesticides
- Heredity**
u Genetics
- Hermaphroditism**
rt Dioecism
- Herring fisheries**
rt Fisheries
- Herrings**
sn Also use singular before 1976
rt Clupeidae
- Heterocyclic compounds**
sn Used from 1974 forward
rt Cyclic compounds
rt Hydrocarbons
- Heterodontidae**
sn Used from mid-1980 forward
uf Bullhead sharks after mid-1980
rt Chondrichthyes
rt Sharks
- Heterogeneity**
- Heterotrophic bacteria**
sn Used only before 1973
- Heterotrophs**
rt Autotrophs
- Heterotrophy**
sn Used only before 1972
- Hexactinellida**
u Porifera
- Hexagrammidae**
sn Used from mid-1980 forward
uf Greenlings
uf Lingcods
rt Osteichthyes
- Hexanchidae**
sn Used from mid-1980 forward
uf Cow sharks
rt Chondrichthyes
rt Sharks
- Hexoses**
sn Used only before mid-1980
- u Monosaccharides
- High energy compounds**
sn Used from 1973 forward
uf Adenosine triphosphate after 1972
- High seas**
- Himantolophidae**
sn Used from mid-1980 forward
uf Footballfish
rt Osteichthyes
- Hindcasting**
rt Wave hindcasting
rt Weather hindcasting
- Hirudinea**
sn Used from 1978 forward
uf Leeches
rt Annelida
- Histochemistry**
rt Chemistry
- Histology**
rt Anatomy
rt Morphology
- Histopathology**
rt Cytopathology
- Historical reviews**
sn Used from 1973 forward
sn Used for document type
- Holmium**
sn Used from 1980 forward
- Holmium compounds**
sn Used from 1980 forward
- Holocene**
sn Used only before 1973
u Quaternary
- Holocentridae**
sn Used from mid-1980 forward
uf Soldierfish
uf Squirrelfish
rt Osteichthyes
- Holography**
uf Acoustic holography after 1971
- Holothuroidea**
sn Used from mid-1980 forward
sn Use Holothuria and Holothurians before 1975
uf Sea cucumbers after mid-1980
rt Echinodermata
- Homing**
uf Acoustic homing
- Horizontal**
sn Use compound terms below
sn Used before 1967
- Horizontal currents**
rt Currents
- Horizontal diffusion**
rt Diffusion
- Horizontal distribution**
rt Distribution
rt Vertical distribution
- Horizontal exchange**
- Horizontal variations**
- Horizontal velocity**
rt Velocity
- Hormones**
rt Animal hormones
rt Plant hormones
- Horseshoe crabs**
sn Used only before mid-1980
u Merostomata
- Hoses**
- Hot brines**
rt Brines
- Hovercraft**
rt Air cushion vehicles
- Hoverports**
- Hull configurations**
sn Used only before 1973
- Hull construction**
- Hull design**
rt Design
- Hull penetrations**
sn Used only before 1972
- Hull resistance**
- Hull vibration**
sn Used from 1974 forward
sn Use plural before 1974
rt Vibration
- Hulls**
rt Concrete hulls
rt Planing hulls
rt Pressure hulls
rt Ship hulls
rt Spherical hulls
rt Submarine hulls
rt Twin hulls
- Humans**
sn Used from mid-1980 forward
uf Man
rt Mammalia
rt Primates
- Humic substances**
- Humidity**
- Humidity measurements**
- Hurricane Betsy**
sn Used only before 1970
sn Hurricane names no longer controlled terms
- Hurricane Camille**
sn Used only before 1972
sn Hurricane names no longer controlled terms
- Hurricane damages**
- Hurricane floods**
- Hurricane formation**
- Hurricane tracking**
- Hurricane winds**
sn Used from 1974 forward
rt Winds
- Hurricanes**
- Hybridization**
- Hybrids**
- Hydrate processes**
- Hydraulic connectors**
- Hydraulic dredges**
rt Dredges
- Hydraulic engineering**
rt Engineering
- Hydraulic models**
- Hydraulic oils**

Controlled Vocabulary

- rt Oils
- Hydraulic power**
 - rt Power sources
- Hydraulic structures**
 - sn Used from 1973 forward
- Hydraulic tools**
 - rt Tools
- Hydraulics**
- Hydrocarbons**
 - sn Not for pesticides
 - rt Alcohols
 - rt Aldehydes
 - rt Aliphatic compounds
 - rt Amides
 - rt Amines
 - rt Aromatic compounds
 - rt Carboxylic acids
 - rt Cyclic compounds
 - rt Esters
 - rt Ethers
 - rt Heterocyclic compounds
 - rt Ketones
- Hydrodynamic loads**
- Hydrodynamic models**
- Hydrodynamic movement**
 - sn Used from 1970 forward
 - rt Movement
- Hydrodynamic stability**
- Hydrodynamics**
- Hydroelasticity**
 - sn Used only before 1973
 - u Elasticity
- Hydroelectric power**
 - sn Used from 1974 forward
 - rt Electric power
 - rt Power sources
- Hydrofoils**
 - rt Supercavitating hydrofoils
- Hydrogen**
- Hydrogen compounds**
 - sn Used from 1973 forward
- Hydrographic conditions**
- Hydrographic data**
- Hydrographic observations**
- Hydrographic surveys**
 - rt Surveys
- Hydrography**
- Hydroids**
 - sn Used only before mid-1980
 - u Polyps
- Hydrologic data**
- Hydrologic fronts**
 - rt Fronts
- Hydrologic regime**
- Hydrologic structures**
- Hydrological conditions**
 - sn Used only before 1971
- Hydrological conditions**
 - sn Used only before 1971
- Hydrology**
- Hydromedusae**
 - sn Used only before 1973
 - u Medusae
- Hydrometeorology**
 - rt Meteorology
- Hydrometry**
- Hydroonautics**
- Hydrophone arrays**
 - rt Arrays
 - rt Sonar arrays
- Hydrophones**
- Hydrophotometry**
- Hydrosols**
- Hydrospace**
- Hydrostatic equilibrium**
 - rt Equilibrium
- Hydrostatic loading**
 - rt Loading
- Hydrostatic pressure**
- Hydrozoa**
 - sn Used 1964-65 and 1973 forward
 - sn Use Hydrozoans 1966-72
 - uf Hydrozoan jellyfish
 - uf Siphonophores after mid-1980
 - uf Stinging corals
 - rt Cnidaria
- Hydrozoan jellyfish**
 - u Hydrozoa
- Hyperbaric chambers**
- Hyperbaric helium**
 - rt Helium
- Hyperbaric medicine**
 - rt Medicine
- Hyperbaric oxygen**
 - rt Oxygen
- Hyperbaric welding**
 - sn Used from 1970 forward
 - rt Welding
- Hypercapnia**
- Hyperfiltration**
 - rt Filtration
- Hypoxia**
- Hypsography**
- Ice**
 - rt Drift ice
 - rt Sea ice
 - rt Shore ice
- Ice breaking**
- Ice caps**
- Ice conditions**
- Ice cover**
- Ice drift**
- Ice floes**
- Ice forces**
- Ice forecasting**
 - rt Forecasting
- Ice formation**
- Ice islands**
 - sn Used before 1973 and after 1979
- Ice movement**
 - sn Used before 1973 and after 1979
- Ice rafting**
- Ice sheets**
- Ice thickness**
- Iceberg tracking**
- Icebergs**
- Icebreakers**
- Icosteidae**
 - sn Used from mid-1980 forward
 - uf Ragfish
 - rt Osteichthyes
- Identification**
 - sn Used only before 1968
- Idiacanthidae**
 - sn Used from mid-1980 forward
 - uf Black dragonfish
 - rt Osteichthyes
- Igneous rocks**
 - rt Basalts
 - rt Granite
 - rt Rocks
- IGY**
 - sn Used only before 1967
 - sn Used for International Geophysical Year
- IIOE**
 - sn Used only before 1968
 - sn Used for International Indian Ocean Expedition
- Illite**
- Illumination**
- Image processing**
- Image recording**
- Image sensors**
 - sn Used from 1973 forward
 - rt Sensors
- Immersion**
 - rt Water immersion
- Immunity**
- Immunochemistry**
 - rt Chemistry
- Immunology**
- Impellers**
- Implosion**
- Imports**
 - rt Oil import
- Impressed currents**
 - rt Currents
- Impulse frequencies**
 - rt Frequencies
- Impulse response**
- In situ instrumentation**
- In situ measurements**
- In situ repairs**
 - rt repairs
- In situ spectroscopy**
 - rt Spectroscopy
- In vivo bubble formation**
- Inclinometers**
- Incubation**
 - sn Used from 1973 forward
- Indium**
- Indium compounds**
 - sn Used from 1980 forward
- Industrial pollutants**
 - sn Used from 1973 forward
 - uf Industrial pollution after 1972
- Industrial pollution**
 - sn Used only before 1973
 - u Industrial pollutants
- Industrial programs**
 - sn Used from 1973 forward

Controlled Vocabulary

Industrial wastes

sn Also use singular before 1968

Industries

sn Used from 1973 forward

sn Use singular before 1973

uf Diving industry

uf Dredging industry

uf Fishing industry

uf Gas industry

uf Offshore industry

uf Oil industry

uf Petroleum industry

uf Seafood industry

uf Shipping industry

uf Towing industry

Inert gases

sn Used only before 1973

u Rare gases

Inertial currents

rt Currents

Inertial navigation

rt Navigation

Inertial oscillations

rt Oscillations

Inertial waves

rt Waves

Infauna

rt Epifauna

Infectious diseases

sn Used from 1973 forward

rt Diseases

Infrared

sn Use compound terms below

sn Used before 1968

Infrared imagery

sn Used before 1972 and after 1979

Infrared radiation

rt Radiation

Infrared radiometers

sn Used only before 1973

Infrared radiometry

sn Used before 1973 and after 1979

Infrared sensors

rt Sensors

Infrared spectroscopy

rt Spectroscopy

Inhibition

sn Used only before 1969

Inhomogeneities

rt Frequency inhomogeneities

Injuries

rt Diseases

Inland lakes

Inland sea

Inland waters

Inland waterways

rt Waterways

Inlets

sn See Geographic Term list for specific inlets

rt Tidal inlets

Inorganic coatings

sn Used from 1970 forward

rt Coatings

Inorganic compounds

sn Used from 1973 forward

Insecta

sn Used from 1973 forward

sn Use Insects before 1973

uf Flies

uf Midges

rt Arthropoda

Insecticide residues

sn Used from 1973 forward

rt Pesticide residues

Insecticides

rt Pesticides

Inshore oceanographic surveys

rt Surveys

Insolation

Insonification

Instrument calibration

Instrument design

rt Design

Instrument housing

sn Also use plural before 1971

Instrument placement

Instrument platforms

rt Platforms

Instrument testing

Instrumentation

sn Used only before 1973

u Compound terms, e.g., In situ instrumentation

Instruments

rt Airborne instruments

rt Bottom mounted instruments

rt Electronic instruments

rt Geophysical instruments

rt Laboratory instruments

rt Measuring instruments

rt Monitoring instruments

rt Photographic instruments

rt Photo-optical instruments

rt Recording instruments

rt Sampling instruments

rt Towed instruments

rt Underwater instruments

Insulation

rt Thermal insulation

Insurance

Intake structures

sn Used from 1973 forward

Integument

sn Used only before 1973

u Integumentary systems

Integumentary pathologies

sn Used from 1973 forward

Integumentary systems

sn Used from 1973 forward

uf Integument after 1972

Interaction

sn Used only before 1967

u Compound terms, e.g., Air-water interactions

Interface

sn Used only before 1968

u Compound terms, e.g., Air-water inter-

face

Interface phenomena

Intermodal transportation

sn Used from 1970 forward

sn Use with period for full set

Internal tides

rt Tides

Internal waves

rt Waves

International

sn Use compound terms below

sn Used before 1967

International agencies

sn Used from 1973 forward

rt Government agencies

International agreements

International cooperation

International fisheries

rt Fisheries

International law

International markets

sn Used from 1970 forward

rt Markets

International organizations

sn Used only before 1973

International policies

rt Government policies

International relations

International trade

International waters

International zones

sn Used from 1974 forward

Interrogation, Recording and Locating System

u IRLS

Interstitial

sn Use compound terms below

sn Used before 1968

Interstitial fauna

rt Fauna

Interstitial water

Intertidal

sn Used only before 1969

sn See entries under Littoral

Intertidal zone

sn Used only before 1973

u Littoral zones

Intestines

Intravascular bubbles

u Decompression sickness

Intrusive rocks

sn Used from 1975 forward

rt Rocks

Inversion

rt Temperature inversions

Invertebrata

sn Used 1964-65 and 1973 forward

sn Use Invertebrates 1966-72

sn Used for broad studies

Investments

Iodine

Iodine compounds

sn Used from 1975 forward

Controlled Vocabulary

- Ion adsorption**
sn Used from 1973 forward
rt Adsorption
- Ion balance**
- Ion exchange**
- Ion ratios**
- Ion transport**
rt Transport
- Ion-exchange resins**
sn Used from 1974 forward
rt Resins
- Ionic extractants**
- Ionic interactions**
- Ionic membranes**
rt Membranes
- Ionic regulation**
- Ions**
rt Ammonium ions
rt Anions
rt Cations
- Iridium**
sn Used from 1980 forward
- Iridium compounds**
sn Used from 1980 forward
- IRLS**
uf Interrogation, Recording and Locating System
- Iron**
- Iron compounds**
sn Used from 1973 forward
- Irradiance**
- Irradiation**
- Irregular waves**
rt Waves
- Island arcs**
- Island wakes**
- Islands**
sn See Geographic Term list for specific islands
rt Artificial islands
rt Barrier islands
rt Coral islands
rt Line Islands
rt Volcanic islands
- Isobaline**
- Isopleths**
- Isopoda**
sn Used 1964-65 and 1973 forward
sn Use Isopods 1966-72
uf Gribbles
rt Crustacea
rt Malacostraca
- Isopycnal surfaces**
- Isostatic analysis**
sn Used from 1971 forward
- Isostatic equilibrium**
rt Equilibrium
- Isotherms**
- Isotope chemistry**
rt Chemistry
- Isotope ratios**
- Isotopes**
rt Radioisotopes
- Isotopic composition**
- Isotopic dating**
sn Used from 1972 forward
- Istiophoridae**
u Billfish after mid-1980
uf Osteichthyes
- Jacks**
sn Used only before mid-1980
u Carangidae
- Jackups**
- Jawfish**
u Opistognathidae
- Jawless fish**
u Agnatha
- Jaws**
- Jellyfish**
sn Used only before mid-1980
sn Also use plural before 1973
u Hydrozoa
u Scyphozoa
- Jet flow**
rt Fluid flow
- Jets**
rt Water jets
- Jetties**
- Joints**
- Jurassic**
- Jurisdiction**
- Juveniles**
sn Used only before 1973
sn Also use singular before 1970
u Young
- Karyotypes**
sn Used from 1973 forward
- Kelp**
sn Used only before 1973
u Brown algae 1973-80
u Phaeophyta after mid-1980
- Kelp harvesting**
sn Used from 1974 forward
rt Harvesting
- Ketones**
sn Used from 1974 forward
rt Hydrocarbons
- Keys**
sn See Geographic Term list for specific keys
- Kidneys**
- Killer whales**
sn Used only before 1973
u Whales
- Killifish**
sn Used only before mid-1980
sn Use plural before 1973
u Cyprinodontidae
- Kinematic waves**
rt Waves
- Kinesis**
sn Used from 1974 forward
rt Orienting behavior
- Kinetics**
- Kimorhyncha**
uf Echinodera
rt Aschelminthes
- Knolls**
sn Used from 1970 forward
- Krill**
sn Used only before mid-1980
u Euphausiacea
- Krypton**
- Krypton compounds**
sn Used from 1980 forward
- Kyphosidae**
sn Used from mid-1980 forward
uf Drummers
uf Sea chubs
rt Osteichthyes
- Laboratory instruments**
sn Used from 1974 forward
rt Instruments
- Laboratory methods**
sn Used from 1973 forward
- Laboratory rearing**
- Labridae**
sn Used from mid-1980 forward
uf Wrasses after mid-1980
rt Osteichthyes
- Lagoons**
sn See Geographic Term list for specific lagoons
- Lakes**
sn Used only before 1976
- Lamellibranchs**
sn Used only before 1973
u Pelecypoda
- Laminar flow**
- Laminat**
- Lamination**
- Lamnidae**
sn Used from mid-1980 forward
uf Mackerel sharks
rt Chondrichthyes
rt Sharks
- Lamp shells**
sn Used only before mid-1980
u Brachiopoda
- Lampreys**
sn Used only before mid-1980
u Petromyzontidae
- Lamprididae**
sn Used from mid-1980 forward
uf Opahs
- Lancelets**
u Cephalochordata
- Lancet fish**
sn Used only before mid-1980
u Alepisauridae
- Land reclamation**
- Land-sea breezes**
- Land-sea interface**
- Landing craft**
- Lantern fish**
sn Used only before mid-1980
sn Use singular before 1973
u Myctophidae
- Lanthanides**
- Lanthanum**
- Lanthanum compounds**
sn Used from 1980 forward

Controlled Vocabulary

- Larvacea**
 - uf Appendicularia
 - rt Chordata
 - rt Tunicata
- Larvae**
 - rt Fish larvae
- Larvae development**
 - sn Used only before 1973
 - u Larvae and Development
- Larval stages**
- Laser infrared radar**
 - u Lidar
- Laser radar**
 - rt Lidar
 - rt Radar
- Lasers**
- Laserscan**
- Late Pleistocene**
 - u Quaternary
- Lateral boundaries**
 - rt Boundaries
- Lateral lines**
 - rt Lines
- Lateral motion**
 - sn Used from 1975 forward
- Latimeridae**
 - uf Coelacanth after mid-1980
- Latitude**
- Latitudinal variations**
 - sn Used before 1967 and after 1979
- Launching**
- Lava flow**
 - sn Used from 1974 forward
 - sn Use plural before 1973
- Law of the Sea**
 - rt Legal aspects
- Lawrencium**
 - sn Used from 1980 forward
- Lawrencium compounds**
 - sn Used from 1980 forward
- Layers**
 - sn Used only before 1967
 - u Compound terms, e.g., Boundary layers
- Lead**
- Lead compounds**
 - sn Used from 1975 forward
- Lead isotopes**
 - sn Used only before 1973
 - u Lead and Isotopes
- Leakages**
 - sn Used from 1972 forward
- Learning**
 - sn Used from 1974 forward
- Leaves**
 - sn Used from 1973 forward
- Leeches**
 - u Hirudinea
- Lefteye flounders**
 - sn Used only before mid-1980
 - u Bothidae
- Legal actions**
 - sn Used from 1971 forward
- Legal aspects**
 - sn Used from 1973 forward
- rt Admiralty laws
 - rt International laws
 - rt Law of the Sea
- Legislation**
 - rt Federal regulations
 - rt Fisheries legislation
 - rt Government regulations
 - rt State regulations
- Length**
 - rt Wavelengths
- Length-frequency**
 - sn Used only before 1968
- Length-weight relationships**
- Lens**
 - sn For animals, use Eyes
- Levees**
- Liability**
- Lidar**
 - uf Laser infrared radar
- Life cycles**
 - sn Used from 1973 forward
 - sn Use singular before 1973
- Life histories**
 - sn Used from 1973 forward
 - sn Use singular before 1973
- Life rafts**
- Life support**
 - sn Used only before 1971
- Life support systems**
- Lifesaving**
 - sn Used from 1973 forward
- Lift measurements**
- Lift systems**
- Light**
 - rt Underwater lights
- Light absorption**
 - rt Absorption
- Light attenuation**
 - rt Attenuation
- Light effects**
 - sn Used only before 1973
 - u Light responses
- Light fields**
- Light fishing**
 - rt Fishing
- Light housings**
- Light intensity**
- Light measurements**
- Light penetration**
- Light propagation**
- Light reflection**
 - rt Reflection
- Light refraction**
 - rt Refraction
- Light responses**
 - sn Used from 1973 forward
 - sn Use singular before 1973
 - uf Light effects after 1972
 - uf Light sensitivity after 1967
- Light scattering**
 - rt Scattering
- Light sensitivity**
 - sn Used only before 1968
 - u Light responses
- Light sources**
- Light transmission**
 - rt Transmissions
- Lightfish**
 - u Gonostomatidae
- Lighthouses**
- Lightships**
 - rt Ships
- Limestone**
 - rt Sedimentary rocks
- Limpets**
 - sn Used only before mid-1980
 - u Gastropoda
- Linear relationships**
- Lineations**
 - rt Magnetic lineation
- Lines**
 - rt Cables
 - rt Control lines
 - rt Flow lines
 - rt Lateral lines
 - rt Mooring lines
 - rt Towlines
- Lingcods**
 - u Hexagrammidae
- Lipid metabolism**
 - sn Used from 1973 forward
- Lipids**
 - rt Fat content
- Liquefaction**
- Liquefied gases**
 - sn Used from 1973 forward
 - sn Use singular before 1973
 - rt Gases
 - rt LNG
 - rt LPG
- Liquefied natural gas**
 - u LNG
- Liquefied petroleum gas**
 - u LPG
- Liquid cargo**
 - rt Cargo
- Liquid chromatography**
 - sn Used from 1975 forward
 - rt Chromatography
- Liquid storage**
 - rt Storage
- Literature reviews**
 - sn Used from 1973 forward
 - sn Use with period for full set
 - sn Used for document type
- Lithification**
- Lithium**
- Lithium compounds**
 - sn Used from 1979 forward
- Lithology**
- Lithosphere**
- Littoral**
 - sn Use compound terms below
 - sn Used before 1971
- Littoral drift**
- Littoral fauna**
 - rt Benthic fauna
 - rt Fauna

Controlled Vocabulary

- Littoral flora**
sn Used from 1974 forward
rt Flora
- Littoral organisms**
sn Used from 1973 forward
- Littoral processes**
- Littoral sands**
rt Sands
- Littoral sediments**
rt Sediments
- Littoral zones**
uf Intertidal zone after 1972
rt Eulittoral zones
rt Sublittoral zones
- Live-bearers**
sn Used only before mid-1980
u Poeciliidae
- Livers**
sn Used from 1973 forward
sn Use singular before 1973
- Lizard fish**
sn Used only before mid-1980
u Synodontidae
- LNG**
sn Used from mid-1980 forward
uf Liquefied natural gas
rt Liquefied gases
- Loaches**
u Cobitidae
- Load transport**
rt Transport
- Loading**
rt Compressive loading
rt Hydrostatic loading
rt Static loading
- Loading arms**
- Loading buoys**
rt Buoys
- Loading equipment**
rt Equipment
- Lobotidae**
sn Used from mid-1980 forward
uf Tripletails
rt Osteichthyes
- Lobster fisheries**
rt Fisheries
- Lobsters**
sn Also use singular before 1971
rt Crustacea
rt Decapoda
rt Malacostraca
- Local studies**
sn Used only before 1968
- Locating systems**
- Locks**
- Locomotion**
- Logistics**
- Long period waves**
rt Waves
- Long waves**
rt Waves
- Long-toms**
u Belonidae
- Longevity**
- Longitude**
- Longitudinal diffusion**
rt Diffusion
- Longitudinal dispersion**
rt Dispersion
- Longitudinal distribution**
rt Distribution
- Longline fishing**
rt Fishing
- Longshore currents**
rt Currents
- Loop currents**
sn Used from 1973 forward
rt Currents
- Lophiidae**
sn Used from mid-1980 forward
uf Anglerfish after mid-1980
uf Goosefish
rt Osteichthyes
- Lophotidae**
sn Used from mid-1980 forward
uf Crestfish
rt Osteichthyes
- Loran**
rt Navigation aids
- Loricariidae**
sn Used from mid-1980 forward
uf Armored catfish
rt Osteichthyes
- Loss**
sn Used only before 1972
u Compound terms, e.g., Heat loss
- Louvars**
u Luvaridae
- Love waves**
rt Waves
- Lower Carboniferous**
u Carboniferous
- LPG**
sn Used from mid-1980 forward
uf Liquefied petroleum gas
rt Liquefied gases
- Lubrication**
- Luminescence**
rt Bioluminescence
rt Fluorescence
rt Phosphorescence
- Lumpfish**
sn Used only before mid-1980
u Cyclopteridae
- Lumpsuckers**
u Cyclopteridae
- Lunar cycles**
sn Used from 1973 forward
- Lunar data**
sn Used from 1970 forward
- Lungs**
- Lutetium**
sn Used from 1977 forward
- Lutetium compounds**
sn Used from 1980 forward
- Lutjanidae**
sn Used from mid-1980 forward
uf Snappers
rt Osteichthyes
- Luvaridae**
sn Used from mid-1980 forward
uf Louvars
rt Osteichthyes
- Lymph**
sn Used from 1977 forward
rt Body fluids
- Lymph chemistry**
sn Used from 1980 forward
- Lymph nodes**
sn Used from 1980 forward
- Lymph vessels**
sn Used from 1980 forward
rt Blood vessels
- Lysis**
rt Autolysis
- Lysophosphatides**
u Glycerophosphatides
- Machinery**
- Mackerel fisheries**
rt Fisheries
- Mackerel sharks**
u Lamnidae
- Mackerels**
sn Use singular before 1966
rt Scombridae
- Macrobenthos**
rt Benthic organisms
rt Benthos
rt Microbenthos
- Macrofauna**
rt Fauna
rt Microfauna
- Macroflora**
sn Used from 1973 forward
rt Flora
rt Microflora
- Macromolecular substances**
sn Used from 1976 forward
- Macrouridae**
sn Used from mid-1980 forward
uf Grenadiers after mid-1980
uf Rattails
rt Osteichthyes
- Mafics**
- Magmas**
- Magnesium**
- Magnesium compounds**
sn Used from 1973 forward
- Magnetic**
sn Use compound terms below
sn Used before 1967
- Magnetic anomalies**
- Magnetic data**
- Magnetic fields**
rt Electromagnetic fields
- Magnetic gradients**
- Magnetic lineation**
rt Lineations
- Magnetic measurements**
sn Used before 1973 and after 1979
- Magnetic observations**
- Magnetic polarity**

Controlled Vocabulary

- rt Polarity
- Magnetic poles**
- Magnetic profiles**
- Magnetic reversals**
- Magnetic surveys**
 - rt Surveys
- Magnetic variations**
- Magnetics**
 - rt Electromagnetics
- Magnetism**
 - rt Geomagnetism
 - rt Paleomagnetism
 - rt Rock magnetism
- Magnetization**
 - sn Used before 1972 and after 1979
- Magnetometers**
- Malacostraca**
 - rt Amphipoda
 - rt Arthropoda
 - rt Crabs
 - rt Crustacea
 - rt Cumacea
 - rt Decapoda
 - rt Euphausiacea
 - rt Isopoda
 - rt Lobsters
 - rt Mysidacea
 - rt Nebaliacea
 - rt Shrimps
 - rt Stomatopoda
 - rt Tanaidacea
- Males**
- Mammalia**
 - sn Used from 1973 forward
 - sn Use Mammals 1964-72
 - rt Carnivora
 - rt Cetacea
 - rt Pinnipedia
 - rt Primates
 - rt Sirenia
 - rt Vertebrata
- Man**
 - sn Used only before mid-1980
 - u Humans
- Man in the sea**
 - sn Used only before 1972
 - sn Use Man-in-the-sea before 1967
- Management**
 - rt Environmental management
 - rt Fisheries management
 - rt Port management
 - rt Resource management
 - rt Stock management
- Manatees**
 - sn Used only before mid-1980
 - u Sirenia
- Manganese**
- Manganese compounds**
 - sn Used from 1975 forward
- Manganese nodules**
 - rt Nodules
- Mangroves**
 - rt Spermatophyta
 - rt Tracheophyta
- Manhattan**
 - sn Used only before 1972
 - sn Individual vessels no longer controlled terms
- Manipulators**
- Manned**
 - sn Used only before 1968
- Manned submersibles**
 - rt Submersibles
- Manpower**
- Manta rays**
 - u Mobulidae
- Mantis shrimps**
 - sn Used only before 1972
 - u Stomatopoda
- Mantles**
 - sn Also use singular before 1970
 - rt Upper mantle
- Mapping**
 - rt Cartography
 - rt Charting
 - rt Geophysical mapping
 - rt Photomapping
- Maps**
 - rt Bouguer anomaly map
- Marginal plateaus**
 - rt Plateaus
- Marginal seas**
- Mariculture**
 - sn Used only before mid-1980
 - u Aquiculture
- Marinas**
- Marine animals**
 - sn Used only before 1973
 - u Marine fauna
- Marine fauna**
 - sn Used from 1973 forward
 - uf Marine animals after 1972
 - rt Fauna
- Marine fittings**
 - sn Used from 1974 forward
- Marine flora**
 - sn Used from 1973 forward
 - rt Flora
- Marine life**
 - sn Used only before 1973
- Marine organisms**
- Marine pollution**
 - rt Pollution
- Marine resources**
 - uf Ocean resources after 1972
 - rt Resources
- Marine sciences**
- Marine snow**
- Marine sunfish**
 - u Molidae
- Marine technology**
 - sn Used before 1971 and after 1979
 - uf Technology after 1967
- Mariners**
- Maritime boundaries**
 - sn Used from 1975 forward
 - rt Boundaries
- Maritime doctrine**
 - sn Used from 1972 forward
- Maritime hazards**
- Maritime meteorology**
 - rt Meteorology
- Maritime states**
- Marker buoys**
 - rt Buoys
- Markers**
- Marketing**
 - sn Used only before 1972
- Markets**
 - sn Also use singular before 1967
 - rt International markets
- Marsh plants**
 - rt Spermatophyta
 - rt Tracheophyta
- Marshes**
 - rt Salt marshes
 - rt Wetlands
- Mass coefficients**
 - sn Used from 1975 forward
- Mass physical properties**
- Mass spectrometry**
 - sn Used from 1980 forward
 - rt Spectrometry
- Mass spectroscopy**
 - sn Used from 1974 forward
 - rt Spectroscopy
- Mass transport**
 - rt Transport
- Materials**
 - rt Composite materials
 - rt Construction materials
 - rt Nonmetallic materials
- Materials performance**
- Materials protection**
 - rt Cathodic protection
- Materials testing**
- Materials transportation**
 - sn Used from 1973 forward
 - rt Transportation
- Mathematical**
 - sn Use compound terms below
 - sn Used before 1968
- Mathematical analysis**
 - sn Used from 1973 forward
 - sn Use with period for full set
 - rt Numerical analysis
 - rt Statistical analysis
- Mathematical models**
 - sn Use with period for full set
- Mathematics**
 - sn Used only before 1968
- Mating**
 - sn Used from 1979 forward
 - rt Breeding
 - rt Spawning
- Mating behavior**
 - rt Behavior
- Mating grounds**
 - sn Used from 1980 forward
- Mats**
- Maturation**
 - uf Maturity after 1972

Controlled Vocabulary

- rt Sexual maturity
- Maturation age**
 - rt Age
- Maturity**
 - sn Used only before 1973
 - u Maturation
- Meandering**
- Measurements**
 - sn Used only before 1973
 - sn Use singular before 1968
 - u Compound terms. e.g., In situ measurements
- Measuring instruments**
 - sn Used from 1973 forward
 - rt Instruments
 - rt Monitoring instruments
 - rt Sampling instruments
- Measuring methods**
 - sn Used from 1973 forward
 - rt Monitoring methods
 - rt Sampling methods
- Mechanical engineering**
 - sn Used from 1974 forward
 - rt Engineering
- Mechanical failures**
 - sn Used from 1970 forward
- Mechanical properties**
- Mechanical systems**
 - sn Used from 1974 forward
- Mechanoreception**
 - sn Used from 1973 forward
 - rt Sensory perception
- Median rift**
- Median valley**
- Medical oceanography**
 - rt Oceanography
- Medicine**
 - rt Biomedicine
 - rt Hyperbaric medicine
- Medusae**
 - uf Hydromedusae after 1972
 - rt Alternation of generations
 - rt Polyps
- Megaplankton**
 - rt Mesoplankton
 - rt Microplankton
 - rt Nannoplankton
 - rt Plankton
- Meiobenthos**
 - sn Used only before 1973
 - u Microbenthos
- Meiofauna**
 - sn Used only before 1973
 - u Microfauna
- Meiosis**
 - rt Mitosis
- Melanophores**
 - sn Used only before 1972
 - u Chromatophores
- Melanostomiidae**
 - sn Used from mid-1980 forward
 - uf Scaleless black dragonfish
 - rt Osteichthyes
- Membranes**
 - rt Ionic membranes
 - rt Permselective membranes
- Mendelevium**
 - sn Used from 1980 forward
- Mendelevium compounds**
 - sn Used from 1980 forward
- Menhaden**
 - sn Used only before mid-1980
 - u Clupeidae
- Merchant marine**
- Merchant ships**
 - rt Ships
- Mercury**
- Mercury compounds**
 - sn Used from 1973 forward
- Meridional circulation**
 - rt Circulation
- Meristic data**
 - sn Used only before 1968
 - u Meristics
- Meristics**
 - uf Meristic data after 1967
- Merostomata**
 - sn Used from mid-1980 forward
 - uf Horseshoe crabs after mid-1980
 - rt Arthropoda
- Mesohaline waters**
- Mesopelagic fauna**
 - sn Used from 1974 forward
 - rt Fauna
 - rt Fish
- Mesopelagic flora**
 - sn Used from 1980 forward
 - rt Flora
- Mesopelagic organisms**
 - sn Used from 1980 forward
- Mesopelagic zones**
 - sn Used from 1980 forward
- Mesophiles**
 - sn Used from 1975 forward
 - rt Psychrophiles
 - rt Thermophiles
- Mesoplankton**
 - rt Megaplankton
 - rt Microplankton
 - rt Nannoplankton
 - rt Plankton
- Mesozoa**
 - sn Used from 1973 forward
 - sn Use Mesozoans before 1973
- Mesozoic**
 - sn Use with period for full set
- Metabolism**
 - rt Bacterial metabolism
 - rt Carbohydrate metabolism
 - rt Mineral metabolism
 - rt Organic compound metabolism
 - rt Oxidative compound metabolism
 - rt Protein metabolism
 - rt Vitamin metabolism
- Metabolites**
- Metal uptake**
 - sn Used from 1974 forward
- Metallic coatings**
 - rt Coatings
- Metallurgy**
- Metals**
 - rt Heavy metals
- Metamorphic rocks**
 - sn Used from 1973 forward
 - rt Rocks
- Metamorphosis**
- Metazoa**
- Meteorological buoys**
 - rt Buoys
- Meteorological data**
- Meteorological observations**
- Meteorology**
 - rt Biometeorology
 - rt Hydrometeorology
 - rt Maritime meteorology
 - rt Radiometeorology
- Methodology**
 - sn Used only before 1967
- Methods**
 - sn Used only before 1970
 - u Compound terms. e.g., Laboratory methods
- Metric systems**
 - sn Used from 1970 forward
- Mica**
- Microbenthos**
 - uf Meiobenthos after 1972
 - rt Benthic organisms
 - rt Benthos
 - rt Macrobenthos
- Microbial activity**
 - sn Used from 1973 forward
- Microbial degradation**
 - sn Used from 1972 forward
 - rt Biodegradation
 - rt Degradation
- Microbial pollution**
 - rt Pollution
- Microbiology**
 - uf Geomicrobiology
- Microdesmidae**
 - sn Used from mid-1980 forward
 - uf Wormfish after mid-1980
 - rt Osteichthyes
- Microfauna**
 - uf Meiofauna after 1972
 - rt Fauna
 - rt Macrofauna
- Microflora**
 - rt Flora
 - rt Macroflora
- Microfossils**
 - rt Fossils
- Microorganisms**
 - rt Bacteria
- Micropaleontology**
 - rt Paleontology
- Microplankton**
 - rt Megaplankton
 - rt Mesoplankton
 - rt Nannoplankton
 - rt Plankton

Controlled Vocabulary

- Microscopy**
sn Used from 1973 forward
rt Electron microscopy
- Microstructure**
- Microwave radiation**
rt Radiation
- Microwave radiometry**
- Microwave scattering**
sn Used from 1973 forward
rt Scattering
- Microwaves**
rt Waves
- Mid-oceanic ridge-rift system**
sn Used from 1972 forward
- Mid-oceanic ridges**
sn Also use Mid-ocean ridges before 1974
rt Ridges
- Mid-oceanic rifts**
sn Used from 1970 forward
rt Rifts
- Mid-oceanic rises**
sn Used from 1974 forward
sn Use Mid-ocean rises before 1969
rt Rises
- Mid-oceanic stations**
rt Stations
- Midges**
u Insecta
- Midwater trawls**
rt Trawls
- Migration**
sn Also use plural before 1973
rt Fish migration
- Milk**
- Mimicry**
- Mineral deposits**
rt Deposits
- Mineral exploitation**
rt Exploitation
- Mineral exploration**
rt Exploration
- Mineral metabolism**
sn Used from 1976 forward
rt Metabolism
- Mineral precipitates**
- Mineral recoveries**
- Mineral resources**
rt Resources
- Mineral sands**
uf Quartz sand after 1973
rt Sands
- Mineral/chemical extraction**
rt Extraction
- Mineralization**
- Mineralogy**
rt Clay mineralogy
rt Sediment mineralogy
- Minerals**
rt Authigenic minerals
rt Heavy minerals
rt Offshore minerals
rt Trace minerals
- Mines**
- Mining**
uf Ocean mining after 1972
rt Deep-sea mining
rt Offshore mining
rt Underwater mining
- Minnows**
u Cyprinidae
- Miocene**
sn Used only before 1973
u Tertiary
- Missiles**
- Mississippian**
u Carboniferous
- Mites**
sn Used only before mid-1980
u Arachnida
- Mitosis**
rt Meiosis
- Mixed layers**
- Mixing**
rt Convective mixing
- Mixing rates**
sn Used from 1974 forward
sn Also use singular before 1973
- Mixing zones**
sn Used from 1972 forward
sn Use singular before 1972
- Mobile drilling units**
- Mobile platforms**
rt Platforms
- Mobile rigs**
rt Rigs
- Mobilidae**
sn Used from mid-1980 forward
uf Manta rays
rt Chondrichthyes
rt Rays
- Models**
sn Used only before 1968
u Compound terms, e.g., Tide models
- Mohole**
sn Used only before 1968
u Mohorovicic discontinuity
- Mohorovicic discontinuity**
sn Used before 1967 and after 1979
uf Mohole
- Mojarras**
u Gerreidae
- Molas**
sn Used only before mid-1980
u Molidae
- Molecular spectroscopy**
rt Spectroscopy
- Molecular weight**
sn Used from 1974 forward
sn Use plural before 1974
rt Weight
- Moles**
- Molidae**
sn Used from mid-1980 forward
uf Globefish
uf Marine sunfish
uf Molas after mid-1980
rt Osteichthyes
- Mollusca**
sn Also use Mollusks before 1973
rt Aplacophora
rt Cephalopoda
rt Gastropoda
rt Monoplacophora
rt Pelecypoda
rt Polyplacophora
rt Scaphopoda
- Molluscicides**
sn Used from 1980 forward
rt Pesticides
- Molting**
sn Used from 1972 forward
sn Use Moulting before 1972
- Molting cycles**
sn Used from 1973 forward
sn Use singular in 1972
sn Use Moulting cycles before 1972
- Molybdenum**
- Molybdenum compounds**
sn Used from 1978 forward
- Monitoring instruments**
sn Used from 1973 forward
rt Instruments
rt Measuring instruments
rt Sampling instruments
- Monitoring methods**
sn Used from 1973 forward
rt Measuring methods
rt Sampling methods
- Monitoring systems**
rt Sampling systems
- Monoplacophora**
rt Mollusca
- Monopods**
sn Also use singular before 1967
- Monosaccharides**
sn Used from 1973 forward
uf Glucose after 1972
uf Heptoses
uf Hexoses after mid-1980
uf Pentoses
uf Tetroses
uf Trioses
rt Oligosaccharides
rt Polysaccharides
- Monsoons**
sn Also use singular before 1966
- Monthly variations**
sn Used only before 1968
u Temporal variations
- Moored ships**
rt Ships
- Mooring**
sn Also use plural before 1978
rt Single buoy mooring
- Mooring cables**
rt Cables
- Mooring devices**
- Mooring lines**
rt Lines
- Moraines**
- Moray eels**
sn Used only before mid-1980

Controlled Vocabulary

- u Muraenidae
- Morbidity**
 - sn Used from 1980 forward
 - rt Mortality
- Moringuidae**
 - sn Used from mid-1980 forward
 - uf Spaghetti eels
 - rt Osteichthyes
- Morphogenesis**
- Morphological variations**
 - sn Used only before 1968
 - u Morphology
- Morphology**
 - uf Morphological variations after 1967
 - rt Anatomy
 - rt Comparative morphology
 - rt Geomorphology
 - rt Histology
- Morphometry**
 - sn Used from 1973 forward
 - uf Morphometrics after 1972
 - rt Biometrics
- Mortality**
 - rt Fish mortality
 - rt Morbidity
 - rt Survival
- Mortality rates**
 - sn Used from 1973 forward
 - sn Use singular before 1973
- Moss animals**
 - u Ectoprocta
- Motility**
 - sn Used only before 1973
 - u Movement
- Motion analysis**
- Motion prediction**
 - sn Used from 1970 forward
- Mouths**
 - sn Used from 1973 forward
- Movement**
 - sn Also use plural before 1969
 - uf Motility after 1972
 - rt Air movement
 - rt Crustal movement
 - rt Hydrodynamic movement
 - rt Plate movement
 - rt Rock movement
 - rt Water movement
- Mucopolysaccharides**
 - sn Used only before mid-1980
 - sn Use singular before 1971
 - u Polysaccharides
- Mud**
- Mud banks**
 - rt Banks
- Mud deposits**
 - rt Deposits
- Mud flats**
- Mugilidae**
 - sn Used from mid-1980 forward
 - uf Grey mullets
 - uf Mulletts after mid-1980
 - rt Osteichthyes
- Mulletts**
 - sn Used only before mid-1980
 - u Mugilidae
- Mullidae**
 - sn Used from mid-1980 forward
 - uf Goatfish
 - uf Red mullets
 - rt Osteichthyes
- Multi-stage flash distillation**
 - sn Used from 1970 forward
 - rt Distillation
- Multispectral analysis**
 - sn Used from 1974 forward
- Multispectral imagery**
- Mummichogs**
 - sn Used only before 1973
 - sn Use Killifish 1974-80
 - u Cyprinodontidae after mid-1980
- Muraenesocidae**
 - sn Used from mid-1980 forward
 - uf Pike conger eels
 - rt Osteichthyes
- Muraenidae**
 - sn Used from mid-1980 forward
 - uf Moray eels after mid-1980
- Muscles**
 - rt Contractile muscles
- Muscular pathologies**
 - sn Used from 1979 forward
- Muscular systems**
 - sn Used from 1973 forward
 - rt Neuromuscular systems
- Museums**
 - sn Used from 1971 forward
- Mussels**
 - rt Mollusca
 - rt Pelecypoda
- Mutagens**
 - rt Carcinogens
- Mutants**
- Mutations**
- Mutualism**
 - sn Used from 1974 forward
 - rt Amensalism
 - rt Associations
 - rt Commensalism
- Myctophidae**
 - sn Used from mid-1980 forward
 - uf Lanternfish after mid-1980
 - uf Myctophids after 1972
 - rt Osteichthyes
- Myctophids**
 - sn Used only before 1973
 - u Myctophidae
- Myliobatidae**
 - sn Used from mid-1980 forward
 - uf Eagle rays after mid-1980
 - rt Chondrichthyes
 - rt Rays
- Mysidacea**
 - uf Mysids after 1972
 - uf Opossum shrimps
 - rt Crustacea
 - rt Malacostraca
- Mysids**
 - sn Used only before 1973
 - u Mysidacea
- Myxinidae**
 - sn Used from mid-1980 forward
 - uf Hagfish after mid-1980
 - rt Agnatha
- Myzostomaria**
 - rt Annelida
- Nannoplankton**
 - rt Megaplankton
 - rt Mesoplankton
 - rt Microplankton
 - rt Plankton
- Narcosis**
- Natural gases**
 - sn Used from 1973 forward
 - sn Use singular before 1973
 - rt Gases
- Natural resources**
 - rt Resources
- Nautical charts**
 - rt Charts
- Nautili**
 - sn Used from mid-1980 forward
 - rt Cephalopoda
 - rt Mollusca
- Naval architecture**
- Naval vessels**
 - rt Vessels
 - rt Warships
- Navigable waters**
- Navigable waves**
 - sn Used from 1980 forward
 - rt Waves
- Navigation**
 - rt Acoustic navigation
 - rt Celestial navigation
 - rt Channel navigation
 - rt Direction finding
 - rt Doppler navigation
 - rt Inertial navigation
 - rt Radar navigation
 - rt Radio navigation
 - rt Satellite navigation
- Navigation aids**
 - rt Compasses
 - rt Loran
 - rt Omega
- Nearshore**
 - sn Used only before 1973
 - sn Use compound terms below
 - sn Use Near-shore before 1970
- Nearshore records**
- Nearshore topography**
 - rt Topography
- Nebaliacea**
 - sn Used from 1974 forward
 - rt Crustacea
 - rt Malacostraca
- Necrosis**
 - sn Used from 1970 forward
- Needlefish**
 - u Belonidae
- Nekton**

Controlled Vocabulary

- rt Plankton
- Nematocysts**
 - rt Trichocysts
- Nematoda**
 - sn Used 1964-65 and 1973 forward
 - sn Use Nematodes 1966-72
 - uf Roundworms
 - rt Aschelminthes
- Nematomorpha**
 - uf Gordiacea
 - uf Hairworms
 - rt Aschelminthes
- Nemertean**
 - sn Used only before 1973
 - u Rhynchocoela
- Nemertinea**
 - u Rhynchocoela
- Nemichthyidae**
 - sn Used from mid-1980 forward
 - uf Snipe eels
 - rt Osteichthyes
- Neodymium**
 - sn Used from 1977 forward
- Neodymium compounds**
 - sn Used from 1980 forward
- Neon**
- Neon compounds**
 - sn Used from 1980 forward
- Nepheloid layers**
- Nephelometers**
- Neptunium**
 - sn Used from 1975 forward
- Neptunium compounds**
 - sn Used from 1980 forward
- Nerve cells**
 - sn Used only before 1973
 - u Neurons
- Nerve cords**
- Nerve nets**
 - sn Used from 1973 forward
- Nerves**
 - rt Neurons
 - rt Optic nerve
- Nervous system pathologies**
 - sn Used from 1973 forward
- Nervous systems**
 - sn Used from 1973 forward
 - sn Use singular before 1973
 - rt Autonomic nervous systems
 - rt Central nervous systems
 - rt Peripheral nervous systems
- Nets**
 - rt Gill nets
- Neurology**
- Neuromuscular pathologies**
 - sn Used from 1974 forward
- Neuromuscular systems**
 - sn Used from 1973 forward
 - rt Muscular systems
 - rt Nervous systems
- Neurons**
 - uf Nerve cells after 1972
 - rt Nerves
- Neurophysiology**
 - rt Physiology
- Neurosecretion**
 - sn Also use plural before 1970
 - rt Secretion
- Neuston**
 - rt Plankton
 - rt Pleuston
- New combination**
 - sn Used from 1973 forward
- New family**
- New genus**
 - sn Also use New genera before 1973
- New name**
 - sn Used from 1973 forward
- New occurrence**
 - sn Used before 1967 and after 1979
- New records**
 - sn used only before 1971
- New species**
- New subfamily**
- New subgenus**
- New subspecies**
- Niacin**
 - u Vitamins
- Nickel**
- Nickel alloys**
- Nickel compounds**
 - sn Used from 1980 forward
- Niobium**
- Niobium compounds**
 - sn Used from 1980 forward
- Nitrates**
- Nitrification**
 - rt Denitrification
- Nitrites**
- Nitrogen**
- Nitrogen compounds**
- Nitrogen cycle**
- Nitrogen fixation**
- Nobelium**
 - sn Used from 1980 forward
- Nobelium compounds**
 - sn Used from 1980 forward
- Noble gases**
 - sn Used only before 1973
 - u Rare gases
- Nocturnal cycles**
 - sn Used from 1974 forward
- Nocturnal variations**
 - sn Used from 1973 forward
 - rt Diurnal variations
- NODC**
 - sn Used only before 1970
 - sn Used for National Oceanographic Data Center
- Nodules**
 - rt Manganese nodules
- Noise levels**
 - uf Ambient noise after 1970
- Noise reduction**
- Noises**
 - sn Used from 1973 forward
 - sn Use singular before 1973
 - rt Flow noise
- Nomenclature**
 - sn Used before 1968 and after 1979
- Nomograms**
- Nonlinear equations**
- Nonmetallic materials**
 - rt Materials
- Notacanthidae**
 - sn Used from mid-1980 forward
 - uf Spiny eels
 - rt Osteichthyes
- Nozzles**
- Nuclear**
 - sn Use compound terms below
 - sn Used before 1967
- Nuclear energy**
- Nuclear explosions**
 - rt Explosions
- Nuclear explosives**
 - rt Explosives
- Nuclear fuels**
 - sn Used from 1974 forward
 - rt Fuels
- Nuclear power**
 - rt Power sources
- Nuclear power plants**
 - rt Power plants
- Nuclear powered ships**
 - rt Ships
- Nuclear propulsion**
 - rt Propulsion
- Nuclear radiation spectroscopy**
 - sn Used from 1974 forward
 - rt Spectroscopy
- Nuclear reactors**
- Nuclear weapons**
 - rt Weapons
- Nucleation**
- Nucleic acids**
 - uf DNA after 1972
 - uf RNA after 1972
 - rt Genes
 - rt Nucleosides
 - rt Nucleotides
 - rt Purines
 - rt Pyrimidines
- Nucleosides**
 - sn Used from 1978 forward
 - rt Nucleic acids
 - rt Nucleotides
 - rt Purines
 - rt Pyrimidines
- Nucleotides**
 - rt Nucleic acids
 - rt Nucleosides
 - rt Purines
 - rt Pyrimidines
- Nuclides**
- Nudibranchs**
 - sn Used only before 1973
 - sn Use Nudibranchia 1964-65
 - u Opisthobranchia
- Numerical analysis**
 - sn Used from 1973 forward
 - rt Mathematical analysis

Controlled Vocabulary

- rt Statistical analysis
- Nutrients**
- Nutrition**
- Nylon**
 - sn Used from 1973 forward
- Darfish**
 - u Regalecidae
- Ocean banks**
 - sn Used from 1975 forward
 - rt Banks
- Ocean basins**
 - rt Basins
- Ocean bottom**
 - rt Ocean floor
 - rt Seabed
- Ocean crust**
- Ocean data stations**
 - rt Ocean stations
 - rt Stations
- Ocean depth models**
- Ocean dumping**
- Ocean engineering**
 - rt Engineering
- Ocean exploitation**
 - sn Used only before 1973
 - u Exploitation
- Ocean exploration**
 - sn Used only before 1973
 - u Exploration
- Ocean floor**
 - uf Floor after 1971
 - rt Ocean bottom
 - rt Seabed
- Ocean floor deposits**
 - sn Used only before 1973
 - u Ocean floor and Deposits
- Ocean floor spreading**
 - sn Used only before 1973
 - u Seafloor spreading
- Ocean floor stations**
 - sn Used only before 1973
 - u Ocean floor and Stations
- Ocean floor topography**
 - rt Topography
- Ocean mining**
 - sn Used only before 1973
 - u Mining
- Ocean resources**
 - sn Used only before 1973
 - u Marine resources
- Ocean ridge system**
- Ocean stations**
 - rt Ocean data stations
 - rt Stations
- Ocean surveying**
 - rt Surveying
- Ocean weather stations**
 - sn Used only before 1973
 - u Weather stations
- Oceanic**
 - sn Used only before 1967
- Oceanographic data**
- Oceanographic surveys**
 - rt Surveys
- Oceanography**
 - rt Chemical oceanography
 - rt Geochemical oceanography
 - rt Medical oceanography
 - rt Paleooceanography
 - rt Physical oceanography
- Octopi**
 - sn Used from 1973 forward
 - sn Use Octopuses before 1973
 - sn Also use Octopus in 1974
 - uf Devilfish
 - uf Paper nautilus
 - rt Cephalopoda
 - rt Mollusca
- Odontaspidae**
 - sn Used from mid-1980 forward
 - uf Sand tigers
 - rt Chondrichthyes
 - rt Sharks
- Offshore**
 - sn Use compound terms below
 - sn Used before 1974
- Offshore construction**
- Offshore drilling**
 - rt Drilling
- Offshore drilling rigs**
 - sn Used only before 1973
 - u Drilling rigs
- Offshore equipment**
 - sn Used from 1973 forward
 - rt Equipment
- Offshore exploitation**
 - rt Exploitation
- Offshore exploration**
 - rt Exploration
- Offshore industry**
 - sn Used before 1978 and after 1979
 - rt Industries
- Offshore leases**
- Offshore loading facilities**
- Offshore minerals**
 - rt Minerals
- Offshore mining**
 - rt Mining
- Offshore operations**
- Offshore platforms**
 - sn Used only before 1978
 - u Offshore structures
- Offshore production**
 - rt Production
- Offshore structures**
 - uf Offshore platforms after 1972
 - rt Platforms
- Offshore wells**
 - rt Wells
- Ogcocephalidae**
 - sn Used from mid-1980 forward
 - uf Batfish
 - rt Osteichthyes
- Oil**
 - sn Used only before 1973
 - sn Use compound terms below
- Oil and gas**
- Oil and gas operations**
 - sn Used from 1970 forward
- Oil booms**
 - sn Used from 1970 forward
- Oil contamination**
 - rt Contamination
- Oil discoveries**
- Oil drilling**
 - rt Drilling
- Oil exploitation**
 - rt Exploitation
 - rt Petroleum exploitation
- Oil exploration**
 - rt Exploration
 - rt Petroleum exploration
- Oil import**
 - sn Used from 1973 forward
 - rt Imports
- Oil industry**
 - rt Industries
- Oil operations**
- Oil pollution**
 - rt Pollution
- Oil pollution control**
 - sn Used from 1972 forward
 - rt Pollution control
- Oil processing**
 - sn Used from 1970 forward
- Oil production**
 - rt Production
- Oil reserves**
- Oil reservoirs**
 - rt Reservoirs
- Oil scrubbers**
 - sn Used from 1970 forward
- Oil skimmers**
- Oil slicks**
 - sn Used from 1970 forward
 - uf Slicks after 1971
- Oil spill containment**
 - sn Used from 1972 forward
- Oil spill removers**
- Oil spillage**
 - sn Used only before 1972
 - u Oil spills
- Oil spills**
 - uf Oil spillage after 1971
- Oil storage**
 - rt Storage
- Oil tankers**
 - rt Tankers
- Oil terminals**
 - rt Terminals
- Oil transport**
 - rt Transport
- Oil wells**
 - rt Wells
- Oil-water separators**
 - sn Used from 1973 forward
 - sn Use singular before 1973
- Oils**
 - sn Used from 1973 forward
 - rt Fish oils
 - rt Fuel oils
 - rt Hydraulic oils

Controlled Vocabulary

- rt Whale oils
- Olfaction**
- Oligocene**
 - sn Used only before 1973
 - u Tertiary
- Oligochaeta**
 - sn Used 1964-65 and 1973 forward
 - sn Use Oligochaetes 1967-72
 - rt Annelida
- Oligosaccharides**
 - uf Disaccharides after mid-1980
 - uf Trisaccharides
 - rt Monosaccharides
 - rt Polysaccharides
- Omega**
 - rt Navigation aids
- Ontogeny**
 - rt Phylogeny
- Oocytes**
 - sn Used only before 1973
- Oogenesis**
 - rt Gametogenesis
 - rt Spermatogenesis
- Oolitic aragonite**
 - rt Aragonite
- Opahs**
 - u Lamprididae
- Operations**
 - sn Used only before 1971
 - u Compound terms, e.g., Offshore operations
- Ophichthidae**
 - sn Used from mid-1980 forward
 - uf Snake eels
 - rt Osteichthyes
- Ophidiidae**
 - sn Used from mid-1980 forward
 - uf Brotulias after mid-1980
 - uf Cusk-eels
 - rt Osteichthyes
- Ophiolitic complexes**
 - sn Used from 1972 forward
- Ophiuroidea**
 - uf Brittle stars after mid-1980
 - rt Echinodermata
- Opisthobranchia**
 - uf Nudibranchs after 1972
 - uf Opisthobranchs after 1972
 - rt Gastropoda
 - rt Mollusca
- Opisthoproctidae**
 - sn Used from mid-1980 forward
 - uf Spookfish
 - rt Osteichthyes
- Opistognathidae**
 - sn Used from mid-1980 forward
 - uf Jawfish
 - rt Osteichthyes
- Opossum shrimps**
 - u Mysidacea
- Optic gland**
- Optic nerve**
 - rt Nerves
- Optical analysis**
 - sn Used from 1973 forward
 - rt Polarimetry
 - rt Refractometry
- Optical devices**
- Optical imaging**
- Optical measurements**
- Optical radar**
 - rt Radar
- Optical sensors**
 - rt Sensors
- Optics**
 - rt Fiber optics
 - rt Photo-optics
- Orbital velocity**
 - sn Used from 1974 forward
 - sn Use plural in 1973
 - rt Velocity
- Ordnance**
- Ordovician**
 - sn Used from 1973 forward
- Ore carriers**
 - sn Used from 1970 forward
 - rt Cargo transport
- Ore deposits**
 - rt Deposits
- Ore terminals**
 - rt Terminals
- Orectolobidae**
 - sn Used from mid-1980 forward
 - uf Carpet sharks
 - rt Chondrichthyes
 - rt Sharks
- Organelles**
 - sn Used before 1968 and after 1979
- Organic**
 - sn Use compound terms below
 - sn Used before 1967
- Organic carbon**
 - sn Used only before 1973
- Organic coatings**
 - rt Coatings
- Organic compound metabolism**
 - rt Metabolism
- Organic compounds**
- Organic matter**
- Organic pesticides**
 - sn Used from 1974 forward
 - rt Pesticides
- Organic-inorganic interactions**
- Organs**
- Orienting behavior**
 - sn Used from 1973 forward
 - rt Behavior
 - rt Kinesis
 - rt Taxis
 - rt Tropism
- Origin**
 - sn Used only before 1968
- Orogeny**
- Oscillations**
 - rt Inertial oscillations
- Oscillatory waves**
 - rt Waves
- Osmeridae**
 - sn Used from mid-1980 forward
 - uf Capelins after mid-1980
 - uf Smelts after mid-1980
 - rt Osteichthyes
- Osmium**
 - sn Used from 1980 forward
- Osmium compounds**
 - sn Used from 1980 forward
- Osmoregulation**
- Osmosis**
 - rt Reverse osmosis
- Ospreys**
 - u Aves
- Osteichthyes**
 - sn Used from 1973 forward
 - sn See Fish Families, Section J
 - uf Bony fish
- Osteology**
- Ostraciidae**
 - sn Used from mid-1980 forward
 - uf Boxfish after mid-1980
 - uf Cowfish
 - uf Trunkfish
 - rt Osteichthyes
- Ostracoda**
 - sn Used 1964-65 and 1973 forward
 - sn Use Ostracods 1966-72
 - rt Crustacea
- Otoliths**
- Otters**
 - u Carnivora
- Outboard motors**
 - u Engines
- Outcrops**
 - rt Rock outcrops
- Outer continental shelves**
 - sn Used from 1974 forward
 - sn Use singular before 1974
 - rt Continental shelves
- Outfalls**
- Ovaries**
 - rt Reproductive organs
- Overfishing**
 - rt Fishing
- Oxidation**
 - rt Biological oxidation
 - rt Chemical oxidation
 - rt Photooxidation
- Oxidative compound metabolism**
 - sn Used from 1974 forward
 - rt Biological oxidation
 - rt Metabolism
- Oxygen**
 - rt DO
 - rt Hyperbaric oxygen
- Oxygen balance**
- Oxygen concentration**
 - sn Used only before 1973
 - u Oxygen content
- Oxygen consumption**
- Oxygen content**
 - uf Oxygen concentration after 1972
- Oxygen distribution**
 - rt Distribution

Controlled Vocabulary

- Oxygen exchange**
Oxygen supply
Oxygen tension
sn Used before 1968 and after 1979
Oxygen tolerance
Oxygen toxicity
rt Toxicity
Oxygen uptake
sn Used before 1973 and after 1979
Oxygenation
sn Used from 1974 forward
Oyster drills
u Gastropoda
Oyster farming
sn Used only before 1973
u Oysters and Aquiculture
Oyster fisheries
rt Fisheries
Oysters
uf Pearl oysters after 1971
rt Mollusca
rt Pelecypoda
Ozone
Pack-ice
sn Used only before 1973
sn Use Pack ice before 1970
u Sea ice
Packaging
sn Used only before 1973
Paints
sn Used from 1973 forward
sn Use singular before 1973
rt Coatings
Paleobiology
rt Biogeography
rt Paleocology
Paleocene
sn Used only before 1971
u Tertiary
Paleoclimatology
rt Climatology
Paleoecology
rt Biogeography
rt Ecology
Paleogeography
rt Biogeography
rt Geography
Paleomagnetic poles
sn Used from 1972 forward
Paleomagnetic stratigraphy
rt Stratigraphy
Paleomagnetism
rt Magnetism
Paleontology
rt Micropaleontology
Paleoceanography
rt Oceanography
Paleosalinity
rt Salinity
Paleotemperatures
rt Temperature
Paleozoic
Paleozoogeography
sn Used only 1972-76
Palladium
sn Used from 1980 forward
Palladium compounds
sn Used from 1980 forward
Palynology
Palynomorphs
Pancreases
sn Used from 1973 forward
sn Use singular before 1973
Paper nautilus
u Octopi
Parasites
rt Fish parasites
Parasitism
Parathyroid glands
Parrot fish
sn Used only before mid-1980
u Scaridae
Parthenogenesis
Particle motion
sn Used from 1973 forward
sn Use plural before 1973
Particle size
Particle size distribution
rt Distribution
Particle transport
rt Transport
Particulate matter
Passive sonar
sn Used from 1976 forward
rt Sonar
Passive transport
sn Used from 1976 forward
rt Active transport
Patents
sn Also use singular before 1971
sn Used for document type
Pathogenicity
Pathogens
PCB compounds
sn Used from 1974 forward
uf Polychlorinated biphenyls after 1972
Peanut worms
u Sipunculida
Pearleyes
u Scopelarchidae
Pearlfish
u Carapidae
Peat
Pebbles
Pelagic
sn Use compound terms below
sn Used before 1971
Pelagic fauna
sn Used from 1973 forward
rt Fauna
rt Fish
Pelagic fishes
sn Used only before 1973
Pelagic flora
sn Used from 1975 forward
rt Flora
Pelagic organisms
sn Used from 1973 forward
Pelagic populations
sn Used only before 1973
Pelagic sediments
sn Also use singular before 1972
rt Sediments
Pelagic zones
sn Used from 1973 forward
Pelecypoda
sn Used 1964-65 and 1973 forward
sn Use Pelecypods 1970-72
uf Bivalves after mid-1980
uf Lamelliibranchs after 1972
rt Clams
rt Cockles
rt Mollusca
rt Mussels
rt Oysters
rt Scallops
Pelicans
sn Used only before mid-1980
u Aves
Pempberidae
sn Used from mid-1980 forward
uf Sweepers
rt Osteichthyes
Penaeidae
sn Used only before 1973
u Prawns
Penetrators
sn Used from 1972 forward
Penetrometers
sn Used from 1970 forward
Penguins
sn Used only before mid-1980
u Aves
Peninsulas
Pennsylvanian
u Carboniferous
Pentacerotidae
sn Used from mid-1980 forward
uf Armorheads
rt Osteichthyes
Pentastomida
rt Arthropoda
Pentoses
u Monosaccharides
Peptides
sn Used only before 1973
u Proteins
Perches
sn Used only before mid-1980
sn Use singular before 1973
u Embiotocidae
Percichthyidae
sn Used from mid-1980 forward
uf Temperate basses
rt Osteichthyes
Perciformes
sn Used only before mid-1980
Percophididae
sn Used from mid-1980 forward
uf Flatheads
rt Osteichthyes
Periodicity

Controlled Vocabulary

- rt Biorhythms
- rt Photoperiods
- rt Thermoperiods
- Peripheral nervous systems**
 - sn Used from 1973 forward
 - rt Nervous systems
- Periwinkles**
 - sn Used only before mid-1980
 - u Gastropoda
- Permafrost**
- Permeability**
- Permeation rates**
- Permian**
- Permeable membranes**
 - rt Membranes
- Pesticide residues**
 - sn Used from 1970 forward
 - rt Herbicide residues
 - rt Insecticide residues
- Pesticides**
 - rt Anthelmintics
 - rt Antibiotics
 - rt Avicides
 - rt Halogenated pesticides
 - rt Herbicides
 - rt Insecticides
 - rt Molluscicides
 - rt Organic pesticides
 - rt Piscicides
- Petrels**
 - sn Used only before mid-1980
 - u Aves
- Petrochemicals**
- Petrochemistry**
 - sn Used from 1970 forward
 - rt Chemistry
- Petrography**
- Petroleum**
 - uf Crude oil after 1972
- Petroleum engineering**
 - sn Used from 1974 forward
 - rt Engineering
- Petroleum exploitation**
 - sn Used from 1973 forward
 - rt Exploitation
 - rt Oil exploitation
- Petroleum exploration**
 - rt Exploration
 - rt Oil exploration
- Petroleum industry**
 - rt Industries
- Petroleum operations**
- Petroleum production**
 - rt Production
- Petroleum resources**
 - rt Resources
- Petrology**
- Petromyzontidae**
 - sn Used from mid-1980 forward
 - uf Lampreys after mid-1980
 - rt Agnatha
- pH**
- Phaeophyta**
 - uf Brown algae after mid-1980
- uf Kelp after 1972
- rt Algae
- rt Seaweeds
- Phagocytosis**
- Pharmacology**
 - rt Biochemistry
 - rt Drugs
 - rt Toxicology
- Pharynxes**
 - sn Used from 1976 forward
- Phenotypes**
 - rt Genotypes
- Pholidae**
 - sn Used from mid-1980 forward
 - uf Gunnels
 - rt Osteichthyes
- Phonoreception**
 - sn Used from 1973 forward
 - uf Hearing after 1972
 - rt Sensory perception
 - rt Underwater hearing
- Phoronida**
 - sn Used from 1973 forward
- Phosphate content**
- Phosphates**
 - sn Also use singular before 1972
- Phosphatides**
 - sn Used from 1976 forward
 - uf Phospholipids
- Phosphatidic acids**
 - u Glycerophosphatides
- Phosphatidyl esters**
 - sn Used from 1975 forward
 - rt Esters
- Phosphatidyl inositides**
 - u Glycerophosphatides
- Phospholipids**
 - u Phosphatides
- Phosphorescence**
 - rt Bioluminescence
 - rt Fluorescence
 - rt Luminescence
- Phosphorite**
- Phosphorus**
- Phosphorus compounds**
 - sn Used from 1970 forward
- Phosphorus content**
- Photic zones**
 - sn Used from 1972 forward
 - rt Aphotic zones
 - rt Epipelagic entries
- Photo interpretations**
 - sn Used from 1974 forward
- Photo-optical instruments**
 - rt Instruments
- Photo-optics**
 - rt Optics
- Photochemical reactors**
- Photogrammetry**
- Photographic equipment**
 - rt Cameras
 - rt Equipment
- Photographic instruments**
 - rt Instruments
- Photography**
 - rt Aerial photography
 - rt Color photography
 - rt Satellite photography
 - rt Stereophotography
- Photolysis**
 - sn Used from 1975 forward
- Photomapping**
 - rt Mapping
- Photometers**
- Photooxidation**
 - rt Oxidation
- Photoperiods**
 - rt Periodicity
- Photophores**
- Photoreception**
 - sn Used from 1973 forward
 - uf Photoreceptors after 1972
 - rt Sensory perception
- Photoreceptors**
 - sn Used only before 1973
 - u Photoreception
- Photosynthesis**
- Phototaxis**
 - sn Used only before 1972
 - u Light responses
 - u Taxis
- Phycobilins**
 - sn Used from 1975 forward
 - rt Pigments
- Phycomycetes**
 - sn Used only before 1973
 - u Fungi
- Phylogeny**
 - rt Ontogeny
- Physical analysis**
 - sn Used from 1973 forward
- Physical oceanography**
 - rt Oceanography
- Physical properties**
 - sn Used before 1972 and after 1979
- Physics**
 - rt Biophysics
 - rt Geophysics
- Physiology**
 - rt Comparative physiology
 - rt Divers physiology
 - rt Neurophysiology
- Phytogeography**
 - rt Biogeography
 - rt Geography
 - rt Zoogeography
- Phytoplankton**
 - rt Plankton
 - rt Zooplankton
- Piers**
- Pigmentation**
 - rt Coloration
- Pigments**
 - rt Bile pigments
 - rt Carotenes
 - rt Carotenoids
 - rt Chlorophylls
 - rt Chromatophores

Controlled Vocabulary

- rt Cytochromes
- rt Hemoglobins
- rt Phycobilins
- rt Respiratory pigments
- rt Skin pigments
- rt Visual pigments
- Pike conger eels**
 - u Muraenesocidae
- Piles**
 - rt Steel piles
- Pilings**
- Pillows**
- Piloting**
- Pineal organs**
 - sn Used from 1973 forward
 - sn Use singular before 1973
- Pingers**
- Pinnacles**
 - sn Used from 1977 forward
- Pinnipedia**
 - sn Used 1964-66 and 1980 forward
 - sn Use Pinnipeds 1967-72
 - rt Mammalia
 - rt Sea lions
 - rt Seals
 - rt Walruses
- Pipe coupling**
- Pipe handling**
- Pipe laying**
 - sn Also use Pipelaying before 1978
- Pipefish**
 - sn Used only before mid-1980
 - u Syngnathidae
- Pipelines**
- Pipes**
 - rt Conductor pipes
- Piscicides**
 - sn Used from 1976 forward
 - rt Pesticides
- Pistons**
- Pituitary glands**
 - sn Used from 1973 forward
 - sn Use singular before 1973
- Placers**
- Plaice**
 - sn Used only before 1973
 - u Pleuronectidae
- Plane waves**
 - rt Waves
- Planing boats**
- Planing hulls**
 - rt Hulls
- Plankton**
 - rt Megaplankton
 - rt Mesoplankton
 - rt Microplankton
 - rt Nannoplankton
 - rt Nekton
 - rt Neuston
 - rt Phytoplankton
 - rt Pleuston
 - rt Seston
 - rt Tripton
 - rt Zooplankton
- Plankton blooms**
- Plankton composition**
- Plankton distribution**
 - sn Also use plural before 1973
 - rt Distribution
- Plankton nets**
 - sn Used only before 1973
- Plankton production**
 - sn Used from 1973 forward
- Plankton samplers**
- Plankton surveys**
 - rt Surveys
- Planktonic foraminifera**
 - rt Benthic foraminifera
 - rt Calcareous foraminifera
 - rt Foraminifera
- Planning**
 - sn Used only before 1968
 - u Compound terms, e.g., Regional planning
- Plant hormones**
 - sn Used from 1977 forward
 - rt Hormones
- Plants**
 - sn Not used for organisms
 - rt Desalination plants
 - rt Distillation plants
 - rt Power plants
 - rt Processing plants
- Plasma**
- Plasma chemistry**
 - sn Used from 1973 forward
- Plasmalogens**
 - u Glycerophosphatides
- Plasticity**
- Plastics**
 - rt GRP
 - rt Reinforced plastics
- Plate movement**
 - sn Used from 1974 forward
 - rt Movement
- Plate tectonics**
 - rt Tectonics
- Plateaus**
 - sn Used from 1975 forward
 - rt Continental plateaus
 - rt Marginal plateaus
 - rt Submarine plateaus
- Plates**
 - rt Crustal plates
- Platform design**
 - sn Used only before 1973
- Platforms**
 - rt Drilling platforms
 - rt Fixed platforms
 - rt Floating platforms
 - rt Instrument platforms
 - rt Mobile platforms
 - rt Offshore structures
- Platinum**
- Platinum compounds**
 - sn Used from 1980 forward
- Platyhelminthes**
 - uf Flatworms
- rt Cestoda
- rt Trematoda
- rt Turbellaria
- Pleistocene**
 - sn Used only before 1974
 - u Quaternary
- Pleuronectidae**
 - sn Used from mid-1980 forward
 - uf Dabs after mid-1980
 - uf Halibuts
 - uf Plaice after 1972
 - uf Righteye flounders
 - rt Bothidae
- Pleuston**
 - rt Neuston
 - rt Plankton
- Pliocene**
 - sn Used only before 1973
 - u Tertiary
- Plotting**
 - rt Position plotting
 - rt Radar plotting
- Plutonium**
- Plutonium compounds**
 - sn Used from 1980 forward
- Pneumatic barriers**
- Pneumatic lift**
- Pneumatic towing devices**
- Pneumatic wave generators**
 - sn Used from 1976 forward
 - rt Generators
- Poachers**
 - u Agonidae
- Poeciliidae**
 - sn Used from mid-1980 forward
 - uf Guppy
 - uf Live-bearers after mid-1980
 - rt Osteichthyes
- Pogonophora**
 - uf Beard worms after mid-1980
 - uf Pogonophorans after 1972
- Poisoning**
 - sn Used from 1975 forward
 - rt Fish poisoning
- Poisons**
 - rt Toxins
- Polarimetry**
 - sn Used from 1975 forward
 - rt Optical analysis
- Polarity**
 - rt Magnetic polarity
- Polarization**
- Polarography**
 - sn Used from 1974 forward
- Politics**
 - sn Used from 1973 forward
- Pollen**
- Pollocks**
 - sn Used only before 1973
 - u Gadidae
- Pollutant analysis**
- Pollutant detection**
 - sn Used from 1973 forward
- Pollutant dispersal**

Controlled Vocabulary

- sn Used from 1973 forward
- Pollutant persistence**
 - sn Used from 1974 forward
- Pollutant removal**
 - sn Used from 1973 forward
 - rt Contaminant removal
- Pollution**
 - rt Air pollution
 - rt Bacterial pollution
 - rt Beach pollution
 - rt Chemical pollution
 - rt Contamination
 - rt Marine pollution
 - rt Microbial pollution
 - rt Oil pollution
 - rt Thermal pollution
 - rt Viral pollution
 - rt Water pollution
- Pollution control**
 - rt Oil pollution control
- Pollution control equipment**
 - sn Used from 1973 forward
 - rt Equipment
- Pollution diffusion**
 - sn Used only before 1973
- Pollution distribution**
 - rt Distribution
- Pollution indicators**
 - sn Used before 1973 and after 1979
- Pollution prevention**
- Pollution violations**
 - sn Used from 1973 forward
- Polonium**
- Polonium compounds**
 - sn Used from 1980 forward
- Polychaeta**
 - sn Used 1964-65 and 1973 forward
 - sn Use Polychaetes 1966-72
 - uf Bristle worms after mid-1980
 - uf Sandworms
 - uf Tubeworms after mid-1980
 - rt Annelida
- Polychlorinated biphenyls**
 - u PCB compounds
- Polymers**
- Polymorphism**
 - rt Dimorphism
- Polymyxiidae**
 - sn Used from mid-1980 forward
 - uf Beardfish
 - rt Osteichthyes
- Polynemidae**
 - sn Used from mid-1980 forward
 - uf Threadfins after mid-1980
 - rt Osteichthyes
- Polyplocophora**
 - sn Used from 1975 forward
 - uf Chitons after mid-1980
 - rt Mollusca
- Polyps**
 - sn Used from mid-1980 forward
 - rt Alternation of generations
 - rt Medusae
- Polysaccharides**
 - uf Cellulose after 1972
 - uf Dextrans after mid-1980
 - uf Mucopolysaccharides after mid-1980
 - uf Xylans
 - rt Monosaccharides
 - rt Oligosaccharides
- Pomacentridae**
 - sn Used from mid-1980 forward
 - uf Damselfish after mid-1980
 - rt Osteichthyes
- Pomadasyidae**
 - sn Used from mid-1980 forward
 - uf Grunts after mid-1980
 - rt Osteichthyes
- Pomatomidae**
 - sn Used from mid-1980 forward
 - uf Bluefish after mid-1980
 - rt Osteichthyes
- Pomfrets**
 - u Bramidae
- Pompano**
 - sn Used only before mid-1980
 - u Carangidae
- Pontoons**
- Population composition**
 - sn Used from 1970 forward
- Population density**
 - rt Density
- Population depletion**
 - sn Used only before 1973
 - u Population dynamics
- Population dynamics**
 - uf Population depletion after 1972
- Population parameters**
- Population variations**
- Populations**
 - sn Used only before 1968
 - sn Also use singular before 1967
- Porcupine fish**
 - u Diodontidae
- Porgies**
 - sn Used only before mid-1980
 - u Sparidae
- Porifera**
 - uf Calcarea
 - uf Demospongiae after mid-1980
 - uf Hexactinellida
 - uf Sponges after mid-1980
- Porosity**
- Porphyryns**
- Porpoises**
 - sn Also use singular before 1966
 - rt Cetacea
 - rt Mammalia
- Port administration**
- Port development**
 - rt Development
- Port facilities**
- Port installations**
- Port maintenance**
- Port management**
 - sn Used from 1971 forward
 - rt Management
- Port operations**
- Port planning**
 - sn Used from 1970 forward
- Port reclamation**
 - sn Used from 1977 forward
- Ports**
- Position fixing**
- Position plotting**
 - sn Used from 1974 forward
 - rt Plotting
- Positioning**
 - rt Dynamic positioning
 - rt Electronic positioning
 - rt Geodetic positioning
- Postlarvae**
 - sn Used only before 1973
 - u Young
- Potassium**
- Potassium compounds**
 - sn Used from 1973 forward
- Potentiometry**
 - sn Used from 1974 forward
- Power**
 - sn Use compound terms below
 - sn Used before 1968
- Power generation**
- Power plants**
 - rt Electric power plants
 - rt Nuclear power plants
 - rt Plants
 - rt Steam power plants
- Power sources**
 - rt Electric power
 - rt Geothermal power
 - rt Hydraulic power
 - rt Hydroelectric power
 - rt Nuclear power
 - rt Solar energy
 - rt Steam power
 - rt Tidal power
 - rt Wind power
- Power spectra**
- Power tools**
 - rt Tools
- Power transmission**
 - rt Transmissions
- Praseodymium**
 - sn Used from 1980 forward
- Praseodymium compounds**
 - sn Used from 1980 forward
- Prawn fisheries**
 - rt Fisheries
- Prawns**
 - uf Penaeidae after 1972
 - rt Crustacea
 - rt Decapoda
 - rt Malacostraca
- Precambrian**
 - sn Used from 1971 forward
- Precipitates**
- Precipitation**
- Precipitation detection**
 - sn Used from 1978 forward
- Predation**
- Predators**

Controlled Vocabulary

- Prediction**
sn Used only before 1968
u Forecasting
- Prefabrication**
sn Used from 1972 forward
- Preservation**
rt Fish preservation
- Pressure**
sn Use compound terms below
sn Used before 1975
- Pressure chambers**
- Pressure distribution**
rt Distribution
- Pressure fields**
- Pressure gradients**
- Pressure hulls**
rt Hulls
- Pressure measurements**
- Pressure sensing**
- Pressure testing**
- Pressure tolerance**
- Pressure transducers**
rt Transducers
- Pressure variations**
- Pressure vessels**
- Priacanthidae**
sn Used from mid-1980 forward
uf Bigeyes
rt Osteichthyes
- Priapulida**
- Pricklebacks**
u Stichaeidae
- Primary production**
sn Used from 1973 forward
rt Production
- Primary productivity**
rt Productivity
- Primates**
sn Used from 1978 forward
rt Humans
rt Mammalia
- Pristidae**
sn Used from mid-1980 forward
uf Sawfish
rt Chondrichthyes
rt Rays
- Probes**
- Processing plants**
rt Plants
- Production**
rt Gas production
rt Offshore production
rt Oil production
rt Petroleum production
rt Primary production
rt Secondary production
- Productivity**
rt Primary productivity
- Profiles**
sn Used only before 1968
u Compound terms, e.g., Sound profiles
- Profiling**
rt Seismic profiling
rt Seismic reflection profiling
- rt Subbottom profiling
- Programs**
sn Used only before 1969
u Compound terms, e.g., Government programs
- Project Mobile**
sn Used only before 1968
- Promethium**
sn Used from 1980 forward
- Promethium compounds**
sn Used from 1980 forward
- Propagation**
sn Used only before 1972
u Compound terms, e.g., Sound propagation
- Propeller shafts**
rt Shafts
- Pressellers**
rt Controllable pitch propellers
rt Ducted propellers
rt Supercavitating propellers
- Properties**
sn Used only before 1967
u Compound terms, e.g., Mechanical properties
- Propulsion**
rt Nuclear propulsion
rt Ship propulsion
- Prosobranchia**
sn Used 1964-65 and 1973 forward
sn Use Prosobranchs 1966-72
rt Gastropoda
rt Mollusca
- Protactinium**
- Protactinium compounds**
sn Used from 1980 forward
- Protection**
sn Used only before 1968
u Compound terms, e.g., Environmental protection
- Protein fractions**
sn Used only before 1973
- Protein metabolism**
sn Used from 1973 forward
rt Metabolism
- Proteins**
sn Also use singular before 1969
uf Collagens after 1972
uf Peptides after 1972
uf Transferrin after 1972
- Proterozoic**
sn Used from 1976 forward
- Protozoa**
sn Used 1964-65 and 1973 forward
sn Use Protozoans 1966-72
uf Ciliata after mid-1980
uf Flagellata after mid-1980
uf Radiolarians after 1972
uf Rhizopoda after mid-1980
uf Sporozoa after mid-1980
uf Suctoria after mid-1980
uf Tintinnids after 1972
- Prowfish**
u Zaproridae
- Pseudoscorpions**
u Arachnida
- Psychology**
- Psychrophiles**
rt Mesophiles
rt Thermophiles
- Pteridines**
- Pteropods**
sn Used only before 1973
u Gastropoda
- Ptilichthyidae**
sn Used from mid-1980 forward
uf Quillfish
rt Osteichthyes
- Public concern**
sn Used from 1973 forward
- Public health**
sn Used from 1973 forward
- Puffers**
sn Used only before mid-1980
u Tetraodontidae
- Pulse signals**
sn Used from 1974 forward
rt Signals
- Pumice**
- Pumps**
- Purification**
- Purines**
rt Nucleic acids
rt Nucleosides
rt Nucleotides
rt Pyrimidines
- Purse seiners**
sn Used only before 1974
u Seiners
- Purse seines**
sn Used only before 1973
u Seines
- Pycnogonida**
sn Used 1965 and 1976 forward
sn Use Pycnogonids 1966-72
uf Sea spiders after mid-1980
rt Arthropoda
- Pyrimidines**
rt Nucleic acids
rt Nucleosides
rt Nucleotides
rt Purines
- Pyrite**
- Pyrophyta**
sn Used from 1976 forward
sn Not used for Dinoflagellates
rt Algae
- Quahogs**
sn Used only before mid-1980
u Clams
- Quantitative analysis**
sn Used only before 1970
u Chemical analysis
- Quantitative data**
sn Used before 1968 and after 1979
- Quartz**
- Quartz sand**
sn Used only before 1974

Controlled Vocabulary

- u Mineral sands
- Quaternary**
 - uf Holocene after 1972
 - uf Late Pleistocene
 - uf Pleistocene after 1973
 - uf Recent after 1972
- Quillfish**
 - u Ptilichthyidae
- Rachycentridae**
 - sn Used from mid-1980 forward
 - uf Cobias
 - rt Osteichthyes
- Radar**
 - rt Laser radar
 - rt Optical radar
- Radar imagery**
- Radar navigation**
 - rt Navigation
- Radar plotting**
 - rt Plotting
- Radiance**
- Radiation**
 - rt Alpha radiation
 - rt Beta radiation
 - rt Cosmic radiation
 - rt Electromagnetic radiation
 - rt Gamma radiation
 - rt Infrared radiation
 - rt Microwave radiation
 - rt Solar radiation
 - rt Ultraviolet radiation
 - rt X-ray radiation
- Radiation balance**
- Radiation flux**
- Radiation measurements**
- Radiation stress**
 - rt Stress
- Radio communications**
 - rt Communications
- Radio control**
- Radio controlled surface vehicles**
 - sn Used from 1979 forward
- Radio frequencies**
 - rt Frequencies
- Radio navigation**
 - rt Navigation
- Radio telemetry**
 - rt Telemetry
- Radio waves**
 - rt Waves
- Radioactive concentrations**
- Radioactive effluents**
 - rt Effluents
- Radioactive elements**
 - sn Used from 1970 forward
- Radioactive fallout**
- Radioactive isotopes**
 - sn Used only before 1975
 - u Radioisotopes
- Radioactive tracers**
 - rt Tracers
- Radioactive wastes**
- Radioactivity**
- Radioactivity measurements**
- Radioecology**
 - rt Ecology
- Radiofrequency spectroscopy**
 - rt Spectroscopy
- Radiography**
 - rt X-ray radiography
- Radioisotopes**
 - uf Radioactive isotopes after 1974
 - uf Radionuclides after 1972
 - rt Isotopes
- Radiolarians**
 - sn Used only before 1973
 - u Protozoa
- Radiolocating**
 - sn Used from 1970 forward
- Radiometeorology**
 - sn Used from 1975 forward
 - rt Meteorology
- Radiometers**
 - sn Use with period for full set
- Radiometric spectrometers**
 - sn Used from 1974 forward
- Radionuclides**
 - sn Used only before 1973
 - u Radioisotopes
- Radios**
- Radiosondes**
 - rt Sondes
- Radiotelephony**
 - sn Used from 1973 forward
- Radiotracers**
- Radium**
- Radium compounds**
 - sn Used from 1980 forward
- Radon**
- Radon compounds**
 - sn Used from 1980 forward
- Radulae**
- Ragfish**
 - u Icosteidae
- Rainfall**
- Rajidae**
 - sn Used from mid-1980 forward
 - uf Skates after mid-1980
 - rt Chondrichthyes
- Range**
 - sn Used before 1968 and after 1979
- Ranging**
- Rare gases**
 - sn Used from 1973 forward
 - uf Inert gases after 1972
 - uf Noble gases after 1972
 - rt Gases
- Rates**
 - sn Used only before 1968
 - u Compound terms. e.g., Mortality rates
- Ratio**
 - sn Used only before 1968
 - u Compound terms. e.g., Sex ratio
- Rattails**
 - u Macrouridae
- Rayleigh waves**
 - rt Waves
- Rays**
 - rt Chondrichthyes
 - rt Dasyatidae
 - rt Mobulidae
 - rt Myliobatidae
 - rt Pristidae
 - rt Rhinobatidae
 - rt Torpedinidae
- Receivers**
- Recent**
 - sn Used only before 1973
 - u Quaternary
- Recompression**
- Recording instruments**
 - rt Instruments
- Recovery**
 - sn Use compound terms below
 - sn Used before 1971
- Recovery apparatus**
- Recovery operations**
- Recovery vehicles**
 - rt Vehicles
- Recreation**
 - rt Boating
 - rt Sport fishing
- Recreation beaches**
 - rt Beaches
- Recruitment**
 - sn Used only before 1972
- Red algae**
 - sn Used only before mid-1980
 - u Rhodophyta
- Red clay**
 - sn Used only before 1972
 - u Clay
- Red mullets**
 - u Mullidae
- Red tide**
- Redfishes**
 - sn Used only before 1973
 - u Scorpaenidae
- Redox**
- Reefs**
 - sn See Geographic Term list for specific reefs
 - rt Artificial reefs
 - rt Coral reefs
 - rt Fossil reefs
 - rt Worm reefs
- Reentry systems**
- Refineries**
- Refinery ships**
 - rt Ships
- Refinery wastes**
- Reflection**
 - rt Light reflection
 - rt Seismic reflection
 - rt Signal reflection
 - rt Sound reflection
 - rt Surface reflection
 - rt Wave reflection
- Reflection profiles**
- Reflectivity**
- Reflexes**
 - sn Used from 1973 forward

Controlled Vocabulary

- Refraction**
rt Light refraction
rt Seismic refraction
rt Sound refraction
rt Wave refraction
- Refraction seismics**
- Refractometry**
sn Used from 1974 forward
rt Optical analysis
- Refrigeration**
- Regalecidae**
sn Used from mid-1980 forward
uf Oarfish
rt Osteichthyes
- Regeneration**
- Regional planning**
sn Used from 1973 forward
- Regional regulations**
sn Used from 1973 forward
- Regional studies**
sn Used only before 1968
- Regulations**
sn Used only before 1973
sn Use singular before 1970
u Compound terms, e.g., Government regulations
- Rehabilitation**
sn Used from 1973 forward
- Reinforced plastics**
rt GRP
rt Plastics
- Remoras**
u Echeneidae
- Remote control**
- Remote sensing**
- Remote sensors**
rt Sensors
- Repairs**
sn Use with period for full set
rt In situ repairs
rt Ship repairs
- Reproduction**
uf Reproductive patterns after 1972
rt Asexual reproduction
rt Breeding
rt Sexual reproduction
rt Spawning
- Reproductive organs**
rt Gonads
rt Ovaries
rt Testes
- Reproductive pathologies**
sn Used from 1973 forward
- Reproductive patterns**
sn Used only before 1973
u Reproduction
- Reproductive systems**
sn Used from 1970 forward
- Reptilia**
sn Used from 1973 forward
uf Crocodiles after mid-1980
uf Sea snakes
uf Turtles after mid-1980
rt Chordata
- rt Vertebrata
- Requiem sharks**
sn Used only before mid-1980
u Carcharhinidae
- Rescue**
sn Use compound terms below
sn Used before 1970
- Rescue equipment**
sn Used from 1970 forward
rt Equipment
- Rescue operations**
- Research**
sn Used only before 1967
- Research programs**
sn Used before 1970 and after 1979
- Research vessels**
rt Vessels
- Reservoirs**
rt Oil reservoirs
- Resins**
rt Epoxy resins
rt Ion-exchange resins
- Resistance**
rt Ship resistance
rt Wave resistance
- Resonance**
- Resource development**
sn Used only before 1973
- Resource management**
sn Use with period for full set
rt Management
- Resources**
rt Coastal resources
rt Fisheries resources
rt Food resources
rt Marine resources
rt Mineral resources
rt Natural resources
rt Petroleum resources
rt Seabed resources
rt Water resources
- Respiration**
- Respiration rates**
- Respiratory pathologies**
sn Used from 1974 forward
- Respiratory pigments**
sn Used from 1973 forward
rt Pigments
- Respiratory systems**
sn Used from 1973 forward
- Retina**
- Reverberation**
- Reverberation data**
sn Used from 1973 forward
- Reverse osmosis**
rt Osmosis
- Reynolds stress**
rt Stress
- Rhenium**
- Rhenium compounds**
sn Used from 1980 forward
- Rheotaxis**
- Rhincodontidae**
sn Used from mid-1980 forward
- uf Whale sharks
rt Chondrichthyes
rt Sharks
- Rhinobatidae**
uf Guitarfish
rt Rays
- Rhizopoda**
sn Used only before mid-1980
u Protozoa
- Rhodium**
sn Used from 1980 forward
- Rhodium compounds**
sn Used from 1980 forward
- Rhodophyta**
uf Red algae after mid-1980
rt Algae
rt Seaweeds
- Rhynchozoela**
uf Nemertans after 1972
uf Nemertinea
uf Ribbon worms after mid-1980
- Ribbon worms**
sn Used only before mid-1980
u Rhynchozoela
- Ribbonfish**
u Trachipteridae
- Ridges**
sn See Geographic Term list for specific ridges
rt Beach ridges
rt Mid-oceanic ridges
rt Sand ridges
- Rift valleys**
rt Valleys
- Rift zones**
sn See Geographic Term list for specific rift zones
- Rifting**
- Rifts**
rt Mid-oceanic rifts
- Rig construction**
- Righteye flounders**
u Pleuronectidae
- Rigs**
rt Drilling rigs
rt Floating rigs
rt Mobile rigs
rt Semisubmersible rigs
rt Workover rigs
- Rings**
sn Used from 1970 forward
- Rip currents**
rt Currents
- Riparian rights**
- Ripples**
rt Sand ripples
- Risers**
- Rises**
rt Continental rises
rt Mid-oceanic rises
- River discharges**
- Rivers**
sn See Geographic Term list for specific rivers

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- rt Tidal rivers
- rt Waterways
- RNA**
 - sn Used only before 1971
 - u Nucleic acids
- RO/RO**
 - sn Also use RO/ RO in 1973
 - uf Roll on/Roll off cargo ships
- RO/RO cargo design**
 - rt Design
- Robots**
 - sn Also use singular before 1970
- Rock borers**
 - rt Borers
- Rock magnetism**
 - rt Magnetism
- Rock mechanics**
- Rock movement**
 - rt Movement
- Rock outcrops**
 - rt Outcrops
- Rock pools**
- Rock sites**
- Rock terraces**
 - rt Terraces
- Rockfish**
 - sn Used only before mid-1980
 - u Scorpaenidae
- Rocks**
 - rt Geosynclinal rocks
 - rt Igneous rocks
 - rt Intrusive rocks
 - rt Metamorphic rocks
 - rt Sedimentary rocks
 - rt Ultrabasic rocks
 - rt Ultramafic rocks
 - rt Volcanic rocks
- Rocky shores**
 - rt Shores
- Roll damping**
 - rt Damping
- Roll stabilization**
 - rt Stabilization
- Roll-on/Roll-off (cargo ships)**
 - u RO/RO
- Rolling**
- Ronquils**
 - u Bathymasteridae
- Ropes**
- Rossby waves**
 - rt Waves
- Rotary seals**
 - sn Used from 1978 forward
- Rotating fluids**
 - sn Used from 1970 forward
- Rotifera**
 - sn Used from 1974 forward
 - sn Use Rotifers before 1972
 - rt Aschelminthes
- Roundworms**
 - u Nematoda
- Royal Navy**
 - sn Used from 1970 forward
- Rubber**
- Rubble mounds**
- Rubidium**
- Rubidium compounds**
 - sn Used from 1980 forward
- Rudders**
- Runoff**
- Ruthenium**
- Ruthenium compounds**
 - sn Used from 1980 forward
- Rutile**
- Sablefish**
 - sn Used only before mid-1980
 - sn Use plural before 1973
 - u Anoplopomatidae
- Safety**
 - sn Use compound terms below
 - sn Used before 1968
- Safety devices**
- Safety regulations**
 - sn Used from 1972 forward
- Safety standards**
 - sn Used from 1972 forward
- Sailing vessels**
 - rt Vessels
- Saliferous clays**
 - rt Clay
- Saline water**
 - sn Used only before 1973
 - u Salt waters
- Saline wedges**
 - sn Used from 1970 forward
- Salinity**
 - uf Salinity measurements after 1972
 - rt Paleosalinity
 - rt Surface salinity
- Salinity anomalies**
- Salinity data**
 - rt STD
 - rt T-S data
- Salinity determination**
- Salinity distribution**
 - sn Used only before 1970
 - u Salinity and Distribution
- Salinity measurements**
 - sn Used only before 1973
 - u Salinity
- Salinity tolerance**
- Salinity variations**
- Salinity-temperature-depth**
 - u STD
- Salinometers**
- Salmon fisheries**
 - rt Fisheries
- Salmonid fish**
 - sn Used only before mid-1980
 - sn Use plural before 1973
 - u Salmonidae
- Salmonidae**
 - sn Used from mid-1980 forward
 - uf Chars after mid-1980
 - uf Whitefish
 - rt Osteichthyes
 - rt Trouts
 - rt Salmons
- Salmons**
 - sn Use singular 1969-72
 - rt Salmonidae
- Salps**
 - sn Used only before mid-1980
 - u Thaliacea
- Salt balance**
- Salt content**
- Salt domes**
 - rt Domes
 - rt Salt structures
- Salt exchange**
- Salt glands**
- Salt intrusion**
- Salt marshes**
 - rt Marshes
- Salt structures**
 - rt Salt domes
- Salt tolerance**
- Salt transport**
 - rt Transport
- Salt waters**
 - sn Used from 1973 forward
 - uf Saline water after 1972
 - rt Seawater
- Salts**
 - sn Used from 1973 forward
 - sn Use singular before 1973
 - rt Sea salts
- Salvage**
- Salvage devices**
- Samarium**
 - sn Used from 1977 forward
- Samarium compounds**
 - sn Used from 1980 forward
- Samplers**
 - sn Used only before 1973
- Samples**
 - sn Used only before 1971
 - u Compound terms. e.g.. Core samples
- Sampling**
 - sn Used only before 1973
 - sn Use compound terms below
- Sampling instruments**
 - sn Used from 1973 forward
 - rt Instruments
 - rt Measuring instruments
 - rt Monitoring instruments
- Sampling methods**
 - sn Used from 1973 forward
 - rt Measuring methods
 - rt Monitoring methods
- Sampling systems**
 - sn Used from 1974 forward
 - rt Monitoring systems
- Sand bars**
 - sn Used from 1971 forward
- Sand beaches**
 - rt Beaches
- Sand columns**
- Sand coring**
- Sand deposits**
 - rt Deposits
- Sand dollars**

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- sn Used only before mid-1980
- u Echinoidea
- Sand drift**
- Sand dunes**
 - rt Dunes
- Sand eels**
 - u Ammodytidae
- Sand fauna**
 - sn Used only before 1971
- Sand fences**
 - sn Used from 1970 forward
- Sand fill**
 - sn Used from 1972 forward
- Sand hoppers**
 - u Amphipoda
- Sand lances**
 - sn Used only before mid-1980
 - u Ammodytidae
- Sand organisms**
 - sn Used from 1973 forward
 - rt Fauna
 - rt Flora
- Sand particles**
 - sn Used from 1970 forward
- Sand reclamation**
- Sand ridges**
 - rt Ridges
- Sand ripples**
 - rt Ripples
- Sand smelts**
 - u Atherinidae
- Sand spits**
- Sand stargazers**
 - u Dactyloscopidae
- Sand tigers**
 - u Odontaspidae
- Sand tracers**
 - rt Tracers
- Sand transport**
- Sand waves**
 - rt Waves
- Sanddabs**
 - u Bothidae
- Sandfish**
 - u Trichodontidae
- Sands**
 - sn Used from 1973 forward
 - sn Use singular before 1973
 - rt Beach sands
 - rt Littoral sands
 - rt Mineral sands
- Sandstone**
 - rt Sedimentary rocks
- Sandworms**
 - u Polychaeta
- Sardines**
 - rt Clupeidae
- Satellite borne instrumentation**
 - sn Used from 1972 forward
- Satellite communications**
 - rt Communications
- Satellite data**
- Satellite geodesy**
 - rt Geodesy
- Satellite navigation**
 - rt Navigation
- Satellite observations**
- Satellite photography**
 - uf Space photography after 1971
 - rt Photography
- Satellites**
 - rt Geodetic satellites
 - rt Subsea satellites
 - rt Weather satellites
- Saturation diving**
 - rt Diving
- Sauries**
 - sn Used only before mid-1980
 - u Scomberesocidae
- Sawfish**
 - sn Used only before mid-1980
 - u Pristidae
- Scads**
 - sn Used only before mid-1980
 - u Carangidae
- Scaled blennies**
 - u Clinidae
- Scaleless black dragonfish**
 - u Melanostomiidae
- Scales**
- Scallops**
 - rt Mollusca
 - rt Pelecypoda
- Scaly dragonfish**
 - u Stomiidae
- Scandium**
- Scandium compounds**
 - sn Used from 1980 forward
- Scanners**
- Scanning**
- Scaphopoda**
 - sn Use Scaphopods in 1971
 - uf Tusk shells
 - rt Mollusca
- Scaridae**
 - sn Used from mid-1980 forward
 - uf Parrot fish after mid-1980
 - rt Osteichthyes
- Scarps**
 - sn Used from 1975 forward
- Scattering**
 - rt Light scattering
 - rt Microwave scattering
 - rt Sound scattering
 - rt Wave scattering
- Scattering theory**
 - sn Used from 1970 forward
- Scatterometry**
- Schists**
 - sn Used from 1970 forward
- Schooling**
 - sn Used only before 1972
 - u Fish schools
- Sciaenidae**
 - sn Used before 1973 and after mid-1980
 - uf Corbinas
 - uf Corvinas
 - uf Croakers after mid-1980
- uf Drums after mid-1980
- uf Surffish
- uf Whittings (California corbina)
- rt Osteichthyes
- Scomberesocidae**
 - sn Used from mid-1980 forward
 - uf Sauries after mid-1980
 - rt Osteichthyes
- Scombridae**
 - sn Used from mid-1980 forward
 - uf Albacores after 1972
 - uf Black skipjack after mid-1980
 - uf Bonito after mid-1980
 - uf Skipjacks after 1971
 - uf Yellowfin after 1965
 - rt Mackerels
 - rt Osteichthyes
 - rt Tunas
- Scopelarchidae**
 - sn Used from mid-1980 forward
 - uf Pearleyes
 - rt Osteichthyes
- Scorpaenidae**
 - sn Used from mid-1980 forward
 - uf Redfishes after 1972
 - uf Rockfish after mid-1980
 - uf Scorpion fish after mid-1980
 - rt Osteichthyes
- Scorpion fish**
 - sn Used only before mid-1980
 - u Scorpaenidae
- Scouring**
- Scuba**
 - sn Use compound terms below
 - sn Used before 1971
- Scuba diving**
 - rt Diving
- Sculpins**
 - sn Used only before mid-1980
 - u Cottidae
- Scyliorhinidae**
 - sn Used from mid-1980 forward
 - uf Cat sharks
 - rt Chondrichthyes
 - rt Sharks
- Scyphozoa**
 - sn Used 1965 and 1974 forward
 - sn Use Scyphozoans 1968-72
 - uf Jellyfish
 - rt Cnidaria
- Scytalinidae**
 - sn Used from mid-1980 forward
 - uf Graveldivers
 - rt Osteichthyes
- Sea**
 - sn Use compound terms below
 - sn Used before 1978
 - sn See Geographic Term list for specific seas
- Sea anemones**
 - sn Used only before 1973
 - u Anthozoa
- Sea basses**
 - sn Used only before mid-1980

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- u Serranidae
- Sea breeams**
 - sn Used only before mid-1980
 - u Sparidae
- Sea breezes**
 - sn Use singular before 1967
- Sea catfish**
 - u Ariidae
- Sea cliffs**
 - rt Cliffs
- Sea clutter**
- Sea cows**
 - sn Used only before mid-1980
 - u Sirenia
- Sea cucumbers**
 - sn Used only before mid-1980
 - u Holothuroidea
- Sea floor**
 - sn Used only before 1976
 - sn See Seafloor entries below
- Sea forecasting**
 - sn Used from 1973 forward
- Sea grasses**
 - rt Grasses
 - rt Spermatophyta
 - rt Tracheophyta
- Sea hares**
 - sn Used only before mid-1980
 - u Gastropoda
- Sea horses**
 - sn Used only before mid-1980
 - u Syngnathidae
- Sea ice**
 - uf Pack-ice after 1972
 - rt Ice
- Sea levels**
 - sn Also use singular before 1972
- Sea lilies**
 - u Crinoidea
- Sea lions**
 - rt Mammalia
 - rt Pinnipedia
- Sea otters**
 - sn Used only before mid-1980
 - u Carnivora
- Sea pansies**
 - sn Used only before mid-1980
 - u Anthozoa
- Sea pens**
 - sn Used only before mid-1980
 - u Anthozoa
- Sea power**
- Sea salts**
 - rt Salts
- Sea snakes**
 - u Reptilia
- Sea spiders**
 - sn Used only before mid-1980
 - u Pycnogonida
- Sea sprays**
- Sea state**
 - sn Used before 1971 and after 1979
- Sea stations**
 - rt Stations
- Sea surface**
 - sn Used only before 1973
 - u Surface waters
- Sea surface roughness**
 - sn Used only before 1972
 - u Surface roughness
- Sea surface temperatures**
 - sn Used only before 1973
 - u Surface temperatures
- Sea swells**
 - sn Used from 1974 forward
 - rt Swells
- Sea urchins**
 - sn Used only before mid-1980
 - u Echinoidea
- Sea walls**
 - sn Use Seawalls 1975-77
 - rt Walls
- Sea whips**
 - u Anthozoa
- Seabed**
 - rt Ocean bottom
 - rt Ocean floor
- Seabed drifters**
- Seabed recorders**
- Seabed resources**
 - rt Resources
- Seabed vehicles**
 - rt Vehicles
- Seadevils**
 - u Ceratiidae
- Seafloor spreading**
 - sn Used from 1976 forward
 - sn Use Sea floor spreading before 1976
 - uf Ocean floor spreading after 1972
- Seafood industry**
 - rt Industries
- Seafoods**
 - rt Shellfish
- Seakeeping**
 - sn Used from 1970 forward
- Sealab**
 - sn Used only before 1970
 - sn Underwater habitat names no longer controlled terms
- Sealing**
 - sn Used from 1970 forward
- Seals**
 - uf Fur seals after 1972
 - rt Mammalia
 - rt Pinnipedia
- Seamanship**
- Seamounts**
 - uf Cobb Seamount after 1972
 - rt Guyots
- Seaperch**
 - u Embiotocidae
- Seaquakes**
- Search vehicles**
 - rt Vehicles
- Searches**
 - sn Used only before 1968
- Searobins**
 - u Triglidae
- Seasonal**
 - sn Use compound terms below
 - sn Used before 1967
- Seasonal cycles**
- Seasonal variations**
 - sn Use with period for full set
- Seawater**
 - rt Salt waters
- Seawater analysis**
- Seawater chemistry**
 - rt Chemistry
- Seawater injection**
 - sn Used from 1975 forward
 - rt Water injection
- Seawater temperatures**
 - sn Also use singular before 1977
 - rt Temperature
- Seaways**
 - sn Used from 1971 forward
- Seaweeds**
 - sn Also use singular before 1966
 - rt Algae
 - rt Artificial seaweeds
 - rt Chlorophyta
 - rt Cyanophyta
 - rt Phaeophyta
 - rt Rhodophyta
- Secchi disc**
- Secondary production**
 - sn Used from 1973 forward
 - rt Production
- Secretion**
 - sn Used from 1973 forward
 - sn Use plural before 1973
 - rt Neurosecretion
- Secretory cells**
 - rt Cells
- Sediment accretion**
 - rt Accretion
- Sediment concentrations**
 - sn Used from 1970 forward
- Sediment cores**
 - rt Cores
- Sediment distribution**
 - sn Used only before 1976
- Sediment entrainment**
- Sediment facies**
 - rt Facies
- Sediment mineralogy**
 - rt Mineralogy
- Sediment patterns**
- Sediment samples**
 - sn Used only before 1973
- Sediment sampling**
 - sn Used only before 1973
- Sediment shear waves**
 - sn Used from 1970 forward
 - rt Waves
- Sediment size**
- Sediment sources**
- Sediment structures**
 - sn Used from 1970 forward
- Sediment substrates**
 - sn Used from 1974 forward

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- rt Substrates
- Sediment texture**
 - rt Textures
- Sediment transport**
 - rt Transport
- Sediment traps**
 - rt Traps
- Sediment wedges**
- Sedimentary basins**
 - rt Basins
- Sedimentary cycles**
- Sedimentary deposits**
 - rt Deposits
- Sedimentary detritus**
- Sedimentary fill**
- Sedimentary rocks**
 - rt Limestone
 - rt Rocks
 - rt Sandstone
- Sedimentation**
 - rt Separation processes
- Sedimentation rates**
- Sedimentological tracers**
 - sn Used from 1975 forward
 - rt Tracers
- Sedimentology**
- Sediments**
 - sn Also use singular before 1971
 - uf Bottom sediments after 1972
 - rt Beach sediments
 - rt Calcareous sediments
 - rt Carbonate sediments
 - rt Deep-sea sediments
 - rt Eolian sediments
 - rt Flysch sediments
 - rt Glacial sediments
 - rt Littoral sediments
 - rt Pelagic sediments
 - rt Siliceous sediments
 - rt Suspended sediments
- Seed plants**
 - u Spermatophyta
- Segmented worms**
 - sn Used only before mid-1980
 - u Annelida
- Seiches**
- Seiners**
 - uf Purse seiners after 1972
- Seines**
 - uf Purse seines after 1972
- Seining**
 - sn Used from 1973 forward
- Seismic data**
- Seismic discontinuities**
 - sn Used from 1970 forward
- Seismic disturbances**
- Seismic energy**
- Seismic equipment**
 - rt Equipment
- Seismic exploration**
 - rt Exploration
- Seismic measurements**
- Seismic profilers**
 - rt Seismic reflection profilers
- Seismic profiling**
 - rt Profiling
- Seismic recorders**
- Seismic recording buoys**
 - rt Buoys
- Seismic records**
- Seismic reflection**
 - rt Reflection
- Seismic reflection data**
- Seismic reflection measurements**
- Seismic reflection profilers**
 - rt Seismic profilers
- Seismic reflection profiling**
 - rt Profiling
- Seismic refraction**
 - rt Refraction
- Seismic refraction measurements**
- Seismic refraction surveys**
 - rt Surveys
- Seismic regions**
- Seismic signals**
 - rt Signals
- Seismic sounding**
 - sn Used from 1974 forward
 - sn Use plural before 1973
 - rt Sounding
- Seismic streamers**
- Seismic surveys**
 - rt Surveys
- Seismic waves**
 - rt Waves
- Seismicity**
- Seismograms**
- Seismographs**
- Seismology**
- Seismometers**
- Selenium**
- Selenium compounds**
 - sn Used from 1980 forward
- Semisubmersible rigs**
 - rt Rigs
- Semisubmersibles**
- Sense organ pathologies**
 - sn Used from 1973 forward
- Sense organs**
 - sn Used from 1973 forward
 - uf Sensory organs after 1972
 - rt Ears
 - rt Eyes
- Sensors**
 - rt Image sensors
 - rt Infrared sensors
 - rt Optical sensors
 - rt Remote sensors
 - rt Towed sensors
 - rt Underwater sensors
- Sensory organs**
 - sn Used only before 1973
 - u Sense organs
- Sensory perception**
 - rt Baroreception
 - rt Chemoreception
 - rt Mechanoreception
 - rt Phonoreception
 - rt Photoreception
 - rt Thermoreception
- Sensory systems**
 - sn Used from 1973 forward
- Separation processes**
 - sn Used from 1973 forward
 - rt Centrifugation
 - rt Coagulation
 - rt Filtration
 - rt Sedimentation
- Serial data**
 - sn Used only before 1968
- Serology**
 - rt Serum chemistry
- Serranidae**
 - sn Used from mid-1980 forward
 - uf Groupers after mid-1980
 - uf Sea basses after mid-1980
 - rt Osteichthyes
- Serum**
- Serum chemistry**
 - sn Used from 1973 forward
 - rt Serology
- Serum proteins**
 - sn Used only before 1973
- Sessile organisms**
 - sn Used from 1973 forward
 - rt Benthic organisms
 - rt Fauna
 - rt Flora
- Seston**
 - rt Plankton
 - rt Tripton
- Setae**
- Settlement**
- Settling rates**
 - sn Used from 1970 forward
- Sewage**
- Sewage discharge**
 - sn Used only before 1973
- Sewage disposal**
- Sewage treatment**
 - sn Used from 1973 forward
- Sex**
- Sex ratio**
- Sextants**
- Sexual cycles**
- Sexual differentiation**
- Sexual dimorphism**
 - rt Dimorphism
- Sexual maturity**
 - rt Maturation
- Sexual reproduction**
 - rt Birth
 - rt Gestation
 - rt Reproduction
 - rt Spawning
- Sexuality**
- Shads**
 - sn Used only before mid-1980
 - u Clupeidae
- Shafts**
 - rt Propeller shafts
- Shallow water caissons**

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- sn Used from 1977 forward
- rt Caissons
- Shallow water deposits**
- sn Used from 1971 forward
- rt Deposits
- Shallow water equations**
- Shallow waters**
- sn Also use singular before 1973
- Shark attacks**
- Shark suckers**
- u Echeneidae
- Sharks**
- rt Alopiidae
- rt Carcharhinidae
- rt Chlamydoselachidae
- rt Chondrichthyes
- rt Heterodontidae
- rt Hexanchidae
- rt Lamnidae
- rt Odontaspidae
- rt Orectolobidae
- rt Rhincodontidae
- rt Scyliorhinidae
- rt Sphyrnidae
- rt Squalidae
- rt Squatinidae
- Shear flow**
- Shear strength**
- Shear stress**
- rt Stress
- Shear velocity**
- rt Velocity
- Shearwaters**
- u Aves
- Shell design**
- rt Design
- Shell morphology**
- Shellfish**
- sn Also use plural before 1970
- rt Seafoods
- Shellfish fisheries**
- rt Fisheries
- Shells**
- rt Cylindrical shells
- rt Spherical shells
- Ship communications**
- sn Used from 1973 forward
- rt Communications
- Ship control**
- Ship conversion**
- Ship design**
- sn Use with period for full set
- rt Design
- Ship dynamics**
- Ship grounding**
- sn Used from 1972 forward
- Ship handling**
- Ship hulls**
- rt Hulls
- Ship maneuverability**
- Ship motion**
- Ship operations**
- Ship performance**
- Ship propulsion**
- rt Propulsion
- Ship repairs**
- sn Used from 1970 forward
- sn Use singular before 1970
- rt Repairs
- Ship resistance**
- rt Resistance
- Ship response**
- Ship routing**
- Ship seizures**
- sn Used from 1973 forward
- Ship slamming**
- rt Slamming
- Ship speed**
- Ship stabilization**
- rt Stabilization
- Ship steering**
- rt Steering
- Ship tanks**
- rt Tanks
- Ship tracking**
- sn Used from 1971 forward
- Ship transport**
- sn Used from 1973 forward
- rt Transport
- Ship vibration**
- rt Vibration
- Ship waves**
- rt Waves
- Shipboard**
- sn Use compound terms below
- sn Used before 1974
- Shipboard computers**
- rt Computers
- Shipboard equipment**
- sn Use with period for full set
- rt Equipment
- Shipboard measurements**
- Shipbuilders**
- sn Used from 1973 forward
- Shipbuilding**
- Shiploaders**
- sn Used from 1974 forward
- Shipping**
- Shipping industry**
- rt Industries
- Shipping regulations**
- Shipping terminals**
- rt Terminals
- Ships**
- rt Cableships
- rt Container ships
- rt Factory ships
- rt Freighters
- rt Lightships
- rt Merchant ships
- rt Moored ships
- rt Nuclear powered ships
- rt Refinery ships
- rt Sunken ships
- rt Surface ships
- rt Survey ships
- rt Tank ships
- rt Transport ships
- rt Vessels
- rt Warships
- rt Weather ships
- Shipworms**
- sn Used only before 1973
- u Clams
- Shipwrecks**
- Shipyards**
- Shoal spotting**
- Shoaling**
- Shoals**
- sn Used from 1973 forward
- rt Fish shoaling
- Shock phenomena**
- sn Used from 1980 forward
- Shock pressure**
- sn Also use plural in 1970
- Shock waves**
- sn Also use shockwaves before 1968
- rt Waves
- Shore displacement**
- sn Used from 1973 forward
- Shore ice**
- rt Ice
- Shore protection**
- Shorelines**
- sn Used only before 1978
- sn Use singular before 1966
- u Shores
- Shores**
- uf Shorelines after 1977
- rt Rocky shores
- Shrimp fisheries**
- rt Fisheries
- Shrimp industries**
- sn Used only before 1973
- Shrimps**
- sn Also use singular before 1973
- rt Crustacea
- rt Decapoda
- rt Malacostraca
- Side scan sonar**
- rt Sonar
- Sighting data**
- Sigma-t data**
- Signal detection**
- Signal distortion**
- Signal fluctuations**
- sn Used from 1970 forward
- Signal generators**
- rt Generators
- Signal processing**
- Signal reflection**
- rt Reflection
- Signals**
- rt Acoustic signals
- rt Pulse signals
- rt Seismic signals
- rt Sonic signals
- rt Underwater signals
- Silica**
- Silica concentrations**
- sn Used from 1971 forward
- Silica uptake**

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- silica uptake**
 - sn Used from 1974 forward
- silicates**
- siliceous sediments**
 - sn Used from 1974 forward
 - rt Sediments
- silicoflagellates**
 - sn Used only before 1973
 - u Chrysophyta
- silicon**
- silicon compounds**
 - sn Used from 1974 forward
- sills**
- silt**
- siltation**
- silurian**
 - sn Used from 1976 forward
- silver**
- silver bellies**
 - u Gerreidae
- silver compounds**
 - sn Used from 1972 forward
- silversides**
 - sn Used only before mid-1980
 - u Atherinidae
- simulation**
 - rt Computer simulation
 - rt Underwater simulation
- simulators**
 - rt Tide simulators
- single buoy mooring**
 - sn Also use plural in 1970 and 1975
 - rt Mooring
- sinking**
- siphonophores**
 - sn Used only before 1973
 - u Hydrozoa
- sipunculida**
 - sn Used from 1973 forward
 - sn Use Sipunculids before 1973
 - uf Peanut worms
- Sirenia**
 - uf Dugongs
 - uf Manatees
 - uf Sea cows
 - rt Mammalia
- Site selection**
- Size**
 - sn Use compound terms below
 - sn Used before 1970
- Size composition**
- Size distribution**
 - sn Used only before 1972
- Size structures**
 - sn Used from 1973 forward
- Size variations**
- Size-length relationships**
 - sn Used from 1973 forward
- Size-weight relationships**
 - sn Used from 1974 forward
- Skates**
 - sn Used only before mid-1980
 - u Rajidae
- Skeletal pathologies**
 - sn Used from 1975 forward
- Skeletal structure**
 - sn Used only before 1973
 - u Skeletons
- Skeletal systems**
 - sn Used from 1973 forward
- Skeletons**
 - sn Also use singular before 1968
 - uf Skeletal structure after 1972
 - rt Endoskeletons
 - rt Exoskeletons
- Skilfish**
 - u Anoplopomatidae
- Skin diving**
 - rt Diving
- Skin friction**
 - rt Friction
- Skin pigments**
 - sn Used from 1973 forward
 - rt Pigments
- Skins**
 - sn Used from 1973 forward
 - sn Use singular before 1973
- Skipjack**
 - sn Used only before 1972
 - u Scombridae
- Skulls**
- Slamming**
 - rt Ship slamming
- Sleep**
 - sn Used from 1973 forward
- Sleepers**
 - u Eleotridae
- Slimes**
- Slopes**
 - sn Also use singular before 1967
 - rt Continental slopes
- Sludge dumping**
- Sludges**
 - sn Used from 1973 forward
 - sn Use singular before 1973
- Slugs**
 - sn Used only before mid-1980
 - u Gastropoda
- Slumping**
- Slurry**
 - sn Used from 1970 forward
- Smelts**
 - sn Used only before mid-1980
 - u Osmeridae
- Snailfish**
 - u Cyclopteridae
- Snails**
 - sn Used only before mid-1980
 - u Gastropoda
- Snake eels**
 - u Ophichthidae
- Snake mackerels**
 - u Gempylidae
- Snappers**
 - sn Used only before mid-1980
 - u Lutjanidae
- Snipe eels**
 - u Nemichthyidae
- Snipefish**
 - u Centriscidae
- Snooks**
 - u Centropomidae
- Soapfish**
 - u Grammistidae
- Sodium**
- Sodium balance**
- Sodium compounds**
 - sn Used from 1973 forward
- SOFAR**
 - uf Sound fixing and ranging
- Soil conditions**
- Soil mechanics**
- Soil properties**
- Solar activities**
 - sn Used from 1973 forward
 - sn Use singular before 1973
- Solar cells**
- Solar distillation**
 - rt Distillation
- Solar energy**
 - rt Power sources
- Solar evaporation**
 - rt Evaporation
- Solar radiation**
 - rt Radiation
- Solar stills**
- Soldierfish**
 - u Holocentridae
- Soleidae**
 - sn Used from mid-1980 forward
 - uf Soles after mid-1980
 - rt Osteichthyes
- Solenogasters**
 - u Aplacophora
- Soles**
 - sn Used only before mid-1980
 - u Soleidae
- Solid propellants**
- Solitary waves**
 - sn Used only before 1972
 - u Waves
- Solubility**
- Sonar**
 - rt Doppler sonar
 - rt Passive sonar
 - rt Side scan sonar
- Sonar arrays**
 - rt Arrays
 - rt Hydrophone arrays
- Sonar domes**
 - rt Domes
- Sonar systems**
- Sonar targets**
- Sondes**
 - rt Radiosondes
- Sonic signals**
 - sn Not biological
 - rt Signals
- Sonobuoys**
 - rt Buoys
- Sonograms**
- Sonography**
 - sn Used from 1976 forward

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- Sorbents**
sn Used from 1970 forward
- Sorption**
- Sound**
sn Use compound terms below
sn Used before 1970
- Sound absorption**
sn Used from 1973 forward
rt Absorption
- Sound attenuation**
uf Acoustic attenuation after 1972
rt Attenuation
- Sound channels**
sn Also use singular before 1968
rt Channels
- Sound fields**
uf Acoustic fields after 1971
- Sound fixing and ranging**
u SOFAR
- Sound generators**
rt Generators
- Sound intensity**
sn Used from 1973 forward
- Sound pressure**
sn Used from 1973 forward
- Sound production**
- Sound profiles**
uf Acoustic profiles after 1972
- Sound propagation**
- Sound pulses**
- Sound rays**
sn Used from 1973 forward
- Sound reflection**
rt Reflection
- Sound refraction**
sn Used from 1974 forward
rt Refraction
- Sound scattering**
uf Acoustic scattering after 1972
rt Scattering
- Sound sources**
- Sound spectra**
sn Used from 1973 forward
uf Acoustic spectra
- Sound speed**
- Sound transmission**
rt Transmissions
- Sound velocity**
rt Velocity
- Sound waves**
uf Acoustic waves after 1972
rt Waves
- Sounding**
rt Echo sounding
rt Seismic sounding
- Sounds**
rt Underwater sounds
- Sovereignty**
- Soviet Navy**
sn Used from 1970 forward
- Space photography**
sn Used only before 1972
u Satellite photography
- Spacecrafts**
sn Also use singular before 1969
- Spadefish**
u Ehippidae
- Spaghetti eels**
u Moringuidae
- Spar buoys**
rt Buoys
- Sparidae**
sn Used from mid-1980 forward
uf Porgies after mid-1980
uf Sea breams after mid-1980
rt Osteichthyes
- Sparkers**
- Spatial discrimination**
sn Used from 1974 forward
- Spatial distribution**
sn Used from 1970 forward
rt Distribution
- Spatial structure**
sn Used from 1972 forward
- Spawning**
uf Spawning grounds after 1971
uf Spawning inducement after 1972
uf Spawning season after 1972
rt Breeding
rt Mating
rt Reproduction
rt Sexual reproduction
- Spawning grounds**
sn Used only before 1972
u Spawning
- Spawning inducement**
sn Used only before 1973
u Spawning
- Spawning populations**
- Spawning season**
sn Used only before 1973
u Spawning
- Speciation**
- Species composition**
sn Used before 1970 and after 1979
- Species diversity**
- Species list**
sn Used before 1973 and after 1979
- Spectral attenuation**
sn Used from 1975 forward
rt Attenuation
- Spectral density**
rt Density
- Spectral luminance measurements**
sn Used from 1972 forward
- Spectral reflectance**
sn Used from 1970 forward
- Spectral sensitivity**
- Spectrometry**
sn Used from 1973 forward
rt Gamma ray spectrometry
rt Mass spectrometry
- Spectrophotometers**
sn Used before 1973 and after 1979
- Spectrophotometry**
- Spectroscopy**
rt Absorption spectroscopy
rt Atomic absorption spectroscopy
rt Emission spectroscopy
rt In situ spectroscopy
rt Infrared spectroscopy
rt Mass spectroscopy
rt Molecular spectroscopy
rt Nuclear radiation spectroscopy
rt Radiofrequency spectroscopy
rt Ultraviolet spectroscopy
rt X-ray spectroscopy
- Spectrum**
sn Used only before 1967
- Speech intelligibility**
- Speedometers**
- Sperm**
uf Spermatozoa after 1972
rt Gametes
- Spermatogenesis**
rt Gametogenesis
rt Oogenesis
- Spermatophyta**
sn Used from 1973 forward
uf Seed plants
rt Grasses
rt Mangroves
rt Marsh plants
rt Sea grasses
rt Tracheophyta
- Spermatozoa**
sn Used only before 1973
u Sperm
- Spheres**
rt Submerged spheres
- Spherical hulls**
rt Hulls
- Spherical shells**
rt Shells
- Spheroids**
- Sphingolipids**
sn Used from 1976 forward
uf Cerebrosides after mid-1980
uf Gangliosides
uf Sphingomyelins
- Sphingomyelins**
u Sphingolipids
- Sphyraenidae**
sn Used from mid-1980 forward
uf Barracudas after mid-1980
rt Osteichthyes
- Sphyrnidae**
sn Used from mid-1980 forward
uf Hammerhead sharks
rt Chondrichthyes
rt Sharks
- Spicules**
- Spiders**
u Arachnida
- Spikefish**
u Triacanthodidae
- Spinal cords**
sn Used from 1973 forward
- Spiny eels**
u Notacanthidae
- Spiny-headed worms**
u Acanthocephala

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- Spoilage**
- Sponges**
sn Used only before mid-1980
u Porifera
- Spookfish**
u Opisthoproctidae
- Spore formation**
sn Used from 1973 forward
- Spores**
- Sporophytes**
sn Used from 1973 forward
rt Alternation of generations
rt Gametophytes
- Sporozoa**
sn Used only before mid-1980
u Protozoa
- Sport fisheries**
rt Fisheries
- Sport fishing**
rt Fishing
rt Recreation
- Sprats**
sn Used only before mid-1980
u Clupeidae
- Spring**
- Spuds**
sn Used from 1975 forward
- Spurs**
sn Used from 1976 forward
- Squalidae**
sn Used from mid-1980 forward
uf Dogfish sharks
rt Chondrichthyes
rt Sharks
- Squatinidae**
sn Used from mid-1980 forward
uf Angel sharks
rt Chondrichthyes
rt Sharks
- Squids**
sn Also use singular before 1966
rt Cephalopoda
rt Mollusca
- Squirrelfish**
u Holocentridae
- Stability**
sn Used only before 1967
- Stabilization**
rt Roll stabilization
rt Ship stabilization
rt Submarine stabilization
- Stabilizers**
- Stagnation**
- Stainless steel**
rt Steel
- Stainless steel alloys**
rt Alloys
- Standing crops**
sn Also use singular before 1973
- Standing stock**
rt Stocks
- Starfish**
sn Used only before mid-1980
sn Also use plural before 1973
- u Asteroidea
- Stargazers**
u Uranoscopidae
- Starvation**
- State agencies**
sn Used from 1973 forward
rt Federal agencies
rt Government agencies
- State of the art**
sn Used before 1970 and after 1979
- State policies**
rt Federal policies
rt Government policies
- State programs**
sn Used from 1973 forward
rt Federal programs
rt Government programs
- State regulations**
sn Used from 1973 forward
rt Federal regulations
rt Government regulations
rt Legislation
- Static loading**
rt Loading
- Station keeping**
- Stations**
rt Anchor stations
rt Drift stations
rt Mid-oceanic stations
rt Ocean data stations
rt Ocean stations
rt Sea stations
rt Weather stations
- Statistical analysis**
sn Use with period for full set
rt Mathematical analysis
rt Numerical analysis
- Statistics**
rt Catch statistics
rt Fish statistics
- Statocysts**
sn Used from 1973 forward
- STD**
uf Salinity-temperature-depth
rt Depth data
rt Salinity data
rt Temperature data
- Steam engines**
rt Engines
- Steam power**
sn Used from 1974 forward
rt Power sources
- Steam power plants**
sn Also use singular before 1971
rt Power plants
- Steam turbines**
rt Turbines
- Steel**
sn Use plural before 1971
rt Stainless steel
- Steel piles**
rt Piles
- Steering**
rt Ship steering
- Stenobaline**
rt Euryhaline
- Stereophotography**
rt Photography
- Sterilization**
- Sternoptrychidae**
sn Used from mid-1980 forward
uf Hatchetfish
rt Osteichthyes
- Steroids**
- Sterols**
- Stichaeidae**
sn Used from mid-1980 forward
uf Pricklebacks
rt Osteichthyes
- Sticklebacks**
sn Used only before mid-1980
u Gasterosteidae
- Stingers**
sn Used from 1977 forward
- Stinging corals**
u Hydrozoa
- Stingrays**
sn Used only before mid-1980
u Dasyatidae
- Stock assessment**
- Stock management**
rt Management
- Stock variations**
sn Used from 1970 forward
- Stocks**
sn Used from 1975 forward
sn Use singular before 1971
rt Fish stocks
rt Standing stock
- Stomach content**
sn Used only before 1968
u Diet
- Stomachs**
sn Also use singular before 1968
- Stomatopoda**
uf Mantis shrimps after 1971
rt Crustacea
rt Malacostraca
- Stomiidae**
sn Used from mid-1980 forward
uf Scaly dragonfish
rt Osteichthyes
- Storage**
rt Fish storage
rt Heat storage
rt Liquid storage
rt Oil storage
- Storage tanks**
rt Tanks
- Storm damages**
- Storm prediction**
sn Used from 1970 forward
- Storm surges**
rt Surges
- Storms**
rt Tropical storms
- Stowage**
- Straits**

Controlled Vocabulary

- sn See Geographic Term list for specific straits
- Stranded animals**
sn Used from 1973 forward
rt Animals
- Strata**
- Stratification**
- Stratified fluids**
- Stratified flux**
sn Used from 1972 forward
- Stratigraphy**
rt Biostratigraphy
rt Paleomagnetic stratigraphy
- Straw**
sn Used from 1970 forward
- Stress**
sn Also use plural before 1974
rt Radiation stress
rt Reynolds stress
rt Shear stress
rt Wind stress
- Stress coefficients**
sn Used from 1975 forward
- Stress computations**
sn Used from 1972 forward
- Stress concentrations**
sn Used from 1972 forward
- Stress corrosion**
rt Corrosion
- Stress fields**
sn Used from 1972 forward
- Stromateidae**
sn Used from mid-1980 forward
uf Butterfish after mid-1980
rt Osteichthyes
- Strontium**
- Strontium compounds**
sn Used from 1975 forward
- Strontium-90**
sn Used only before 1973
- Structural geology**
sn Used only before 1972
u Geology
- Structures**
sn Used only before 1968
sn Also use singular before 1968
u Compound terms, e.g., Geologic structures
- Sturgeons**
sn Used only before mid-1980
u Acipenseridae
- STUs**
sn Used only before 1970
sn Used for Submersible Test Units
- Stylephoridae**
sn Used from mid-1980 forward
uf Tube-eyes
rt Osteichthyes
- Subbottom profiles**
- Subbottom profiling**
rt Profiling
- Subbottom reflectors**
- Sublittoral fauna**
sn Used from 1973 forward
- rt Fauna
- Sublittoral flora**
sn Used from 1975 forward
rt Flora
- Sublittoral organisms**
sn Used from 1974 forward
- Sublittoral zones**
sn Used from 1970 forward
rt Eulittoral zones
rt Littoral zones
- Submarine canyons**
sn See Geographic Term list for specific names
uf Canyons after mid-1980
- Submarine hulls**
rt Hulls
- Submarine plateaus**
sn Used from 1970 forward
rt Plateaus
- Submarine recovery**
sn Used from 1970 forward
- Submarine stabilization**
sn Used from 1976 forward
rt Stabilization
- Submarine tracking**
sn Used from 1975 forward
- Submarine trenches**
rt Trenches
- Submarine troughs**
sn Used from 1975 forward
rt Troughs
- Submarine volcanism**
rt Volcanism
- Submariners**
- Submarines**
rt Undersea warfare
- Submerged lands**
- Submerged shorelines**
- Submerged spheres**
rt Spheres
- Submergence**
- Submersibles**
uf Diving saucers after 1972
uf Underwater vehicles after 1977
rt Manned submersibles
- Submersibles handling**
sn Used from 1970 forward
- Subsea operations**
sn Used from 1970 forward
- Subsea satellites**
sn Used from 1972 forward
rt Satellites
- Subsea wellheads**
sn Used from 1972 forward
rt Wellheads
- Subsea wells**
rt Wells
- Substrates**
sn Also use singular before 1977
rt Sediment substrates
- Subsurface**
sn Use compound terms below
sn Used before 1971
- Subsurface waves**
sn Used from 1970 forward
rt Waves
- Succession**
sn Used before 1968 and after 1979
- Suckers**
u Echeneidae
- Suctoria**
u Protozoa
- Sulfates**
- Sulfur**
- Sulfur bacteria**
sn Used only before mid-1980
u Bacteria
- Sulfur compounds**
uf Hydrogen sulfide after 1972
- Sulfur cycles**
sn Also use singular before 1972
- Summer**
- Sunken ships**
rt Ships
- Supercavitating hydrofoils**
rt Hydrofoils
- Supercavitating propellers**
rt Propellers
- Supertankers**
rt Tankers
- Supply boats**
- Supply operations**
sn Used from 1970 forward
- Surface**
sn Use compound terms below
sn Used before 1968
- Surface currents**
sn Used only before 1972
- Surface data**
sn Used from 1973 forward
- Surface ducts**
rt Ducts
- Surface effect vehicles**
rt Vehicles
- Surface layers**
- Surface motion**
- Surface profiles**
sn Used from 1974 forward
- Surface reflection**
rt Reflection
- Surface roughness**
uf Sea surface roughness after 1971
- Surface salinity**
rt Salinity
- Surface ships**
rt Ships
- Surface temperatures**
sn Also use singular before 1977
uf Sea surface temperatures after 1972
rt Temperature
- Surface waters**
sn Also use singular before 1975
uf Sea surface after 1972
- Surface waves**
rt Waves
- Surface winds**
rt Winds

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- Spoilage**
- Sponges**
sn Used only before mid-1980
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sn Used from 1970 forward
rt Eulittoral zones
rt Littoral zones
- Submarine canyons**
sn See Geographic Term list for specific names
uf Canyons after mid-1980
- Submarine hulls**
rt Hulls
- Submarine plateaus**
sn Used from 1970 forward
rt Plateaus
- Submarine recovery**
sn Used from 1970 forward
- Submarine stabilization**
sn Used from 1976 forward
rt Stabilization
- Submarine tracking**
sn Used from 1975 forward
- Submarine trenches**
rt Trenches
- Submarine troughs**
sn Used from 1975 forward
rt Troughs
- Submarine volcanism**
rt Volcanism
- Submariners**
- Submarines**
rt Undersea warfare
- Submerged lands**
- Submerged shorelines**
- Submerged spheres**
rt Spheres
- Submergence**
- Submersibles**
uf Diving saucers after 1972
uf Underwater vehicles after 1977
rt Manned submersibles
- Submersibles handling**
sn Used from 1970 forward
- Subsea operations**
sn Used from 1970 forward
- Subsea satellites**
sn Used from 1972 forward
rt Satellites
- Subsea wellheads**
sn Used from 1972 forward
rt Wellheads
- Subsea wells**
rt Wells
- Substrates**
sn Also use singular before 1977
rt Sediment substrates
- Subsurface**
sn Use compound terms below
sn Used before 1971
- Subsurface waters**
- Subsurface waves**
sn Used from 1970 forward
rt Waves
- Succession**
sn Used before 1968 and after 1979
- Suckers**
u Echeneidae
- Suctoria**
u Protozoa
- Sulfates**
- Sulfur**
- Sulfur bacteria**
sn Used only before mid-1980
u Bacteria
- Sulfur compounds**
uf Hydrogen sulfide after 1972
- Sulfur cycles**
sn Also use singular before 1972
- Summer**
- Sunken ships**
rt Ships
- Supercavitating hydrofoils**
rt Hydrofoils
- Supercavitating propellers**
rt Propellers
- Supertankers**
rt Tankers
- Supply boats**
- Supply operations**
sn Used from 1970 forward
- Surface**
sn Use compound terms below
sn Used before 1968
- Surface currents**
sn Used only before 1972
- Surface data**
sn Used from 1973 forward
- Surface ducts**
rt Ducts
- Surface effect vehicles**
rt Vehicles
- Surface layers**
- Surface motion**
- Surface profiles**
sn Used from 1974 forward
- Surface reflection**
rt Reflection
- Surface roughness**
uf Sea surface roughness after 1971
- Surface salinity**
rt Salinity
- Surface ships**
rt Ships
- Surface temperatures**
sn Also use singular before 1977
uf Sea surface temperatures after 1972
rt Temperature
- Surface waters**
sn Also use singular before 1975
uf Sea surface after 1972
- Surface waves**
rt Waves
- Surface winds**
rt Winds

Controlled Vocabulary

- Surfactants**
Surffish
u Sciaenidae
- Surfperch**
sn Used only before mid-1980
sn Also use plural before 1971
u Embiotocidae
- Surgeonfish**
sn Used only before mid-1980
u Acanthuridae
- Surgery**
- Surges**
rt Storm surges
- Surveillance**
rt Environmental surveillance
- Survey equipment**
rt Equipment
- Survey ships**
rt Ships
- Surveying**
rt Ocean surveying
- Surveys**
sn Also use singular before 1970
rt Acoustic surveys
rt Aerial surveys
rt Aeromagnetic surveys
rt Bathymetric surveys
rt Benthic surveys
rt Bottom surveys
rt Echo surveys
rt Geologic surveys
rt Geomagnetic surveys
rt Geophysical surveys
rt Geothermal surveys
rt Gravity surveys
rt Hydrographic surveys
rt Inshore oceanographic surveys
rt Magnetic surveys
rt Oceanographic surveys
rt Plankton surveys
rt Seismic refraction surveys
rt Seismic surveys
rt Terrestrial surveys
rt Underwater surveys
- Survival**
rt Mortality
- Survival capsules**
sn Used from 1970 forward
- Survival equipment**
sn Used from 1970 forward
rt Equipment
- Suspended matter**
- Suspended particles**
- Suspended sediments**
rt Sediments
- Swamps**
sn Used from 1972 forward
rt Wetlands
- Swarming**
- Swash**
- Swash zone**
- Sweepers**
u Pempheridae
- Swell waves**
rt Waves
- Swells**
sn Also use singular before 1972
rt Sea swells
- Swim bladders**
sn Used from 1972 forward
sn Use Swimbladders before 1972
- Swimming**
- Swordfish**
sn Used only before mid-1980
sn Also use plural before 1973
u Xiphiidae
- Symbionts**
sn Used from 1973 forward
- Symbiosis**
rt Associations
- Symmetry**
rt Asymmetry
- Synapses**
sn Used from 1973 forward
- Synergism**
sn Used from 1974 forward
- Syngnathidae**
sn Used from mid-1980 forward
uf Pipefish after mid-1980
uf Sea horses after mid-1980
rt Osteichthyes
- Synodontidae**
sn Used from mid-1980 forward
uf Lizard fish after mid-1980
rt Osteichthyes
- Synonymy**
sn Also use variant spelling Synonymy before 1977
- Synoptic data**
- Systems**
sn Used only before 1967
u Compound terms, e.g. Sampling systems
- Systems analysis**
sn Used from 1973 forward
- T waves**
rt Waves
- T-phase**
- T-S data**
rt Salinity data
rt Temperature data
- T-S diagrams**
sn Used only before 1969
- Tactile sense**
- Tagging**
rt Tracking instrumentation
- Tags**
rt Fish tags
- Tanaidacea**
rt Crustacea
rt Malacostraca
- Tangs**
u Acanthuridae
- Tank ships**
sn Used from 1972 forward
rt Ships
- Tanker conversion**
- Tanker terminals**
rt Terminals
- Tankers**
rt Oil tankers
rt Supertankers
- Tanks**
rt Cargo tanks
rt Ship tanks
rt Storage tanks
- Tantalum**
- Tantalum compounds**
sn Used from 1980 forward
- Tapes**
- Tapeworms**
u Cestoda
- Tar**
- Tardigrada**
sn Used from 1973 forward
sn Use Tardigrades before 1973
uf Water bears after mid-1980
rt Arthropoda
- Tariff rates**
sn Used from 1970 forward
- Tarpons**
sn Used only before mid-1980
u Elopidae
- Taste**
sn Used from 1973 forward
- Taxis**
rt Orienting behavior
- Taxonomy**
uf Classification after 1967
- Technetium**
sn Used from 1975 forward
- Technetium compounds**
sn Used from 1980 forward
- Technology**
sn Used only before 1968
u Marine technology
- Tectonics**
sn Use with period for full set
rt Plate tectonics
- Teeth**
- Telecommunications**
rt Bandwidths
rt Communications
- Telemetry**
uf Acoustic telemetry after 1971
rt Biotelemetry
rt Radio telemetry
- Telemetry instrumentation**
sn Used from 1974 forward
- Teleosts**
sn Use Teleostei in 1965
sn The bony fishes proper
- Telephone cables**
rt Cables
- Telephones**
- Telephony**
- Television**
- Tellurium**
sn Used from 1980 forward
- Tellurium compounds**
sn Used from 1980 forward
- Temperate basses**

Controlled Vocabulary

- u Percichthyidae
- Temperature**
 - sn Also use plural before 1973
 - rt Air temperatures
 - rt Air-water temperatures
 - rt Atmospheric temperatures
 - rt Body temperatures
 - rt Paleotemperatures
 - rt Seawater temperatures
 - rt Surface temperatures
- Temperature anomalies**
- Temperature data**
 - rt STD
 - rt T-S data
- Temperature distribution**
 - sn Used only before 1976
- Temperature effects**
 - sn Used only before 1972
 - u Temperature responses
- Temperature fields**
- Temperature fluctuations**
 - sn Used only before 1973
 - u Temperature variations
- Temperature gradients**
- Temperature inversions**
 - rt Inversions
- Temperature measurements**
 - sn Used only before 1976
- Temperature predictions**
- Temperature profiles**
- Temperature responses**
 - uf Temperature effects after 1971
- Temperature tolerance**
 - sn Also use plural before 1973
- Temperature variations**
 - sn Also use singular before 1968
 - uf Temperature fluctuations after 1972
- Temporal variations**
 - uf Monthly variations after 1967
- Tentacles**
- Tephra**
- Terbium**
 - sn Used from 1977 forward
- Terbium compounds**
 - sn Used from 1980 forward
- Terminals**
 - rt Oil terminals
 - rt Ore terminals
 - rt Shipping terminals
 - rt Tanker terminals
- Terns**
 - sn Used only before mid-1980
 - u Aves
- Terraces**
 - rt Continental terraces
 - rt Rock terraces
- Terrestrial surveys**
 - rt Surveys
- Territorial waters**
- Tertiary**
 - uf Eocene after 1972
 - uf Miocene after 1972
 - uf Oligocene after 1972
 - uf Paleocene after 1970
 - uf Pliocene after 1972
 - uf Upper Tertiary
- Testes**
 - sn Used from 1972 forward
 - sn Use Testis before 1972
- Tetraodontidae**
 - sn Used from mid-1980 forward
 - uf Puffers after mid-1980
 - rt Osteichthyes
- Tetroses**
 - u Monosaccharides
- Textures**
 - rt Sediment texture
- Thaliacea**
 - uf Salps
 - rt Tunicata
- Thalli**
 - sn Used from 1973 forward
- Thallium**
 - sn Used from 1971 forward
- Thallium compounds**
 - sn Used from 1980 forward
- Thanatocoenoses**
- Theoretical**
 - sn Used only before 1968
- Theory**
 - sn Used only before 1966
 - u Compound terms, e.g.. Scattering theory
- Thermal conductivity**
 - rt Conductivity
- Thermal discharges**
 - uf Thermal effluents after 1975
- Thermal effluents**
 - sn Used only before 1976
 - u Thermal discharges
- Thermal energy**
- Thermal insulation**
 - rt Insulation
- Thermal pollution**
 - rt Pollution
- Thermistors**
- Thermocline**
- Thermocline configurations**
 - sn Used from 1972 forward
- Thermocline cycles**
 - sn Used from 1970 forward
- Thermocline depth**
 - rt Depth
- Thermodynamics**
- Thermoelectricity**
 - rt Electricity
- Thermographs**
- Thermometers**
- Thermoperiods**
 - sn Used from 1973 forward
 - rt Periodicity
- Thermophiles**
 - rt Mesophiles
 - rt Psychrophiles
- Thermoreception**
 - sn Used from 1980 forward
 - rt Sensory perception
- Thermoregulation**
- Thermosteric anomalies**
 - sn Used from 1978 forward
- Tholeiite**
 - sn Also use plural in 1972 and 1977
- Thorium**
- Thorium compounds**
 - sn Used from 1980 forward
- Threadfins**
 - sn Used only before mid-1980
 - sn Also use singular before 1966
 - u Polynemidae
- Thresher sharks**
 - u Alopiidae
- Thrusters**
 - rt Transverse thrusters
- Thulium**
 - sn Used from 1980 forward
- Thulium compounds**
 - sn Used from 1980 forward
- Thymus glands**
 - sn Used from 1976 forward
- Thyroid glands**
 - sn Used from 1973 forward
 - sn Use singular before 1972
- Ticks**
 - u Arachnida
- Tidal currents**
 - rt Currents
- Tidal cycles**
 - sn Used from 1973 forward
- Tidal data**
- Tidal estuaries**
 - rt Estuaries
- Tidal flats**
- Tidal fluctuations**
 - sn Used before 1976
 - u Tidal variations
- Tidal forces**
 - sn Used only before 1973
- Tidal friction**
 - rt Friction
- Tidal heights**
 - rt Heights
- Tidal inlets**
 - rt Inlets
- Tidal power**
 - rt Power sources
- Tidal range**
 - sn Used from 1974 forward
 - sn Use singular before 1973
- Tidal rhythms**
 - sn Used only before 1973
- Tidal rivers**
 - rt Rivers
- Tidal variations**
 - uf Tidal fluctuations after 1975
- Tidal waterways**
 - rt Waterways
- Tidal waves**
 - rt Waves
- Tide gauges**
- Tide models**
- Tide pools**
- Tide predictions**

Controlled Vocabulary

- Tide records**
- Tide simulators**
sn Used from 1975 forward
rt Simulators
- Tide tables**
- Tidelands**
- Tides**
rt Earth tides
rt Internal tides
rt Wind tides
- Tilefish**
u Branchiostegidae
- Time measurements**
- Time series**
- Tin**
- Tin compounds**
sn Used from 1975 forward
- Tintinnids**
sn Used only before 1973
u Protozoa
- Tissue culture**
- Tissues**
sn Also use singular before 1970
rt Connective tissue
- Titanium**
- Titanium alloys**
rt Alloys
- Titanium compounds**
sn Used from 1974 forward
- Toadfish**
sn Used only before mid-1980
sn Also use plural before 1973
u Batrachoididae
- TOD**
sn Used from 1980 forward
uf Total oxygen demand
- Todorokite**
- Tombolos**
- Tongue of the ocean**
u TOTO
- Tonguefish**
u Cynoglossidae
- Tonnage measurements**
sn Used from 1970 forward
sn Also use singular in 1971
- Tools**
rt Equipment
rt Hydraulic tools
rt Power tools
rt Underwater tools
- Topography**
rt Bottom topography
rt Nearshore topography
rt Ocean floor topography
- Torpedinidae**
sn Used from mid-1980 forward
uf Electric rays after mid-1980
rt Chondrichthyes
rt Rays
- Torpedos**
sn Used only before 1970
- u Underwater weapons
- Torques**
- Torrey Canyon Disaster**
sn Used only before 1973
- Total organic carbon**
u TOC
- Total oxygen demand**
u TOD
- TOTO**
uf Tongue of the ocean
- TOVALOP**
uf Tanker Owners Voluntary Agreement
concerning Liability for Oil Pollution
- Tow cables**
rt Cables
- Tow tugs**
rt Tugboats
- Towed instruments**
rt Instruments
- Towed sensors**
rt Sensors
- Towed vehicles**
rt Vehicles
- Towers**
- Towing**
- Towing industry**
rt Industries
- Towlines**
rt Lines
- Toxicity**
rt Oxygen toxicity
- Toxicology**
rt Pharmacology
- Toxins**
rt Poisons
- Trace elements**
- Trace metals**
sn Used before 1978 and after 1979
- Trace minerals**
rt Minerals
- Tracers**
rt Geochemical tracers
rt Radioactive tracers
rt Radiotracers
rt Sand tracers
rt Sedimentological tracers
- Tracheophyta**
sn Used from 1973 forward
uf Vascular plants
rt Grasses
rt Mangroves
rt Marsh plants
rt Sea grasses
rt Spermatophyta
- Trachinidae**
sn Used from mid-1980 forward
uf Weevers after mid-1980
rt Osteichthyes
- Trachipteridae**
sn Used from mid-1980 forward
uf Ribbonfish
rt Osteichthyes
- Tracking**
sn Use compound terms below
- sn Used before 1968
- Tracking instrumentation**
rt Tagging
- Trade routes**
- Trade winds**
rt Winds
- Traffic control**
sn Use with period for full set
- Training**
rt Curricula
rt Divers training
rt Education
- Transducer arrays**
rt Arrays
- Transducers**
rt Acoustic transducers
rt Pressure transducers
- Transfer**
sn Used only before 1966
u Compound terms, e.g., Energy transfer
- Transferrin**
sn Used only before 1973
u Proteins
- Transformers**
- Transmissions**
sn Also use singular before 1968
rt Light transmission
rt Power transmission
rt Sound transmission
rt Wave transmission
- Transmitters**
- Transparency**
- Transplants**
- Transponder arrays**
sn Used from 1971 forward
rt Arrays
- Transponders**
rt Acoustic transponders
- Transport**
sn Also use plural in 1970
rt Active transport
rt Cargo transport
rt Geostrophic transport
rt Ion transport
rt Load transport
rt Mass transport
rt Oil transport
rt Particle transport
rt Passive transport
rt Salt transport
rt Sand transport
rt Sediment transport
rt Ship transport
rt Water transport
- Transport ships**
rt Ships
- Transportation**
rt Materials transportation
- Transverse thrusters**
rt Thrusters
- Traps**
rt Sediment traps
- Trawl fisheries**
rt Fisheries

Controlled Vocabulary

- Trawl fishing**
sn Used only before 1973
u Trawling
- Trawlers**
rt Freezer trawlers
- Trawling**
uf Trawl fishing after 1972
rt Fishing
- Trawls**
rt Midwater trawls
- Treaties**
- Trematoda**
sn Used 1964-65 and 1973 forward
sn Use Trematodes 1967-72
uf Flukes
rt Platyhelminthes
- Trenches**
sn See Geographic term list for specific trenches
rt Submarine trenches
- Trenching**
- Triacanthodidae**
sn Used from mid-1980 forward
uf Spikefish
rt Osteichthyes
- Triassic**
sn Used from 1971 forward
- Trichiuridae**
sn Used from mid-1980 forward
uf Cutlass fish after mid-1980
rt Osteichthyes
- Trichocysts**
rt Nematocysts
- Trichodontidae**
sn Used from mid-1980 forward
uf Sandfish
rt Osteichthyes
- Triggerfish**
sn Used only before mid-1980
sn Also use plural before 1972
u Balistidae
- Triglidae**
sn Used from mid-1980 forward
uf Gurnards after mid-1980
uf Searobins
rt Osteichthyes
- Triglycerides**
sn Used from 1973 forward
- Trimaraas**
- Trioses**
u Monosaccharides
- Tripletails**
u Lobotidae
- Tripods**
- Tripton**
rt Plankton
rt Seston
- Trisaccharides**
u Oligosaccharides
- Tritium**
- Tropical**
sn Used before 1968
sn Use compound terms below
sn See Geographic Term list
- Tropical cyclones**
sn Used only before 1970
u Tropical storms and Cyclones
- Tropical storms**
rt Storms
- Tropism**
sn Used from 1975 forward
rt Orienting behavior
- Troposphere**
- Troughs**
sn Used from 1974 forward
sn See Geographic Term list for specific troughs
- TROUTS**
sn Also use singular before 1969
rt Salmonidae
- Trumpetfish**
u Aulostomidae
- Trunkfish**
u Ostraciidae
- Tsunamis**
- Tube-eyes**
u Stylephoridae
- Tubes**
- Tubeworms**
sn Used only before mid-1980
u Polychaeta
- Tugboats**
uf Tugs after 1976
rt Tow tugs
- Tugs**
sn Used only before 1977
u Tugboats
- Tuna fisheries**
rt Fisheries
- Tunas**
sn Also use singular before 1976
uf Albacores 1973-80
uf Black skipjacks before 1980
uf Bonito 1973-80
rt Scombridae
- Tungsten**
sn Used from 1978 forward
- Tungsten compounds**
sn Used from 1978 forward
- Tunicata**
sn Used 1964-65 and 1980 forward
sn Use Tunicates 1966-80
uf Urochordata
rt Ascidiacea
rt Chordata
rt Larvacea
rt Thaliacea
- Tunicates**
sn Used only before mid-1980
u Tunicata
- Tunnels**
- Turbellaria**
sn Used 1965 and 1973 forward
sn Use Turbellarians 1966-72
uf Free-living flatworms
rt Platyhelminthes
- Turbidites**
- Turbidity**
sn Also use plural before 1972
- Turbidity currents**
rt Currents
- Turbines**
rt Gas turbines
rt Steam turbines
- Turbulence**
- Turbulence spectra**
- Turbulent boundary layers**
sn Used from 1973 forward
sn Use singular 1970-72
rt Boundary layers
- Turbulent diffusion**
rt Diffusion
- Turbulent exchange**
- Turbulent flux**
- Turtles**
sn Used only before mid-1980
u Reptilia
- Tusk shells**
u Scaphopoda
- Twin hulls**
rt Hulls
- Twin screws**
sn Used from 1974 forward
- Typhoons**
- Ultrabasic rocks**
sn Used from 1971 forward
rt Rocks
- Ultramafic rocks**
rt Rocks
- Ultrasonics**
- Ultrastructure**
- Ultraviolet radiation**
sn Used from 1973 forward
rt Radiation
- Ultraviolet spectroscopy**
sn Used from 1975 forward
rt Spectroscopy
- UM**
sn Used only before 1977
sn Used for unpublished manuscript
- Undercurrents**
rt Currents
- Undersea warfare**
uf ASW after 1971
rt Submarines
- Underthrusting**
- Underwater accidents**
rt Accidents
- Underwater acoustics**
sn Used only before 1972
- Underwater buoys**
rt Buoys
- Underwater cables**
rt Cables
- Underwater capsules**
- Underwater caves**
rt Caves
- Underwater communications**
rt Communications
- Underwater connectors**
- Underwater construction**
- Underwater cranes**

Controlled Vocabulary

- rt Cranes
- Underwater drills**
- Underwater engineering**
 - rt Engineering
- Underwater exploration**
 - rt Exploration
- Underwater explosions**
 - rt Explosions
- Underwater habitats**
 - rt Habitats
- Underwater hearing**
 - rt Phonoreception
- Underwater installations**
- Underwater instruments**
 - rt Instruments
- Underwater lights**
 - sn Also use singular before 1968
 - rt Light
- Underwater mining**
 - rt Mining
- Underwater observations**
- Underwater operations**
- Underwater parks**
- Underwater photography**
 - sn Used only before 1972
- Underwater ranges**
- Underwater sensors**
 - sn Used from 1970 forward
 - rt Sensors
- Underwater signals**
 - sn Used from 1972 forward
 - rt Signals
- Underwater simulation**
 - sn Used from 1974 forward
 - rt Simulation
- Underwater sound measurements**
 - sn Used from 1970 forward
- Underwater sound projectors**
 - sn Used from 1973 forward
- Underwater sounds**
 - sn Also use singular before 1976
 - rt Sounds
- Underwater surveys**
 - rt Surveys
- Underwater tools**
 - rt Tools
- Underwater tracking**
- Underwater valves**
- Underwater vehicles**
 - sn Used only before 1978
 - u Submersibles
- Underwater weapons**
 - uf Torpedoes after 1969
 - rt Weapons
- Underwater welding**
 - rt Welding
- Underwater wellheads**
 - rt Wellheads
- Underwater wells**
 - rt Wells
- United Kingdom**
 - sn Use with period for full set
 - rt British Isles
 - rt Channel Islands
- rt England
- rt Great Britain
- rt Isle of Man
- rt Northern Ireland
- rt Scotland
- rt Wales
- Universal underwater mobile**
 - u UNUMO
- Unloading**
- Unmanned data buoys**
 - rt Buoys
- UNUMO**
 - uf Universal underwater mobile
- Upper layers**
 - sn Also use singular before 1968
- Upper mantle**
 - rt Mantle
- Upper mantle anisotropy**
 - rt Anisotropy
- Upper Tertiary**
 - u Tertiary
- Upwelling**
 - rt Currents
 - rt Water movement
- Uranium**
- Uranium compounds**
 - sn Used from 1980 forward
- Uranoscopidae**
 - sn Used from mid-1980 forward
 - uf Stargazers
 - rt Osteichthyes
- Urea**
- Urine**
 - rt Excretion
- Urochordata**
 - u Tunicata
- Urogenital pathologies**
 - sn Used from 1980 forward
- Urogenital systems**
 - sn Used from 1979 forward
- US fishing industry**
 - sn Used only before 1973
 - u Fishing industry and US
- US government**
 - sn Used only before 1973
- US government policies**
 - sn Used only before 1973
 - u Federal policies
- US government programs**
 - sn Used only before 1973
 - u Federal programs
- US national policies**
 - sn Used only before 1973
 - u Federal policies
- Valleys**
 - sn See Geographic Term list for specific valleys
 - rt Fan valleys
 - rt Rift valleys
- Valves**
 - rt Control valves
- Vanadium**
- Vanadium compounds**
 - sn Used from 1980 forward
- Vane shear**
 - sn Used from 1971 forward
- Vane tests**
- Vapor pressure**
- Vaporization**
 - sn Used from 1976 forward
- Vapors**
 - rt Water vapors
- Variations**
 - sn Used only before 1974
 - u Compound terms, e.g., Temperature variations
- Vascular pathologies**
 - sn Used from 1973 forward
- Vascular plants**
 - u Tracheophyta
- Vascular systems**
 - sn Also use singular before 1968
 - rt Cardiovascular systems
- Vegetation**
 - rt Flora
- Vehicles**
 - rt Air cushion vehicles
 - rt Amphibious vehicles
 - rt Diving vehicles
 - rt Recovery vehicles
 - rt Seabed vehicles
 - rt Search vehicles
 - rt Surface effect vehicles
 - rt Towed vehicles
- Veins**
 - rt Blood vessels
- Velocimeters**
- Velocity**
 - rt Current velocity
 - rt Flow velocity
 - rt Geostrophic velocity
 - rt Horizontal velocity
 - rt Orbital velocity
 - rt Shear velocity
 - rt Sound velocity
 - rt Vertical velocity
 - rt Wave velocity
 - rt Wind velocity
- Velocity anisotropy**
 - rt Anisotropy
- Velocity depth profiles**
- Velocity measurements**
- Velocity spectra**
- Vertebrae**
 - sn Used before 1973 and after 1979
- Vertebrata**
 - sn Used from 1973 forward
 - sn Use Vertebrates before 1973
 - rt Agnatha
 - rt Aves
 - rt Chondrichthyes
 - rt Chordata
 - rt Mammalia
 - rt Osteichthyes
 - rt Reptilia
- Vertical**
 - sn Use compound terms below
 - sn Used before 1970

Controlled Vocabulary

- Vertical circulation
 - rt Circulation
- Vertical distribution
 - rt Distribution
 - rt Horizontal distribution
- Vertical exchange
- Vertical flow
- Vertical gradients
- Vertical migration
 - sn Used before 1972 and after 1979
- Vertical mixing
 - sn Used before 1976 and after 1979
- Vertical motion
- Vertical profiles
- Vertical velocity
 - rt Velocity
- Vessels
 - rt Cargo vessels
 - rt Commercial vessels
 - rt Drilling vessels
 - rt Fishing vessels
 - rt Naval vessels
 - rt Research vessels
 - rt Sailing vessels
 - rt Ships
- Vibration
 - sn Also use plural before 1973
 - rt Hull vibration
 - rt Ship vibration
- Vibrators
- Viperfish
 - u Chauliodontidae
- Viral pollution
 - rt Pollution
- Viruses
 - uf Bacteriophages after 1976
- Viscosity
- Viscosity measurements
- Viscous fluids
- Visibility
- Vision
 - rt Color vision
- Visual acuity
 - rt Divers visual acuity
- Visual pigments
 - rt Pigments
- Vitamin metabolism
 - sn Used from 1979 forward
 - rt Metabolism
- Vitamins
 - uf Ascorbic acid
 - uf Biotin after 1972
 - uf Niacin
- Vocalizations
- Volcanic ash
- Volcanic dust
 - rt Dusts
- Volcanic eruptions
- Volcanic glass
 - rt Glasses
- Volcanic islands
 - rt Islands
- Volcanic rocks
 - rt Rocks
- Volcanic silt
- Volcanics
- Volcanism
 - rt Submarine volcanism
- Volcanoes
- Volume
 - sn Used only before 1967
- Volumetric analysis
- Vorticity
 - sn Used before 1967 and after 1979
- Wakes
- Walls
 - rt Sea walls
- Walruses
 - rt Mammalia
 - rt Pinnipedia
- Warships
 - rt Destroyers
 - rt Naval vessels
- Waste disposal
 - rt Effluent disposal
- Waste effluents
 - rt Effluents
- Waste heat
 - rt Heat
- Waste treatment
- Wastewater disposal
 - sn Used from 1976 forward
 - sn Use Waste water disposal 1973-75
- Wastewaters
 - sn Use singular before 1973
 - sn Use Waste waters 1973-77
- Water
 - sn Use compound terms below
 - sn Used before 1978
- Water balance
- Water bears
 - sn Used only before mid-1980
 - u Tardigrada
- Water budget
- Water color
 - rt Colors
- Water column
 - sn Used from 1975 forward
 - sn Also use plural before 1977
- Water conversion
- Water discoloration
 - rt Discoloration
- Water diversion
- Water dynamics
 - sn Used from 1972 forward
- Water exchange
- Water fleas
 - u Branchiopoda
- Water immersion
 - rt Immersion
- Water injection
- Water jets
 - rt Jets
- Water levels
- Water loss
- Water masses
- Water motion
 - sn Used only before 1976
- u Water movement
- Water movement
 - sn Also use plural before 1974
 - uf Water motion after 1975
 - rt Downwelling
 - rt Movement
 - rt Upwelling
- Water pollution
 - rt Pollution
- Water quality
- Water quality control
- Water quality standards
 - sn Used from 1970 forward
- Water reclamation
- Water resources
 - rt Resources
- Water samplers
 - sn Used before 1972 and after 1979
- Water sources
 - sn Used from 1970 forward
- Water supplies
 - sn Used from 1973 forward
 - sn Use singular before 1972
- Water transport
 - rt Transport
- Water treatment
 - sn Used from 1970 forward
- Water vapor
 - rt Vapors
- Waterflooding
- Waterproofing
- Waterspouts
- Waterways
 - sn Used from 1970 forward
 - rt Inland waterways
 - rt Rivers
 - rt Tidal waterways
- Wave action
- Wave amplification
- Wave amplitude
 - rt Amplitude
- Wave attenuation
 - rt Attenuation
- Wave damping
 - rt Damping
- Wave data
- Wave decay
 - rt Decay
- Wave deformation
- Wave diffraction
 - rt Diffraction
- Wave drag
- Wave energy
- Wave flow
 - sn Used from 1975 forward
- Wave fluctuations
 - sn Used from 1974 forward
- Wave forces
 - sn Also use singular before 1968
- Wave forecasting
 - rt Forecasting
- Wave frequencies
 - sn Used from 1974 forward
 - sn Use singular before 1974

Controlled Vocabulary

- rt Frequencies
- Wave gauges**
- Wave generation**
- Wave heights**
 - sn Used from 1974 forward
 - sn Use singular before 1974
 - rt Heights
- Wave hindcasting**
 - rt Hindcasting
- Wave impacts**
- Wave kinematics**
- Wave measurements**
- Wave meters**
- Wave motion**
 - sn Also use plural before 1968
- Wave oscillations**
- Wave parameters**
- Wave patterns**
- Wave periods**
- Wave prediction**
- Wave pressure**
 - sn Used from 1974 forward
 - sn Use plural before 1974
- Wave propagation**
- Wave recorders**
- Wave recording**
- Wave reflection**
 - rt Reflection
- Wave refraction**
 - rt Refraction
- Wave resistance**
 - rt Resistance
- Wave responses**
 - sn Used from 1973 forward
- Wave run up**
 - sn Used from 1977 forward
 - sn Use Wave run-up 1970-77
 - sn Use Wave runup in 1972
- Wave scattering**
 - rt Scattering
- Wave spectra**
- Wave speed**
 - sn Used from 1972 forward
- Wave transformation**
- Wave transmission**
 - rt Transmissions
- Wave velocity**
 - rt Velocity
- Wavelengths**
- Waves**
 - uf Solitary waves after 1971
 - rt Breaking waves
 - rt Capillary waves
 - rt Easterly waves
 - rt Elastic waves
 - rt Forced waves
 - rt Gravity waves
 - rt Inertial waves
 - rt Internal waves
 - rt Irregular waves
 - rt Kinematic waves
 - rt Long period waves
 - rt Long waves
 - rt Love waves
- rt Microwaves
- rt Navigable waves
- rt Oscillatory waves
- rt Plane waves
- rt Radio waves
- rt Rayleigh waves
- rt Rossby waves
- rt Sand waves
- rt Sediment shear waves
- rt Seismic waves
- rt Ship waves
- rt Shock waves
- rt Sound waves
- rt Subsurface waves
- rt Surface waves
- rt Swell waves
- rt T waves
- rt Tidal waves
- rt Wind generated waves
- rt Wind w
- Waxes**
 - sn Used from 1973 forward
- Weapons**
 - rt Nuclear weapons
 - rt Underwater weapons
- Weather**
- Weather anomalies**
- Weather balloons**
 - rt Balloons
- Weather conditions**
 - rt Fronts
- Weather data**
- Weather forecasting**
 - rt Forecasting
- Weather hindcasting**
 - rt Hindcasting
- Weather modifications**
 - sn Also use singular before 1969
- Weather observations**
- Weather satellites**
 - rt Satellites
- Weather ships**
 - rt Ships
- Weather stations**
 - uf Ocean weather stations after 1972
 - rt Stations
- Weavers**
 - sn Used only before mid-1980
 - u Trachinidae
- Weight**
 - rt Dry weight
 - rt Molecular weight
- Welding**
 - rt Hyperbaric welding
 - rt Underwater welding
- Weldments**
- Well completions**
 - sn Used before 1972 and after 1979
- Well drilling**
 - sn Used from 1974 forward
 - rt Drilling
- Well operations**
- Wellheads**
 - rt Subsea wellheads
- rt Underwater wellheads
- Wells**
 - rt Deep wells
 - rt Gas wells
 - rt Offshore wells
 - rt Oil wells
 - rt Subsea wells
 - rt Underwater wells
- Wetlands**
 - sn Used from 1971 forward
 - rt Marshes
 - rt Swamps
- Whale fisheries**
 - rt Fisheries
- Whale oils**
 - rt Oils
- Whale sharks**
 - u Rhincodontidae
- Whales**
 - uf Killer whales after 1972
 - rt Cetacea
 - rt Mammalia
- Whaling**
- Wharves**
- Whelks**
 - sn Used only before mid-1980
 - u Gastropoda
- Whitecaps**
- Whitefish**
 - u Salmonidae
- Whittings**
 - sn Used only before 1973
 - u Bothidae
 - u Gadidae
 - u Sciaenidae
- Width**
- Wildcats**
 - sn Also use singular before 1967
- Wildcatting**
 - sn Used from 1976 forward
- Wildlife**
 - sn Used from 1973 forward
- Winches**
- Wind**
 - rt Geostrophic winds
 - rt Hurricane winds
 - rt Surface winds
 - rt Trade winds
- Wind circulation**
 - rt Circulation
- Wind data**
- Wind direction**
 - sn Use with period for full set
- Wind drift**
- Wind drift currents**
 - rt Currents
 - rt Drift currents
- Wind dynamics**
- Wind effects**
 - sn Used only before 1968
- Wind fields**
- Wind flow**
- Wind forces**
- Wind generated waves**

Controlled Vocabulary

- sn Use wind-generated waves in 1977
- rt Waves
- Wind measurements
- Wind power
 - rt Power sources
- Wind profiles
- Wind speed
- Wind stress
 - rt Stress
- Wind tides
 - rt Tides
- Wind velocity
 - rt Velocity
- Wind velocity measurements
 - sn Used from 1972 forward
- Wind waves
 - rt Waves
- Windows
- Winter
- Wires
- Wolffish
 - u Anarhichadidae
- Wood
- Wood borers
 - rt Borers
- Wood deterioration
- Wood protection
- Workboats
 - sn Also use work boats before 1978
- Workover rigs
 - rt Rigs
- World ocean
 - sn Use with period for full set
 - uf Global ocean after 1972
- World rift system
 - sn Used from 1970 forward
- Worm reefs
 - rt Reefs
- Wormfish
 - sn Used only before mid-1980
 - sn Also use plural before 1969
 - u Microdesmidae
- Worms
 - rt Acanthocephala
 - rt Annelida
 - rt Chaetognatha
 - rt Echiurida
 - rt Kinorhyncha
 - rt Nematoda
 - rt Nematomorpha
 - rt Phoronida
 - rt Platyhelminthes
 - rt Pogonophora
 - rt Rhynchocoela
 - rt Sipunculida
- Wrasses
 - sn Used only before mid-1980
 - u Labridae
- Wrymouths
 - u Cryptacanthodidae
- X-ray diffraction
 - rt Diffraction
- X-ray radiation
 - sn Used from 1974 forward
- rt Radiation
- X-ray radiography
 - rt Radiography
- X-ray spectroscopy
 - sn Used from 1975 forward
 - rt Spectroscopy
- Xanthophylls
 - rt Carotenes
 - rt Carotenoids
- Xenocoelidae
 - sn Used from mid-1980 forward
 - uf False morays
 - rt Osteichthyes
- Xenoliths
- Xenon
- Xenon compounds
- Xiphiidae
 - sn Used from mid-1980 forward
 - uf Swordfish after mid-1980
 - rt Osteichthyes
- Xylans
 - u Polysaccharides
- Yeasts
 - sn Used only before 1973
 - u Fungi
- Yellow-green algae
 - sn Used only before mid-1980
 - u Chrysophyta
- Yellowfin
 - sn Used only before 1966
 - u Scombridae
- Yellowtails
 - sn Used only before mid-1980
 - u Carangidae
- Yield
 - sn Used only before 1968
 - u Compound terms, e.g., Catch yield
- Young
 - uf Juveniles after 1972
 - uf Postlarvae after 1972
 - rt Fish fry
- Ytterbium
 - sn Used from 1977 forward
- Ytterbium compounds
 - sn Used from 1980 forward
- Yttrium
- Yttrium compounds
 - sn Used from 1980 forward
- Zaproridae
 - sn Used from mid-1980 forward
 - uf Prowfish
 - rt Osteichthyes
- Zeidae
 - sn Used from mid-1980 forward
 - uf Dories after mid-1980
 - rt Osteichthyes
- Zinc
- Zinc compounds
 - sn Used from 1974 forward
- Zirconium
- Zirconium compounds
 - sn Used from 1976 forward
- Zoarcidae
 - sn Used from mid-1980 forward
- uf Eelpouts
- rt Osteichthyes
- Zonation
 - rt Climatic zonation
 - rt Foraminiferal zonation
- Zones
 - sn Used only before 1978
 - u Compound terms, e.g., Deep-sea zones
- Zoogeography
 - rt Biogeography
 - rt Paleobiology
 - rt Paleocology
 - rt Paleogeography
 - rt Phytogeography
- Zooplankton
 - rt Phytoplankton
 - rt Plankton
- Zooxanthellae
- Zygotes
 - rt Gametes

Appendix C

Keywords Used in the Tuscaloosa Trend Bibliographic Data Base

<u>Descriptor</u>	<u>Frequency</u>
Alabama	334
Apalachee Bay	1
Apalachicola Bay	2
Atchafalaya Bay	4
Atchafalaya Delta	1
Atlantic Ocean	11
Atlantic thread herring	1
Aves	15
Baldwin County	17
Barataria Bay	10
Bay St. Louis	1
Bayou Sara	1
Bayou Texar	5
Biloxi Bay	10
Blackwater Bay	1
Bon Secour Bay	3
Breton Sound	14
Breton	1
Caminada Bay	3
Caminada Pass	1
Cat Island	2
Catfish Basin	2
Cedar Point	1
Cephalochordata	1
Cetacea	1
Chandeleur Islands	13
Chandeleur Sound	12
Chesapeak Bay	1
Chickasaw Creek Channel	1
Coelenterata	1
Copepoda	2
Cretaceous	1
Crustacea	2
Ctenophora	1
Dauphin Island Bay	1
Dauphin Island	7
DeSoto Canyon	6
Decapoda	11
Destin	1
Escambia Bay	11
Escambia River	1
Florida	122
Foraminifera	5
Georgia	4
Governor's Bayou	1
Gulf of Mexico	480
Gulf outlet channel	2
Gulfport	1
Heron Bay	1
Holocene	10
Horn Island	9

<u>Descriptor</u>	<u>Frequency</u>
Hydrozoa	1
Invertebrata	22
Jurassic	2
Lake Borgne	6
Lake Maurepas	4
Lake Pontchartrain	23
Long Island	1
Loop Current	6
Louisiana	352
Lupeidae	1
Mammalia	6
Marsh Creek	1
Mexico	1
Mississippi Fan	1
Mississippi River Delta	110
Mississippi River	31
Mississippi Sound	169
Mississippi	365
Mobile Bay	111
Mobile County	13
Mobile River Delta	12
Mobile River	1
Mobile	15
Mollusca	5
Mulat-Mulatto Bayou	1
Mulatto Bayou	9
New Orleans	1
New York	1
North Carolina	2
Pacific Ocean	1
Paleozoic	1
Pascagoula River	3
Pascagoula	1
Pearl River Delta	1
Pearl River	4
Pelecypoda	1
Pensacola Bay	9
Pensacola	7
Perido Bay	1
Petit Bois	1
Pinnipedia	1
Pleistocene	9
Polychaeta	1
Precambrian	1
Quaternary	6
Recent	4
Reptilia	9
San Antonio Bay	1
Sand Island	1
Santa Rosa Island	1
Sciaenidae	3

<u>Descriptor</u>	<u>Frequency</u>
Scyphozoa	1
Ship Island	1
Sigsbee Deep	2
Smackover	1
South Atlantic Ocean	2
South Carolina	1
South Pass	15
Southwest Pass	3
St. Louis Bay	13
Texas	38
Theodore Ship Channel	1
Thompson's Bayou	4
Timballer Island	3
Tombigbee River	3
United States	42
Vertebrata	3
Virginia	2
West Fowl River	1
abundance	4
accretion	2
acetylene	2
adenosine triphosphate	1
aerial photography	3
aerial surveys	1
age	4
air pollution	2
air pressure	1
air temperature	19
algae	2
aliphatic compounds	2
alkalinity	5
alligator	1
amino acids	1
ammonia	8
anadromous fish	1
aquatic plants	4
archaeology	53
archaic	1
aromatic compounds	1
artificial habitats	1
artificial reefs	4
atlas	3
atmospheric circulation	3
atmospheric pressure	1
bacteria	4
barges	1
barium	1
barometric pressure	1
barrier islands	58
basses	5
bathymetry	7

<u>Descriptor</u>	<u>Frequency</u>
bays	2
beach erosion	2
beach protection	1
beach restoration	1
beach ridges	1
beach sands	1
beach sediments	2
beaches	7
behavior	1
benthic communities	52
benthic fauna	50
benthic flora	7
benthic surveys	1
benthos	10
bibliographies	16
billfish	3
bioaccumulation	3
bioassay	2
biochemical oxygen demand	6
biochemistry	1
biology	401
biomagnification	2
biomass	5
biota	1
boat design	2
boats	7
botany	29
bottom currents	2
bottom sediments	14
bottom	3
breeding	1
buoys	1
cadmium	1
calcite	1
calcium carbonate	1
calcium compounds	1
calcium	1
caloric content	3
canals	4
carbohydrates	6
carbon dioxide	1
carbon-14	2
carbon	18
carbonates	6
cargo transport	4
carotenoids	1
catch statistics	1
cations	1
cementation	2
channels	1
chemical composition	1

<u>Descriptor</u>	<u>Frequency</u>
chemical interactions	1
chemical oceanography	1
chemical oxygen demand	1
chemistry	45
chlorine compounds	3
chlorite	1
chlorophyll a	3
chlorophyll b	2
chlorophyll c	2
chlorophyll	3
chronology	4
circulation	18
clay facies	1
clay mineralogy	10
clay	3
climate	1
climatic data	2
climatology	5
coastal boundaries	1
coastal geomorphology	2
coastal resources	9
coastal waters	153
coastal zones	142
colonization	3
commerce	5
commercial fisheries	64
commercial vessels	2
community structure	12
continental margin	4
continental shelf	83
continental slope	8
copper	3
coral reefs	1
core samples	1
crab fisheries	5
croaker	1
crude oil	2
crystallization	2
cultural resources	54
current meters	1
currents	43
data	32
decomposition	3
deep sea	2
deltas	16
demersal fishes	30
demographics	1
density	1
deposition	7
deposits	1
deterioration	1

<u>Descriptor</u>	<u>Frequency</u>
detritus particles	1
detritus	4
deuterium	2
development	3
diapir	1
diapirs	4
diatoms	1
disaster	1
diseases	3
dissolved organic compounds	4
dissolved oxygen	31
dissolved solids	1
distribution	31
dolphin	1
dredge spoil	15
dredging	21
drift currents	1
drift measurements	1
drift patterns	1
drilling platforms	2
drilling rigs	2
drilling	6
drogue	1
dunes	1
eH	2
ecology	127
economics	17
ecosystems	8
electrical conductivity	3
endangered species	2
energy budget	1
energy flow	2
energy flux	2
energy	1
engineering	6
environmental changes	2
environmental conditions	2
environmental data	4
environmental hazards	3
environmental impacts	42
environmental management	7
environmental surveillance	4
environmental survey	3
epifauna	2
erosion	27
estuaries	40
ethnohistory	2
eustatic changes	2
evaporation	2
evolution	4
excavation	5

<u>Descriptor</u>	<u>Frequency</u>
experimental models	1
exploration	35
facies	3
fatty acids	1
faults	5
fauna list	2
fauna	6
feeding habits	37
fertilization	1
fingerlings	5
fish attraction	1
fish behavior	2
fish catches	14
fish collecting	1
fish eggs	3
fish fauna	5
fish harvesting	2
fish kills	3
fish larvae	7
fish migration	4
fish processing	1
fish statistics	2
fish stocks	10
fish tags	1
fish	78
fisheries forecasting	2
fisheries management	16
fisheries resources	12
fisheries	110
fishery statistics	24
fishes	1
fishing efficiency	1
fishing gear	3
fishing grounds	2
fishing industry	1
fishing pressure	1
flocculation	1
flood	3
flora	28
flow patterns	1
flow rates	1
flow velocity	1
foam	1
food chains	2
forecasting	1
fossil reefs	1
fouling communities	1
fouling organisms	1
fracture patterns	1
fronts	1
fungi	1

<u>Descriptor</u>	<u>Frequency</u>
gas production	5
gas	19
geochemistry	9
geographic boundaries	1
geography	1
geologic history	15
geologic structures	3
geology	300
geomorphology	9
geophysical survey	1
geophysics	2
geopressure	1
geosynclines	4
geothermal deposits	1
geothermal power	2
geothermal surveys	2
geothermal	2
glacial deposits	1
glaciation	1
global radiation	1
glucose	2
grain size	5
groundwater	2
gyrals	1
gyre	1
habitats	15
harbors	2
hazardous waste	2
heat budget	1
heat storage	1
heat	1
heavy metals	6
heavy minerals	11
herbicides	2
herpetofauna	2
heterotrophic rate	2
highways	1
histology	2
histopathology	1
historic geology	3
historic	12
history	4
hormones	1
hurricane damages	2
hurricane tracking	1
hurricanes	11
hydraulics	1
hydrocarbons	23
hydrodynamic model	3
hydrodynamics	1
hydrography	53

<u>Descriptor</u>	<u>Frequency</u>
hydroids	1
hydrology	31
hydrometeorology	1
hydrostatic pressure	1
hypoxia	1
incineration	2
industries	4
industry	14
infectious diseases	7
infrared imagery	5
inlets	1
inner continental shelf	1
inorganic compounds	7
interstitial water	2
iron	3
irradiance	1
jurisdiction	1
juveniles	3
kaolinite	1
land-sea breezes	2
landslides	3
larvae	1
lead	3
legal aspects	2
length	4
life cycle	5
life history	48
light attenuation	9
light extinction	3
light intensity	1
lignin	1
lipids	2
literature review	10
lithology	2
littoral currents	1
littoral drift	2
loop currents	4
lower Mississippi River	1
macrobenthos	1
macrofauna	13
macrophytes	1
magnesium	1
magnetic anomalies	1
management	29
manatees	2
manganese	1
mangroves	1
mapping	5
maps	1
mariculture	5
marinas	1

<u>Descriptor</u>	<u>Frequency</u>
marine	10
marsh plants	2
marshes	42
materials transportation	1
mathematical models	15
meiofauna	9
menhaden	5
mercury	4
metal uptake	1
metals	8
meteorology	34
methane	3
metribuzin	1
mica	1
microbiology	1
microfauna	14
migration	8
migratory patterns	1
mineral extraction	1
mineral resources	6
mineralogy	13
minerals	1
mining	1
models	12
modification	1
monitoring methods	2
montmorillonite	1
morphology	2
mortality	5
mullet	1
mulletts	1
natural resources	2
nearshore	2
nekton	1
nepheloid layer	1
nesting	1
neuston	1
nickel	1
nitrate	10
nitrite	2
nitrogen cycle	1
nitrogen fixation	1
nitrogen	5
northern Gulf of Mexico	25
northwest Gulf of Mexico	1
numerical analysis	1
nursery areas	1
nutrients	14
ocean dumping	1
oceanography	43
offshore drilling rigs	2

<u>Descriptor</u>	<u>Frequency</u>
offshore drilling	4
offshore exploration	1
offshore leases	1
offshore minerals	1
offshore platforms	1
offshore structures	1
offshore waters	1
organic compounds	1
oil industry	1
oil slicks	2
oil spills	6
oil transport	2
oil wells	3
oil	67
oils	7
operations	8
organic compounds	1
origin	9
orthophosphate	9
outer continental shelf	57
oyster fisheries	3
oyster	2
oysters	19
pH	10
paleogeography	2
paleontology	1
paleoceanography	1
parasites	11
particulate matter	2
patterns	3
peat	2
pelagic fishes	15
pesticides	15
phosphate	3
phosphorous	2
phosphorus	2
photographs	2
photosynthesis	8
phthalates	2
physical oceanography	13
physical processes	95
physical properties	1
physiography	14
phytoplankton	21
pipelines	5
plankton blooms	1
plankton	17
plate tectonics	2
pollution control	4
pollution distribution	1
pollution	38

<u>Descriptor</u>	<u>Frequency</u>
polychlorinated biphenyls	3
population composition	2
population density	3
population dynamics	2
populations	7
port facilities	3
port operations	9
ports	2
potassium	1
poverty point	1
precipitation	12
predation	4
prehistoric subsidence	1
prehistoric	25
primary productivity	9
processes	5
production	8
productivity	13
protein	2
purse seiners	1
radiometer	1
rates	1
recreation beaches	1
recreation	39
redox	1
reef	2
reefs	12
regional planning	5
regional studies	2
regulations	1
rehabilitation	1
relative humidity	2
remote sensing	15
reproduction	6
reserves	3
resources	49
respiration rates	1
river discharges	4
rivers	1
roads	1
salinity	101
salt domes	1
salt water	1
salt	1
sample	1
sand bars	1
sand dunes	3
sands	7
satellites	6
sea levels	5
sea state	3

<u>Descriptor</u>	<u>Frequency</u>
seafood	1
seagrasses	11
seasonal variations	4
secchi disc depth	5
sediment accretion	4
sediment age dating	1
sediment analysis	2
sediment cores	6
sediment deformation	5
sediment distribution	25
sediment facies	4
sediment shear waves	4
sediment sources	2
sediment structures	2
sediment texture	21
sediment transport	39
sedimentary deposits	3
sedimentation rates	4
sedimentation stratigraphy	1
sedimentation	51
sedimentology	24
sediments	131
seismic reflection	9
seismic refraction	1
seismic	1
sharks	1
shellfish fisheries	1
shellfish	5
shells	7
ship transport	3
shipwrecks	3
shoaling	1
shores	8
shrimp fisheries	11
shrimp	21
side-scan sonar	4
silicate	2
size	1
socioeconomics	3
socioeconomics	228
sociology	1
sodium	1
soil type	1
soils	4
sources	1
southeast United States	7
spawning	2
species composition	46
species diversity	1
species list	4
species	4

<u>Descriptor</u>	<u>Frequency</u>
sport fisheries	8
sport fishing	12
stability	1
stabilization	1
standing crop	8
standing stock	1
statistical analysis	6
statistics	23
storm surge	2
stratification	1
stratigraphy	25
structural geology	1
structures	17
submarine	1
submerged	8
submersibles	1
subsidence	12
subsurface	1
succession	1
sulfate	1
sulfide	2
surf zone	2
surface currents	1
surface temperature	2
survey	6
surveys	24
swamps	1
tagging	4
taxonomy	31
tectonics	6
temperature anomalies	1
temperature fluctuations	1
temperature gradients	1
temperature	36
terrestrial	2
tidal cycle	1
tidal fluctuations	1
tidal period	4
tidal phase	1
tidal variations	1
tides	9
tissues	1
topography	6
tornados	1
tourism	23
toxicology	1
trace elements	1
trace metals	4
traffic	1
transport	2
transportation	2

<u>Descriptor</u>	<u>Frequency</u>
travel	15
trawl fisheries	1
tropical cyclones	1
tropical storms	2
trouts	2
tumors	2
tuna	1
turbidity	10
upwelling	1
urea	1
vegetation	2
vermiculite	1
vitamins	1
volatile solids	1
volatile total solids	1
waste disposal	2
water budgets	1
water chemistry	4
water color	1
water column	2
water content	1
water level	10
water masses	5
water movement	2
water pollution	3
water quality	32
water samples	3
water temperature	59
water transport	8
wave amplitude	2
wave energy	1
wave height	2
wave impacts	1
wave length	1
wave period	2
wave pressures	1
wave speed	2
waves	2
weather	1
wetlands	22
whales	2
wildlife	10
wind direction	13
wind drift currents	1
wind force	1
wind speed	12
wind stress	1
wind	2
zinc	3
zoogeography	1
zoology	15
zooplankton	27



The Department of the Interior Mission

As the Nation's principal conservation agency, the Department of the Interior has responsibility for most of our nationally owned public lands and natural resources. This includes fostering sound use of our land and water resources; protecting our fish, wildlife, and biological diversity; preserving the environmental and cultural values of our national parks and historical places; and providing for the enjoyment of life through outdoor recreation. The Department assesses our energy and mineral resources and works to ensure that their development is in the best interests of all our people by encouraging stewardship and citizen participation in their care. The Department also has a major responsibility for American Indian reservation communities and for people who live in island territories under U.S. administration.



The Minerals Management Service Mission

As a bureau of the Department of the Interior, the Minerals Management Service's (MMS) primary responsibilities are to manage the mineral resources located on the Nation's Outer Continental Shelf (OCS), collect revenue from the Federal OCS and onshore Federal and Indian lands, and distribute those revenues.

Moreover, in working to meet its responsibilities, the **Offshore Minerals Management Program** administers the OCS competitive leasing program and oversees the safe and environmentally sound exploration and production of our Nation's offshore natural gas, oil and other mineral resources. The MMS **Minerals Revenue Management** meets its responsibilities by ensuring the efficient, timely and accurate collection and disbursement of revenue from mineral leasing and production due to Indian tribes and allottees, States and the U.S. Treasury.

The MMS strives to fulfill its responsibilities through the general guiding principles of: (1) being responsive to the public's concerns and interests by maintaining a dialogue with all potentially affected parties and (2) carrying out its programs with an emphasis on working to enhance the quality of life for all Americans by lending MMS assistance and expertise to economic development and environmental protection.