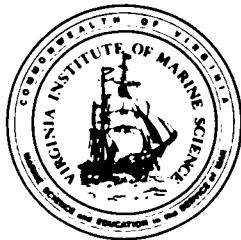


ESTUARINE RESPONSE TO NUTRIENT ENRICHMENT,
A COUNTERPART OF EUTROPHICATION:

A BIBLIOGRAPHY

K. L. WEBB
D. M. HAYWARD
J. M. BAKER
B. MURRAY

VIRGINIA INSTITUTE OF MARINE SCIENCE
AND
SCHOOL OF MARINE SCIENCE
COLLEGE OF WILLIAM AND MARY
GLOUCESTER POINT, VA 23062



Virginia Institute of Marine Science
School of Marine Science
College of William and Mary

The John Hopkins University
University of Maryland



Smithsonian Institution
Virginia Institute of Marine Science

ESTUARINE RESPONSE TO NUTRIENT ENRICHMENT,
A COUNTERPART OF EUTROPHICATION:

A BIBLIOGRAPHY

K. L. WEBB
D. M. HAYWARD
J. M. BAKER
B. MURRAY

VIRGINIA INSTITUTE OF MARINE SCIENCE
AND
SCHOOL OF MARINE SCIENCE
COLLEGE OF WILLIAM AND MARY
GLOUCESTER POINT, VA 23062

THIS RESEARCH WAS SUPPORTED BY
GRANT NUMBER: R 806 189 010
FROM THE
US ENVIRONMENTAL PROTECTION AGENCY
TO THE
CHESAPEAKE RESEARCH CONSORTIUM, INC.
1419 FOREST DRIVE, SUITE 207
ANNAPOLIS, MD 21403

MAY 1979

CRC PUBLICATION NUMBER: 68
SPECIAL SCIENTIFIC REPORT NUMBER: 95
VIRGINIA INSTITUTE OF MARINE SCIENCE

PREFACE

This work is a result of our efforts to compile the literature related to the results of nutrient enrichment of estuaries. It consists of two related publications, a bibliography and an annotated bibliography; both works are accompanied by an index which applies to either bibliography. An attempt has been made to include a few key papers related to various processes, eg nutrient uptake by phytoplankton, which influence or participate in the response process.

Items included are wide ranging from articles in scientific journals, chapters in books, and manuscripts for such publications to the grey literature of project reports, theses and the like. They have been accumulated by a variety of methods including the use of the DIALOG Information Retrieval Service (Lockheed Information Systems), manual search of various abstracting publications and the original contemporary literature as well as direct input from authors responding to direct and indirect solicitation. Science Citation Index (Institute of Scientific Information) was also utilized as a source. Annotations rely heavily on abstracts from authors or abstracting services.

Copies of all the original documents are being acquired and will be available for personal use at the CRC headquarters and the four Consortium member institutions. They are on microfiche. Information on availability to the public is contained within each citation. Bibliography users who have difficulty obtaining original materials may approach MERRMS of VIMS concerning availability of non-copyrighted materials on microfiche at cost plus handling.

These publications were produced under great time pressures and a number of citations were omitted. The senior accepts complete responsibility for these omissions and apologizes to friends colleagues and other scientists for omission of their works.

The authors thank Ms. Linda L. Jenkins for many hours of effort in front of a computer terminal, the staff of the VIMS library for efforts to obtain reference materials, the MERRMS staff for microfiche facilities, and especially to Geri Ellis, Dan Ewart and Pete Hoyle of the William and Mary Computer Center for extensive help in making the storage, manipulation, and retrieval of the bibliographic information possible.

K. L. Webb

17 May 1979

Estuarine response to nutrient enrichment bibliography field coding. *

CODE FIELD

1	Authors
2	Address
3	Title of Article; if in a Book: Title, Editors
4	Publisher or Journal
5	Year, volume, pages
6	Language

*The code numbers do not appear in the citations. Fields are separates by semi colons, empty fields are blank.

The index is a cross referenced listing of descriptors relevant to each citation. The numbers accompanying the listings refer to citation numbers.

Citation 1

Aalto, J. A., N. A. Jaworski, D. W. Lear, Jr. ;Federal Water Quality Administration, Chesapeake Technical Support Lab, Annapolis, MD ;Current Water Quality Conditions and Investigations in the Upper Potomac River Tidal System ;Fed Water Qual Admin, CTS defense ;1970(May), Technical Rep. No. 41,38p. ;English

Citation 2

Abbott, O. J. ;Univ. of Strathclyde, Marine Laboratory, Kilcreggan ;Black Necrosis in Brown Shrimp, *Crangon crangon* ;In: Proceedings of the Symposium on the Burry Inlet (South Wales), 13-15 (Sept) 1976. Edited by A. Nelson-Smith and E. M. Bridges. Problems of a Small Estuary. Quadrant Press Ltd. Swansia, West Glamorgan ;1977(Jan), Session 3,2/1-2/10. ;English

Citation 3

Abbott, W. ;Gulf Coast Research Lab. , Ocean Springs, MS ;Nutrient Studies in Hyperfertilized Estuarine Ecosystems. I. Phosphorus Studies ;Adv Water Pollut Res ;1970,4(II-3240),729-739. ;English

Citation 4

Aberdeen Marine Laboratory ;Aberdeen Marine Lab. , Library;Aberdeen, UK ;Water Pollution: A Bibliography of Reports ;Aberdeen Marine Lab. , Library;Aberdeen, UK ;1977,38p. ;English

Citation 5

Admiraal, W. ;Groningen Rijksuniversiteit (Netherlands), Dept. of Systematic Botany ;Tolerance of Estuarine Benthic Diatoms to High Concentrations of Ammonia, Nitrite Ion, Nitrate Ion and Orthophosphate ;Mar Biol ;1977,43,307-315. ;English

Citation 6

Alam, M. I. , C. P. Hsu, Y. Shimizu ;Dept. of Pharmacognosy and Environmental Health Sciences, College of Pharmacy, University of Rhode Island, Kingston, RI 02881 ;Comparison of Toxins in Three Isolates of *Gonyaulax tamarensis* (Dinophyceae) ;J Phycol ;1979,15,106-110. ;English

Citation 7

Alaska Univ. College Inst. of Marine Science ;Alaska ;Environmental Studies of an Arctic Estuarine System - Final Report ;US Environmental

Protection Agency ;1975(June), Ecol. Res. Ser. No. EPA-600/3-75-026,54p. ;English

Citation 8

Allen, G. W. ;Humboldt State Univ. , Arcata, CA ;Rearing Pacific Salmon in Saltwater Ponds Fertilized with Domestic Wastewater ;Humboldt State Univ. ;1976(Nov), Rep. HSU-SC-10,92p. ;English

Citation 9

Amanieu, M. , O. Guelorget, P. Michel ;Laboratoire d'Hydrobiologie marine et continentale, Universite des Sciences et Techniques du Languedoc, Place E Bataillon, 34060 Montpellier, France ;Richness and Diversity of Benthic Macrofauna of a Mediterranean Lagoon ;Vie Milieu ;1977, B27(1),85-109. ;English

Citation 10

Anderson, Donald Mark, David Wall ;Dept. of Civil Engineering, Massachusetts Institute of Technology, Cambridge, MA 02139 ;Potential Importance of Benthic Cysts of *Gonyaulax tamarensis* and *G. excavata* in Initiating Toxic Dinoflagellate Blooms ;J Phycol ;1978,14(2),224-234. ;English

Citation 11

Anger, K. ;Biologische Anstalt Helgoland (West Germany) ;On the Influence of Sewage Pollution on Inshore Benthic Communities in the South of Kiel Bay Part 2. Quantitative Studies on Community Structure ;Helgol Wiss Meeresunters ;1975,27,408-438. ;German

Citation 12

Anger, K. ;Biologische Anstalt Helgoland (West Germany) ;Benthic Invertebrates as Indicators of Organic Pollution in the Western Baltic Sea ;Int Rev Gesamten Hydrobiol ;1977,62(2),245-254. ;English

Citation 13

Anonymous ; ;Second International Conference on Toxic Dinoflagellate Blooms ;1978(Oct 31-Nov 5),40p. ;English

Citation 14

Anonymous ; ;Protecting America's Estuaries: Florida (Part 2) ;Hse Comm Govt Operations Hearings 93 Con 1 ;1973 (May),26p. ;English

- Citation 15
- Anonymous ; ;Bibliography on Pollu of Estuaries Coastal Waters ; ;1972 (Aug)
;English
- Citation 16
- Archimbaud, M. , C. Trouve ;Commissariat a l'Energie Atomique,
Pierrelatte (France) ;The Linkage Between Chemical Pollution and
Bacteriological Pollution in Coastal Zones ;Water Res ;1976,10(3),225-
229. ;French
- Citation 17
- Armstrong, J. W. ;Washington Univ. , Seattle ;The Impact of Subtidal
Sewage Outfalls on the Intertidal Macrofauna of Several Central Puget
Sound Beaches ;Washington Univ. ;1977, PhD Dissertation, 233p.
;English
- Citation 18
- Army Corps of Engineers ;Baltimore District, Dept. of the Army, MD
;Chesapeake Bay Existing Conditions Report, Appendix-C; The Bay
Processes and Resources ;US Dept of the Army ;1973, Vol. 2. ;English
- Citation 19
- Aston, S. R. , C. N. Hewitt ;Lancaster Univ. , Bailrigg (England),
Dept. of Environmental Sciences ;Phosphorus and Carbon Distributions
in a Polluted Coastal Environment ;Estuarine Coast Mar Sci
;1977(Mar),5(2),243-254. ;English
- Citation 20
- Aubert, M. , J. Aubert, J-M. Pincemin, N. Desirotte, J- P.
Breitmeyer ;Centre d'Etudes et de Recherches de Biologie et
d'Oceanographie Medicale, Nice (France) ;Restructuring of River Banks
and Secondary Pollution: Study of Eutrophications in Port Areas ;Rev
Int Oceanogr Med ;1972,26,53-64. ;French
- Citation 21
- Axelrad, D. M. , M. E. Bender , K. A. Moore ;Virginia Inst. of
Marine Science, Gloucester Point, VA ;Function of Marshes in Reducing

Eutrophication of Estuaries of the Middle Atlantic Region ;VIMS ;1974
(Feb), Completion Rep. OWRR B-027-VA(1),91p. ;English

Citation 22

Axelrad, Donald M. , Kenneth A. Moore, Michael E. Bender ;Virginia Inst. of Marine Science, Gloucester Point, VA ;Nitrogen, Phosphorus and Carbon Flux in Chesapeake Bay Marshes ;WRRC Virginia (Blacksburg) ;1976(Jan), VPI-WRRC-Bull 79. ;English

Citation 23

Ayres, P. A. ;Ministry of Agriculture, Fisheries and Food, Burnham-on-Crouch (England), Fisheries Lab ;The Use of Faecal Bacteria as a Tracer for Sewage Sludge Disposal in the Sea ;Mar Pollut Bull ;1977(Dec),8(12),283-285. ;English

Citation 24

Bach, Steven D. , Michael N. Josselyn ;Dept. of Biology, Allegheny College, Meadville, PA 16335 ;Mass Blooms of the Alga Cladophora in Bermuda ;Mar Pollut Bull ;1978,9(2),34-37. ;English

Citation 25

Bahlool, B. Ben ;Cawthon Inst. , P. O. Box 175, Nelson, New Zealand ;Nitrogen Fixation in Polluted Intertidal Sediments of Waimea Inlet, Nelson ;N Z J Mar Freshwater Res ;1978(Sept),12(3),271-275. ;English

Citation 26

Barber, Richard T. , William W. Kirby-Smith, Patricia E. Parsley ;Duke Univ. Marine Laboratory, Beaufort, NC 28516 ;Wetlands Alterations for Agriculture ;In: National Symposium on Wetlands, American Water Resources Ass. , Minneapolis, MN ;in press ;English

Citation 27

Bard, Harry, Richard G. Krutchkoff ;Virginia Polytechnic Inst. and State Univ. , Blacksburg, VA ;Predicting Pollution in the James River Estuary. A Stochastic Model ;VPI Water Resources Research Center Bulletin ;1974, VPI-WRRC-Bull-70,147p. ;English

Citation 28

Barlow, John P. , Carl J. Lorenzen, Richard T. Myren ;Department of

Conservation, Cornell Univ. , Ithaca, New York ;Eutrophication of a Tidal Estuary ;Limnol Oceanogr ;1963,8(2),251-262. ;English

Citation 29

Barrett, M. J. ;Water Pollution Research Lab. of the Dept. of th Environment, Elder Way, Stevenage, Hertfordshire ;Predicting the Effect of Pollution in Estuaries ;Proc R Soc Lond B Biol Sci ;1972,180,511-520. ;English

Citation 30

Berrick, Susan O. , May B. Daw, Pamela S. Tennyson, Frank W. Wojcik, John J. Norcross, William J. Hargis, Jr. ;Virginia Inst. of Marine Science, Gloucester Pt. , VA 23062 ;The Chesapeake Bay Bibliography, Vol. 1, The James River ;VIMS ;1971(June), Special Sci. Rep. No. 58. ;English

Citation 31

Bates, S. S. ;City College of New York, Dept. of Biology ;Effects of Light and Ammonium on Nitrate Uptake by Two Species of Estuarine Phytoplankton ;Limnol Oceanogr ;1976,21(2),212-218. ;English

Citation 32

Bechtel, Timothy J. , B. J. Copeland ;Department of Zoology, North Carolina State Univ. , Raleigh, NC 27607 ;Fish Species Diversity Indices as Indicators of Pollution in Galveston Bay, Texas ;Texas Insti Mar Sci, Contributions ;1970,15,103-132. ;English

Citation 33

Bella, D. A. ;Oregon State Univ. , Corvallis, Dept. of Civil Engineering ;Tidal Flats in Estuarine Water Quality Analysis ;US Environmental Protection Agency ;1975(June), EPA-660/3-75-025,184p. ;English

Citation 34

Bella, David A. , William E. Dobbins ;Stanford Univ. , Calif. ;Finite-Difference Modelling of River and Estuary Pollution ;Proceedings of the National Symposium on Estuarine Pollution, 23-25(Aug)1967 ;1967(Aug),612-645. ;English

Citation 35

Benedict, Arthur H. , Andre LeSouef ;Whiteley-Jacobsen and Assoc. ,

Seattle, WA ;Assessing Nitrogen Contamination by Use of Differential Temperature Calculations ;Water Res ;1978,12,1107-1112. ;English

Citation 36

Berg, R. H. ;Seattle Univ. , Seattle, WA, Dept. of Civil Engineering ;The Oxygen Uptake Demand of Resuspended Bottom Sediments ;US Environmental Protection Agency, Water Pollut Control Res Ser ;1970(Sept),16070 DCD, 38p. ;English

Citation 37

Biome Co. , Inc. ;Surfside, CA ;The Demonstration and Standardization of a Method for Monitoring the Ecological Effects of Marine Waste Discharges ;Calif State Water Res Control Board ;1974(Apr), Publication No. 54,96p. ;English

Citation 38

Biospherics Inc. ;Rockville, MD ;Study of the Possible Role of Pollution in the Prevalence of Sea Nettles in the Chesapeake Bay and the Development of a Census Taking Method ;Biospherics, Inc. ;1971(Oct), Final Rep. NASW-2115,135p. ;English

Citation 39

Black, R. ;Fisheries Research Board of Canada, St. John's (Newfoundland), Biological Station ;Growth Rates of Intertidal Molluscs as Indicators of Effects of Unexpected Incidents of Pollution ;J Fish Res Board Can ;1973,30(9),1385-1388. ;English

Citation 40

Bleecker, A. L. ;Rutgers-the State Univ. , New Brunswick, NJ ;Primary Productivity in Raritan Bay and its Relationship to Pollution ;Rutgers-the State Univ. ;1971, PhD Dissertation. ;English

Citation 41

Blumberg, A. ;National Oceanic and Atmospheric Administration, Princeton, NJ, Geophysical Fluid Dynamics Lab ;Numerical Tidal Model of Chesapeake Bay ;NOAA ;1977(Jan), NOAA 04-022-33,1-10. ;English

Citation 42

Blumberg, A. F. ;National Oceanic and Atmospheric Administration, Princeton, NJ, Geophysical Fluid Dynamics Lab. ;On the Dynamic

- Balance of the Chesapeake Bay Waters ;Chesapeake Sci ;1977(Sept), 18(3), 319-323. ;English Citation 43
- Bowden, William B. , John E. Hobbie ;North Carolina State Univ. , Raleigh. Dept. of Zoology, NC ;Nutrients in Albemarle Sound, North Carolina ;Sea Grant pub. ;1977(Apr), UNC-SG-75-25, 202p. ;English Citation 44
- Bower, C. E. , J. P. Bidwell ;Sea Research Foundation, West Hartford, CT, Inst. for Aquarium Studies ;Ionization of Ammonia in Seawater: Effects of Temperature, pH, and Salinity ;J Fish Res Board Can ;1978, 35, 1012-1016. ;English Citation 45
- Bray, J. T. ;Johns Hopkins Univ. , Baltimore, MD ;Behavior of Phosphate in the Interstitial Waters of Chesapeake Bay Sediments ;Johns Hopkins Univ. ;1973, Rep. COO-3292-7, 167p. ;English Citation 46
- Bray, J. T. , O. P. Bricker, B. N. Troup ;Dept. of Earth and Planetary Sciences, Johns Hopkins Univ. , Baltimore, MD 21218 ;Phosphate in Interstitial Waters of Anoxic Sediments: Oxidation Effects during Sampling Procedure ;Science ;1973, 80, 1362-1364. ;English Citation 47
- Brehmer, Morris L. , Samuel O. Haltiwanger ;Virginia Inst. of Marine Science, Gloucester Point, VA ;A Biological and Chemical Study of the Tidal James River ;VIMS, SRAMSOE ;1966(Nov), No. 6, 104p. ;English Citation 48
- Brezonik, Patrick L. ;Dept. of Environmental Engineering, Univ. of Florida, Gainesville, FL ;Nitrogen: Sources and Transformations in Natural Waters ;In: Nutrients in Natural Waters, Wiley-Interscience, Div. of John Wiley and Sons, Inc. NY, NY ;1972, Chapt. 1. ;English Citation 49
- Brezonik, Patrick L. ;US Environmental Protection Agency ;Nitrogen Sources,

- Cycling in Natural Waters ;US EPA ;1973 (July), EPA 660/3-73-002
;English
- Citation 50
- Brindle, J. R., M. D'Amours ;Universite du Quebec a Rimouski, Que.
(Canada), Section d'Oceanographic ;Seasonal Distribution of Nutrients
in the Vicinity of Rimouski ;Cah Inf Sect Oceanogr Univ Que Rimouski
;1977(Nov), No. 1,39p. ;French
- Citation 51
- Brinn, David G. ;British Steel Corp. , England, Strip Mills Div. ;A
Select Bibliography on Pollution of Estuaries and Coastal Waters with
Particular Regard to Industrial Effluents ;BISRA, London ;1972(Aug),
SM/BIB/785,6p. ;English
- Citation 52
- Bristow, J. W. , A. A. Crowder, M. R. King, S. Vanderkloet
;Queen's Univ. , Kingston (Ontario), Dept. of Biology ;The Growth
of Aquatic Macrophytes in the Bay of Quinte Prior to Phosphate Removal
by Tertiary Sewage Treatment (1975-1976) ;Le Nat Can ;1977,104,465-473.
;English
- Citation 53
- Brooks, Keith M. ;Interstate Commission on the Potomac River Basin,
Bethesda, MD ;Critical Areas in the Potomac River Basin: A Mid-1977
Review of Water Pollution Control ;Interstate Commission on the Potomac
River Basin, Bethesda, MD ;1977(Dec), Technical Pub. 77-3,83p.
;English
- Citation 54
- Brown, L. , E. G. Bellinger ;Victoria Univ. of Manchester (England),
Pollution Research Unit ;Nitrate Determination in Fresh and Some
Estuarine Waters by Ultraviolet Light Absorption: a New Proposed
Method ;Water Res ;1978,12(4),223-229. ;English
- Citation 55
- Brown, R. J. ;National Technical Information Service, 5285 Port Royal Rd.
, Springfield, VA ;Sewage Effects in Marine and Estuarine

Environments. Volume 2.1977-May 1978 ;NTIS ;1978, NTIS/PS-78/0559,55p. ;English

Citation 56

Brown, Robena J. ;National Technical Information Service, 5285 Port Royal Rd. , Springfield, VA 22161 ;Water Pollution in Estuaries and Coastal Zones (A Bibliography with Abstracts) ;NTIS ;1975(Sept), NTIS/PS-75/698 ;English

Citation 57

Brown, Robena J. ;National Technical Information Service, 5285 Port Royal Rd. , Springfield, VA 22161 ;Water Pollution in Estuaries and Coastal Zones, Vol. 2,1975-Sept 1976 ;NTIS ;1976(Nov), NTIS/PS-76/0852 ;English

Citation 58

Buck, J. D. ;Connecticut Univ. , Storrs Inst. of Water Resources ;Sedimentation and Microbial Metabolism in a Shallow Estuary ;OWRT ;1978, Completion Rep. OWRT A-069-CONN(1)/14-31-001-6007,27p. ;English

Citation 59

Burkholder, Paul R. , Lillian M. Burkholder ;Dept. of Bacteriology, Univ. of Georgia, Athens, GA ;Vitamin B12 in Suspended Solids and Marsh Muds Collected Along the Coast of Georgia ;Limnol Oceanogr ;1956,1(3),202-208. ;English

Citation 60

Buttermore, R. E. ;Univ. of Tasmania, Dept. of Zoology, G. P. O. Box 252C, ; Hobart, Tasmania, 7001, Australia ;Eutrophication of an Impounded Estuarine Lagoon ;Mar Pollut Bull ;1977(Jan),8(1),13-15. ;English

Citation 61

Califf, J. M. , Jr. ;Stanford Univ. , Stanford, CA, Dept. of Civil Engineering ;An Approach for Involving Local Officials and Citizens in Regional Water Quality Studies ;Engineering-Economic Planning Program ;1971, Publication No. EEP-44,197p. ;English

Citation 62

California Univ. ;San Diego, La Jolla, Inst. of Marine Resources ;Eutrophication in Coastal Waters: Nitrogen as a Controlling Factor

;US Environmental Protection Agency ;1971(Dec), Water Pollut Contr Res Ser EPA 16010 EHC 12/71,67p. ;English

Citation 63

Cambridge, M. I. ;Western Australia Univ. , Nedlands, Dept. of Botany ;Seagrasses of South-Western Australia with Special Reference to the Ecology of *Posidonia australis* Hook F. in a Polluted Environment ;Aquatic Bot ;1975(June),1(2),149-161. ;English

Citation 64

Caperon, John, S. A. Cattell, George Krasnick ;Hawaii Inst. of Marine Biology, P. O. Box 1346, Kaneohe 96744 ;Phytoplankton Kinetics in a Subtropical Estuary: Eutrophication ;Limnol Oceanogr ;1971,16(4),599-607. ;English

Citation 65

Caperon, John, Wayne A. Harvey, Frances A. Steinhilper ;Univ. of Hawaii, Dept. of Oceanography, Correa Road, Honolulu, HI 96822 ;Particulate Organic Carbon, Nitrogen, and Chlorophyll as Measures of Phytoplankton and Detritus Standing Crops in Kaneohe Bay, Oahu, Hawaiian Islands ;Pac Sci ;1976,30(4),317-327. ;English

Citation 66

Carpenter, Edward J. ;Woods Hole Oceanographic Inst. , MA ;Effects of Phosphorus Mining Wastes on the Growth of Phytoplankton in the Pamlico River Estuary ;Chesapeake Sci ;1971,12(2),85-94. ;English

Citation 67

Carpenter, J. H. , D. W. Pritchard, R. C. Whaley ;Chesapeake Bay Inst. , Johns Hopkins Univ. , Baltimore, MD ;Observations of Eutrophication and Nutrient Cycles in Some Coastal Plain Estuaries ;Johns Hopkins Univ, (CBI), or IN: Eutrophication, Proc. Symp. Sherry, Sol et al. (edited by). National Research Council. Publ No. 1706 Thrombosis. x + 762p. illus. National Academy of Sciences: Washington, DC, 1969 ;1969, CBI Contribution No. 108,210-221. ;English

Citation 68

Carter, H. H. , R. J. Regier ;Marine Sciences Research Center, State Univ. of New York, Stony Brook, NY 11794 ;A Physical Assessment of the Maryland Coastal Waters to Receive Wastewater ;Chesapeake Bay Inst.

, The Johns Hopkins Univ. ;1978(May), Special Rep. 62,92p.
;English

Citation 69

Chan, Kwong-yu, K. H. Wong, P. K. Wong ;Dept. of Biology and Dept. of Chemistry, The Chinese Univ. of Hong Kong, Shatin, NT, Hong Kong ;Nitrogen and Phosphorus Removal from Sewage Effluent with High Salinity by Chlorella salina ;Environ Pollut ;1979,18,139- ;English

Citation 70

Chapman, A. R. O. , J. W. Markham, K. Luning ;Dept. of Biology, Dalhousie Univ. , Halifax, Nova Scotia, Canada B3H 4J1 ;Effects of Nitrate Concentration on the Growth and Physiology of Laminaria saccharina (Phaeophyta) in Culture ;J Phycol ;1978,14(2),195-198.
;English

Citation 71

Chen, Carl W. , Gerald T. Orlob ;Water Resources Engineers, Inc. , Walnut Creek, CA ;Ecologic Simulation for Aquatic Environments ;Water Resources Engineers, Inc. ;1972 (Dec), Final Rep. No. 1-0500,168p.
;English

Citation 72

Chesapeake Research Consortium, Inc. ;Baltimore, MD ;Annual Technical Report, Volume V. Emissions and Additions: Biological Transfers and Effects of Waste Components ;CRC ;1973(May), CRC-PUB-24, NSF/RA/E-73/513,169p. ;English

Citation 73

Chesapeake Research Consortium, Inc. ;1419 Forest Drive, Suite 207, Annapolis, MD 21403 ;Chesapeake Bay Baseline Data Acquisition, Appendix IV. Eutrophication ;CRC ;1978(Aug),347p. ;English

Citation 74

Chesapeake Research Consortium, Inc. ;1419 Forest Drive, Suite 207, Annapolis, MD 21403 ;Chesapeake Bay Baseline Data Acquisition, Appendix. VII. Modification of Fisheries ;US EPA ;1978(Sept), EPA/903/9-78/027,289p. ;English

Citation 75

Christian, Robert R. , Richard L. Wetzel ;Dept. of Biological Sciences, Drexel Univ. , Philadelphia, PA ;Interaction between Substrate, Microbes, and Consumers of Spartina Detritus in Estuaries ;In:

Estuarine Interactions, edited by Martin L. Wiley, Academic Press ;1978,93-113. ;English

Citation 76

Christie, N. D. , A. Modlan ;Cape Town Univ. (South Africa), Dept. of Zoology; and Dept. of Planning and the Environment, Capetown (South Africa) ;Effects of Fish Factory Effluent on the Benthic Macrofauna of Saldanha Bay ;Mar Pollut Bull ;1977(Feb),8(2),41-45. ;English

Citation 77

Clark, John, W. G. Smith, Arthur W. Kendall, Jr. , Michael P. Fahay ;National Marine Fisheries Service, Highlands, NJ, Sandy Hook Marine Lab. ;Studies of Estuarine Dependence of Atlantic Coastal Fishes ;Bureau Sport Fish Wildl ;1969(Aug), Technical Paper No. 28,132p. ;English

Citation 78

Clark, L. J. , K. D. Feigner ;US Environmental Protection Agency, Annapolis Field Service Office, Annapolis, MD ;Mathematical Model Studies of Water Quality in the Potomac Estuary ;US EPA ;1972(Mar), Technical Rep. No. 33,174p. ;English

Citation 79

Clark, Leo J. , Daniel K. Donnelly, Orterio Villa Jr ;US Environmental Protection Agency, Annapolis, MD, Annapolis Field Office ;Summary and Conclusions from the Forthcoming Technical Report 56. Nutrient Enrichment and Control Requirements in the Upper Chesapeake Bay ;U S EPA ;1973 (Aug), EPA-903/9-73-002-a, 94p. ;English

Citation 80

Clark, Leo J. , Norbert A. Jaworski ;US Environmental Protection Agency, Annapolis, MD, Annapolis Field Office ;Nutrient Transport and Dissolved Oxygen Budget Studies in the Potomac Estuary ;U S EPA ;1972 (Oct), Technical Rep. No. TR-37,50p. ;English

Citation 81

Clark, Leo J. , Stephen E. Roesch ;US Environmental Protection Agency, Annapolis, MD, Annapolis Field Office ;Assessment of 1977 Water

- Quality Conditions in the Upper Potomac Estuary ;US EPA ;1978(July),
EPA/903/9-78/008,83p. ;English
- Citation 82
- Cochrane, John J. , Constantine J. Gregory, Gerald L. Aronson
;Northeastern Univ. , Boston, MA ;Water Resources Potential of an
Urban Estuary. (Saugus River, Pines River and Lynn Harbor Complex) ;
;1970 (June), NTIS PB-197 991,110p. ;English
- Citation 83
- Collett, W. F. ;Forth River Purification Board, Langgarth, Scotland ;The
Control of Estuarine Pollution ;Chem Ind (Lond) ;1967(Jan 7),25-29.
;English
- Citation 84
- Collias, Eugene E. , Svetlana I. Andreeva ;Univ. of Washington, Dept.
of Oceanography, WA ;Puget Sound Marine Environment an Annotated
Bibliography ;Univ. of Washington ;1977,392p. ;English
- Citation 85
- Collins, N. R. ;Gloucester, Eng. ;Environmental Planning with Particular
Reference to Water ;Water Pollut Control ;1978,77(2),211-218. ;English
- Citation 86
- Cooper, David C. , B. J. Copeland ;Dept. of Biological Sciences, State
Univ. of New York at Binghamton, Binghamton, N Y ;Responses of
Continuous-Series Estuarine Microecosystems to Point -Source Input
Variations ;Ecol Monogr ;1973,43,213-236. ;English
- Citation 87
- Copeland, B. J. ;North Carolina State Univ. , Raleigh, Dept. of
Zoology ;Nutrients and Eutrophication in the Pamlico River Estuary, NC
- Preliminary Results, 1971-72 ;WRRI North Carolina ;1972(Nov),
Interim Rep. , 23p. ;English
- Citation 88
- Copeland, B. J. , Donald E. Wohlschlag ;Univ. of Texas, Marine Science
Inst. , Port Aransas, TX ;Biological responses to nutrients --
eutrophication: Saline water considerations. Advances in Water
Quality Improvement. Water Resources Symposium No. I. Papers.
Gloyna, Ernest F. and Eckefelder, W. Wesley, (Held in Austin,
Tex. , April 1966.) Sponsored by Univ. of Texas, Center for

Research in Resources, Austin ;Univ. of Texas Press, Austin ;1968,65,82. ;English

Citation 89

Copeland, B. J. , H. Lee Davis ;Dept. of Zoology, North Carolina State Univ. , Raleigh, NC ;Estuarine Ecosystems and High Temperatures ;WRRI UNC ;1972(June), UNC-WRRI-72-68 or UNC Contribution No. 29,90p. ;English

Citation 90

Copeland, B. J. , John E. Hobbie ;North Carolina State Univ. , Dept. of Zoology, Raleigh, NC ;Phosphorus and Eutrophication in the Pamlico River Estuary, NC ;North Carolina Water Resourc. Res. Inst. , Raleigh, N C ;1972 (Mar), UNC-WRRI-72-65,95p. ;English

Citation 91

Correll, D. L. ;Chesapeake Bay Center for Environmental Studies, Box 28, Edgewater, MD 21037 ;Estuarine Productivity ;BioScience ;1978,28,646-450. ;English

Citation 92

Correll, D. L. , M. A. Faust, J. W. Pierce, J. Stevenson, K. Lomax ;Chesapeake Bay Center for Environmental Studies, Box 28, Edgewater, Md 21037 ;A Quantitative Study of the Diffuse Source Loadings of Chesapeake Bay, (Progress Report) ;Chesapeake Bay Research Consortium, Inc. ;1976(Nov), Rep. No. NSF/RA-761357,13p. ;English

Citation 93

Cory, R. L. ;Geological Survey, Edgewater, MD ;Changes in Oxygen and Primary Production of the Patuxent Estuary, Maryland, 1963 Through 1969 ;Chesapeake Sci ;1974(June),15(2),78-83. ;English

Citation 94

Cox, D. C. , P. R. Fan, K. E. Chave, R. I. Clutter, K. R. Gundersen ;Hawaii Univ. , Honolulu, Water Resources Research Center ;Estuarine Pollution in the State of Hawaii, Volume 2: Kaneohe Bay Study ;WRRC Hawaii ;1973(Nov), Technical Rep. No. 31,444p. ;English

Citation 95

Craig, N. J. , J. W. Day, Jr. ;Louisiana State Univ. , Baton Rouge, Center for Wetlands Resources ;Barataria Basin: Eutrophication Case

- History ;Louisiana State Univ. , Center for Wetlands Resources ;1976(June),27p. ;English Citation 96
- Craig, N. J. , J. W. Day, Jr. ;Louisiana State Univ. , Baton Rouge, Center for Wetlands Resources ;Cumulative Impact Studies in the Louisiana Coastal Zone; Eutrophication; Land Loss ;Louisiana State Univ. , Center for Wetlands Resources ;1977(June),166p. ;English Citation 97
- Crim, R. I. , N. L. Lovelace ;US Environmental Protection Agency, Annapolis, MD, Annapolis Field Office ;Auto-Qual Modelling System ;US EPA ;1973(Mar), Technical Rep. 54,301p. ;English Citation 98
- Crouzet, P. , C. Beaupoil ; ;Study of the Restoration of the Laita River, Methodology Approach to the Restoration of a Polluted Estuary ;Rev Int Oceanogr Med ;1978,50,37-42. ;French Citation 99
- Custer, Stephen W. , Richard G. Krutchkoff ;Virginia Polytechnic Inst. , Blacksburg, VA ;Stochastic Model for BOD and DO in Estuaries ;J San Eng Div Am Soc Civ Eng ;1969(Oct),95(SA5),865-886. ;English Citation 100
- Dahl-Madsen, K. I. ;Water Quality Inst. , Horsholm, Denmark ;Mathematical Modeling of Eutrophied Coastal Areas ;Prog Water Technol ;1978,10(5-6),217-235. ;English Citation 101
- Daiber, Franklin C. ;Delaware Univ. , Newark, College of Marine Studies ;Flushing Pattern of Certain Tidal Streams in Delaware ;Delaware Univ. ;1972 (Jan), Completion Rep. July 66-June 70,48p. ;English Citation 102
- Davis, E. M. , W. W. Eckenfelder ;Texas Univ. , Austin ;Estuarine Measurements for Productivity and Evaluation of System Waste Discharge

Effects ;In: Fifth International Water Pollution Conference, San Francisco, July 26-Aug 1, 1970 ;1970, 9p. ;English

Citation 103

Davis, G. J. ;East Carolina Univ. , Greenville, NC 27834 ;Seasonal Changes of Rooted Water Plants of the Pamlico River Estuary ;WRRI North Carolina ;1975, Annual Rep. , 51p. ;English

Citation 104

Davis, G. J. , M. M. Brinson, W. A. Burke ;East Carolina Univ. , Greenville, NC 27834, Dept. of Biology;Organic Carbon and Deoxygenation in the Pamlico River Estuary ;WRRI North Carolina (Raleigh) ;1978(Jan), UNC-WRRI-78-131, 123p. ;English

Citation 105

Day, John W. , Jr. , Charles M. Weiss, H. T. Odum ;Institute for Environmental Health Studies, Morehead City, NC ;Carbon Budget and Total Productivity of an Estuarine Oxidation Pond Receiving Secondary Sewage Effluent ;2nd International Symposium for Waste Treatment Lagoons, 23- 25(June)1970, Kansas City, Missouri ;1970, 100-113. ;English

Citation 106

Dean, David, Michael A. Mayurkiewicz ;Maine Univ, Walpole, Ira C. Darling Center for Research, Teaching and Service ;Water Quality - Benthic Invertebrate Relationships in Estuaries ;Maine Univ. ;1970(June), Completion Rep. , 31p. ;English

Citation 107

DeCoursey, P. J. , W. B. Vernberg ;South Carolina Univ. , Columbia, Belle W. Baruch Coastal Research Inst. ;The Effect of Dredging in a Polluted Estuary on the Physiology of Larval Zooplankton ;Water Res ;1975(Feb), 9(2), 149-154. ;English

Citation 108

Deltreil, Jean-Pierre, Michelle Feuillet, Guy Archambeau ; ;Etude Experimentale de la Fertilisation Phosphatee dans les Claires a Huitres ;Rev Trav Inst Peches Marit ;1977, 41(3), 283-297. ;French

Citation 109

Denn, M. M. , R. K. Jain ;Delaware Univ. , Newark, Dept. of Chemical Engineering ;Control of BOD Upsets in the Delaware Estuary

;Delaware Univ. ;1974(Nov), Completion Rep. OWRR A-024-DEL(1),87p.
;English

Citation 110

DeNoyelles, F. , W. J. O'Brien ; ;Phytoplankton Succession in Nutrient Enrichment Experimental Ponds as Related to Changing Carbon, Nitrogen and Phosphorus Conditions ;Archiv fur Hydrobiol ;1978,84(2),137-165.
;English

Citation 111

Department of the Environment ;London ;Biological Indicators of Estuarine Pollution-Research and Application. Report of a Seminar, London, June 1976 ;Dept. of the Environment and Transport ;1978, Research Rep. No. 22,79p. ;English

Citation 112

Ditsworth, George R. ;Federal Water Pollution Control Administration, Northwest Region, Pacific Northwest Water Laboratory, Corvallis, OR ;Environmental Factors in Coastal and Estuarine Waters: Bibliographic Series - Volume II. Coast of Washington ;Fed Water Pollut Control Admin ;1968(Aug). ;English

Citation 113

Duedall, I. W. , H. B. O'Connors , J. H. Parker , R. E. Wilson ; A. S. Robbins ;Marine Sciences Research Center, State University of New York, Stony Brook, N Y 11794 ;The Abundances, Distribution and Flux of Nutrients and Chlorophyll a in the New York Bight Apex ;Estuarine Coastal Mar Sci ;1977,5,81-105. ;English

Citation 114

Duke, Thomas W. , Anatolity I. Simonov ;Environmental Research Lab, Gulf Breeze, FL ;American-Soviet Symposium on the Biological Effects of Pollution on Marine Organisms (1st) ;US Environmental Protection Agency ;1978, EPA/600/09-78/007,176p. ;English

Citation 115

Dunstan, William M. ;Woods Hole Oceanographic Institution, Woods Hole, MA ;Problems of Measuring and Predicting Influence of Effluents on Marine Phytoplankton ;Environ Sci Technol ;1975,9,635-638. ;English

Citation 116

Dunstan, William M. , David W. Menzel ;Woods Hole Oceanographic Institution, Woods Hole, MA 02543 ;Continuous Cultures of Natural

Populations of Phytoplankton in Dilute, Treated Sewage Effluent ;Limnol Oceanogr ;1971(July),16(4),623-632. ;English

Citation 117

Duxbury, Alyn C. ;Dept. of Oceanography, U. of Washington, Seattle 98195 ;Orthophosphate and Dissolved Oxygen in Puget Sound ;Limnol Oceanogr ;1975,20(2),270-274. ;English

Citation 118

Edwards, Arthur P. ;Cold Regions Research and Engineering Lab Hanover, NH ;A Guide to the Use of ^{14}N in Environmental Research ;Cold Regions Res Eng Lab, NH ;1978(Sept), CRREL-SR-78-8,77p. ;English

Citation 119

Edwards, P. ;Durham Univ. (England), Dept. of Botany ;Benthic Algae in Polluted Estuaries ;Mar Pollut Bull ;1972(Apr),3(4),55-60. ;English

Citation 120

Edwards, P. ;Durham Univ. (England), Dept. of Botany ;An Assessment of Possible Pollution Effects over a Century of the Benthic Marine Algae of CO, Durham, England ;Bot J Linn Soc ;1975,70(4),269-305. ;English

Citation 121

Ehrhardt, Manfred, Ju Heinemann ;Rgen. Meereskunde Inst, W Germany ;Hydrocarbons in Blue Mussels from the Kiel Bight ;Environ Pollut ;1975(Dec),9(4),263-283. ;English

Citation 122

Ehrhardt, J. P. ;Serv. Mixte de Controle Biol. , BP 16,91310 Montlhery, France ;Techniques for Studying Biological Modifications Caused by Coastal Restructurations ;Rev Int Oceanogr Med ;1978,50,11-19. ;French

Citation 123

Eisermann, John L. , J. Douglas Smith ; ;Selective Nutrient Removal from Secondary Effluent ;Office of Research and Development, US Environmental Protection Agency, Washington, D. C. 20460 ;1973(Sept), EPA-670/2-73-076,155p. ;English

Citation 124

El-Sabh, Mohammed, I. , E. Bourget, M. J. Bewers, J. C. Dionne ;Departement d'Oceanographie, Universite du Quebec a Rimouski ;Oceanography of the St. Lawrence Estuary ;Naturaliste canadien

(publication of Symposium on the Oceanography of the St. Lawrence Estuary, Universite du Quebec a Rimouski, April 12-14, 1978) ;1979(Jan/Feb),18 papers and a bibliography. ;English

Citation 125

Eleuterius, C. K. ;Gulf Coast Research Lab, Ocean Springs, MS ;Mississippi Sound Temporal and Spatial Distribution of Nutrients ;Mississippi-Alabama Sea Grant Consortium ;1976, MA SGP-76-024,66p. ;English

Citation 126

Engler, R. M. , D. A. Antie, W. H. Patrick, Jr. ;Research Soil Scientist, Dep. of the Army, Corps of Eng. , Waterways Exp. Stn. , Environ. Effects Lab. , Vicksburg, MS 39180 ;Effect of Dissolved Oxygen on Redox Potential and Nitrate Removal in Flooded Swamp and Marsh Soils ;J Environ Qual ;1976,5(3),230-235. ;English

Citation 127

Engler, R. M. , W. H. Patrick, Jr. ;Research Soil Scientist, Dept. of Army, Corps of Engineers, Waterways Experiment Station, Environmental Effects Lab. , Vicksburg, MS 39180 ;Nitrate Removal from Floodwater Overlying Flooded Soils and Sediments ;J Environ Qual ;1974,3(4),409-413. ;English

Citation 128

Eppley, R. W. , C. Sapienza, E. H. Renger ;Institute of Marine Resources A-018 University of California, San Diego, La Jolla, CA 92093 ;Gradients in Phytoplankton Stocks and Nutrients off Southern California in 1974-76 ;Estuarine Coastal Mar Sci ;1978,7,291-301. ;English

Citation 129

Eppley, Richard W. ;Institute of Marine Resources, Scripps Institute of Oceanography, University of California, San Diego, CA ;Eutrophication in Coastal Waters: Nitrogen as a Controlling Factor ;1971,16010 EHC , 67p. ;English

Citation 130

Fahy, Edward , Roger Goodwillie, John Rochford, Kelly David ;Natl Inst for Physical Planning, Waterloo Rd, Dublin 4 Eire, Ireland

;Eutrophication of a Partially Enclosed Estuarine Mudflat ;Mar Pollut Bull ;1975 (Feb),6 (2),29. ;English

Citation 131

Fanning, K. A. , M. E. Q. Pilson ;University of South Florida, St. Petersburg, Marine Science Inst. ;The Lack of Inorganic Removal of Dissolved Silica During River- Ocean Mixing ;Geochim Cosmochim Acta ;1973,37(11),2405-2415. ;English

Citation 132

Farmer, R. C. , W. R. Waldrop, F. H. Pitts, K. R. Shah ;Louisiana State Univ. , Baton Rouge, Dept. of Chemical Engineering ;Development of a Three-Dimensional Time-Dependent Flow Field Model ;NASA ;1975(Jan), NASA-CR-120762,88p. ;English

Citation 133

Faust, M. A. , D. L. Correll ;Smithsonian Institution, Edgewater, MD, Chesapeake Bay Center for Environmental Studies ;Comparison of Bacterial and Algal Utilization of Orthophosphate in an Estuarine Environment ;Mar Biol ;1976,34(2),151-162. ;English

Citation 134

Federal Water Pollution Control Administration ;Philadelphia, PA ;Delaware Estuary Comprehensive Study Preliminary Report and Findings ;Fed Water Pollut Control Admin ;1966(July),113p. ;English

Citation 135

Ferguson, R. L. , M. B. Murdoch ;National Marine Fisheries Service, Beaufort, NC, Atlantic Estuarine Fisheries Center ;Microbial ATP and Organic Carbon in Sediments of the Newport River Estuary, North Carolina ;Estuarine Res ;1975,1,229-250. ;English

Citation 136

Finger, James H. , T. Allen Wastler ;Tampa-Hillsborough Bay Technical Assistance Project, Tampa, FL, and Federal Water Pollution Control Administration, Washington, DC, Office of Estuarine Studies ;Organic Carbon-Organic Nitrogen Ratios of Sediments in a Polluted Estuary ;J Water Pollut Control Fed ;1969(Feb),41(2), R101-109. ;English

Citation 137

Finnish Marine Research ;Inst. of Marine Research, P. O. Box 14 166, SF-00141, Helsinki 14, Finland ;Proceedings of the Finnish-Swedish

Seminar on the Gulf of Bothnia VAASA, Finland, March 8th-9th, 1978 ;Finnish Marine Res ;1978, No. 244,236p. ;English

Citation 138

Fish, R. , J. Savage ;Partners, UK ;An Outline Scheme for Reuse of Mogden Sewage Effluent ;Water Serv ;1974 (Sep),78 (943),300. ;English

Citation 139

Fisher, W. S. ;California Univ. , Bodega Bay, Bodega Marine Lab ;Relationships on Epibiotic Fouling and Mortalities of Eggs of the Dungeness Crab (*Cancer magister*) ;J Fish Res Board Can ;1976,33,2849-2853. ;English

Citation 140

Flemer, D. A. , D. R. Heinle ;Maryland Univ. , Solomons, Chesapeake Biological Lab ;Effects of Waste Water on Estuarine Ecosystems ;Chesapeake Research Consortium, Inc. ;1974, CRC Publication No. 33,16p. ;English

Citation 141

Flemer, David A. , Heyward D. Hamilton, Carolyn W. Keefe, Joseph A. Mihursky ;Maryland Univ. , Solomons, Natural Resources Inst. ;The Effects of Thermal Loading and Water Quality on Estuarine Primary Production ;NRI Maryland ;1970 (Dec), NRI-REF-71-6,223p. ;English

Citation 142

Flint, K. P. , J. W. Hopton ;Dep. Microbiol. , Univ. Birmingham, Birmingham, Engl. ;Seasonal Variation in the Phosphatase Activity of Waters and Sewage Sludges ;Eur J Appl Microbiol ;1977,4(3),205-215. ;English

Citation 143

Folkard, A. R. , P. G. W. Jones ;Ministry of Agriculture, Fisheries and Food, Fisheries Lab, Lowestoft, Suffolk, UK ;Distribution of Nutrient Salts in the Southern North Sea during early 1974 ;Mar Pollut Bull ;1974 , 5 (12),181-185. ;English

Citation 144

Foree, Edward G. , Charles Reece Scroggin ;University of Kentucky, Water Resources Institute, Lexington, KY ;Carbon and Nitrogen as Regulators

of Algal Growth in Treated Sewage ;WRI Kentucky ;1972, Research Rep. No. 49,60p. ;English

Citation 145

Frecker, Maxine F. , Charles C. Davis ;Dept. of Biology, Queen's University, Kingston, Ontario, Canada ;Man-made Eutrophication in a Newfoundland (Canada) Harbour ;Int Revue ges Hydrobiol ;1975,60(3),379-392. ;English

Citation 146

Freemantle, M. H. , N. Hulings , M. Mulqi , E. C. Watton ;Faculty of Science, Univ. of Jordan, Amman, Jordan ;Calcium and Phosphate in the Jordan Gulf of Aqaba ;Mar Pollut Bull ;1978,9(3),79-80. ;English

Citation 147

Frontier, S. ;Office de la Recherche Scientifique et Technique Outre-Mer, Nosy-Be (Madagascar). Centre Oceanographique (ORSTOM) de Nosy- Be ;Zooplankton of the Region of Nosy-Be: V. Cladocera: Contribution to the Study of a Tropical Eutrophic Bay ;Cah ORSTOM Ser Oceanogr ;1973,11(3),259-272. ;French

Citation 148

Gameson, A. L. H. , I. C. Hart ;Water Pollution Research Lab. , Stevenage (England) ;A Study of Pollution in the Thames Estuary ;Chem Ind (Lond) ;1966(Dec 17),2117-2123. ;English

Citation 149

Gardner, L. R. ;Clemson Univ. , South Carolina Dept. of Chemistry and Geology ;Exchange of Nutrients and Trace Metals Between Marsh Sediments and Estuarine Waters - A Field Study ;WRRI South Carolina ;1976(Sept), Report No. 63,95p. ;English

Citation 150

Gardner, W. S. , J. A. Stephens ; ;Stability and Composition of Terrestrially Derived Dissolved Organic Nitrogen in Continental Shelf Surface Waters ;Mar Chem ;1978,6(4),335-342. ;English

Citation 151

Genovese, S. ;Institut d'Hydrobiologie, Universite de Messine, Italie

;Eutrophication Recent Directions for New Perspectives ;Rev Int Oceanogr Med ;1973,29,53-61. ;English

Citation 152

Gieskes, W. W. C. , A. J. van Bennekom ;Netherlands Institute for Sea Research, Texel, Netherlands ;Unreliability of the ^{14}C method for Estimating Primary Productivity in Eutrophic Dutch Coastal Waters ;Limnol Oceanogr ;1973,18(3),494-495. ;English

Citation 153

Gieskes, W. W. C. , G. W. Kraay ;Netherlands Inst. Sea Res. , Texel, Netherlands ;Continuous Plankton Records: Changes in the Plankton of the North Sea and its Eutrophic Southern Bight from 1948 to 1975 ;Neth J Sea Res ;1977,11(3-4),334-364. ;English

Citation 154

Giles, M. S. ;Australian Atomic Energy Commission Research Establishment, Lucas Heights ;A Study of the Movement of Phosphorous in the Little River Estuary, NSW ;Aust Atomic Energy Comm Res Estab ;1972(Oct), Rep. AAEC/TM-616,22p. ;English

Citation 155

Gilmartin, Malvern, Noelia Revelante ;Center for Marine Studies, University of Maine, Orono, ME 04473 ;The Phytoplankton Characteristics of the Barrier Island Lagoons of the Gulf of California ;Estuarine Coast Mar Sci ;1978,7,29-47. ;English

Citation 156

Gleeson, Sandra A. , Jane F. Stauble ;Virginia Institute of Marine Science, Gloucester Pt. , Virginia 23062 ;The Chesapeake Bay Bibliography, Vol. 4, Virginia Waters ;VIMS ;1976(Dec), Special Sci. Rep. No. 80. ;English

Citation 157

Goering, John J. ;Institute of Marine Science, Univ. of Alaska, College, AL ;The Role of Nitrogen in Eutrophic Processes ;In: Water Pollution Microbiology. Edited by Ralph Mitchell. Wiley- Interscience ;1972, Chapt. 3,43-68. ;English

Citation 158

Goldberg, Edward D. , John J. Griffin, Vern Hodge, Minora Koide ;Geol. Res. Div. , Scripps Inst. Oceanogr. , La Jolla, CA ;The

Pollution History of the Savannah River Estuary ;Scripps Inst. Oceanogr. ;1978, NUREG CR0082, 42p. ;English

Citation 159

Goldman, Charles R. , James McEvoy III, Peter J. Richerson ;University of California, Davis ;Environmental Quality and Water Development ;W. H. Freeman and Company, 660 Market Street, San Francisco, CA 94104 ;1973, 500p. ;English

Citation 160

Goldman, J. C. ;Woods Hole Oceanographic Institution, MA ;Identification of Nitrogen as a Growth-Limiting Nutrient in Waste-Waters and Coastal Marine Waters Through Continuous Culture Algal Assays ;Water Res ;1976, 10(2), 97-104. ;English

Citation 161

Goldman, J. C. , K. R. Tenore, H. I. Stanley ;Woods Hole Oceanographic Institution, MA ;Inorganic Nitrogen Removal from Wastewater: Effect on Phytoplankton Growth in Coastal Marine Waters ;Science ;1973(June), 180(4089), 955-956. ;English

Citation 162

Golovkin, A. N. , G. P. Garkavaya, I. V. Churbanova ;Murmanskii Morskoi Biologicheskii Institut (USSR) ;Influence of Mussel Metabolites on the Dynamics of Nutrients in the Coastal Waters of the Eastern Murman Coast ;Okeanologiya ;1976, 16(3), 451-456. ;Russian

Citation 163

Gould, D. J. , M. R. Fletcher ;Water Research Centre, Stevenage Laboratory, Elder Way, Stevenage, England ;Gull Droppings and Their Effects on Water Quality ;Water Res ;1978, 12, 665-672. ;English

Citation 164

Goulder, R. ;Department of Plant Biology, University of Hull, England ;Attached and Free Bacteria in an Estuary with Abundant Suspended Solids ;J Appl Bacteriol ;1977, 43(3), 399-405. ;English

Citation 165

Gradl, T. ;Kiel Univ. (West Germany), Institut fuer Meereskunde ;Enzymatic

- in situ Measurements: New Seawater and Sediment Measurement Methods ;Kiel Meeresforsch ;1974,30(1),1-11. ;German
- Citation 166
- Graef, W. ; Myxobacteria of the Myxococcus Group as Indirect Indicators of Fecal Matter in Surface Water: 1. Communication ;Zentralbl Bakteriol Parasitenkd Infektionskr Hyg Erste Abt Orig Reihe B Hyg Praev Med. ;1975,160(1),28-39. ;German
- Citation 167
- Gray, J. S. ;Leeds Univ. (England), Wellcome Marine Lab ;The Fauna of the Polluted River Tees Estuary ;Estuarine Coast Mar Sci ;1976,4,653-676. ;English
- Citation 168
- Green, Katherine A. ;P. O. Box 13204, El Paso, TX 79912 ;A Conceptual Ecological Model for Chesapeake Bay ;US Dept of Interior, Fish and Wildlife Service, Aquatic Ecosystem Group ;1977, Order No. SFWB 144807,36p. ;English
- Citation 169
- Grenney, W. J. , D. A. Bella, H. C. Curl ;Utah Water Research Lab. , Logan ;Effects of Intracellular Nutrient Pools on Growth Dynamics of Phytoplankton ;J Water Pollut Control Fed ;1974(July),46(7),1751-1760. ;English
- Citation 170
- Grenney, William J. , David A. Bella ;Department of Civil Engineering, Oregon State University, Corvallis, OR 97331 ;Field Study and Mathematical Model of the Slack-Water Buildup of a Pollutant in a Tidal River ;Limnol Oceanogr ;1972,17(2),229-236. ;English
- Citation 171
- Gross, F. ;Department of Zoology, University of Edinburgh ;Further Observations on Fish Growth in a Fertilized Sea Loch (Loch Craiglin) ;J Mar Biol Assoc UK ;1949,28,1-8. ;English
- Citation 172
- Grunsfich, Gary S. , Iver W. Duedall ;Marine Sciences Research Center, State University of New York, Stony Brook, NY 11794 ;The

Decomposition of Sewage Sludge in Seawater ;Water Res ;1978,12,535-545.
;English

Citation 173

Guide, Victor , Orterio Villa, Jr. ;US Environmental Protection Agency, Annapolis Field Office, Annapolis, MD ;Chesapeake Bay Nutrient Input Study ;US EPA, Annapolis Field Office ;1972(Sept), Technical Rep. No. 47,118p. ;English

Citation 174

Haas, Leonard William ;The School of Marine Science, The College of William and Mary in Virginia ;Plankton Dynamics in a Temperate Estuary with Observations on a Variable Hydrographic Condition ;VIMS ;1975, PhD Dissertation. ;English

Citation 175

Haertel, Lois , Charles Osterberg , Herbert Curl Jr. , P. Kilho Park ;Dept. of Oceanography, Oregon State University, Corvallis, OR 97331 ;Nutrient and Plankton Ecology of the Columbia River Estuary ;Ecology ;1969,50(6),962-978. ;English

Citation 176

Haines, E. B. ;Georgia Univ. , Sapelo Island, Marine Inst. , ;Nitrogen Content and Acidity of Rain on the Georgia Coast ;Water Resour Bull ;1976(Dec),12(6),1223-1231. ;English

Citation 177

Haines, Evelyn B. ;University of Georgia Marine Institute, Sapelo Island, GA 31327 ;Nitrogen Pools in Georgia Coastal Waters ;Estuaries ;1979(Mar),2(1),34-39. ;English

Citation 178

Hale, Stephen S. ;Graduate School of Oceanography, University of Rhode Island, Kingston, RI ;The Role of Benthic Communities in the Nitrogen and Phosphorus Cycles of an Estuary ;Proceedings of a Symposium "Mineral Cycling in the Southeastern Ecosystems" ;1975, Cof-740513,291-308. ;English

Citation 179

Hallberg, R. D. , L. E. Bagander, A. G. Engvall, M. Lindstron, S. Oden, F. A. Schippe ;ASKO Laboratory, University of Stockholm, Sweden ;The Chemical-Microbiological Dynamics of the Sediment-Water

Interface ;Univ. of Stockholm, Sweden ;1973, Contribution No. 2.
;English

Citation 180

Hampson, B. L. ;Ministry of Agriculture Fisheries and Food, (Lowestoft England) Fisheries Lab ;The Analysis of Ammonia in Polluted Sea Water ;Water Res ;1977, 11(3), 305-308. ;English

Citation 181

Hannah, R. P., A. T. Simmons, G. A. Moshiri ;General Electric Co., Mississippi Test Facilities, Bay St. Louis, MS ;Nutrient-Productivity Relationships in a Bayou Estuary ;J Water Pollut Control Fed ;1973 (Dec), 45 (12), 2508. ;English

Citation 182

Hanson, R. B., K. R. Gundersen ;University of Hawaii, Department of Microbiology, Honolulu, HA 96822 ;Bacterial Nitrogen Fixation in a Polluted Coral Reef Flat Ecosystem, Kaneohe Bay, Oahu, Hawaiian Islands ;Pac Sci ;1976, 30(4), 385-393. ;English

Citation 183

Harleman, D. R. F.; J. E. Dailey, M. Lu. Thatcher, T. O. Najarian, D. N. Brocard ;Massachusetts Inst. of Tech., Cambridge, MA, Dept. of Civil Engineering. ;User's Manual for the M. I. T. Transient Water Quality Network Model - Including Nitrogen-Cycle Dynamics for Rivers and Estuaries ;MIT ;1977(Jan), EPA/600/3-77/010, 263p. ;English

Citation 184

Harris, Richard L. ;Dept. of Chemistry, Univ. of MD ;Processes Affecting the Vertical Distribution of Trace Components in the Chesapeake Bay ;Univ. of MD ;1976, PhD Dissertation. ;English

Citation 185

Harrison, William G., John E. Hobbie ;North Carolina Water Resources Research Inst., Raleigh, NC ;Nitrogen Budget of a North Carolina Estuary ;WRRI North Carolina ;1974(Jan), UNC-WRRI-74-86, 187p. ;English

Citation 186

Harrison, William Glenn North Carolina State Univ. ;Raleigh, Dept. of

Zoology, NC ;Nitrogen Budget of a North Carolina Estuary ;UNC State University ;1974, Doctoral Thesis, 188p. ;English

Citation 187

Hartwig, E. O. ;Johns Hopkins Univ., Baltimore, MD. Chesapeake Bay Inst. ;The Impact of Nitrogen and Phosphorus Release from a Siliceous Sediment on the Overlying Water ;Third International Estuarine Conference, Galveston, TX ;1975(Oct), Paper No. C00-3279-20,33p. ;English

Citation 188

Harvey, Wayne A. , John Caperon ;University of Hawaii, Department of Oceanography, Honolulu, HA 96822 ;The Rate of Utilization of Urea, Ammonium, and Nitrate by Natural Populations of Marine Phytoplankton in a Eutrophic Environment ;Pac Sci ;1976,30(4),329-340. ;English

Citation 189

Hatcher, P. G. , L. E. Keister, P. A. McGillivray ;National Oceanic and Atmospheric Administration, Miami, FL, Atlantic Oceanographic and Meteorological Labs ;Steroids as Sewage Specific Indicators in New York Bight Sediments ;Bull Environ Contam Toxicol ;1977(Apr),17(4),491-498. ;English

Citation 190

Hattori, A. , I. Koike ;Univ. of Tokyo, Ocean Research Inst. , 15-1,1-chome, Minamidai, Tokyo, 164 Japan ;Denitrification and Ammonia Formation in Anaerobic Coastal Sediments ;Appl Environ Microbiol ;1978(Feb),35(2),278-282. ;English

Citation 191

Heck, K. L. , Jr. ;Department of Biological Science, Florida State University; Tallahassee, FL ;Community Structure and the Effects of Pollution in Sea-Grass Meadows and Adjacent Habitats ;Mar Biol ;1976,35,345-357. ;English

Citation 192

Heinle, D. R. , D. A. Flemer, J. F. Ustach, R. A. Murtagh ;Maryland University, Prince Frederick, Center for Environmental and Estuarine Studies, MD ;Contributions of Tidal Wetlands to Estuarine

Food Chains ;Water Resources Research Inst. Maryland ;1975, Technical Rep. No. 29,34p. ;English

Citation 193

Heinle, D. R. , D. A. Flemer ;Univ. of Maryland, Center for Environmental and Estuarine Studies Chesapeake Biological Lab. ; Solomons, MD ;Flows of Material between Poorly Flooded Tidal Marshes and an Estuary ;Mar Biol ;1976,35,359-373. ;English

Citation 194

Heinle, Donald R. , David A. Flemer, Rogers T. Huff, Shelly T. Sulkin, Robert E. Ulanowicz ;University of Maryland, Center for Environmental and Estuarine Studies, Chesapeake Biological Laboratory, Solomons, MD 20688 ;Effects of Perturbations on Estuarine Microcosms ;Univ. of South Carolina, Belle W. Baruch Inst. for Marine Biology and Coastal Research ;Rec'd (Nov)1978, in Press. ;English

Citation 195

Heinle, Donald R. , David A. Flemer, Joseph F. Ustach, Richard A. Murtagh, Roger P. Harris ;Maryland Univ. , Solomons. Natural Resources Inst. ;The Role of Organic Debris and Associated Micro-Organisms in Pelagic Estuarine Food Chains ;NRI Maryland ;1973, Rep. No. NRI-Ref-74-29 TR-22,130p. ;English

Citation 196

Helz, G. R. , R. J. Huggett, J. M. Hill ;Maryland Univ. , College Park, Dept. of Chemistry ;Behavior of Mn, Fe, Cu, Zn, Cd and Pb Discharged from a Wastewater Treatment Plant into an Estuarine Environment ;Water Res ;1975(July),9(7),631-636. ;English

Citation 197

Hendey, N. I. ; ;The Species Diversity Index of Some-in-Shore Diatom Communities and its Use in Assessing the Degree of Pollution on Parts of the North Coast of Cornwall ;In: Fourth Symp. on Recent and Fossil Marine Diatoms, Oslo Aug 30-Sept 3,1976, Proceedings. Edited by P. Simsen ;1977,354-377. ;English

Citation 198

Hess, K. W. ;Rhode Island Univ. , Kingston, Graduate School of Oceanography ;A Three-Dimensional Numerical Model of the Estuary

Circulation and Salinity in Narragansett Bay ;Estuarine Coast Mar Sci ;1976(May),4(3),325-338. ;English

Citation 199

Hinchcliffe, P. R. ;Lancashire and Western Sea Fisheries Joint Committee, University of Lancaster, Bailrigg, Lancaster LA1 4XY, England ;Surf-zone Water Quality in Liverpool Bay ;Estuarine Coast Mar Sci ;1976,4,427-442. ;English

Citation 200

Hirota, Jed, James P. Szyper ;University of Hawaii, Department of Oceanography, Honolulu, HA 96822 ;Standing Stocks of Zooplankton Size-Classes and Trophic Levels in Kaneohe Bay, Oahu, Hawaiian Islands ;Pac Sci ;1976,30(4),341-361. ;English

Citation 201

Hobbie, J. E. , B. J. Copeland, W. G. Harrison ;North Carolina Water Resources Research Institute, Raleigh, NC ;Nutrients in the Pamlico River Estuary, NC , 1969--1971. Eutrophication ;WRRI North Carolina ;1972(Dec), Rep. 79,242p. ;English

Citation 202

Hobbie, John E. ;North Carolina Water Resources Research Inst. , Raleigh, NC ;Phosphorus Concentrations in the Pamlico River Estuary of North Carolina ;WRRI North Carolina ;1970(Mar), Rep. No. 33,50p. ;English

Citation 203

Hobbie, John E. ;North Carolina Water Resources Research Inst. , Raleigh, NC ;Nutrients and Eutrophication in the Pamlico River Estuary, NC 1971-1973 ;WRRI North Carolina ;1974(Aug), Rep. No. UNC-WRRI-74-100,248p. ;English

Citation 204

Hobbie, John E. , Nathaniel W. Smith ;Department of Zoology, NC State University ;Nutrients in the Neuse River Estuary, North Carolina ;Univ. North Carolina ;1975(Dec), UNC-SG-75-21,183p. ;English

Citation 205

Hochman, E. , D. Zilberman, R. Just ;Tel-Aviv Univ. , (Israel),

Dept. of Economics ;Internalization in a Stochastic Pollution Model
;Water Resour Res ;1977(Dec),13(6),877-881. ;English

Citation 206

Hodson, R. E., O. Holm-Hansen, F. Azam ;California Univ. , San Diego, La Jolla, Inst. of Marine Resources ;Improved Methodology for ATP Determination in Marine Environments ;In: Research on the Marine Food Chain, Progress Report for period July 1974-June 1975. ;1975, UCSD 10P20-202,871-888. ;English

Citation 207

Holdren, G. R. , O. P. Bricker, G. Matisoff ;Johns Hopkins Univ. , Baltimore, MD, Dept. of Earth and Planetary Sciences ;A Model for the Control of Dissolved Manganese in the Interstitial Waters of Chesapeake Bay ;Johns Hopkins Univ. ;1975, Rep. CONF-750410-8,18p. ;English

Citation 208

Holland, J. S. , N. J. Maciolek, C. H. Oppenheimer ;Texas Univ. , Port Aransas, Marine Science Inst. ;Galveston Bay Benthic Community Structure as an Indicator of Water Quality ;Contrib Mar Sci ;1973,17,169-188. ;English

Citation 209

Howells, Gwyneth P. ;Nerc, London, Eng. ;The Estuary of the Hudson River, USA ;Proc R Soc Lond B Biol Sci ;1972(Mar),180(1061),521-534. ;English

Citation 210

Hull, R. J. ;Rhode Island Univ. , Kingston. Dept. of Plant and Soil Science ;The Capacity of Salt Marsh Vegetation to Modify the Quality of Estuarine Waters ;Rhode Island Univ. ;1976(Sept), Completion Rep. OWRT B-062-RI(I),34p. ;English

Citation 211

Hundemann, Audrey S. ;National Technical Information Service, Springfield, VA ;Remote Sensing Applied to Environmental Pollution Detection and Management (A Bibliography With Abstracts),1964-July 1978 ;NTIS ;1978(Aug), NTIS/PS-78/0789/4ST, 163p. ;English

Citation 212

Hyer, P. V. , A. Y. Kuo, C. S. Fang, W. J. Hargis, Jr. ;Virginia Institute of Marine Science, Gloucester Point, VA 23062

;Hydrography and Hydrodynamics of Virginia Estuaries. VIII.
Mathematical Model Studies of Water Quality of the York River System
;Appl Mar Sci Ocean Eng ;1975(Oct), Special Rep. No. 104,168p.
;English

Citation 213

Ischinger, L. S. , E. B. Welch, E. E. Geldreich, L. W. Little,
R. F. Unz, G. F. Craun, D. J. Reasoner ;US Fish & Wildlife
Service, CO ;Water Pollution ;J Water Pollut Control Fed
;1976(June),48(6),1318-1321. ;English

Citation 214

Jaworski, N. A. ;US Environmental Protection Agency ;Comprehensive
Analysis of the Upper Estuary of the Potomac River. Basic Problems in
Control of Eutrophication ;Vsestoronnii Anal. Okruzhayushchey Prir.
Sredy, Tr. Sov. - Am. Simp. , 1st, 1974, Gidrometeoizdat
Leningrad, USSR Edited by Yu. A Izrael ;1975,189-206. ;Russian

Citation 215

Jaworski, N. A. , D. W. Lear, Jr. , O. Villa, Jr. ;US
Environmental Protection Agency, Annapolis, MD, Chesapeake Technical
Support Lab ;Nutrient Management in the Potomac Estuary ;In: Nutrients
and Eutrophication: The Limiting Nutrient Controversy; American
Society of Limnology and Oceanography, Allen Press ;1972, Spec.
Symp. Vol. 1,246-273. ;English

Citation 216

Jaworski, N. A. , L. J. Clark, K. D. Feigner ;US Environmental
Protection Agency, Chesapeake Technical Support Lab, Annapolis, MD
;A Water Resource-Water Supply Study of the Potomac Estuary ;US EPA
;1971(Apr), Technical Rep. No. 35,263p. ;English

Citation 217

Jaworski, N. A. , L. J. Clark, K. D. Feigner ;US Environmental
Protection Agency, Washington, DC, Office of Research and Monitoring
;Upper Potomac Estuary Eutrophication Control Requirements ;US EPA,
Annapolis Field Office ;1972(Apr), Technical Rep. No. 53,45p.
;English

Citation 218

Jaworski, N. A. , L. J. Hetling ;Federal Water Pollution Control
Administration, Annapolis, MD ;Relative Contributions of Nutrients to

the Potomac River Basin from Various Sources ;US EPA ;1970(Jan), Technical Rep. No. 31,36p. ;English

Citation 219

Jaworski, Norbert A. ;Chesapeake Technical Support Laboratory, Middle Atlantic Region, Federal Water Pollution Control Administration, US Department of the Interior ;Nutrients in the Upper Potomac River Basin ;Ches Tech Sup Lab ;1969(Aug), Technical Rep. No. 15,91p. ;English

Citation 220

Jaworski, Norbert A. ;Chesapeake Technical Support Laboratory, Middle Atlantic Region, Annapolis, MD ;Water Quality and Wastewater Loadings Upper Potomac Estuary During 1969 ;US EPA ;1969(Nov), Tech. Report No. 27 , 104p. ;English

Citation 221

Jaworski, Norbert A. , Donald W. Lear , Johan A. Aalto ;Chesapeake Technical Support Laboratory, Middle Atlantic Region, Annapolis, MD ;A Technical Assessment of Current Water Quality Conditions and Factors Affecting Water Quality in the Upper Potomac Estuary ;US EPA ;1969(Mar), CTSI Tech. Report No. 5 , 55p. ;English

Citation 222

Jaworski, Norbert A. , Leo J. Clark, Kenneth D. Feigner ;US Environmental Protection Agency, Annapolis, MD, Annapolis Field Office ;Upper Potomac Estuary Eutrophication Control Requirements ;US EPA ;1972 (Apr), Rep. No. TR-53,46p. ;English

Citation 223

Jaworski, Norbert A. , Orterio Villa, Jr. , Leo J. Hetling ;Federal Water Pollution Control Administration, Chesapeake Technical Support Lab, Annapolis, MD ;Nutrients in the Potomac River Basin ;US EPA ;1969(May), Technical Rep. No. 9,40p. ;English

Citation 224

Jeffries, H. P. ;Rhode Island Univ. , Kingston, Narragansett Marine Lab ;The Atypical Phosphate Cycle of Estuaries in Relation to Benthic Metabolism ;Narragansette Marine Laboratory ;1962(Aug), Contribution No. 44,58-68. ;English

Citation 225

Jeffries, H. P. ;Rhode Island Univ. , Kingston, Graduate School of Oceanography ;Chemical Responses by Marine Organisms to Stress, Stress

in Hard Clams from a Polluted Estuary ;US Environmental Protection Agency ;1971(Dec), EPA-R3-72-017,27p. ;English

Citation 226

Jeffries, Harry P. ;Narragansett Marine Laboratory, University of Rhode Island, Kingston, RI ;Environmental Characteristics of Raritan Bay, A Polluted Estuary ;Limnol Oceanogr ;1962,7(1),21-31. ;English

Citation 227

Jeffries, Harry P. ;Graduate School of Oceanography, University of Rhode Island, Kingston, RI ;Comparative Studies on Estuarine Zooplankton ;Limnol Oceanogr ;1964,9(3),348-358. ;English

Citation 228

Jenkins, David ;California Univ. , Berkeley, Sanitary Engineering Research Lab. ;The Differentiation, Analysis, and Preservation of Nitrogen and Phosphorus Forms in Natural Waters ;Trace Inorganics in Water, Adv in Chem Ser, Amer Chem Soc ;1968, No. 73,265-280. ;English

Citation 229

Jensen, Arne, Janet R. Stein ;Univ. of Trondheim, Norway ;IXth International Seaweed Symposium ;Science Press, International Publishers in Science and Medicine, 8 Brookstone Drive, Princeton, NJ 08540 ;1979,655p. ;English

Citation 230

Jensen, Loren D. ;Johns Hopkins Univ. , Baltimore, MD, Dept. of Geography and Environmental Engineering ;Biological Processes which Interact with and Influence the Distribution of Wastes Introduced into the Marine Environment ;Background Papers on Coastal Wastes Management, prepared for National Academy of Sciences Committee on Oceanography and the National Academy of Engineering Committee on Ocean Engineering, Wash, DC ;1969, Vol. 1, XIV1-XIV9. ;English

Citation 231

Johnson, R. W. ;North Carolina State Univ. , Raleigh, Dept. of Marine Sciences ;Inflow on Secondary Productivity in an Ecosystem ;North Carolina State Univ. ;1974, PhD Dissertation, 123p. ;English

Citation 232

Jones, D. J. ;Durham Univ. (England), Dept. of Botany ;Ecological Studies on Macroinvertebrate Populations Associated with Polluted Kelp

Forests in the North Sea ;Helgol wiss Meeresunter ;1971,22,417-441.
;English

Citation 233

Jorgensen, B. B. ;Aarhus Univ. (Denmark). Inst. of Ecology and Genetics
;The Sulfur Cycle of a Coastal Marine Sediment (Limfjorden, Denmark)
;Limnol Oceanogr ;1977(Sept),22(5),814-832. ;English

Citation 234

Jupp, B. P. ;Durham Univ. (England), Dept. of Botany ;The Effects of
Organic Pollution on Benthic Organisms near Marseille ;Int J Environ
Stud ;1977,10,119-123. ;English

Citation 235

Kahn, Lloyd, Francis T. Brezenski ;Federal Water Pollution Control
Administration, Metuchen, NJ, Hudson-Champlain and Metropolitan
Coastal Comprehensive Water Pollution Control Project ;Determination of
Nitrate in Estuarine Waters--Comparison of a Hydrazine Reduction and a
Brucine Procedure and Modification of a Brucine Procedure ;Environ Sci
Technol ;1967(June),1(7),488-491. ;English

Citation 236

Kallquist, T. ; ;Algal Growth Potential of Six Norwegian Waters Receiving
Primary, Secondary and Tertiary Sewage Effluents ;Verh Int Verein
Limnol ;1975,19,2070-2081. ;English

Citation 237

Kalmaz, E. V. ;Dept. of Engineering Science and Mechanics, Univ. of
Tennessee, Knoxville, TN 37916 ;Mathematical Model and Computer
Simulation of the Population Dynamics of Zooplankton in Lake and
Estuary Ecosystems ;Ecol Model ;1978,5(3),225-235. ;English

Citation 238

Kang, J. W. ;Pusan Fisheries Coll. (Republic of Korea) ;Diseases of the
Cultivated Porphyra at Culture Beds with Special Reference to the
Effects of Fertilizer Plant Effluents ;Bull Kor Fish Soc ;1972,5(2),39-
44. ;Korean

Citation 239

Karlgren, Lars , Krister Ljungsto ;Natl Env Protection Board, Sweden

;Nutrient Budgets for the Inner Archipelago of Stockholm ;J Water Pollut Control Fed ;1975 (Apr),47 (4),823-833. ;English

Citation 240

Keegan, Robert T. , J. Venn Leeds, Jr. ;Rice Univ. , Lab. of Environmental Science and Engineering, Houston, TX ;Dynamic Programming and Estuarine Water Quality Control ;Water Resour Bull ;1970(Apr),6(2),235-248. ;English

Citation 241

Ketchum, Bostwick H. ;Woods Hole Oceanographic Institute, MA ;Eutrophication of Estuaries ;WHOI or IN: Eutrophication: Causes, Consequences, Correctives. International Symposium on Eutrophication. Proceedings. (Held in Madison, Wisc. , June 11 - 15,1967.) Sherry, Sol et al. (edited by). National Research Council. Publ No. 1706 Thrombosis. X + 762p. Illus. National Academy of Sciences: Wash. D. C. ;1969, WHOI Contribution No. 1960,197-209. ;English

Citation 242

Khalid, R. A. , W. H. Patrick, R. P. Gambrell ;Louisiana State Univ. ;Effect of Dissolved Oxygen on Chemical Transformations of Heavy Metals, Phosphorus, and Nitrogen in an Estuarine Sediment ;Estuarine Coast Mar Sci ;1978(Jan),6(1),21-36. ;English

Citation 243

Kimball, M. C. ;Miami Univ. , Coral Gables, FL ;Effect of Thermal Effluent on Nitrogen Fixation in the Sediments of Guayanilla Bay, Puerto Rico ;Miami Univ. ;1977(June),112p. ;English

Citation 244

Kinsman, B. , J. R. Schubel, M. J. Bowman, H. H. Carter, A. Okubo, D. W. Pritchard, R. E. Wilson ;Marine Sciences Research Center, State University of New York, Stony Brook, NY 11794 ;Transport Processes in Estuaries: Recommendations for Research ;Mar Sci Res Cent, State Univ. of New York ;1977(Apr), Special Rep. 6,21p. ;English

Citation 245

Kiortsis, V. , M. Moraitou-Apostolopoulou ;Athens Univ. (Greece), Zoological Lab, and Museum ;Marine Cladocera (Crustacea) in the

Eutrophicated and Polluted Saronic Gulf ;*Isr J Zool* ;1975,24(1-2),71-74. ;English

Citation 246

Kiryukhina, L. N. , M. I. Kucherenko, O. G. Mironov ;Institute of Biology of the Southern Seas, Sevastopol (USSR) ;Marine Soil Pollution and Self-Purification ;*Gidrobiol Zh* ;1974,10(2),55-59. ;Russian

Citation 247

Kistritz, Ron U. ;Watertower Research Centre, The University of British Columbia , 2075 Westbrook Mall, Vancouver, B. C. , Canada, V6T 1W5 ;Recycling of Nutrients in an Enclosed Aquatic Community of Decomposing Macrophytes (*Myriophyllum spicatum*) ;*OIKOS* ;1978,30,561-569. ;English

Citation 248

Klavestad, N. ;Ringgt. 56, N-1700 Sarpsborg, Norway ;The Marine Algae of the Polluted Inner Part of the Oslofjord ;*Bot Mar* ;1978,21,71-97. ;English

Citation 249

Kleiber, P. , W. E. Erlebach ;Inland Waters Directorate, Pacific and Yukon Region, Water Quality Branch, Vancouver, British Columbia ;Limitations of Single Water Samples in Representing Mean Water Quality. III. Effect of Variability in Concentration Measurements on Estimates of Nutrient Loadings in the Squamish River, B. C. ;Inland Waters Directorate ;1977, Technical Bull. No. 103,9 p. ;English

Citation 250

Knapp, George L. ;Office of Water Resources Research, Washington, DC, Water Resources Scientific Information Center ;Aeration of Natural Waters: A Bibliography ;WRSIC ;1973 (Jul), WRSIC-73-206,363p. ;English

Citation 251

Knudson, K. , C. E. Belaire ;Texas Parks and Wildlife Dept. , Seabrook Marine Laboratory, P. O. Box 8, Seabrook 77586 ;Causes and Probable Correctives for Oxygen Depletion Fish Kills in the Dickinson Bayou

Estuary: a Field Study and Simplified Algal Assay . ;Contrib Mar Sci (Port Aransas) ;1975(Aug),19,37-48. ;English

Citation 252

Koike, I, A. Hattori ;Univ. of Tokyo, Ocean Research Inst. , Nakano, Tokyo, 164 Japan ;Simultaneous Determinations of Nitrification and Nitrate Reduction in Coastal Sediments by a ^{15}N Dilution Technique ;Appl Environ Microbiol ;1978(May),35(5),853-857. ;English

Citation 253

Kramer, G. R. ;New Mexico Univ. , Albuquerque, NM Eric H. Wang Civil Engineering Research Facility ;Predicting Reaeration Coefficients for Polluted Estuary ;J Environ Eng Div Am Soc Civ Eng ;1974(Feb),100(EE1),77-92. ;English

Citation 254

Kraus, Marjorie ;Delaware Univ. , Newark. Coll. of Marine Studies ;Host Range Study of Blue-Green Algal Viruses ;Delaware Univ. ;1974(Apr), Rep. No. DEL-SG-1-74,33p. ;English

Citation 255

Krutchkoff, Richard G. , William R. Schofield ;Virginia Polytechnic Inst. and State Univ. , Blacksburg, VA ;Stochastic Model of Dynamic Eutrophic Estuary ;J Environ Eng Div Am Soc Civ Eng ;1974(June),100(E3),613-628. ;English

Citation 256

Kuenzler, E. J. , A. F. Chestnut ;Institute of Marine Sciences, University of North Carolina, Chapel Hill and Morehead City, NC ;Structure and Functioning of Estuarine Ecosystems Exposed to Treated Sewage Wastes ;Univ. of North Carolina ;1971(Feb), Annual Rep. 1970-1971. ;English

Citation 257

Lacombe, D. , W. Moneiro ;Instituto Oswaldo Cruz, Rio de Janeiro (Brazil) ;Balanidae as Pollution Indicators in the Bay of Guanabara ;Rev Bras Biol ;1974,34(4),633-644. ;Portuguese

Citation 258

Lai, C. ;Geological Survey, Reston, VA Water Resources Div. ;Computer Simulation of Two-Dimensional Unsteady Flows in Estuaries and Embayments by the Method of Characteristics--Basic Theory and the

Formulation of the Numerical Method ;Geological Survey, Water Res. Div. ;1977(Aug), Water-Resources Invest. 77-85,72p. ;English

Citation 259

Lake, Carol A. , William G. MacIntyre ;Virginia Polytechnic Inst. and State Univ. , Blacksburg. Virginia Inst. of Marine Science, Gloucester Pt. , VA, Prepared by VIMS ;Phosphate and Tripolyphosphate Adsorption by Clay Minerals and Estuarine Sediments ;VPI-VWRRC-Bull ;1977(June),109,64p. ;English

Citation 260

Lee, Wen Yuh ;Univ. of Texas, Marine Science Inst. , Port Aransas Marine Laboratory, Port Aransas, TX 78373 ;Some Laboratory Cultured Crustaceans for Marine Pollution Studies ;Mar Pollut Bull ;1977,8(11),258-259. ;English

Citation 261

Leeds, J. V. ;Rice Univ. , Houston, TX ;Accuracy of Discrete Models Used to Predict Estuary Pollution ;Water Resour Res ;1967,3(2),481-490. ;English

Citation 262

Leendertse, J. J. , A. B. Nelson ;Rand Corp. , Santa Monica, CA ;A Water Quality Simulation Model for Well Mixed Estuaries and Coastal Seas: Volume IX, the Computer Program ;Rand Corp. ;1978(Apr), Rep. No. R-2298-RC , 90p. ;English

Citation 263

Lehmann, Edward J. ;National Technical Information Service, Springfield, VA ;Water Quality Modeling. A Bibliography with Abstracts ;NTIS ;1974 (May), NTIS-WIN-74-036,163p. ;English

Citation 264

Lehmann, Edward J. ;National Technical Information Service, Springfield, VA ;Water Quality Modeling- -Hydrological and Limnological Systems (A Bibliography with Abstracts) ;NTIS ;1975 (May),218p. ;English

Citation 265

Lehmann, Edward J. ;National Technical Information Service, Springfield, VA ;Water Quality Modeling. Hydrological and Limnological Systems.

Volume 2.1975-June 1976 (A Bibliography with Abstracts) ;NTIS ;1976(June), NTIS/PS-76/0444/OST, 103p. ;English

Citation 266

Lehmann, Edward J. ;National Technical Information Service, Springfield, VA ;Water Quality Modeling. Hydrological and Limnological Systems. Volume 1.1964-1974 (A Bibliography with Abstracts) ;NTIS ;1976(June), NTIS/PS-76/0443/2ST, 197p. ;English

Citation 267

Lehmann, Edward J. ;National Technical Information Service, Springfield, VA ;Water Quality Modeling -Hydrological and Limnological Systems. Volume 2.1975-June 1977. (A Bibliography with Abstracts) ;NTIS ;1977(June), NTIS/PS-77/0528/8ST, 190p. ;English

Citation 268

Lehmann, Edward J. ;National Technical Information Service, Springfield, VA ;Water Quality Modeling- -Hydrological and Limnological Systems. Volume 3. July, 1977 -June, 1978 (A Bibliography with Abstracts) ;NTIS ;1978(June), NTIS/PS-78/0650/8ST, 92p. ;English

Citation 269

Leppaekoski, E. ;Aabo Akademi, Inst. of Biology, SF-20500 AABO 50, Finland ;Monitoring the Benthic Environment of Organically Polluted River Mouths ;IN: Biological Monitoring of Inland Fisheries. Edited By J. S. Alabaster. London: Applied Science Publishers ;1977,125-132. ;English

Citation 270

Leung Tack Kit, D. ;Centre d'Oceanographie, Marseille (France), Station Marine d'Endoume ;Study of a Polluted Environment (The Old Port Area of Marseilles): The Influence of Physical and Chemical Conditions on the Characteristics of the Population of the Quay ;Tethys ;1971(1972),3(4),767-825. ;French

Citation 271

Levin, Gilbert V. ;Director, Life Systems Division, Hazleton Lab, Inc. , Falls Church, VA ;The New Pollution ;J Civ Eng Div Am Soc Civ Eng ;1967(May),37(5),68-71. ;English

Citation 272

Levy, E. M. , C. C. Cunningham, C. D. W. Conrad, J. D. Moffatt ;Bedford Inst. of Oceanography, Dartmouth (Nova Scotia), Atlantic

Oceanographic Lab ;A Titration Apparatus for the Determination of Dissolved Oxygen in Seawater ;J Fish Res Board Can ;1977,34(11),2218-2220. ;English

Citation 273

Liberti, Lorenzo , Gianfranco Boari ;Istituto Ricerca Sulle Acque, C. N. R. , 5 via De Blasio, 70123 Bari, Italy ;Phosphates and Ammonia Recovery from Secondary Effluents by Selective Ion Exchange with Production of a Slow-Release Fertilizer ;Water Res ;1979,13(1),65-71. ;English

Citation 274

Lima, Hilda de Souza, P. J. leB. Williams ;Department of Oceanography, The University, Southampton, U. K. ;Oxygen Consumption by the Planktonic Population of an Estuary-- Southampton Water ;Estuarine Coastal Mar Sci ;1978,6,515-521. ;English

Citation 275

Litchfield, Carol D. ;Rutgers - the State Univ. , New Brunswick, NJ. Center for Coastal and Environmental Studies ;Microbial Contributions to Nutrient Cycling in the New York Bight, 1 February 1976-1 January 1977 ;Rutgers State Univ. , New Brunswick, NJ, Center for Coastal and Environmental Studies ;1978(Aug), NTIS PB-287 661/3WP, 116p. ;English

Citation 276

Littler, M. M. , S. N. Murray ;California Univ. , Irvine, CA, Dept. of Ecology and Evolutionary Biology ;Influence of Domestic Wastes on the Structure and Energetics of Intertidal Communities Near Wilson Cove, San Clemente Island ;California Water Resources Center ;1977(June), Contribution No. 164,88p. ;English

Citation 277

Littler, Mark M. , Steven N. Murray ;Dept. of Ecology and Evolutionary Biology, Univ. of California, Irvine, CA ;Influence of Domestic Wastes on Energetic Pathways in Rocky Intertidal Communities ;J Appl Ecol ;1978,15,583-595. ;English

Citation 278

Livingston, R. J. ;Florida State Univ. , Tallahassee, FL, Dept. of Biological Science ;Impact of Kraft Pulp-Mill Effluents on Estuarine

and Coastal Fishes in Apalachee Bay, Florida, USA ;Mar Biol ;1975,32,19-48. ;English

Citation 279

LoCicero, Vincent R. ;Massachusetts Science and Technology Foundation, 10 Lakeside Office Park, Wakefield, MA 01880 ;Proceedings of the First International Conference on Toxic Dinoflagellate Blooms. Boston, MA, 4-6(Nov)1974 ;Massachusetts Science and Technology Foundation ;1975(Apr),529p. ;English

Citation 280

Long, R. R. ;Johns Hopkins Univ. , Baltimore, MD, Dept. of Earth and Planetary Sciences ;Three-Layer Circulations in Estuaries and Harbors ;J Phys Oceanogr ;1977(May),7(3),415-421. ;English

Citation 281

Louisiana State Univ. ;Baton Rouge, Center for Wetland Resources ;Proceedings of the International Symposium on Marine Pollution Research ;US Environmental Protection Agency ;1976(Jan), EPA-600/9-76-032,171p. ;English

Citation 282

Lund, J. W. G. ;The Freshwater Biological Association, The Ferry House, Far Sawrey, Ambleside, Westmorland ;Eutrophication ;Proc R Soc Lond B Biol Sci ;1972,180,371-382. ;English

Citation 283

Macdonald, G. J. , R. N. Weisman ;Canterbury Univ. , Christchurch (New Zealand), Dept. of Civil Engineering ;Oxygen-Sag in a Tidal River ;J Environ Eng Div Am Soc Civ Eng ;1977(June),103(EE3),473-488. ;English

Citation 284

Mackay, D. W. , J. I. Waddington ;Clyde River Purification Board, Glasgow (Scotland) ;Quality Predictions in a Polluted Estuary ;In: Fifth International Water Pollution Research Conference, San Francisco, July 26-Aug 2,1970 ;1970, Paper III-7,6p. ;English

Citation 285

Maggi, P. ;Institut Scientifique et Technique des Peches Maritimes, Nantes (France), Service de Pollution ;The Growth of Posidonia and the Urban .

Pollution in the Gulf of Giens ;Ann Inst Michel Pacha ;1972,5(1),1-11.
;French

Citation 286

Mahoney, John B. , John J. A. McLaughlin ;National Marine Fisheries Service, Northeast Fisheries Center, Sandy Hook Laboratory, Highlands, NJ ;The Association of Phytoplankton Blooms in Lower New York Bay with Hypertrophication ;J exp mar Biol Ecol ;1977,28,53-65.
;English

Citation 287

Mahoney, John B. , John J. A. McLaughlin ;National Marine Fisheries Service, Northeast Fisheries Center, Sandy Hook Lab. , Highlands, NJ ;Salinity Influence on the Ecology of Phytoplankton Blooms in Lower New York Bay and Adjacent Waters ;J exp mar Biol Ecol ;1979,37,213-223. ;English

Citation 288

Malone, Thomas C. ;Inst. Mar. Atmos. Sci. , City Univ. New York, N Y ;Environmental Regulation of Phytoplankton Productivity in the Lower Hudson Estuary ;Estuarine Coastal Mar Sci ;1977 , 5(2),157-71.
;English

Citation 289

Marks, James W. , Orterio Villa, Jr. ;US Environmental Protection Agency, Annapolis, MD, Water Quality Office ;Nutrient Data on Sediment Samples of the Potomac Estuary, 1966- 1968 ;Chesapeake Technical Support Lab ;1970, Data Rep. 11,20p. ;English

Citation 290

Martin-Bouyer, G. , H. Veiga-Pires, G. Salama, J. P. Bechac, F. Roger ; ;Evaluation of Surface Water Pollution at Several Points in Relation to Zones of Shellfish Industry in Roadsteads of the Brest Region ;Rev Int Oceanogr Med ;1973,31/32,91-121. ;French

Citation 291

Massmann, William H. ; ;The Fishes-A Neglected Aspect of Estuarine Research ;Trans N Am Wildl Nat Resour Conf ;1964(Mar),29,337-352. ;English

Citation 292

Mathis, Jane H. ;Florida State Univ. , Tallahassee, FL, Marine Lab. ;Mangrove Decomposition. A Pathway for Heavy Metal Enrichment in

Everglades Estuaries. Appendix III ;Florida State Univ. ,
Tallahassee, Marine Lab. ;1973 (Mar),68p. ;English

Citation 293

Matisoff, G. , O. P. Bricker, G. R. Holdren, P. Kaerk ;Johns Hopkins Univ. , Baltimore, MD ;Spatial and Temporal Variations in the Interstitial Water Chemistry of Chesapeake Bay Sediments ;Johns Hopkins Univ. ;undated, Rep. CONF-750410-7,16p. ;English

Citation 294

Matthews, P. J. ;Anglian Water Authority, Huntingdon (England) Directorate of Scientific Services ;Application of Physico-Chemical Treatment as a Method of Achieving Partial Standards on Sewage Effluents Discharged in Estuarial and Coastal Situations ;Public Health Eng ;1977(Mar),5(2),31-37. ;English

Citation 295

Mayzaud, P. , S. Taguchi ;Biochimie Marine, Station Zoologique, Villegranche-sur-Mer, 06230, France ;Spectral and Biochemical Characteristics of the Particulate Matter in Bedford Basin ;J Fish Res Board Can ;1979,36,211-218. ;English

Citation 296

McCarthy, J. J. , W. Rowland Taylor, M. E. Loftus ;Chesapeake Bay Institute, The Johns Hopkins University; Baltimore, MD ;Significance of Nanoplankton in the Chesapeake Bay Estuary and Problems Associated with the Measurement of Nanoplankton Productivity ;Mar Biol ;1974,24,7-16. ;English

Citation 297

McCarthy, James J. , W. R. Taylor, J. L. Taft ;Department of Biology, Harvard University, Cambridge, MA 02138 ;The Dynamics of Nitrogen and Phosphorus Cycling in the Open Waters of the Chesapeake Bay ;Marine Chemistry in the Coastal Environment. American Chemical Society. Edited by Thomas A. Church ;1975,40,644-681. ;English

Citation 298

McCarthy, James J. , W. Rowland Taylor, Jay L. Taft ;Department of Biology, Harvard University, Cambridge, MA 02138 ;Nitrogenous Nutrition of the Plankton in the Chesapeake Bay. l. Nutrient

Availability and Phytoplankton Preferences ;Limnol Oceanogr ;1977(Nov),22(6),996-1011. ;English

Citation 299

McCarty, Perry L. ;Civil Engineering Department, Stanford University, Palo Alto, CA ;Energetics of Organic Matter Degradation ;In: Water Pollution Microbiology. Edited by Ralph Mitchell. Wiley-Interscience ;1972, Chapt. 5,91-117. ;English

Citation 300

McCormick, J. Michael, Patricia T. Quinn ;Biology Department, Montclair State College, Upper Montclair, NJ 07043 ;Phytoplankton Diversity and Chlorophyll-a in a Polluted Estuary ;Mar Pollut Bull ;1975(July),6(7),105-106. ;English

Citation 301

McKewen, T. D. ;Maryland Environmental Service, Annapolis, MD ;Human Wastes and the Chesapeake Bay ;J Wash Acad Sci ;1972,62(2),157-160. ;English

Citation 302

McLeay, D. J. , C. C. Walden, J. R. Munro ;Division of Applied Biology, B. C. Research, Vancouver, V6S 2L2, Canada ;Effect of pH on Toxicity of Kraft Pulp and Paper Mill Effluent to Salmonid Fish in Fresh and Seawater ;Water Res ;1979,13,249-254. ;English

Citation 303

Mihnea, P. E. ;Consiliul Natl. Pentru Stiinta si Tehnologie, Sectorul 1, Bucarest, Roumania ;Domestic Wastewater Effects on Marine Phytoplanktonic Algae ;Rev Int Oceanogr Med ;1978,49(3),89-98. ;French

Citation 304

Mihursky, J. A. , D. A. Flemer, D. H. Hamilton, Jr. , C. W. Keefe ;Maryland Univ. , Solomons, MD, Natural Resources Inst. ;The Effects of Thermal Loading and Water Quality on Estuarine Primary Production ;NRI Maryland ;1971(Oct), Completion Rep. OWRR-B-010 MD(1),55p. ;English

Citation 305

Miller, B. S. , B. B. McCain, R. C. Wingert, S. F. Borton, K. V. Pierce ;Washington Univ. , Seattle, Fisheries Research Inst. ;Ecological and Disease Studies of Demersal Fishes in Puget Sound near Metro-Operated Sewage Treatment Plants and in the Duwamish River ;Puget

Sound Interim Studies, Municipality of Metropolitan Seattle ;1977,
Final Rep. No. CR2231,164p. ;English

Citation 306

Minas, H-J. , P. David, B. Coste, M-C. Bonin, M. Minas ;Centre Universitaire de Luminy, Station Marine D'Endoume, Laboratoire D'Oceanographie, F13288 Marseille Cedex 2, FR ;Caractere Particulier du Mecanisme de L'Eutrophisation dans L'Etang de Berre ;Institut Oceanographique, Paris. Annales ;1976,52(2),153-164. ;French

Citation 307

Minas, M. ;Centre Univ. de Luminy, Marseille (France) ;Dissolved Oxygen and Saturation in an Environment of High Organic Production (Etang de Berre): Role of Halocline on Distribution of These and on the Oxygen-Phosphate Ratio ;Hydrobiol ;1976,51(2),149-162. ;French

Citation 308

Mook, W. G. , B. K. S. Koene ;Groningen Rijksuniversiteit (Netherlands), Environmental Isotopes Lab ;Chemistry of Dissolved Inorganic Carbon in Estuarine and Coastal Brackish Waters ;Estuarine Coast Mar Sci ;1975,3(3),325-336. ;English

Citation 309

Moore, D. M. ;Marine Sciences Centre, McGill University, Montreal, Canada ;Seasonal Changes in Distribution of Intertidal Macrofauna in the Lower Mersey Estuary, U. K. ;Estuarine Coastal Mar Sci ;1978,7,117-125. ;English

Citation 310

Moraitou-Apostolopoulou, M. , V. Kiortsis ;Athens Univ. (Græce), Zoological Lab and Museum ;Comparative Study of Cladocera from the 1st Meter of Sea Water, Collected in a Polluted Zone and in Another Relatively Clean Zone ;Rev Int Oceanogr Med ;1976,43,37-46. ;French

Citation 311

Morris, A. W. , R. F. C. Mantoura, A. J. Bale, R. J. M. Howland ;Institute for Marine Environmental Research, Prospect Place, The Hoe, Plymouth, UK ;Very Low Salinity Regions of Estuaries: Important

Sites for Chemical and Biological Reactions ;Nature ;1978(Aug),274,678-680. ;English

Citation 312

Morton, S. D., R. Sernau, P. H. Derse ;WARF Institute, Inc. , Madison, WI 53701 ;The Carbon Dioxide System and Eutrophication ;US Environmental Protection Agency ;1971, EPA Grant 16010 DXV, 72p. ;English

Citation 313

Moshiri, G. A. , W. G. Crumpton, D. P. Brown, P. R. Barrington, N. G. Aumen ;University of West Florida, Pensacola Dept. of Biology ;Interrelationships between Certain Microorganisms and Some Aspects of Sediment-Water Nutrient Exchange in Two Bayou Estuaries, Phases I and II ;WRRC Florida (Gainesville) ;1976(July), Publication No. 37,45p. ;English

Citation 314

Moshiri, G. A. , W. G. Crumpton, N. G. Aumen, C. T. Gaetz, J. E. Allen ;Water Resources Research Center, Univ. Florida, Gainesville ;Water-Column and Benthic Invertebrate and Plant Associations as Affected by the Physicochemical Aspects in a Mesotrophic Bayou Estuary, Pensacola, Florida ;WRRC Florida (Gainesville) ;1978, WRRC-PUB-41,166p. ;English

Citation 315

Moshiri, G. A. , W. G. Crumpton ;Univ. of West Florida, Dept. of Biology, Pensacola, FL 32504 ;Certain Mechanisms Affecting Water Column-to-Sediment Phosphate Exchange in a Bayou Estuary ;J Water Pollut Control Fed ;1978,50(2),392-394. ;English

Citation 316

Moshiri, Gerald A. , et al. ;Florida Water Resources Research Center, University of Florida ;Determination of a Nitrogen-Phosphorus Budget for Bayou Texar, Pensacola, Florida ;WRRC Florida ;1972(Feb), Publication No. 17,27p. ;English

Citation 317

Moshiri, Gerald A. , William G. Crumpton , Dewey A. Blaylock ;University of West Florida, Pensacola, FL ;Algal Metabolites and Fish Kills in a Bayou Estuary: an Alternative Explanation to the Low

Dissolved Oxygen Controversy. (Communication) ;J Water Pollut Control Fed ;1978,50,2043-2046. ;English

Citation 318

Munday, J. C. , Jr. , R. J. Byrne, C. S. Welch, H. H. Gordon, J. D. Boon, III ;Virginia Inst. of Marine Science, Gloucester Point, VA ;Applications of Remote Sensing to Estuarine Problems ;VIMS ;1975(Dec), Annual Rep. No. 3,168p. ;English

Citation 319

Murphy, R. S. , R. F. Carlson, D. Nyquist, R. Britch ;Alaska University, College Institute of Water Resources, AK ;Effect of Waste Discharges into a Selt-Laden Estuary, a Case Study of Cook Inlet, AK ;IWR Alaska ;1972(Nov), Completion Rep. IWR-26,26p. ;English

Citation 320

Murphy, R. Sage, Ann P. Miller ;Alaska Univ. , College Dept. of Environmental Health Engineering; and Alaska Univ. , College, Inst. of Water Resources ;Waste-Induced Oxygen Uptake of an Alaskan Estuary ;J San Eng Div Am Soc Civ Eng ;1968,94(SA 2),345-354. ;English

Citation 321

Najarian, T. O. , D. R. F. Harleman ;Resource Analysis, Inc. , Cambridge, MA ;Real Time Simulation of Nitrogen Cycle in an Estuary ;J Environ Eng Div Am Soc Civ Eng ;1977(Aug),103(EEH),523-538. ;English

Citation 322

Nakayama, Ooki, Masao Ohno, Takaji Yasui ;Dept. of Environmental Engineering, Yamanashi University, Kofu, 400 Japan ;Effect of Enrichment with Digested Night Soil on the Growth of Marine Plankton ;Bull Jpn Soc Sci Fish ;1978,44(10),1099-1103. ;Japan

Citation 323

Naqui, S. W. A. , S. N. De Souza, C. V. G. Reddy ; ;Relationship between Nutrients and Dissolved Oxygen with Special Reference to Water Masses in Western Bay of Bengal ;Indian J Mar Sci ;1978(Mar),7(1),15-17. ;English

Citation 324

Narkis, N. , M. Rebhun, Ch. Sheindorf ;Environmental Engineering Laboratories, Technion, Israel Institute of Technology, Haifa,

Israel ;Denitrification at Various Carbon to Nitrogen Ratios ;Water Res ;1979,13(1),93-98. ;English

Citation 325

National Academy of Sciences ;Washington, D. C. ;Beneficial Modifications of the Marine Environment; Proceedings ;National Academy of Sciences ;1972 (July),123p. ;English

Citation 326

Nedwell, D. B. ;Univ. of Essex, Dept. of Biology, Wivenhoe Park, ; Colchester CO4 3SQ, Eng. ;Inorganic Nitrogen Metabolism in a Eutrophicated Tropical Mangrove Estuary ;Water Res ;1975(Feb),9(2),221-231. ;English

Citation 327

Neilson, Bruce J. ;Virginia Institute of Marine Science, Gloucester Point, VA 23062 ;Final Report on Water Quality in the Hampton Roads 208 Study Area ;Appl Mar Sci Ocean Eng ;1978(Mar), Special Rep. No. 171,51p. ;English

Citation 328

Nelson, B. W. ;South Carolina Univ. , Columbia, SC, Coll. of Arts and Sciences ;Biogeochemical Variables in Bottom Sediments of the Rappahannock River Estuary ;In: Environmental Framework of Coastal Plain Estuaries; 18th Annual Meeting of Southeastern Section of the Geological Society of America, 10-11(Apr)1969, Columbia, SC ;1972, Memoir 133,417-451. ;English

Citation 329

Neville, R. A. , J. F. Gower ;Dept. of the Environment, Victoria (British Columbia), Inst. of Ocean Sciences ;Passive Remote Sensing of Phytoplankton via Chlorophyll Alpha Florescence ;J Geophys Res ;1977(Aug),82(24),3487-3493. ;English

Citation 330

Newbury, T. K. , Edwin F. Bartholomew ;Univ. of Hawaii, Dept. of Oceanography, Honolulu, HA 96822 ;Secondary Production of Microcopepods in the Southern, Eutrophic Basin of Kaneohe Bay, Oahu, Hawaiian Islands ;Pac Sci ;1976,30(4),373-384. ;English

Citation 331

Nichols, J. A. ;Southeastern Massachusetts Univ. , North Dartmouth, Dept. of Biology ;Benthic Community Structure Near the Woods Hole

Sewage Outfall ;Int Rev Gesamten Hydrobiol ;1977,62(2),235-244.
;English

Citation 332

Nickels, Janet S. , John D. King, David C. White ;Department of Biological Science, Florida State University, Tallahassee, FL 32306 ;Poly-B-Hydroxybutyrate Accumulation as a Measure of Unbalanced Growth of the Estuarine Detrital Microbiota ;Appl Environ Microbiol ;1979(Mar),37(3),459-465. ;English

Citation 333

Niell, F. X. ;Laboratorio de Investigaciones Pesqueras, Muelle de Bouzas ;C/N Ratio in Some Marine Macrophytes and its Possible Ecological Significance ;Bot Mar ;1976,19(6),347-350. ;English

Citation 334

Niell, F. X. , Y. J. Buela ;Instituto de Investigaciones Pesqueras, Vigo (Spain), Laboratorio de Investigaciones Pesqueras ;N. W. Spain, 'Stress' on the Fucaceae Standing Crop ;Invest Pesq ;1976,40(1),137-149. ;Spanish

Citation 335

Niemi, Ake ; ;Proceedings of the Third Baltic Symposium on Marine Biology. Helsinki/ Helsingfors, 11-17(June)1973 ;Helsinki, Government Printing Centre ;1975,355p. ;English

Citation 336

Nienhuis, P. H. , B. H. H. De Bree ;Delta Institute for Hydrobiological Research, Yerseke, Netherlands ;Production and Ecology of Eelgrass (*Zostera marina L.*) in the Grevelingen Estuary, the Netherlands, Before and After the Closure ;Hydrobiologia ;1977,52(1),55-66. ;English

Citation 337

Nihoul, J. C. ; ;Hydrodynamics of Estuaries and Fjords ;Elsevier; Amsterdam, Netherlands. Proceedings of 9th International Liege Colloquium on Ocean Hydrodynamics ;1978, Elsevier Oceanogr. Ser. No. 23,546p. ;English

Citation 338

Nishimura, H. ;Tokyo Univ. (Japan), Dept. of Chemical Engineering

;Nitrogen Cycles in a Polluted Sea Area ;Chem Eng ;1976(Dec),315,760-764. ;English

Citation 339

North Carolina Univ. ;Chapel Hill, Inst. of Marine Sciences ;Structure and Functioning of Estuarine Ecosystems Exposed to Treated Sewage Wastes ;North Carolina Univ. ;1971(Feb), Annual Rep. 1970-1971,345p. ;English

Citation 340

N Y Ocean Science Lab ;N Y ;The Problems of Long Island Waters ;N Y Ocean Science Lab, Workshop 9-11(Feb)1971 ;1971(Feb), Technical Rep. 0010. ;English

Citation 341

O'Connor, Donald J. , Dominic M. Di Toro, Robert V. Thomann ;Manhattan College, Bronx, NY ;Phytoplankton Models and Eutrophication Problems ;NOAA/Resources for the Future Symp. on Ecological Modeling, Wash, DC, 10-12(sept)1974 ;1974, Technical Rep. , 149-160. ;English

Citation 342

O'Connor, Donald J. , Robert V. Thomann, Dominic DiToro ;Manhattan Coll. , Bronx, N Y, Dep. of Civil Engineering ;Dynamic Water Quality Forecasting and Management ;US Environmental Protection Agency ;1973 (Aug), Ecol Res Series EPA-6603-73-009,209p. ;English

Citation 343

Odum, H. T. , A. F. Chesnut ;Inst. of Marine Sciences, Univ. of North Carolina, Chapel Hill and Morehead City, NC ;Studies of Marine Estuarine Ecosystems Developing with Treated Sewage Wastes ;Inst. Marine Science, UNC ;1970(May), Annual Rep. 1969-1970,366p. ;English

Citation 344

Office of Water Research and Technology, Water Resources Scientific Information Center ;Washington, DC ;Estuarine Pollution, A Bibliography ;WRSIC ;1973 (Apr), WRSIC-73-205,510p. ;English

Citation 345

Office of Water Research and Technology, Water Resources Scientific Information Center ;Washington, DC ;Estuarine Pollution, a

Bibliography, Vol. 2 ;WRSIC ;1976(Dec), Rep. OWRT/RSIC 76-207,576 p. ;English

Citation 346

Office of Water Research and Technology, Water Resources Scientific Information Center ;Washington, DC ;Estuarine Pollution, a Bibliography, Vol. 3 ;WRSIC ;1976(Dec), Rep. OWRT/WRSIC 76-208,566p. ;English

Citation 347

Officer, C. B. , J. H. Ryther ;Dartmouth College, Hanover, NH 03755 and W. H. O. I. , Woods Hole, MA 02543 ;The Importance of Silicon in Marine Eutrophication ;Science ;Submitted manuscript, 1979. ;English

Citation 348

Officer Charles B. , John H. Ryther ;Dartmouth College and Woods Hole Oceanographic Inst. ;Secondary Sewage Treatment Versus Ocean Outfalls: an Assessment ;Science ;1977(Sept),197(4308),1056. ;English

Citation 349

Ogita, Haruhisa, Yukio Arakawa ;Aichi Environ. Res. Cent. , Nagoya, Japan ;Self-Purification of Rivers and Estuaries. 2. Self - Purification and Environmental Acceptability ;Aichi -Ken Kogai Chosa Senta Shoho ;1976,4,42-49. ;Japan

Citation 350

Ohlhorst, C. W. ;National Aeronautics and Space Administration, Langley Station, VA, Langley Research Center ;Analysis of Six Broadband Optical Filters for Measuring Chlorophyll-a and Suspended Solids in the Patuxent River ;NASA Technical Memorandum ;1976(July), X-3399,49p. ;English

Citation 351

Okada, Mitumasa, Ryuichi Sudo ;Nat'l. Environ Stud. , Tsukuba, Japan ;Methodology of Algal Assay Procedure and its Application to Eutrophication Research ;Yosui to Haisui ;1978,20(7),765-779. ;Japan

Citation 352

Olsson, L. , R. Rosenberg, E. Olundh ;Uppsala Univ. (Sweden), Inst.

of Zoology ;Benthic Fauna and Zooplankton in Some Polluted Swedish Estuaries ;AMBIÖ ;1973,2(5),158-163. ;English

Citation 353

Olufeagba, B. J. , R. H. Flake , N. E. Armstrong ;Department of Electrical Engineering, University of Texas at Austin, Austin, TX ;A Boundary Value Approach for Estuarine Water Quality Modelling with Results for Jamaica Bay, New York ;Ecol Model ;1975,1,3-30. ;English

Citation 354

Orlob, G. T. ;California Univ. , Davis, CA, Dept. of Civil Engineering ;Mathematical Modeling of Estuarine Ecosystems ;In: Proceedings of the International Conference on Transport of Persistent Chemicals in Aquatic Ecosystems, 1-3(May)1974, Ottawa, Canada ;1974(May), IV27-IV43. ;English

Citation 355

Orth, R. J. ;Virginia Inst. of Marine Science, Gloucester Point ;Effect of Nutrient Enrichment on Growth of the Eelgrass *Zostera marina* in the Chesapeake Bay, VA ;Mar Biol ;1977,44(2),187-194. ;English

Citation 356

Overstreet, R. M. , H. D. Howse ;Gulf Coast Research Lab. , Ocean Springs, MS ;Some Parasites and Diseases of Estuarine Fishes in Polulated Habitats of Mississippi ;Ann NY Acad Sci ;1977(Sept),298,427-462. ;English

Citation 357

Palmer, C. Mervin ;Municipal Environmental Research Lab. , Cincinnati, OH ;Algae and Water Pollution ;US Environmental Protection Agency ;1977(Dec), EPA-68-03-0232. ;English

Citation 358

Pamatmat, Mario M. , R. Stephen Jones, Herbert Sanborn, Ashok Bhagwat ;Dept. of Fisheries, Auburn University, Auburn, AL ;Oxidation of Organic Matter in Sediments ;US Environmental Protection Agency ;1973(Sept), EPA-660/3-73-005. ;English

Citation 359

Pansini, M. , R. Pronzato ;Genoa Univ. (Italy, Inst. of Zoology) ;Preliminary Analysis on the Distribution of Porifera in Areas Exposed

to Different Types of Pollution ;Boll Mus Ist Biol Univ Genova ;1975,43,21-32. ;Italian

Citation 360

Pardo, J. , R. A. Coler ;Univ. of Massachusetts ;A Test of the Effects of Domestic Sewage on the Growth of the Common Blue Mussel, *Mytilus edulis*, in an Aquacultural System ;Univ. of Massachusetts Water Resources Centre ;1977, Publication No. 87,44p. ;English

Citation 361

Park. C. K. ; ;Eutrophication and Chlorophyll Content in the Sea Water of Jinhae Bay Area Korea ;Bull Korean Fish Soc ;1975 , 8 (3),121-126. ;English

Citation 362

Parsons, T. R. , K. von Stockel , P. Koeller , M. Takahashi , M. R. Reeve , O. Holm-Hansen ;Institute of Oceanography, University of British Columbia, B. C. , Canada ;The Distribution of Organic Carbon in a Marine Planktonic Food Web Following Nutrient Enrichment ;J. exp. mar. Biol. Ecol. ;1977,26,235-247. ;English

Citation 363

Parsons, T. R. , R. J. LeBrasseur, J. D. Fulton ;Fisheries Research Board of Canada, Nanaimo (British Columbia), Pacific Oceanographic Group ;Some Observations on the Dependence of Zooplankton Grazing on the Cell Size and Concentration of Phytoplankton Blooms ;J Oceanogr Soc Jpn ;1967(Feb),23(1),10-17. ;English

Citation 364

Parsons, T. R. , W. H. Thomas, D. Siebert, J. R. Beers, P. Gillespie ;California Univ. , San Diego, La Jolla, CA, Inst. of Marine Resources ;The Effect of Nutrient Enrichment on the Plankton Community in Enclosed Water Columns ;Int Rev Gesamten Hydrobiol ;1977,62(5),565-572. ;English

Citation 365

Patten, Bernard ;Department of Marine Science, College of William and Mary and Virginia Fisheries Laboratory, Gloucester Pt. , VA 23062

;Plankton Energetics of Raritan Bay ;Limnol Oceanogr
;1961(Oct),6(4),369-387. ;English

Citation 366

Patten, Bernard C. ;Department of Marine Science, College of William and Mary and Virginia Fisheries Laboratory, Gloucester Point, VA ;Negentropy Flow in Communities of Plankton ;Limnol Oceanogr ;1961,6(1),26-30. ;English

Citation 367

Patten, Bernard C. , George M. Van Dyne ;Oak Ridge National Laboratory, Oak Ridge, TN 37830 ;Factorial Productivity Experiments in a Shallow Estuary: Energetics of Individual Plankton Species in Mixed Populations ;Limnol Oceanogr ;1968(Apr),13(2),309-314. ;English

Citation 368

Payne, J. F. ;Environment Canada, Fisheries and Marine Service, Biological Station, Water Street East, St. John's, Newfoundland ;Mixed Function Oxidases in Marine Organisms in Relation to Petroleum Hydrocarbon Metabolism and Detection ;Mar Pollut Bull ;1977,8(5),112-116. ;English

Citation 369

Pearson, Erman A. , George A. Holt ;University of California, Berkeley, CA ;Water Quality and Upwelling at Grays Harbor Entrance ;Limnol Oceanogr ;1960,5(1),48-56. ;English

Citation 370

Pearson, T. H. ;Dunstaffnage Marine Research Laboratory, Oban, Argyll, Scotland ;The Effect of Industrial Effluent from Pulp and Paper Mills on the Marine Benthic Environment ;Proc R Soc Lond B Biol Sci ;1972,180,469-485. ;English

Citation 371

Pearson, T. H. , R. Rosenberg ;Dunstaffnage Marine Research Laboratory, Oban, Argyll, Scotland ;Macrofaunal Succession in Relation to Organic Enrichment and Pollution of the Marine Environment ;Oceanogr Mar Biol Ann Rev ;1978,16,229-311. ;English

Citation 372

Penumalli, B. R. , R. H. Flake, E. Gus Fruh ;Biomedical Engineering Program, Department of Electrical Engineering, The University of Texas of Austin, Austin, TX ;Large Scale Systems Approach to

Estuarine Water Quality Modelling with Multiple Constituents ;Ecol Model ;1976,2,101-115. ;English

Citation 373

Per, P. A. ;Goucher Coll. , Towson, MD ;Evaluation & Predictions on Eutrophication of Bush Sub-Estuary ;Soc. of Systematic Zoology, Meeting, Washington, DC, 29 (Dec) 1972 ;1972(Dec), A724330. ;English

Citation 374

Peres, J. M. , J. Picard ;Centre d'Oceanographie, Marseille (France), Station Marine d'Endoume ;Causes of Decrease and Disappearance of the Seagrass *Posidonia oceanica* on the French Mediterranean Coast ;Aquatic Bot ;1975(June),1(2),133-139. ;English

Citation 375

Perkins, E. J. , O. J. Abbott ;Univ. of Strachclyde, Marine Lab. , Garelochhead, Dunbartonshire, Scotland ;Nutrient Enrichment and Sand Flat Fauna ;Marine Pollut Bull ;1972(May),3(5),70-72. ;English

Citation 376

Peters, J. J. , R. Wollast ;Laboratoire de Recherches Hydrauliques, Antwerp (Belgium) ;Role of the Sedimentation in the Self-Purification of the Scheldt Estuary ;In: Proceedings of the Third Federal Inter-Agency Sedimentation Conference, Denver, Colorado, 22-25(Mar)1976, Water Resources Council, Washington, DC, Sedimentation Committee ;1976,3-77 - 3-86. ;English

Citation 377

Peterson, D. H. ;US Geological Survey, 345 Middlefield Road, Menlo Park, CA94025 ;Oxygen, Carbon & Nitrogen (OCN) Distributions in Eutrophic Potomac River-Estuary ;American Geophysical Union, Spring Meeting, Miami Beach FL 17- 21 (Apr) 1978 ;1978,782 2126. ;English

Citation 378

Peterson, David H. , John F. Festa, T. John Conomos ;US Geological Survey, 345 Middlefield Road, Menlo Park, CA 94025 ;Numerical Simulation of Dissolved Silica in the San Francisco Bay ;Estuarine Coastal Mar Sci ;1978,7,99-116. ;English

Citation 379

Petti, M. J. ;Rhode Island Univ. , Kingston, RI, Dept. of Civil and Environmental Engineering ;Phosphorus Exchange at the Sediment-Water

Interface of Selected Narragansett Bay Sediments ;Rhode Island Univ. ;1975, MS Dissertation, 89p. ;English

Citation 380

Pheiffer, T. H. , D. K. Donnelly , D. A. Possehl ;US Environmental Protection Agency, Annapolis Field Office, Annapolis, MD ;Water Quality Conditions in the Chesapeake Bay System ;US EPA ;1972(Aug), Technical Rep. No. 55,48p. ;English

Citation 381

Platt, Trevor, Christiane Filion ;Fisheries Research Board of Canada, Marine Ecology Laboratory, Bedford Institute of Oceanography, Dartmouth, Nova Scotia ;Spatial Variability of the Productivity: Biomass Ratio for Phytoplankton in a Small Marine Basin ;Limnol Oceanogr ;1973(Sept),18(5),743-749. ;English

Citation 382

Platt, Trevor, D. V. Subba Rao ;Bedford Inst. , Dartmouth (Nova Scotia), Marine Ecology Lab ;Primary Production Measurements on a Natural Plankton Bloom ;J Fish Res Board Can ;1970,27(5),887-899. ;English

Citation 383

Poirrier, Michael A. , James S. Rogers, Maureen A. Mulino, Elliot St. Eisenberg ;New Orleans Univ. , LA Dept. of Biological Sciences ;Epifaunal Invertebrates as Indicators of Water Quality in Southern Lake Pontchartrain ;WRRI Louisiana ;1975(May), Rep. No. TR-5,52p. ;English

Citation 384

Polishchuk, L. N. ; ;Zooplankton of the Dniester Estuary and Adjacent Seaside under Anthropogenic Influences ;Gidrobiol Zh ;1976,12 (6),37-45. ;English

Citation 385

Pomeroy, L. R. , E. E. Smith , Carol M. Grant ;Dept. of Zoology and Marine Institute, University of Georgia, Athens, GA ;The Exchange of Phosphate between Estuarine Water and Sediments ;Limnol Oceanogr ;1965,10(2),162-167. ;English

Citation 386

Pomeroy, Lawrence R. , L. R. Shenton, R. D. Jones, Robert J. Reimold ;Department of Zoology, Computer Center, Department of

Statistics, and Marine Institute, University of Georgia, Athens and Sapelo Island, GA ;Nutrient Flux in Estuaries ;In: Nutrients and Eutrophication: the Limiting-Nutrient Controversy, Amer. Soc. of Limnology & Oceanography, Inc. ;1972, Spec. Symp. Vol. 1,274-293. ;English

Citation 387

Poon, C. P. C. ;Rhode Island Univ. , Kingston Dept. of Civil and Environmental Engineering ;Nutrient Exchange in Water-Sediment Interface and its Effects on Water Quality ;Rhode Island Univ. ;1975, Completion Rep. OWRT B-052-RI(I),13p. ;English

Citation 388

Poore, G. C. B. , J. D. Kudenov ;Victoria Ministry for Conservation, Melbourne(Australia), Marine Pollution Studies Group ;Benthos around an Outfall of the Werribee Sewage Treatment Farm, Port Phillip Bay, Victoria ;Aust J Mar Freshwater Res ;1978,29,157-167. ;English

Citation 389

Poore, Gary C. B. , Jerry D. Kudenov ;Marine Studies Group, Ministry for Conservation, 605 Flinders Street Extension, Melbourne, Vic. 3000 ;Benthos of the Port of Melbourne: The Yarra River and Hobsons Bay, Victoria ;Aust J Mar Freshwater Res ;1978,29,141-155. ;English

Citation 390

Potera, G. T. , E. E. MacNamara ;Lehigh Univ. , Bethlehem, PA , Dept. of Biology ;*Spartina alterniflora* (Tall) Productivity in a Polluted New Jersey Estuary ;Bull N J Acad Sci ;1972,17(1),13-14. ;English

Citation 391

Qasim, S. Z. , S. Wellershaw, P. M. A. Bhattachari, S. A. H. Abidi ;National Inst. of Oceanography, Cochin (India), Biological Oceanographic Div. ;Organic Production in a Tropical Estuary ;Proc Indian Acad Sci ;1969(Feb),69(2)B, 51-94. ;English

Citation 392

Ralston, Stephen ;University of Hawaii, Department of Zoology, Honolulu, HA 96822 ;Anomalous Growth and Reproductive Patterns in Populations of

- Chaetodon miliaris (Pisces, Chaetodontidae) from Kaneohe Bay, Oahu, Hawaiian Islands ;Pac Sci ;1976,30(4),395-403. ;English
- Citation 393
- Raymont, J. E. G. ;University College, Southampton ;Further Observations on Changes in the Bottom Fauna of a Fertilized Sea Loch ;J Mar Biol Assoc UK ;1949,28,9-19. ;English
- Citation 394
- Raymont, J. E. G. ;Department of Oceanography, The University Southampton, Great Britain ;Some Aspects of Pollution in Southampton Water ;Proc R Soc Lond B Biol Sci ;1972,180,451-468. ;English
- Citation 395
- Read, P. A. , T. Renshaw, K. J. Anderson ;Napier College of Commerce and Technology, Colinton Road, Edinburgh EH105DT ;Pollution Effects on Intertidal Macrofaunal Communities ;J Appl Ecol ;1978,15,15-31. ;English
- Citation 396
- Reeburgh, W. S. ;Alaska Univ. , College, Inst. of Marine Science ;Processes Affecting Gas Distributions in Estuarine Sediments ;In: Environmental Framework of Coastal Plain Estuaries; 18th Annual Meeting of Southeastern Section of the Geological Society of America, 10-11(Apr)1969, Columbia, SC ;1972, Memoir 133,383-389. ;English
- Citation 397
- Reeburgh, William S. ;Johns Hopkins Univ. , Baltimore, MD, Chesapeake Bay Inst. ;Observations of Gases in Chesapeake Bay Sediments ;Limnol Oceanogr ;1969(May),14(3),368-375. ;English
- Citation 398
- Regier, Henry A. ;College of Fisheries, Univ. of Washington ;A Balanced Science of Renewable Resources with Particular Reference to Fisheries ;Univ. of Washington Press, Seattle, WA 98195 ;0-295-95602-X, 108p. ;English
- Citation 399
- Reish, Donald J. ;California State College, Long Beach, CA ;Marine and

Estuarine Pollution ;Water Pollut Control Fed ;1972(June),44(6),1218-1226. ;English

Citation 400

Reish, Donald J. ;Department of Biology, California State College, Long Beach, CA ;Biological Changes in Los Angeles Harbor following Pollution Abatement ;Calif Mar Res Comm ;1972, CalCOFI Rep. 16,118-121. ;English

Citation 401

Renfro, W. C. ;Bureau of Commercial Fisheries, Galveston, TX, Biological Lab. ;Gas-Bubble Mortality of Fishes in Galveston Bay, Texas ;Trans Am Fish Soc ;1963,92,320-322. ;English

Citation 402

Resource Planning Section, Office of Planning and Research, Georgia Department of Natural Resources ;Atlanta, GA ;The Environmental Impact of Freshwater Wetland Alterations on Coastal Estuaries ;GA Dept Nat Resour ;1976(June), Technical Planning Seminar, 85p. ;English

Citation 403

Revelante, Noelia, Malvern Gilmartin ;Center for Marine Research, 'Institute Rudjer Boskovic', 52210 Rovinj, Yugoslavia ;Characteristics of the Microplankton and Nanoplankton Communities of an Australian Coastal Plain Estuary ;Aust J Mar Freshwater Res ;1978,29,9-18. ;English

Citation 404

Riley, Gordon A. ;Bingham Oceanographic Laboratory, Yale University ;Organic Aggregates in Seawater and the Dynamics of Their Formation and Utilization ;Limnol Oceanogr ;1963,8(4),372-381. ;English

Citation 405

Rohatgi, Naresh, Kenneth Y. Chen ;Environmental Engineering Prog. , Univ. of Southern California, Los Angeles, CA ;Transport of Trace Metals by Suspended Particulates on Mixing with Seawater ;J Water Pollut Control Fed ;1975(Sept),47(9),2298-2316. ;English

Citation 406

Roman, M. R. ;New Hampshire Univ. , Durham, NH, Dept. of Zoology ;Tidal Resuspension in Buzzards Bay, Massachusetts. II. Seasonal Changes in the Size Distribution of Chlorophyll, Particle

Concentration, Carbon and Nitrogen in Resuspended Particle Matter ;Estuarine Coast Mar Sci ;1978(Jan),6(1),47-53. ;English

Citation 407

Rosenbaum, Arlene, A. Y. Kuo, Bruce J. Neilson ;Virginia Institute of Marine Science, Gloucester Point, VA 23062 ;A Water Quality Model of the Pagan River ;Appl Mar Sci Ocean Eng ;1977(Oct), Special Rep. 148,102p. ;English

Citation 408

Rosenbaum, Arlene, Bruce Neilson ;Virginia Institute of Marine Science, Gloucester Point, VA 23062 ;Water Quality in the Pagan River ;Appl Mar Sci Ocean Eng ;1977(Oct), Special Rep. 132,62p. ;English

Citation 409

Rosenberg, R. ;Sweden Water and Air Pollution Research Lab. , Goteborg ;Benthic Faunal Dynamics During Succession Following Pollution Abatement in a Swedish Estuary ;Oikos ;1976,27(3),414-427. ;English

Citation 410

Rowe, G. T. , C. H. Clifford, K. L. Smith ;Woods Hole Oceanographic Institution, MA ;Benthic Nutrient Regeneration and its Coupling to Primary Productivity in Coastal Waters ;Nature ;1975(May),255,215-217. ;English

Citation 411

Russell, Clifford S. ;Resources for the Future, Inc. , Washington, DC ;Ecological Modeling in a Resource Management Framework ;National Oceanographic and Atmospheric Administration, Marine Ecosystems Analysis Program, Proceedings of a Symposium ;1975 (Jul), Library of Congress Catalog Card No. 75- 15108,400p. ;English

Citation 412

Ryther, J. H. , W. M. Dunstan, K. R. Tenor, J. E. Huguenin ;Woods Hole Oceanographic Institution, MA ;Controlled Eutrophication-Increasing Food Production from the Sea by Recycling Human Wastes ;BioScience ;1972(Mar),22(3),144-152. ;English

Citation 413

Ryther, John H. , William M. Dunstan ;Woods Hole Oceanographic Institution, Woods Hole, MA 02543 ;Nitrogen, Phosphorus, and

Eutrophication in the Coastal Marine Environment ;Science ;1971(Mar),171(3975),1008-1013. ;English

Citation 414

Sakshaug, E. , S. Mykiestad ;Trondheim Univ. (Norway), Biological Station ;Studies on the Phytoplankton Ecology of the Trondheimsfjord: III. Dynamics of Phytoplankton Blooms in Relation to Environmental Factors, Bioassay Experiments and Parameters for the Physiological State of the Populations ;J exp mar Biol Ecol ;1973,11(2),157-188. ;English

Citation 415

Sales, Henry J. , R. V. Thomann ;Hydroscience, Westwood, NJ 65807 ;A Steady-State Phytoplankton Model of Chesapeake Bay ;J Water Pollut Control Fed ;1978,50,2752-2770. ;English

Citation 416

Sanders, James G. ;Marine Science Program, University of North Carolina, Chapel Hill, NC 27514 ;Enrichment of Estuarine Phytoplankton by the Addition of Dissolved Manganese ;Mar Environ Res ;1978,1,59-. ;English

Citation 417

Saylor, G. S. , J. D. Nelson, Jr. , A. Justice, R. R. Colwell ;Maryland Univ. , College Park, Dept. of Microbiology ;Distribution and Significance of Fecal Indicator Organisms in the Upper Chesapeake Bay ;Appl Microbiol ;1975(Oct),30(4),625-638. ;English

Citation 418

Schmoeger, Donald R. , Nelson L. Nemerow, Emil J. Genetelli ;Nestle Company, Marysville, OH 43040 ;A Batch Algal Bioassay Procedure for Assessing Potential Eutrophication ;In: Proceedings of the 29th Industrial Waste Conference 7- 9(May)1974. Purdue Univ. ;1974, Eng. Extension Ser. No. 145,897-904. ;English

Citation 419

Schofield, W. R. , R. G. Krutchkoff ;Virginia Polytechnic Inst. and State Univ. , Blacksburg, VA 24061 ;Deterministic Model of Dynamic Eutrophic Estuary ;J Environ Eng Div Am Soc Civ Eng ;1974(Aug),100(EE4),979-996. ;English

Citation 420

Schofield, William A. , Richard G. Krutchkoff ;Virginia Polytechnic Inst.

and State Univ. , Blacksburg, VA ;Stochastic Model for a Dynamic Ecosystem ;WRRI Virginia(Blacksburg) ;1973 , Bull. No. 60. ;English

Citation 421

Schubel, J. R. ;Director of Marine Sciences Research Center, State University of New York, Stony Brook, NY 11794 ;Fine Particles and Water Quality in the Coastal Marine Environment ;The Institute of Electrical and Electronics Engineers, Inc. ;1976, Annals No. 75CH1004-I 34-2,9p. ;English

Citation 422

Schubel, J. R. , C. H. Morrow, W. B. Cronin ;Maryland Fish and Wildlife Administrations, Annapolis, MD ;Suspended Sediment Data Summary March 1966-May 1967, Upper Chesapeake Bay (Tolchester to Havre de Grace) ;John Hopkins Univ. ;1968(Nov), Chesapeake Bay Inst. Spec. Rep. 14,60p. ;English

Citation 423

Schultz, D. M. , J. G. Quinn ;USGS, National Center MS 973, Reston, VA 22092 ;Suspended Material in Narragansett Bay: Fatty Acid and Hydrocarbons Composition ;Org Chem ;1977,1,27-36. ;English

Citation 424

Scott, B. D. ;Division of Fisheries and Oceanography, CSIRO, P. O. Box 21, Cronulla, N. S. W. 2230 ;Phytoplankton Distribution and Light Attenuation in Port Hacking Estuary ;Aust J Mar Freshwater Res ;1978,29,31-44. ;English

Citation 425

Seabloom, R. W. ;Washington Univ. , Seattle, WA, Coll. of Engineering ;Water Pollution by Sewage from Water Craft ;In: Colloque International sur l'Exploitation des Oceanis, Bordeaux, France ;1971(Mar), Theme I Tome I, 13p. ;English

Citation 426

Segar, D. A. , A. Y. Cantillo ;National Oceanic and Atmospheric Administration, Miami, FL, Atlantic Oceanographic and Meteorological Labs ;Some Considerations on Monitoring of Trace Metals in Estuaries and Oceans ;In: International Conference on Environmental Sensing and

Assessment. 14-19(Sept), Las Vegas, NV ;1975, Vol. 1,6-5-1 - 6-5-5. ;English

Citation 427

Senupta, Subrata, Samuel S. Lee, Harvey P. Miller ;Miami Univ. , Coral Gables, FL, Dept. of Mechanical Engineering ;Three-Dimensional Numerical Investigations of Tide and Wind- Induced Transport Processes in Biscayne Bay ;Miami Univ. ;1978(July), SG Technical Bull. 39, 137p. ;English

Citation 428

Seyb, Les, Karen Randolph ;Corvallis Environmental Research Lab. , OR ;North American Project--A Study of U. S. Water Bodies. (A Report for the Organization for Economic Cooperation and Development) ;US Environmental Protection Agency ;1977(July), EPA/600/3-77/086, 548p. ;English

Citation 429

Shabman, I. A. , P. M. Ashton ;Virginia Polytechnic Inst. and State Univ. , Blacksburg, Dept. of Agricultural Economics ;Citizen Attitudes Toward Management of the Chesapeake Bay ;WRRC Virginia (Blacksburg) ;1976(Feb), VWRRC Bull. 96,69p. ;English

Citation 430

Shapiro, Joseph, Roberto Ribeiro ;Johns Hopkins Univ. , Baltimore, MD, Dept. of Sanitary Engineering and Water Resources ;Algal Growth and Sewage Effluent in the Potomac Estuary ;J Water Pollut Control Fed ;1965(July), 37(7), 1034-1042. ;English

Citation 431

Simidu, Usio, Emiko Kaneko, Nobuo Taga ;Ocean Research Institute, University of Tokyo, Minamidai, Nakano-ku, Tokyo, Japan ;Microbiological Studies of Tokyo Bay ;Microb Ecol ;1977,3,173-191. ;English

Citation 432

Simmonds, M. A. ;Consulting Chemical Engineer, 82 Central Avenue, St. Lucia, Queensland 4067, Australia ;Experience with Algal Blooms and

the Removal of Phosphorus from Sewage ;Water Res ;1973(Feb),7(1/2),255-264. ;English

Citation 433

Simon, J. L., W. H. Huang ;University of South Fla. , School of Natural Sciences, 4202 E. Fowler Ave. , Tampa, FL 33620 ;Effects of Sewage Pollution Abatement on Hillsborough Bay ; ;research still in progress ;English

Citation 434

Sinclair, Michael, Edric Keighan, Jerry Jones ;Section d'Oceanographie, Universite du Quebec a Rimouski, Rimouski, Que. G5L3A1 ;ATP as a Measure of Living Phytoplankton Carbon in Estuaries ;J Fish Res Board Can ;1979, 36, 180-186. ;English

Citation 435

Sinha, Evelyn ;P. O. Box 989, La Jolla, CA 92037 ;Coastal/Estuarine Pollution, an Annotated Bibliography ;Ocean Engineering Information Series ;1970, Vol. 3,87p. ;English

Citation 436

Sinha, Evelyn ;Ocean Engineering Information Service, P. O. Box 989, La Jolla, CA 92037 ;Methods, Models & Instruments for Studies of Aquatic Pollution, An Annotated Bibliography ;Ocean Engineering Information Series ;1971, Vol. 5,29p. ;English

Citation 437

Slotta, L. S., Scott M. Noble ;Oregon State University, Ocean Engineering, Corvallis, OR 97331 ;Use of Benthic Sediments as Indicators of Marina Flushing ;Oregon State Univ. ;1977(Oct), ORESU-T-77-007, 56p. ;English

Citation 438

Smith, B. N. ;Texas Univ. , Austin Dept. of Botany ;The Role of Sea Grasses and Benthic Algae in the Geochemistry of Trace Metals in Texas Estuaries ;Texas Univ. ;1974(Oct), Completion Rep. OWRT B-175-TEX(1),6p. ;English

Citation 439

Smith, Eric M. , Charles P. Gerba, Joseph L. Melnick ;Department of Virology and Epidemiology, Baylor College of Medicine, Houston, TX 77030 ;Role of Sediment in the Persistence of Enteroviruses in the

Estuarine Environment ;Appl Environ Microbiol ;1978(Apr),35(4),685-689.
;English

Citation 440

Smith, K. L., Jr., Gilbert T. Rowe, Jean Ann Nichols ;Woods Hole Oceanographic Institution, Woods Hole, MA 01543 ;Benthic Community Respiration Near the Woods Hole Sewage Outfall ;Estuarine Coastal Mar Sci ;1973,10,65-70. ;English

Citation 441

Smith, R. E. ;California State Univ. , San Jose, CA, Dept. of Natural Science ;The Hydrography of Elkhorn Slough, a Shallow California Coastal Embayment ;Moss Landing Marine Laboratories, Moss Landing Harbor, CA ;1973, Technical Pub. 73-2,88p. ;English

Citation 442

Smith, William G. , Day, John W. ;Louisiana State University, Louisiana Water Resources Research Institute ;Enrichment of Marsh Habitats with Organic Wastes ;WRRI Louisiana ;1973 (Nov), OWRR A-033-LA, 7 p. ;English

Citation 443

Smyth, J. C. , D. J. Curtis, I. Gibson, M. Wilkinson ;Department of Biology, Paisley College of Technology, 41B Mossvale Street, Paisley, Scotland ;Intertidal Organisms of an Industrialized Estuary ;Mar Poll Bull ;1974,5(12),188-191. ;English

Citation 444

Soerensen, J. ;Univ. of Aarhus, Inst. of Ecology and Genetics, Ny Munkegade, DK-8000 Aarhus C, Denmark ;Capacity for Denitrification and Reduction of Nitrate to Ammonia in a Coastal Marine Sediment ;Appl Environ Microbiol ;1978(Feb),35(2),301-305. ;English

Citation 445

Sorokin, Yu. I. , I. W. Konovalova ;Institute of Biology of Inland Waters, Academy of Sciences USSR, Borok, Yaroslavl ;Production and Decomposition of Organic Matter in a Bay of the Japan Sea during the Winter Diatom Bloom ;Limnol Oceanogr ;1973(Nov),18(6),962-967. ;English

Citation 446

Soule, Dorothy F. , M. Oguri, John D. Soule ;University of Southern California, Los Angeles, CA, Inst. for Marine and Coastal Studies

;You Can Tailor Effluent BOD to Fit the Receiving-Water Ecosystem. . . and Enhance the Environment. Urban and Fish- Processing Wastes in the Marine Environment: Bioenhancement Studies at Terminal Island, California ;Bull Calif Water Pollut Contr Assoc ;1978(July),15(1),58-63. ;English

Citation 447

Soule, Dorothy F. , Mikihiko Oguri ;University of Southern California, Los Angeles, CA, Inst. of Marine and Coastal Studies ;Marine Studies of San Pedro, California. Part 12: Bioenhancement Studies of the Receiving Waters in Outer Los Angeles Harbor ;Sea Grant Program ;1976(Dec), Rep. No. USC-SG-5-76,284p. ;English

Citation 448

Specht, D. T. ;Eutrophication and Lake Restoration Branch, Corvallis Environmental Research Center, Corvallis, OR ;Seasonal Variation of Algal Biomass Production Potential and Nutrient Limitation in Yaquina Bay, Oregon ;In: Proceedings Biostimulation and Nutrient Assessment Symposium, Utah State Univ. , Logan, UT ;1975(Sept), PRWG168-1,149-174. ;English

Citation 449

Spiker, E. C. ; ;Carbon Isotope Distribution in Eutrophic Potomac River Estuary ;American Geophysical Union, Spring Meeting, Miami Beach, FL 17-21 (Apr) 1978 ;1978,782 2126. ;English

Citation 450

Stanley, Donald W. , John E. Hobbie ;North Carolina Water Resour. Res. Inst. , Raleigh, N C ;Nitrogen Recycling in the Chowan River ;WRRI North Carolina ;1977, UNC-WRRI-77-121,142 p. ;English

Citation 451

Stauble, Jane F. , Douglas H. Wood ;Virginia Institute of Marine Science, Gloucester Pt. , VA 23062 ;The Chesapeake Bay Bibliography, Vol. 3, Maryland Waters ;VIMS ;1975(Jan), Special Sci. Rep. No. 73. ;English

Citation 452

Steed, David L. , B. J. Copeland ;The University of Texas Marine Science Institute at Port Aransas, TX ;Metabolic Responses of Some Estuarine

Organisms to an Industrial Effluent ;Texas Insti Mar Sci,
Contributions ;1967,12,143-159. ;English

Citation 453

Steele, J. H., I. E. Baird ;Marine Laboratory, Aberdeen ;Relations
between Primary Production, Chlorophyll and Particulate Carbon ;Limnol
Oceanogr ;1961,6(1),68-78. ;English

Citation 454

Steele, J. H., I. E. Baird ;Marine Laboratory, Aberdeen ;Further
Relations between Primary Production Chlorophyll, and Particulate
Carbon ;Limnol Oceanogr ;1962,7(1),42-47. ;English

Citation 455

Stevenson, J. Court, Nedra M. Confer ;University of Maryland, Horn Point
Environmental Laboratories, Box 775 Cambridge, MD 21613 ;Summary of
Available Information on Chesapeake Bay Submerged Vegetation ;Univ. of
Maryland ;1978(Aug), FWS/OBS-78/66. ;English

Citation 456

Stevenson, L. Harold, R. R. Colwell ; ;Estuarine Microbial Ecology
;Belle W. Baruch Symposium in Marine Sciences, 1st. , University of
South Carolina Press, Columbia, SC ;1973,536p. ;English

Citation 457

Stewart, R. Keith, William Marcus Ingram, Kenneth M. Mackenthum, et al.
;Robert A. Taft Sanitary Engineering Center, Cincinnati, OH ;Water
Pollution Control, Waste Treatment and Water Treatment, Selected
Biological References on Fresh and Marine Waters ;Federal Water
Pollution Control Administration ;1966, Publication No. WP-23,126p.
;English

Citation 458

Stirling, Hadrian P. , Ann P. Wormald ;Fisheries Research Station,
Aberdeen, Hong Kong ;Phosphate/Sediment Interaction in Tolo and Long
Harbours, Hong Kong, and its Role in Estuarine Phosphorus
Availability ;Estuarine Coastal Mar Sci ;1977,5,631-642. ;English

Citation 459

Stockner, J. G. , A. C. Costella ;Fisheries and Marine Service, West
Vancouver (British Columbia), Pacific Environment Inst. ;Marine

- Phytoplankton Growth in High Concentrations of Pulp Mill Effluent ;J Fish Res Board Can ;1976(Dec),33(12),2758-2765. ;English
- Citation 460
- Stockner, John G. , David D. Cliff ;Department of Fisheries and Oceans, Pacific Environment Institute, West Vancouver, BC V7V 1N6 ;Phytoplankton Ecology of Vancouver Harbor ;J Fish Res Board Can ;1979(Jan),36(1),1-10. ;English
- Citation 461
- Stoicovici, Lucia ;Cent. Rech. Biol. Str. Republicii 48, Cluj-Napoca, Rom. ;Interdependency between Species, Phytoecoses and the Substrate in Oligotrophic and Eutrophic Marshes ;Rev Roum Biol ;1978,23(1),11-16. ;French
- Citation 462
- Straskraba, Milan ;Hydrobiological Laboratory of the Botanical Institute, Czechoslovac Academy of Sciences, CS-15105 Prague (Czechoslovakia) ;Natural Control Mechanisms in Models of Aquatic Ecosystems ;Ecol Model ;1979,6,305-321. ;English
- Citation 463
- Stumm, W. ;Swiss Federal Inst. of Technology, Leonhardstrasse 33, ; 8006 Zuerich, Switz. ;Man's Acceleration of Hydrogeochemical Cycling of Phosphorus: Eutrophication of Inland and Coastal Waters ;Water Pollut Control ;1975,74 (2),124-133. ;English
- Citation 464
- Stumm, W. ;Eidgenoessische Anstalt fuer Wasserversorgung, Abwasserreinigung und Gewaesserschutz, Zurich (Switzerland) ;The Acceleration of the Hydrogeochemical Cycling of Phosphorus ;Water Res ;1973(Feb),7(1/2),131-144. ;English
- Citation 465
- Sutcliffe, W. H. , Jr. ;Bedford Inst. , Dartmouth (Nova Scotia), Marine Ecology Lab. ;Some Relations of Land Drainage, Nutrients, Particulate Material, and Fish Catch in Two Eastern Canadian Bays ;J Fish Res Board Can ;1972,29(4),357-362. ;English
- Citation 466
- Szyperski, James P. , Jed Hirota, John Caperon, David A. Zieman ;University of Hawaii, Department of Oceanography, Honolulu, HA 96822 ;Nutrient Regeneration by the Larger Net Zooplankton in the

Southern Basin of Kaneohe Bay, Oahu, Hawaiian Islands ;Pac Sci ;1976,30(4),363-372. ;English

Citation 467

Taft, J. L. , A. J. Elliott, W. R. Taylor ;Chesapeake Bay Institute, The Johns Hopkins University, Baltimore, MD ;Box Model Analysis of Chesapeake Bay Ammonium and Nitrate Fluxes ;In: Estuarine Interactions, edited by Martin L. Wiley, Academic Press ;1978,115-130. ;English

Citation 468

Taft, J. L. , Michael E. Loftus, W. Rowland Taylor ;Chesapeake Bay Institute, Johns Hopkins University, Baltimore, MD 21218 ;Phosphate Uptake from Phosphomonoesters by Phytoplankton in the Chesapeake Bay ;Limnol Oceanogr ;1977(Nov),22(6),1012-1021. ;English

Citation 469

Taft, J. L. , W. R. Taylor, J. J. McCarthy ;Chesapeake Bay Institute, The Johns Hopkins University; Baltimore, MD ;Uptake and Release of Phosphorus by Phytoplankton in the Chesapeake Bay Estuary, USA ;Mar Biol ;1975,33,21-32. ;English

Citation 470

Taga, N. , H. Kobori ;Ocean Research Institute, University of Tokyo, Nakano, Tokyo, Japan ;Phosphatase Activity in Eutrophic Tokyo Bay ;Mar Biol ;1978,49,223-229. ;English

Citation 471

Tamura, Yasushi ;Agric. Dep. , Nagoya Univ. , Nagoya, Japan ;Prevention of Eutrophication in an Estuary ;Suiri Kagaku ;1977,21(4),33-40. ;Japan

Citation 472

Taslakian, M. J. , J. T. Hardy ;American Univ. , Beirut, (Lebanon), Dept. of Biology ;Sewage Nutrient Enrichment and Phytoplankton Ecology Along the Central Coast of Lebanon ;Mar Biol ;1976,38,315-325. ;English

Citation 473

Taylor, W. R. ;Johns Hopkins Univ. , Baltimore, MD ;The Ecology of the

Plankton of the Chesapeake Bay Estuary ;NTIS ;Sept 1972- June 1973, NTIS Progress Rep. COO 32796,54p. ;English

Citation 474

Taysi, I. , N. van Uden ;Department of Microbiology, Botanical Institute, University of Lisbon, Lisbon, Portugal ;Occurrence and Population Densities of Yeast Species in an Estuarine-Marine Area ;Limnol Oceanogr ;1964,9(1),42-45. ;English

Citation 475

Tennyson, Pamela S. , Susan O. Barrick, Frank W. Wojcik, John J. Norcross, William J. Hargis, Jr. ;Virginia Inst. of Marine Science, Gloucester Pt. , VA 23062 ;The Chesapeake Bay Bibliography, Vol. 2, Virginia Waters ;VIMS ;1972(June), Special Sci. Rep. No. 63. ;English

Citation 476

Texas Water Development Board, Texas Dept. of Water Resources, ;Austin, TX ;Techniques for Evaluating the Effects of Water Resources Development on Estuarine Environments ;Texas Dept. of Water Resources ;1978, Accession No. 6039,314p. ;English

Citation 477

Thomann, R. V. , D. J. O'Conner, D. M. Di Toro ;Manhattan Coll. , Bronx, N Y 10471 Environmental Engineering and Science Program ;Modeling of the Nitrogen and Algal Cycles in Estuaries ;Proceedings, 5th International Water Pollution Research Conference ;1970(July-Aug), paper 111-9,14p. ;English

Citation 478

Thomann, Robert V. , Dominic M. Di Toro, Donald J. O'Connor ;Assoc. Prof. , Environmental Engrg. and Sci. Program, Manhattan Coll. , Bronx, NY ;Preliminary Model of Potomac Estuary Phytoplankton ;J Environ Eng Div Am Soc Civ Eng ;1974(June),100(EE3),699-715. ;English

Citation 479

Thomas, W. H. , D. L. R. Seibert, A. N. Dodson ;California Univ. , San Diego, La Jolla, CA, Inst. of Marine Resources ;Phytoplankton Enrichment Experiments and Bioassays in Natural Coastal Sea Water and

in Sewage Outfall Receiving Waters Off Southern California ;Estuarine Coast Mar Sci ;1974,2,191-206. ;English

Citation 480

Tilley, L. J. , W. A. Dawson ;Geological Survey, Tacoma, WA ;Plant Nutrients and the Estuary Mechanism in the Duwamish River Estuary, Seattle, Washington ;Geological Survey Res ;1971, Chapt. C, Paper 750-C, C185-191. ;English

Citation 481

Tilley, L. J. , W. L. Haushild ;Geological Survey, Menlo Park, CA ;Use of Productivity of Periphyton to Estimate Water Quality ;J Water Pollut Control Fed ;1975,47(8),2157-2171. ;English

Citation 482

Tomas, Carmelo R. ;Graduate School of Oceanography, Univ. of Rhode Island, Kingston, RI ;*Olisthodiscus luteus (Chrysophyceae)*. III. Uptake and Utilization of Nitrogen and Phosphorus ;J Phycol ;1979,15,5-12. ;English

Citation 483

Traaen, T. S. ;Norsk Institutt for Vanforskning, Blindern ;Biological Effects of Primary, Secondary, and Tertiary Sewage Treatment in Lotic Analog Recipients ;Verh Int Verein Limnol ;1975,19,2064-2069. ;English

Citation 484

Trident Engineering Associates, Inc. ;Annapolis, MD ;Chesapeake Bay Case Study ;Trident Eng Ass Inc ;1968(Sept),131p. ;English

Citation 485

Troup, B. N. , O. P. Bricker, J. T. Bray ;Case Western Reserve Univ. , Cleveland, OH, Dept. of Geology ;Oxidation Effect on the Analysis of Iron in the Interstitial Water of Recent Anoxic Sediments ;Nature ;1974(May),249,237-239. ;English

Citation 486

Tuffey, T. J. ;Rutgers-The State University, Brunswick, NJ ;The

Detection and Study of Nitrification in Streams and Estuaries ;Rutgers-The State University ;1973(Jan), PhD Dissertation ;English

Citation 487

Tuffey, T. J. , J. V. Hunter, V. A. Matulewich ;Rutgers - The State Univ. , New Brunswick, NJ, Water Resources Research Inst. ;Zones of Nitrification ;Water Resour Bull ;1974(June),10(3),555-564. ;English

Citation 488

Uda, M. , T. Nakao, A. Kishi ; ;Marine Pollution in Suruga Bay and Associated Environmental Change in Relation to Fisheries ;J Fac Mar Sci Technol, Tokai Univ ;1977,10,147-174. ;Japan

Citation 489

Uematsu, Mitsuo, Masao Minagawa, Hideyuki Arita, Shizuo Tsunogai ;Laboratory of Analytical Chemistry, Faculty of Fisheries, Hokkaido University ;Determination of Dry Weight of Total Suspended Matter in Seawater ;Bull Fac Fish Hokkaido Univ ;1978,29(2),164-172. ;Japan

Citation 490

United Nations Educational Scientific and Cultural Org. ;Paris, France ;A Comprehensive Plan for the Global Investigation of Pollution in the Marine Environment and Baseline Study Guidelines ;UNESCO, Intergov. Oceanogr Comm ;1976, Technical Ser. No. 14,42p. ;English

Citation 491

United Nations Environment Programme ; ;Preliminary Report on the State of Pollution of the Mediterranean Sea ;Intergovernmental Review Meeting of Mediterranean Coastal States on the Mediterranean Action Plan. Monaco, 9-14(Jan)1978 ;1978(Jan),208p. ;English

Citation 492

Upchurch, J. B. , J. K. Edzwald, C. R. O'Molia ;North Carolina Univ. , Chapel Hill, NC, Dept. of Environmental Sciences and Engineering ;Phosphates in Sediments of Pamlico Estuary ;Environ Sci Technol ;1974,8(1),56-58. ;English

Citation 493

Upchurch, Joseph B. ;North Carolina Univ. , Chapel Hill, NC, Dept. of Environmental Sciences and Engineering, N C ;Sedimentary Phosphorus in

the Pamlico Estuary of North Carolina ;Sea Grant Publication, NC ;1972(May), UNC-SG-72-03,45p. ;English

Citation 494

US Environmental Protection Agency ; ;Estuarine Pollution Control and Assessment, Proceedings of a Conference held at Pensacola, FL, 11-13(Feb)19751975 ;US EPA ;1977(Mar), 440/1-77-007A. ;English

Citation 495

US Environmental Protection Agency ;Annapolis Field Office, Annapolis, MD ;Survey Results of the Chesapeake Bay Input Study 1969-1970 ;US EPA ;1970, Data Rep. No. 31 , 26p. ;English

Citation 496

US Environmental Protection Agency ;Pacific Northwest Environmental Research Lab. , Corvallis, OR ;Marine Algal Assay Procedure: Bottle Test ;U S EPA ;1974 (Dec), EPA/660/3-75-008,51p. ;English

Citation 497

US Environmental Protection Agency ;Pacific Northwest Environmental Research Lab, Corvallis, OR ;Proceedings: Biostimulation and Nutrient Assessment Workshop ;US EPA ;1975(June), Ecol. Res. Ser. Rep. No. EPA-660/3-75- 034,325p. ;English

Citation 498

US Environmental Protection Agency ;Office of Water Planning and Standards, Washington, DC ;Estuarine Pollution and Assessment, Proceedings of a Conference, Volumes I andII ;US EPA ;1977(Mar), EPA 400/1-77-007 A, Vol. 1 381p. , Vol. 2 755p. ;English

Citation 499

Uyeno, Fukuzo ;Dalhousie Univ. , Halifax, Nova Scotia, Inst. of Oceanography ;Nutrient and Energy Cycles in an Estuarine Oyster Area ;J Fish Res Board Can ;1966,23(11),1635-1652. ;English

Citation 500

Vaccaro, Ralph F. ;Woods Hole Oceanographic Institution, Woods Hole, MA

02543 ;The Response of Natural Microbial Populations in Seawater to Organic Enrichment ;Limnol Oceanogr ;1969,14(5),726-735. ;English

Citation 501

Vaceloet, E. ;Centre d'Oceanographie, Marseille (France), Station Marine d'Endoume ;Role of Vitamins in Bacterial-Plankton Relationships in Littoral Seawater and in Supralittoral Pools: II. Annual Evolution of Organisms which Produce Vitamin Synthesis ;Cah Biol Mar ;1975,16,383-394. ;English

Citation 502

Vanderborght, J-P. , R. Wollast, G. Billen ;Brussels Univ. (Belgium), Lab d'Environment ;Kinetic Models of Diagenesis in Disturbed Sediments. Part 2. Nitrogen Diagenesis ;Limnol Oceanogr ;1977(Sept),22(5),794-803. ;English

Citation 503

Vanderborght, J-P. , R. Wollast, G. Billen ;Brussels Univ. (Belgium), Lab. d'Environnement ;Kinetic Models of Diagenesis in Disturbed Sediments. Part 1. Mass Transfer Properties and Silica Diagenesis ;Limnol Oceanogr ;1977,22(5),787-793. ;English

Citation 504

Vanderborght, Jean-Pierre, Gilles Billen ;Institut de Chimie Industrielle (Environment), Universite de Bruxelles, Laboratorium voor Ekologie en Systematick, Universiteit te Brussel, Brussels, Belgium ;Vertical Distribution of Nitrate Concentration in Interstitial Water of Marine Sediments with Nitrification and Denitrification ;Limnol Oceanogr ;1975(Nov),20(6),953-961. ;English

Citation 505

Vaughn, J. M. ;New Hampshire Univ. , Durham ;The Use of Coliphage as an Index of Human Enterovirus Pollution in an Estuarine Environment ;New Hampshire Univ. ;1972, PhD Dissertation, 68p. ;English

Citation 506

Venugopalan, V. K. , A. Rajendran ;Centre of Advanced Study in Marine Biology, Porto-Novo-608 502, S. India ;Dissolved and Particulate

Nitrogen in Vellar Estuary ;Bull Dep Mar Sci Univ Cochin ;1975,7(4),885-897. ;English

Citation 507

Vernberg, F. J. , R. Bonnell, B. Coull, R. Dame, Jr. , P. DeCoursey, W. Kitchens, Jr. , B. Kjerfve, H. Stevenson, W. Vernberg, R. Zingmark ;Belle W. Baruch Institute for Marine Biology and Coastal Research, University of South Carolina, Columbia, SC 29208 ;The Dynamics of an Estuary as a Natural Ecosystem ;US Environmental Protection Laboratory, Office of Research and Development, Gulf Breeze, FL 32561 ;1977(Jan), EPA-600/3-77-016. ;English

Citation 508

Virginia Polytechnic Inst. and State Univ. ;Blacksburg, VA, Water Resources Research Center ;Annual Report for Fiscal Year 1971 ;WRRC Virginia(Blacksburg) ;1971(Sept), VPI-WRRC-Bull-46,133p. ;English

Citation 509

Vishniac, H. S. , G. A. Riley ;Yale University, New Haven, CT ;Cobalamin and Thiamine in Long Island Sound: Patterns of Distribution and Ecological Significance ;Limnol Oceanogr ;1961,6(1),36-41. ;English

Citation 510

Wagner, D. D. ;US Naval Acad. , Annapolis, MD 21402 ;An Investigation of the Physical Impact of Sewage Outflow on a River Estuarine Environment ;US Naval Academy, Trident Scholar Project Report ;1973(May), USNA-TSPR-50,72p. ;English

Citation 511

Waite, Thomas D. , Ralph Mitchell ;Sch. Eng. Environ. Des. , Univ. Miami, Coral Gables, FL ;Role of Benthic Plants in Fertilized Estuary ;J Sanit Eng Div Am Soc Civ Eng ;1972,98 (SA5),763-70 ;English

Citation 512

Waldichuk, M. ;Fisheries Research Board of Canada, Nanaimo (British Columbia), Biological Station ;Eutrophication Studies of a Shallow

Inlet on Vancouver Island ;J Water Pollut Control Fed ;1969,41(5) part I, 745-764. ;English

Citation 513

Waldichuk, M. ;Fisheries and Marine Service, West Vancouver (British Columbia), Pacific Environment Inst. ;Coastal Marine Pollution and Fish ;Ocean Manage ;1974,2,1-60. ;English

Citation 514

Wang, Lawrence K. , M. H. Wang, C. P. C. Poon, Jon Bergenthal ;Associate Professor, Dept. of Mechanical Engineering, Stevens Institute of Technology, Hoboken, NJ ;Chemistry of Nitrification-Denitrification Process ;J Environ Sci ;1978,21(6),23-28. ;English

Citation 515

Water Resources Engineers, Inc. ;Walnut Creek, CA ;Ecologic Modeling of Puget Sound and Adjacent Waters ;Water Resources Engineers, Inc. , Walnut Creek, CA ;1975 (Sep), WRE-11930-1,127p. ;English

Citation 516

Water Resources Research Inst. ;Oregon State University, OR ;The Quality of Oregon's Water Resources ;WRRI Oregon ;1971 (Aug), WRRI-9,25p. ;English

Citation 517

Water Resources Research Inst. ;Raleigh, NC ;Annual Report, 1 Jul 1969-30 Jun 1970 ;WRRI North Carolina ;1971, UNC-WRRI-71-00,33p. ;English

Citation 518

Webb, Kenneth L, C. L. D'Elia ;Virginia Institute of Marine Science, Gloucester Pt. , VA 23062 ;Nutrient and Oxygen Redistribution by Estuarine Spring-Neap Tidal Cycles in the York River, Virginia ;submitted to Science, (Apr)1979. ;English

Citation 519

Welch, Eugene ;Geological Survey, Washington, DC ;Factors Initiating Phytoplankton Blooms and Resulting Effects on Dissolved Oxygen in

Duwamish River Estuary, Seattle, Washington ;Geol Surv Water - Supply ;1969, Pap 1873-A, 62p. ;English

Citation 520

Welch, Eugene B. ;Geological Survey, Tacoma, WA ;Phytoplankton and Related Water-Quality Conditions in an Enriched Estuary ;J Water Pollut Control Fed ;1968,40(10),1711-1727. ;English

Citation 521

Welch, Eugene B. , Richard M. Emery, Robert I. Matsuda, William A. Dawson ;Department of Civil Engineering, University of Washington, Seattle, WA, 98195 ;The Relation of Periphytic and Planktonic Algal Growth in an Estuary to Hydrographic Factors ;Limnol Oceanogr ;1972,17(5),731-737. ;English

Citation 522

Wheeler, William Neilson ;University of California, Santa Barbara, CA ;Ecophysiological Studies on the Giant Kelp, *Macrocystis* ;Univ. of California ;1978, PhD Dissertation Order No. 7819144,193p. ;English

Citation 523

Whipple, William, Jr. , Joseph V. Hunter, Robert C. Ahlert, Shaw L. Yu ;Rutgers - The State Univ. , New Brunswick, NJ ;Estimating Runoff Pollution from Large Urban Areas - The Delaware Estuary ;Water Resources Research Inst ;1978(Jul), Rep. No. W78-12111,80p. ;English

Citation 524

White, A. W. ;Fisheries and Marine Service, St. Andrews (New Brunswick), Biological Station ;Dinoflagellate Toxins and Probable Cause of an Atlantic Herring (*Clupea harengus harengus*) Kill, and Pteropods as Apparent Vector ;J Fish Res Board Can ;1977,34,2421-2424. ;English

Citation 525

White, D. C. , J. S. Herron, J. D. King ;Florida State Univ. , Dept. of Biological Science, Tallahassee, FL 32306 ;Recovery of Poly-B-Hydroxybutyrate from Estuarine Microflora ;Appl Environ Microbiol ;1978(Feb),35(2),251-257. ;English

Citation 526

Whitfield, M. ;CSIRO Division of Fisheries and Oceanography, Cronulla,

NSW 2230, Australia ;Eh as an Operational Parameter in Estuarine Studies ;Limnol Oceanogr ;1969,14(4),547-558. ;English

Citation 527

Whitlock, C. H. , III ;Old Dominion Univ. , Norfolk, VA, Dept. of Civil Engineering ;Fundamental Analysis of the Linear Multiple Regression Technique for Quantification of Water Quality Parameters from Remote Sensing Data ;Old Dominion Univ. ;1977(May), PhD Dissertation, 176p. ;English

Citation 528

Wiley, Martin ;Chesapeake Biological Laboratory, University of Maryland, Center for Environmental and Estuarine Studies, Solomons, MD ;Estuarine Processes. Volume I. Uses, Stresses, and Adaptation to the Estuary ;International Estuarine Research Conf. , 3rd, Galveston, 1975, Academic Press, NY ;1976,54lp. ;English

Citation 529

Wilkinson, Martin , Anne R. Henderson , Christine Wilkinson ;Dept. of Brewing and Biological Sciences, Heriot-Watt Univ. , Edinburgh, Scotland ;Distribution of Attached Algae in Estuaries ;Mar Pollut Bull ;1976,7(10),183-184. ;English

Citation 530

Wilson, Robert E. , Akira Okubo ;Marine Sciences Research Center, State University of New York, Stony Brook, N Y 11794 ;Longitudinal Dispersion in a Partially Mixed Estuary ;J Mar Res ;1978 (Aug),36(3),427-447. ;English

Citation 531

Windom, Herbert L. ;Skidaway Inst. of Oceanography, Savannah, GA ;Unconfined Dumping of Dredge Spoil Said Better than Dike Method ;Work Boat, New Orleans ;1972(Oct),29(10),36,38,40,42. ;English

Citation 532

Wisconsin University ;Wisconsin University Water Resources Center, Madison, WI ;Eutrophication Abstracts ;Eutrophication Program, Madison, Abstracts ;1970(May)Issue No. 15,1970(Nov)Issue No. 21-1975(Apr)Issue No. 47. ;English

Citation 533

Witherspoon, A. M. , Charles Balducci, Oliver C. Boody, Jimmie Overton ;Department of Botany, North Carolina State University, Raleigh, NC

27650 ;Response of Phytoplankton to Water Quality in the Chowan River System ;WRRI North Carolina ;1978(June), Project No. B-091-NC. ;English

Citation 534

Wohlschlag, Donald E. , B. J. Copeland ;Texas Univ. , Port Aransas, Inst. of Marine Science ;Fragile Estuarine Systems-Ecological Considerations ;Water Resour Bull ;1970,6(1),94-105. ;English

Citation 535

Wollast, R. , F. DeBroeu ;Brussels Univ. (Belgium) ;Study of the Behavior of Dissolved Silica in the Estuary of the Scheldt ;Geochim Cosmochim Acta ;1971(Feb),35(2),613-620. ;English

Citation 536

Wong, George T. F. , Chester E. Grosch ;Institute of Oceanography, Old Dominion University, Norfolk, VA 23508 ;A Mathematical Model for the Distribution of Dissolved Silicon in Interstitial Waters--an Analytical Approach ;J Mar Res ;1978,36(4),735- ;English

Citation 537

Wood, Lindsay W. ;North Carolina State Univ. , Raleigh, NC, Dept. of Zoology ;The Role of Estuarine Sediment Microorganisms in the Uptake of Organic Solutes Under Aerobic Conditions ;North Carolina State Univ. ;1970, PhD Dissertation, 75p. ;English

Citation 538

Zabawa, C. F. ;South Carolina Univ. , Columbia, SC, Dept. of Geology ;Microstructure of Agglomerated Suspended Sediments in Northern Chesapeake Bay Estuary ;Science ;1978(Oct),202,49-51. ;English

Citation 539

Zemaitis, W. L. , Geraldine V. Cox ;Raytheon Environmental Research Laboratory, New London, CT 06320 ;Effects of Organic Enrichment on Benthic Fauna in a Tidal River ;Mar Technol Soc ;1971(Aug 16-18),7th Annual Conf. , 629-636. ;English

Citation 540

Zimmerman, M. S. ;Florida State Univ. , FL ;A Comparison of the Benthic Macrophytes of a Polluted Drainage System (Tenholloway River) with an

Unpolluted Drainage System (Econfina River) ;Florida State Univ.
;1974, MS Thesis ;English

Citation 541

Zison, Stanley W. , Kendall F. Haven, William B. Mills ;Tetra Tech, Inc. , Lafayette, CA 94549 , Athens, GA ;Water Quality Assessment: A Screening Method for Nondesignated 208 Areas ;US Environmental Protection Agency ;1977(Aug), EPA/600/9-77/023,1217p. ;English

Citation 542

Zison, Stanley W. , William B. Mills, Dennis Deimer, Carl W. Chen ;Tetra Tech, Inc. Lafayette, CA 94549 ;Rates, Constants, and Kinetics Formulations in Surface Water Quality Modeling ;US Environmental Protection Agency ;1978(Dec), EPA-600/3-78-105,335p. ;English

Citation 543

Zubchenko, I. Z. ;USSR, Astrakhan Fisheries Technical Inst. ;Biosorption by Marine Fish of Methianine and Urea Dissolved in Water ;J Ichthyol ;1977,17(2),336-341. ;English

INDEX

- Aberdeen
 Bay 453
 chlorophyll 453
 C14 453
 Fladen Ground 453
 North 453
 POC 453
 primary 453
 processes 453
 productivity 453
 Sea 453
 seasons 453
- abundance
 Albemarle 43
 algae 120
 alkalinity 383
 ammonia 43
 ammonium 113
 Anchoa mitchilli 32
 annelids 167
 assay 383
 Bay 32 389 499
 benthic 120 389
 Bight 113
 biomass 32 167
 carbon 499
 chlorophyll 43 113
 cycles 499
 distribution 113 383
 diversity 32 120 167 389 472
 DO 389
 Estuary 167 389
 fauna 167 389
 fish 32
 freshwater 113
 Galveston 32
 gastrotrichs 167
 Great Britian 120 167
 Hobsons 389
 hydrology 43
 indicator species 32 383 472
 indices 32
 invertebrates 383
 Lake 383
 land development 43
 Lebanon 472
 long term 120
 Malpeque 499
 microbes 167 499
 nematodes 167
- New Jersey 113
New York 113
nitrate 113
nitrite 113
nitrogen 43 499
North Carolina 43
nutrients 383 472
oligochaetes 167
oysters 499
pH 383
phosphate 113
phosphorus 43 499
phytoplankton 43 113 472
plankton 383
polychaetes 167
Pontchartrain 383
primary 43 383
productivity 43 383 499
reproduction 120
Rockaway Point 113
runoff 383
salinity 43 113 383 389
seasons 120
sewage 167 472
silica 113
Sound 43
suspended solids 113
Tees 167
temperature 43 113
Texas 32
Theora fragilis 389
toxicity 32
turbidity 43
wastes 32 120
Yarra 389
- Acartia
 Balanus 227
 Bay 227
 bloom 227
 Estuary 227
 Eurytemora 227
 latitudinal gradients 227
 Narragansett 227
 New Jersey 227
 nutrients 227
 organic matter 227
 phytoplankton 227
 Raritan 227
 Rhode Island 227
 salinity 227

seasons 227
Virginia 227
wastes 227
York 227
zooplankton 227
acetylene
 ammonia 444
 cannery 25
 denitrification 444
 Inlet 25
 intertidal 25
Klebsiella pneumoniae 25
 New Zealand 25
 nitrate 444
 nitrogen fixation 25
 nutrients 25
 reduction 444
 sediments 25 444
 sewage 25
 slaughterhouse 25
 Waimea 25
 wastes 25
acid extraction
 ATP 206
 charcoal adsorption 206
 methods 206
 sediments 206
 tris extraction 206
Actinetobacter
 bacteria 431
 Bay 431
 heterotrophic 431
 nutrients 431
 phytoplankton 431
 Sagami 431
 Suruga 431
 Tokyo 431
 Vibrios 431
 zooplankton 431
activated sludge
 denitrification 514
 nitrification 514
 respiration 514
adsorption
 clay 259
 nutrients 259
 organic 259
 pH 259
 phosphate 259
 phosphorus 259
salinity 259
sediment water 259
sewage 259
temperature 259
uptake rates 259
Virginia 259
advection
 Bay 42
 Chesapeake 42
 Coriolis 42
 hydrology 42
 model 42
 two dimensional 42
aerobic
 algae 537
 ammonium 172
 anaerobic 58 172
 assay 58
 ATP 172
 Bight 172
 biomass 537
 bloom 537
 calorific content 172
 coliforms 122 183
 Connecticut 58
 Copps Brook 58
 CO₂ 537
 cycles 183
 C14 537
 decomposition 172
 degradation 58
 density 537
 detritus 537
 DIC 172
 DOC 58 172
 Estuary 183
 hydrology 183
 interstitial 58
 macrophytes 537
 management 183
 metabolism 58
 microbes 58 122 183 537
 model 58 183
 New York 172
 nitrate 172
 nitrite 172
 nitrogen 183
 nutrients 58
 organic matter 58
 PC 172

plankton 122
 PN 172
 POC 58
 Potomac 183
 predictions 183
 processes 183
 real time 183
 red tide 122
 sediments 58 537
 sewage 122 172
 tetrazolium salt 58
 tides 183
 Transient Water Quality Network 183
 turnover rates 537
 uptake rates 537
 Vm 537
 water column 537
 watersheds 58
agencies
 Bay 18 61
 Chesapeake 18
 dredging 14
 fauna 18
 flora 18
 Florida 14
 local 14 61 159
 management 61 159
 methods 18
 participation 61
 public opinion 61 159
 resources 159
 San Francisco 61
 sewage 14
 state 14 159
 wetlands 14
Agnes
 Bay 415 421
 Chesapeake 415 421
 chlorophyll 415
 Estuary 415
 Hurricane 415 421
 Michaelis Menton 415
 model 415
 nitrogen 415
 phosphorus 415
 phytoplankton 415
 POM 421
 quasi linear 415
 sediments 421
 sewage 421
 soil erosion 421
 suspended solids 421
 Susquehanna 415
 wastes 415
agriculture
 algae bluegreen 218
 algae mats 60
 Australia 60
 canal 384
 Dniester 384
 Estuary 218 384
 fauna 384
 fertilizer 282 517
 flood control 517
 flushing 218
 Hudson 218
 hydrology 517
 industry 384 517
 Lagoon 60
 land development 517
 nitrate 218
 North Carolina 517
 nutrients 26 218 282 517
 Orielton 60
 pesticides 517
 phosphate 218
 point sources 218
 Potomac 218
 recreation 517
 resources 517
 runoff 26 60
 salinity 60
 sewage 60 218 384
 Tasmania 60
 temperature 60
 wastes 218 282 384
 watersheds 517
 wetlands 26
 zooplankton 384
agrochemicals
 alkalinity 455
 Bay 455
 boat traffic 455
 Chesapeake 455
 chlorine 455
 disease 455
 dredging 455
 epiphytes 455
 fauna 455

nutrients 455
oil 455
pH 455
salinity 455
specie key 455
submerged vegetation 455
temperature 455
trace metals 455
turbidity 455
water velocity 455
Aisne
 carbon 35
 Estuary 35
 France 35
 methods 35
 nitrogen 35
 oxidation rates 35
 Seine 35
 temperature 35
Alabama
 Bay 132
 hydrology 132
 interface salt fresh 132
 Mobile 132
 model 132
 momentum transfer 132
 sediments 132
 three dimensional 132
 time dependent 132
 transport 132
Alaska
 arctic 319
 benthic 319
 BOD 320
 Colville 7
 Cook 319 320
 DO 319
 Estuary 7
 fisheries 7
 hydrology 7
 Inlet 319 320
 microbes 319
 nitrogen 319
 nutrients 7
 organisms 319
 pH 319
 phosphorus 319
 plankton 319
 primary 7
 productivity 7
resources 7
salinity 319
sewage 319 320
silica 319
temperature 320
Albemarle
 abundance 43
 ammonia 43 450
 bloom 450
 C/N 450
 chlorophyll 43
 Chowan 450
 DIN 450
 DON 450
 Estuary 450
 hydrology 43
 land development 43
 nitrogen 43
 North Carolina 43 450
 phosphorus 43
 phytoplankton 43 450
 primary 43 450
 productivity 43 450
 salinity 43
 seasons 450
 Sound 43 450
 temperature 43
 turbidity 43
algae
 abundance 120
 aerobic 537
 ammonia 430
 Anabaena 312
 animals 89
 aquaculture 412
 assay 351 418 448 496 497
 bacteria 256 339
 batch culture 418
 Bay 72 133 140 448
 benthic 72 87 119 120 248 400
 438
 biomass 133 140 160 339 537
 birds 256 339 443
 bloom 432 537
 calcium 339
 California 400
 carbon 256 312 339
 Chesapeake 72 133 140
 Chlorella 312
 chlorophyll 140

Chlorophyta 430
Clyde 443
COD 442
Codium 497
community structure 89 256
continuous culture 160
CO₂ 312 432 537
crustaceans 256 339
Cyanophyta 430
C₁₄ 140 537
density 537
detritus 537
diversity 120
DO 72 81 216
Dunaliella 496
energy transfer 72
Enteromorpha 497
Estuary 81 87 89 119 133 216 430
443
fauna 87
feeding grounds 443
fish 256 339
foraminifera 72 256 339
Great Britian 119 120
growth rates 236 312
Harbor 400
heat 89
heterotrophic 256 339
hydrology 87 448
indicator species 400
industry 119 442
insects 256 339
intertidal 443
invertebrates 443
land development 216
life cycles 248
light 448
long term 120
Los Angeles 400
Louisiana 442
macrofauna 72
macrophytes 72 537
marshes 339 442
Maryland 430
meiofauna 256 339
metabolism 256
methods 351 418
microbes 72 133 216 343 442 537
microcosms 140
Microcystis 312
mining 87
model 438
molluscs 256 339
N/P 160
nitrogen 87 160 256 339
North Carolina 89
Norway 236
nutrients 72 89 160 216 236 343
442 448 496 497
oil 400
oligochaetes 400
Oregon 448
orthophosphate 133
Oslofjord 248
oysters 412
Pamlico 87
pH 432
phosphate 430
phosphorus 87 236 256 339 432
phytoplankton 72 87 256 339
polychaetes 400
pond experiment 89 256 339
Potomac 81 216 430
primary 140 236 343
productivity 89 140 256 339 343
reproduction 120
resources 216
respiration 89 343
Rhode 133
runoff 216 442
seagrass 438
seasons 89 120 248 448
secondary 236 343 430
sediments 537
sewage 72 89 119 140 160 236 256
339 343 400 412 418 430 432 442
448
South Creek 89
spatial distribution 248
Tees 119
temperature 89 448
temporal distribution 248
tertiary 236 339
Texas 438
tides 81
TOC 442
trace metals 72 216 438
turnover rates 537
Tyne 119
uptake rates 133 537

- viruses** 216
- Vm** 537
- wastes** 81 119 120 216 400 442
- water column** 537
- Wear** 119
- Yaquina** 448
- zooplankton** 72 87 140
- algae bluegreen**
 - agriculture** 218
 - algae mats** 243
 - ammonia** 247
 - bacteria** 243
 - Baltic** 335
 - Bay** 243
 - benthic** 335
 - biomass** 66 247 533
 - bloom** 533
 - British Columbia** 247
 - chlorophyll** 215
 - Chowan** 533
 - Cyanophyta** 254
 - cycles** 247
 - detergent** 335
 - diversity** 533
 - DO** 335
 - energy transfer** 335
 - Estuary** 66 215 218 533
 - fish** 335
 - fish kills** 254
 - flushing** 218
 - Guayanilla** 243
 - heterotrophic** 243
 - hosts** 254
 - Hudson** 218
 - indicator species** 254 335
 - macroalgae** 335
 - macrophytes** 247
 - management** 215
 - microbes** 247 254 533
 - mining** 66
 - model** 335
 - nitrate** 218
 - nitrogen** 66 247
 - nitrogen fixation** 243
 - North Carolina** 533
 - nutrients** 215 218
 - organisms** 335
 - Pamlico** 66
 - phosphate** 218 247
 - phosphorus** 66 247 533
 - phytoplankton** 66 533
 - point sources** 218
 - pool experiment** 66
 - Potomac** 215 218
 - primary** 335
 - productivity** 335
 - Puerto Rico** 243
 - Schizothrix calicola** 254
 - Sea** 335
 - sediments** 243 247
 - sewage** 215 218 335
 - symposium** 335
 - thermal** 243
 - uptake rates** 533
 - viruses** 254
 - wastes** 66 218
 - zooplankton** 335
 - algae colonial**
 - C14** 152
 - methods** 152
 - mucus** 152
 - primary** 152
 - productivity** 152
 - silica** 152
 - algae mats**
 - agriculture** 60
 - algae bluegreen** 243
 - Australia** 60
 - bacteria** 243
 - Bay** 243
 - benthic** 33
 - benthic oxygen demand** 33
 - Columbia** 357
 - Estuary** 33 130 357
 - Guayanilla** 243
 - heterotrophic** 243
 - indicator species** 357
 - Ireland** 130
 - Lagoon** 60
 - model** 33
 - mud flats** 130
 - nitrogen fixation** 243
 - nutrients** 130
 - Oregon** 33
 - organic** 130
 - Orielton** 60
 - Puerto Rico** 243
 - Rogerstown** 130
 - runoff** 60
 - salinity** 33 60

sediments 33 243
 sewage 60
 specie key 357
 sulfide 33
 Tasmania 60
 temperature 60
 thermal 243
 tides 33
 wastes 130
 Yaquina 33
 alkaline phosphatase
 ammonium 482
 Bay 468 470
 C/N 482
 carbon 482
 Chesapeake 468
 chlorophyll 470 482
 distribution 470
 diurnal 482
 DNA 470
 enzymes 470
 indices 470
 Ks 468 482
 microbes 142 470
 nitrate 482
 nitrogen 482
 nutrients 142
 Olisthodiscus luteus 482
 pH 142
 phosphate 142
 phosphomonoester 468
 phosphorus 468 470 482
 phytoplankton 468
 protein 470
 seasons 142
 seston 470
 sewage 142
 Tokyo 470
 uptake rates 482
 Vm 468
 alkalinity
 abundance 383
 agrochemicals 455
 ammonia 67 184 293
 assay 383
 Bay 67 184 293 380 455
 boat traffic 455
 Chesapeake 67 184 293 380 455
 chloride 293
 chlorine 184 455
 chlorophyll 47 67 184
 coliforms 380
 DC 380
 disease 455
 distribution 293 383
 DO 47 67 184 380
 dredging 455
 epiphytes 455
 Estuary 47 67 380
 fauna 455
 indicator species 383
 industry 380
 interstitial 293
 invertebrates 383
 iron 293
 James 47 380
 Lake 383
 manganese 293
 marshes 149
 Maryland 380
 nitrate 67 380
 nitrite 67
 nitrogen 67
 NO₂ 47
 NO₃ 47
 nutrients 149 380 383 455
 oil 455
 orthophosphate 184
 Patuxent 380
 pesticides 380
 pH 47 67 184 293 380 383 455
 phosphate 67 184 293 380
 phosphorus 47 149
 phytoplankton 47 67
 plankton 383
 PN 47
 Pontchartrain 383
 Potomac 67 380
 primary 383
 processes 184
 productivity 67 383
 Rappahannock 380
 redox potential 293
 runoff 383
 salinity 47 67 184 383 455
 seasons 293
 sediments 149 380
 sewage 380
 silica 149 293
 South Carolina 149

specie key 455
 submerged vegetation 455
 sulfate 184 293
 sulfide 184
 Susquehanna 380
 temperature 47 67 184 455
 trace metals 149 184 380 455
 turbidity 67 455
 vertical distribution 184
 Virginia 380
 wastes 380
 water velocity 455
 watersheds 380
 York 380
 zooplankton 67
 alpha fluorescence
 chlorophyll 329
 phytoplankton 329
 remote sensing 329
 amino acids
 ammonia 49
 bacteria 456
 bacteria proteolytic 456
 benthic 528
 carbohydrates 225 456
 clams 225
 conference 528
 cycles 528
 C14 456
 detritus 528
 fauna 456
 fish 528
 fisheries 528
 fungus 456
 glycine 225
 heterotrophic 456
 indices 456
 invertebrates 528
 management 528
 Mercenaria 225
 methods 456
 microbes 456 528
 nitrogen 528
 nitrogen fixation 49
 nutrients 528
 oil 225 456 528
 organisms 528
 pesticides 528
 phosphorus 49 528
 phytoplankton 456
 primary 49
 processes 456
 productivity 49
 pulp mill 456
 salinity 456
 seagrass 528
 sediments 49
 sewage 225 456
 silica 528
 stress 225 528
 symposium 456
 taurine 225
 thermal 456
 trace metals 456 528
 urea 528
 wetlands 528
 zooplankton 528
 ammonia
 abundance 43
 acetylene 444
 Albemarle 43 450
 algae 430
 algae bluegreen 247
 alkalinity 67 184 293
 amino acids 49
 animals 518
 Australia 388
 Bay 67 178 184 190 293 387 388
 466 473
 Bayou 314
 benthic 5 178 388
 biomass 62 203 247 466
 bloom 204 450 520
 BOD 311 477 487
 British Columbia 247
 C/N 62 450
 California 62 477
 carbon 387 473
 carbon/chlorophyll 62
 CBOD 407
 chambers 178
 Chesapeake 67 184 293 473
 Chlorella salina 69
 chloride 293
 chlorine 184
 chlorophyll 43 67 184 289 407
 473 481
 Chlorophyta 430
 Chowan 450
 COD 289

- coliforms 407
 Cyanophyta 430
 cycles 247 477
 Delaware 477
 Delta 477
 denitrification 157 190 444
 diatoms 5
 DIC 473
 DIN 450 477
 distribution 50 293
 diurnal 62
 DO 29 67 184 311 314 387 407 477
 518
 DOC 311 473
 DON 176 177 311 450 466
 DPO 466
 Duwamish 481 520
 enzymes 165
 Estuary 29 50 67 203 204 289 407
 430 450 477 481 518 520
 eutrophic 157
 exchange diffusion 123
 excretion rates 466
 fauna 388
 fertilizer 204 273
 fish 44
 Florida 314
 flux 178 387
 freshwater 204
 Georgia 176 177
 Hawaii 466
 hydrology 43 520
 indicator species 481
 inorganic 178 203 407
 interface salt fresh 311
 interstitial 293
 ion exchange 273
 iron 293
 Japan 190
 Kaneohe 466
 Ks 62
 laboratory culture 5
 land development 43
 macroinvertebrates 314
 macrophytes 157 247
 manganese 293
 Mangoku 190
 marshes 177
 Maryland 430
 metabolism 466
 methods 123 165 180
 microbes 203 247 487
 microcosms 387
 mining 203
 model 29 157 407 477
 Narragansett 178 387
 Neuse 204
 nitrate 5 50 67 69 123 157 176
 177 178 203 204 314 407 444 473
 481 487
 nitrification 157 487
 nitrite 5 50 67 176 177 178 311
 407 473 477 481 487
 Nitrobacter 487
 nitrogen 29 43 50 62 67 157 247
 387 407 477
 nitrogen fixation 49
 Nitrosomona 487
 North Carolina 43 203 204 450
 nutrients 50 62 203 289 387 388
 473 518
 N15 62 190
 one dimensional 407
 organic 50 157 407
 organic matter 157
 orthophosphate 5 184
 oxidation 477
 Pagan 407
 Pamlico 203
 percolator 165
 Periphyton 481
 pH 44 67 176 184 293 311
 phaeophytin 473
 phosphate 50 67 69 123 178 184
 203 247 273 293 314 430 466 481
 518 520
 phosphorus 43 49 204 247 289 387
 407 473
 phytoplankton 43 62 67 157 203
 204 314 407 450 477 520
 PON 177 190
 pools 177
 Port Phillip 388
 Potomac 67 289 430 477
 primary 5 43 49 62 450 473 481
 processes 157 184
 productivity 5 43 49 62 67 450
 473 481
 protein 69
 rainfall 176

real time 407
 redox potential 293
 reduction 444
 respiration 487
 Rhode Island 178 387
 Sacramento San Joquin 477
 salinity 43 44 50 67 69 184 204
 311 388 407
 seasons 50 293 450
 secondary 123 273 430
 sediment water 178 387
 sediments 49 165 190 247 289 387
 388 444
 sewage 62 69 204 273 388 430 520
 sewage treatment farm 388
 silica 293
 silicate 50
 Simoda 190
 size dependent 466
 Sound 43 450
 St Lawrence 50
 stochastic 477
 sulfate 165 184 293
 sulfide 184
 TDC 473
 temperature 43 44 50 67 178 184
 Texar 314
 Thames 29
 tidal creek 177
 tides 518
 TOC 314
 Tokyo 190
 trace metals 184 311 387
 turbidity 43 67
 uptake rates 69 157
 Ura 190
 urea 50 62 165
 vertical distribution 184
 Virginia 518
 Vm 62
 Washington 481 520
 wastes 123 204 481
 weight 289
 Werribee 388
 York 518
 zooplankton 67 157 314 466 477
 ammonium
 abundance 113
 aerobic 172
 alkaline phosphatase 482
 anaerobic 172
 animals 186
 ATP 172
 Bay 188 228 298 467
 Bight 113 172
 boundary layer 522
 C/N 188 482
 cadmium 210
 California 129
 calorific content 172
 carbon 394 482 522
 Chesapeake 298 467
 chlorophyll 113 482
 Chlorophyta 31
 Chrysaora quinquecirrha 38
 cycles 129 186 522
 decomposition 172
 DIC 172
 diffusion 467
 distribution 113
 diurnal 129 482
 DO 394
 DOC 172
 Estuary 31 186 467
 freshwater 113
 growth rates 188 522
 Hawaii 188
 Hudson 31
 inorganic 186
 Kaneohe 188
 kelp 522
 Ks 482 522
 light 31
 Macrocystis 522
 marshes 210
 methods 228
 model 467
 morphology 522
 New Jersey 113
 New York 113 172
 nitrate 31 38 113 129 172 186
 188 228 298 394 467 482
 nitrite 113 172 186 228 298
 nitrogen 129 186 210 228 482 522
 North Carolina 186
 nutrients 186 210 394 522
 N15 129
 Olisthodiscus luteus 482
 organic 186
 organic matter 394

orthophosphate 228
 Pamlico 186
 PC 172
 pH 38
 phosphate 38 113 394
 phosphorus 210 228 482
 phytoplankton 31 113 129 188 298
 394
 plants 186
 PN 172
 polyp 38
 Potomac 467
 primary 129 522
 productivity 129 522
 remote sensing 38
 Rockaway Point 113
 salinity 113
 San Francisco 228
 sea nettle 38
 seasons 186
 sediments 186 210
 sewage 38 129 172 188
 silica 113
Skeletonema 31
 Southampton 394
 suspended solids 113
 temperature 113 394
 tides 210
 trace metals 210 394
 turnover rates 394
 uptake rates 31 129 188 482
 urea 129 186 188 298
 Vm 522
 water velocity 522
 zinc 210
 zooplankton 394
amphipods
 Bay 12
 benthic 12
Capitella capitata 12
 indicator species 12
 invertebrates 12
 Kiel 12
 polychaetes 12
 sewage 12
Anabaena
 algae 312
 carbon 312
Chlorella 312
 CO₂ 312
 growth rates 312
Microcystis 312
Anacostia
 dye 78
 Estuary 78
 FWQA Dynamic 78
 model 78
 Potomac 78
 predictions 78
 Thomann 78
 tides 78
anaerobic
 aerobic 58 172
 ammonium 172
 assay 58
 ATP 172
 benthic 358
 Bight 172
 calorific content 172
 Connecticut 58
 Copps Brook 58
 decomposition 172
 degradation 58
 dehydrogenase 358
 denitrification 127
 DIC 172
 diffusion 127
 DOC 58 172
 floodwaters 127
 interstitial 58
 Lake 358
 Louisiana 127
 metabolic heat release 358
 metabolism 58 358
 microbes 58
 microcalorimetry 358
 model 58
 New York 172
 nitrate 127 172
 nitrite 172
 nutrients 58 358
 organic matter 58 358
 organisms 358
 oxygen 358
 PC 172
 PN 172
 POC 58
 processes 358
 Puget 358
 redox potential 127

sediments 58 358
 sewage 172
 Sound 358
tetrazolium salt 58
 Washington 358
 watersheds 58
analysis of variance
 benthic 395
 diversity 395
 Firth of Forth 395
 indices 395
 intertidal 395
 macrofauna 395
 seasons 395
Anchoa mitchilli
 abundance 32
 Bay 32
 biomass 32
 diversity 32
 fish 32
 Galveston 32
 indicator species 32
 indices 32
 Texas 32
 toxicity 32
 wastes 32
animals
 algae 89
 ammonia 518
 ammonium 186
 assay 399
 community structure 89
 cycles 186
 DO 202 518
 Estuary 89 186 202 518
 fertilizer 202
 fish 202
 heat 89
 hydrology 399
 indicator species 399
 industry 202
 inorganic 186
 methods 399
 microbes 399
 mining 202
 nitrate 186
 nitrite 186
 nitrogen 186 202
 North Carolina 89 186 202
 nutrients 89 186 518
 oil 399
 organic 186
 Pamlico 186 202
 phosphate 202 518
 phytoplankton 202
 plankton 202
 plants 186
 pond experiment 89
 primary 202
 productivity 89 202
 respiration 89
 salinity 202
 seasons 89 186
 sediments 186
 sewage 89 202
 South Creek 89
 temperature 89 202
 tides 518
 urea 186
 Virginia 518
 wastes 399
 York 518
annelids
 abundance 167
 benthic 370
 biomass 167
 crustaceans 370
 diversity 167
 England 370
 Estuary 167
 fauna 167
 gastrotrichs 167
 Great Britain 167
 indicator species 370
 Linnhe Eil 370
 Loch 370
 microbes 167
 molluscs 370
 nematodes 167
 oligochaetes 167
 polychaetes 167
 pulp mill 370
 sewage 167
 succession 370
 Tees 167
Apalachee
 Bay 191 278
 benthic 191
 DO 278
 fish 278

- Florida 191 278
- indicator species 191
- invertebrates 191
- mud flats 191
- oyster reefs 191
- pulp mill 191 278
- seagrass 191
- wastes 191
- Aqaba**
 - calcium 146
 - Gulf 146
 - Jordan 146
 - phosphate 146
 - sewage 146
- aquaculture**
 - algae 412
 - growth rates 360
 - Mytilus edulis* 360
 - oysters 412
 - sewage 360 412
- Aquaforte**
 - Canada 145
 - euglenoid 145
 - Harbor 145
 - indicator species 145
 - nanoplankton 145
 - phytoplankton 145
 - secchi disc 145
 - sewage 145
 - St Johns 145
- arctic**
 - Alaska 319
 - benthic 319
 - Cook 319
 - DO 319
 - Inlet 319
 - microbes 319
 - nitrogen 319
 - organisms 319
 - pH 319
 - phosphorus 319
 - plankton 319
 - salinity 319
 - sewage 319
 - silica 319
- argon**
 - Bay 396 397
 - bubbles 396
 - Chesapeake 396 397
 - CO₂ 396 397
- H2S 396
- methane 396 397
- nitrogen 396 397
- seasons 397
- sediment water 396
- sediments 397
- artificial recharge**
 - canal 138
 - dissolved solids 138
 - economics 138
 - Estuary 138
 - nitrification 138
 - ozonization 138
 - recycle 138
 - sewage 138
 - Thames 138
 - water supply 138
- ash**
 - bloom 382
 - carbon 382
 - chlorophyll 382
 - C₁₄ 382
 - fatty acids 382
 - nitrate 382
 - Nova Scotia 382
 - phosphorus 382
 - phytoplankton 382
 - primary 382
 - productivity 382
 - respiration 382
 - silica 382
- assay**
 - abundance 383
 - aerobic 58
 - algae 351 418 448 496 497
 - alkalinity 383
 - anaerobic 58
 - animals 399
 - batch culture 418
 - Bay 448
 - bloom 414
 - Codium* 497
 - Connecticut 58
 - Copps Brook 58
 - degradation 58
 - diatoms 414
 - distribution 383
 - DOC 58
 - Dunaliella* 496
 - Enteromorpha* 497

hydrology 399 414 448
 indicator species 383 399
 interstitial 58
 invertebrates 383
 Lake 383
 light 448
 metabolism 58
 methods 351 399 418
 microbes 58 399
 model 58
 N/P 414
 nitrate 414
 Norway 414
 nutrients 58 383 448 496 497
 oil 399
 Oregon 448
 organic matter 58
 orthophosphate 414
 pH 383
 phytoplankton 414
 plankton 383
 POC 58
 Pontchartrain 383
 primary 383
 productivity 383
 runoff 383
 salinity 383
 seasons 448
 sediments 58
 sewage 418 448
 silica 414
 temperature 448
 tetrazolium salt 58
 trace metals 414
 Trondheimsfjord 414
 wastes 399
 watersheds 58
 Yaquina 448
 assimilation capacity
 bioenhancement 446
 BOD 446
 nutrients 446
 ATP
 acid extraction 206
 aerobic 172
 ammonium 172
 anaerobic 172
 Basin 295
 Bay 465
 Bedford 295
 Bight 172 275
 biomass 275 434
 bloom 275
 C/N 465
 cadmium 275
 calorific content 172
 carbohydrates 193 295
 carbon 135 193 295
 carbon/chlorophyll 434
 Ceratium 275
 charcoal adsorption 206
 chlorophyll 193
 crude fiber 193
 decomposition 172
 DIC 172
 DOC 172
 Estuary 135 193 434
 fisheries 465
 flagellates 295
 industry 275
 marshes 193
 Maryland 193
 methods 135 206 465
 microbes 135 275
 New York 172 275
 Newport 135
 nitrate 172
 nitrite 172
 nitrogen 193
 North Carolina 135
 nutrients 465
 organic 135
 particulate matter 295
 Patuxent 193
 PC 172 465
 phosphorus 193
 phytoplankton 295 434
 PN 172 465
 primary 465
 productivity 465
 protein 295
 runoff 465
 seasons 135
 sediments 135 206 275
 sewage 172
 St Lawrence 434
 St Margaret 465
 suspended solids 465
 tris extraction 206
 wastes 275

zooplankton 295
Australia
 agriculture 60
 algae mats 60
 ammonia 388
 Bay 388
 benthic 388
 biomass 154
 chlorophyll 154 424
 detritus 424
 DO 154
 Estuary 154
 fauna 388
 Hacking 424
 hydrology 154 424
 H3 154
 Lagoon 60
 light 424
 Little River 154
 methods 424
 nutrients 388
 Orielton 60
 phosphorus 154
 phytoplankton 154 424
 Port 424
 Port Phillip 388
 primary 154
 productivity 154
 P32 154
 runoff 60 424
 salinity 60 154 388
 sediments 388 424
 sewage 60 388
 sewage treatment farm 388
 suspended solids 424
 Tasmania 60
 temperature 60 154
 Werribee 388
 zooplankton 154
autotrophic
 Bay 86
 freshwater 86
 heterotrophic 86
 industry 86
 metabolism 86
 microcosms 86
 nutrients 86
 phytoplankton 86
 primary 86
 productivity 86
 respiration 86
 Texas 86
 Trinity 86
 wastes 86
 zooplankton 86
bacteria
 Actinobacter 431
 algae 256 339
 algae bluegreen 243
 algae mats 243
 amino acids 456
 bacteria proteolytic 456
 Bay 243 431 440
 benthic oxygen demand 440
 biomass 339
 birds 256 339
 Buzzards 440
 calcium 339
 carbohydrates 456
 carbon 256 339
 COD 440
 community structure 256
 crustaceans 256 339
 C14 456
 density 246
 diversity 246
 fauna 456
 fish 256 339
 foraminifera 256 339
 fungus 456
 Guayanilla 243
 heterotrophic 243 246 256 339
 431 456
 indices 456
 insects 256 339
 marshes 339
 meiofauna 256 339
 metabolism 256
 methods 456
 microbes 456
 molluscs 256 339
 nitrogen 256 339
 nitrogen fixation 243
 nutrients 431
 oil 456
 phosphorus 256 339
 phytoplankton 256 339 431 456
 pond experiment 256 339
 processes 456
 productivity 256 339

Puerto Rico 243
 pulp mill 456
 respiration 440
 Sagami 431
 salinity 456
 sediments 243 246 440
 self purification 246
 sewage 256 339 440 456
 Suruga 431
 symposium 456
 tertiary 339
 thermal 243 456
 Tokyo 431
 trace metals 456
 Vibrios 431
 zooplankton 431
bacteria attached
 bacteria free 164
 Estuary 164
 glucose 164
 Humber 164
 mineralization 164
 organic matter 164
 suspended solids 164
bacteria free
 bacteria attached 164
 Estuary 164
 glucose 164
 Humber 164
 mineralization 164
 organic matter 164
 suspended solids 164
bacteria proteolytic
 amino acids 456
 bacteria 456
 carbohydrates 456
 C14 456
 fauna 456
 fungus 456
 heterotrophic 456
 indices 456
 methods 456
 microbes 456
 oil 456
 phytoplankton 456
 processes 456
 pulp mill 456
 salinity 456
 sewage 456
 symposium 456
 thermal 456
 trace metals 456
bacterioplankton
 methods 114
 model 114
 phytoplankton 114
 productivity 114
Balanus
Acartia 227
 Bay 227 257
 bloom 227
 Brazil 257
 Estuary 227
Eurytemora 227
 Guanabara 257
 indicator species 257
 latitudinal gradients 227
 Narragansett 227
 New Jersey 227
 nutrients 227
 organic matter 227
 phytoplankton 227
 Raritan 227
 Rhode Island 227
 salinity 227
 seasons 227
 Virginia 227
 wastes 227
 York 227
 zooplankton 227
Baltic
 algae bluegreen 335
 benthic 335
 detergent 335
 DO 335
 energy transfer 335
 fish 335
 indicator species 335
 macroalgae 335
 model 335
 organisms 335
 primary 335
 productivity 335
 Sea 335
 sewage 335
 symposium 335
 zooplankton 335
Barataria
 Basin 95
 fisheries 95

- Louisiana 95
- nursery grounds 95
- nutrients 95
- salinity 95
- wetlands 95
- barnacles**
 - Estuary 507
 - marshes 507
 - model 507
 - mussels 507
 - North Inlet 507
 - oysters 507
 - phytoplankton 507
 - primary 507
 - processes 507
 - productivity 507
 - tides 507
 - water column 507
- Basin**
 - ATP 295
 - Barataria 95
 - Bedford 295 381
 - carbohydrates 295
 - carbon 295
 - fisheries 95
 - flagellates 295
 - Louisiana 95
 - Nova Scotia 381
 - nursery grounds 95
 - nutrients 95
 - P/B 381
 - particulate matter 295
 - phytoplankton 295 381
 - productivity 381
 - protein 295
 - ratio 381
 - salinity 95
 - spatial component 381
 - wetlands 95
 - zooplankton 295
- batch culture**
 - algae 418
 - assay 418
 - biomass 144
 - bloom 144
 - carbon 144
 - Chlorophyta 144
 - continuous culture 144
 - CO₂ 144
 - Cyanophyta 144
 - methods 418
 - nitrogen 144
 - nitrogen fixation 144
 - pH 144
 - phytoplankton 144
 - secondary 144
 - sewage 144 418
 - succession 144
- Bathyporia sarsi**
 - Bay 11
 - benthic 11
 - Capitella capitata* 11
 - community structure 11
 - Kiel 11
 - macrofauna 11
 - oligochaetes 11
 - Pygospio elegans* 11
 - sewage 11
- Baule Mitschlerlich**
 - benthic 511
 - macrophytes 511
 - nutrients 511
 - phytoplankton 511
 - primary 511
 - productivity 511
 - turbidity 511
- Bay**
 - Aberdeen 453
 - abundance 32 389 499
 - Acartia* 227
 - Actinetobacter* 431
 - advection 42
 - agencies 18 61
 - Agnes 415 421
 - agrochemicals 455
 - Alabama 132
 - algae 72 133 140 448
 - algae bluegreen 243
 - algae mats 243
 - alkaline phosphatase 468 470
 - alkalinity 67 184 293 380 455
 - ammonia 67 178 184 190 293 387
 - 388 466 473
 - ammonium 188 228 298 467
 - amphipods 12
 - Anchoa mitchilli* 32
 - Apalachee 191 278
 - argon 396 397
 - assay 448
 - ATP 465

Australia 388
 autotrophic 86
 bacteria 243 431 440
Balanus 227 257
Bathyporia sarsi 11
 Bengal 323
 benthic 11 12 72 76 178 191 208
 224 388 389 433
 benthic oxygen demand 440
 bibliography 73 156 345 346 451
 475
 biomass 32 52 65 133 140 200 231
 296 466
Biscayne 427
 bloom 227 287 524
 boat traffic 455
 BOD 71 353 495
 Brazil 257
 bubbles 396
Buzzards 406 440
 C/N 188 406 465
 California 8
 Canada 52
 cannery 76
Capitella capitata 11 12
 carbon 22 168 387 473 495 499
Chaetodon miliaris 392
 chambers 178
 chemical 427
 Chesapeake 18 22 41 42 45 67 72
 73 74 79 91 92 133 140 141 156
 168 173 184 207 293 296 297 298
 301 318 345 346 355 380 396 397
 415 417 419 421 422 429 451 455
 467 468 469 473 475 485 495 510
 Chickahominy 173
 Chinhae 238
 chloride 293
 chlorine 184 455
 chlorophyll 64 65 67 79 140 184
 288 296 300 322 365 406 415 423
 453 470 473 495
Cladocera 147
 COD 440
 coliforms 23 94 353 380
 community structure 11
 conceptual 168
 coral 182
Coriolis 42
Corpus Christi 372
 CO₂ 396 397
 crabs 231
 cycles 91 224 297 499
 C₁₄ 140 453
 DC 380
 denitrification 190
 density 198 323
 deterministic 419
 detritus 22 65 406
 DIC 473
 diffusion 419 467
 dilution 510
 DIN 199
 dinoflagellate 524
 DIP 45
 directory 73
 disease 238 455
 dissolved 207
 distribution 71 293 417 470
 diversity 32 94 300 389
 DNA 470
 DO 8 67 71 72 184 226 278 323
 353 380 387 389 401 495
 DOC 473
 DON 466
 DOP 469
 DPO 466
 dredging 318 455
 DRP 199
 dye 318
 economics 94
 energetics 365
 energy transfer 72 141 231 354
 enzymes 470
 epiphytes 455
 Estuary 67 79 133 141 173 227
 380 389 402 415 419 423 467 495
 510
Eurytemora 227
 eutrophication 73 345 346
Evadne tergestina 147
 excretion rates 466
 fatty acids 423
 fauna 18 388 389 455
 fertilizer 238 355
 finite difference 41
 fish 32 231 278 392
 fish kills 401
 fisheries 74 94 465 488
 Fladen Ground 453

flora 18
 Florida 191 278 402 427 433
 flux 22 178 366 379 387
 foraminifera 72
 free surface 427
 freshwater 86 231 378 402
 Fundy 524
 Galveston 32 208 231 401
 gas bubbles 401
Gonyaulax excavata 524
 Great Britain 23 199
 growth rates 188 355 392
 Guanabara 257
Guayanilla 243
 Hawaii 64 65 94 182 188 200 330
 392 466
 heat 141
 herring 524
 heterotrophic 86 243 431
 Hillsborough 433
 Hobsons 389
 Humboldt 8
 Hurricane 415 421
 hydrology 41 42 71 91 132 141
 198 208 224 226 262 354 378 448
 510
 H₂S 396
 indicator species 12 32 191 208
 257 417
 indices 32 92 208 470
 industry 86 208 301 380 488
 inorganic 178
 interface salt fresh 132
 interstitial 45 207 293 485
 invertebrates 12 191 433
 iron 45 293 485
 Jamaica 262 353
 James 173 380 495
 Japan 190 322 488
 Kaneohe 64 65 94 182 188 200 330
 392 466
 Kiel 11 12
 Korea 238
 Ks 468 469
 land development 92
 latitudinal gradients 227
 light 448
Limacina retroversa 524
 linear regression 173
 Liverpool 23 199
 local 61 297
 long term 199
 Louisiana 402
 macrofauna 11 72 76
 macrophytes 52 72
 Malagasy Republic 147
 Malpeque 499
 management 61 73 74 231 402 429
 manganese 207 293
 Mangoku 190 252
 marshes 22
 Maryland 380 451
 Massachusetts 406
Massartia rotundata 287 365
 matrix 372
 metabolism 86 224 466
 methane 396 397
 methods 18 228 296 465 485
 Meydenbauer 425
 Michaelis-Menton 71 415
 microbes 72 133 141 182 252 297
 417 423 470 499
 microscopepods 330
 microcosms 86 140 379 387
 Mobile 132
 model 41 42 64 71 132 168 198
 207 231 262 345 346 353 354 366
 372 378 415 419 427 467 510
 momentum transfer 132
 mucus 401
 mud flats 191
 N/P 226
 nanoplankton 288 296 300 406
 Narragansett 178 198 227 379 387
 423
 negentropy 366
 New Jersey 224 226 227 300
 New York 262 287 353
 Newark 300
 nitrate 64 67 178 188 224 226
 228 252 298 380 467 473
 nitrification 252
 nitrite 67 178 228 298 473
 nitrogen 22 65 67 79 91 94 199
 228 297 330 353 372 387 396 397
 415 499
 nitrogen fixation 182 243
 North 453
 North Carolina 402
 Nosy Be 147

nutrients 71 72 79 86 92 141 168
 173 226 227 288 297 322 323 355
 380 387 388 402 431 448 455 465
 473 495
 N15 190 252
 Odawa 252
 oil 318 423 455
 oligochaetes 11
Olisthodiscus luteus 287
 one dimensional 419
 Oregon 448
 organic 141
 organic matter 227 422
 orthophosphate 133 184 228 469
 oxidation rates 485
 oyster reefs 191
 oysters 499
 P/B 330
 Palm 402
 participation 61
 Patuxent 141 173 380 495
 PC 465
Penilia avirostris 147
 pesticides 380
 pH 8 67 71 184 207 293 380 455
 phaeophytin 473
 phosphate 52 64 67 178 184 224
 226 293 380 466
 phosphomonoester 468
 phosphorus 22 79 91 94 199 228
 297 353 379 387 415 468 470 473
 499
 phytoflagellate 287
 phytoplankton 64 65 67 71 72 79
 86 91 141 147 188 227 288 296
 297 298 300 322 415 431 468 469
 plankton 226 288 365 366
 plants 141
 PN 200 465
 POC 65 406 453
 polychaetes 12
 polyphosphate 469
 POM 421
 PON 190 406
 pond experiment 8
Porphyra 238
 Port Phillip 388
 Potomac 67 173 380 419 467 495
 power plant 141
 predictions 433
 primary 22 40 64 86 91 140 141
 238 288 296 453 465 473
 processes 184 224 354 427 453
 productivity 22 40 64 67 86 91
 140 141 231 238 288 296 330 365
 453 465 473 499
Prorocentrum micans 287
 protein 470
 Providence 423
 pteropods 524
 public opinion 61 429
 Puerto Rico 243
 pulp mill 191 278 488
Pygospio elegans 11
 P32 469
 quasi linear 415
 Quinte 52
 radioactivity 345 346 402
 rainfall 147 297
 Rappahannock 173 380 495
 Raritan 40 224 226 227 288 365
 366
 recreation 94
 redox potential 293
 reduction 252
 remote sensing 318
 reproduction 392
 resources 345 346 429
 respiration 86 365 440
 Rhode 133
 Rhode Island 178 227 387
 runoff 402 465
 Sagami 431
 Saldanha 76
 salinity 67 71 184 198 226 227
 231 287 353 388 389 422 455
 salmonids 8 401
 San Diego 425
 San Francisco 61 71 228 354 378
 Santee 402
 saturation 401
 Sea 453
 seagrass 191 355
 seasons 71 147 173 199 224 226
 227 293 300 397 406 448 453
 secchi disc 422
 secondary 182 231 330
 sediment water 178 379 387 396
 sediments 132 182 190 208 243
 252 297 301 380 387 388 397 417

- 421 427 433 440
 seston 470
 Severn 510
 sewage 8 11 12 23 52 64 72 94
 140 182 188 301 318 330 380 388
 392 417 421 423 425 433 440 448
 488 510
 sewage treatment farm 388
 shrimp 231
 silica 293 378
 Simoda 190
 size composition 200
 size dependent 466
 soil erosion 421
 South Africa 76
 South Carolina 402
 specie key 455
 St Margaret 465
 steady state 207
 submerged vegetation 455
 succession 200
 sulfate 184 293
 sulfide 184
 Suruga 431 488
 suspended solids 406 417 421 422
 423 465
 Susquehanna 79 173 380 415 495
 swamps 402
 symposium 297
 Taunton 423
 TDC 473
 temperature 67 71 178 184 226
 448 455
 tertiary 52 301 433
 Texas 32 86 208 231 372 401
 Theora fragilis 389
 thermal 141 243
 three dimensional 132 198 427
 tides 22
 time dependent 132 427
 Tokyo 190 431 470
 toxicity 32
 trace metals 72 184 380 387 455
 tracer 23
 transport 132 262 301 354 427
 Trinity 86
 tropical 147
 turbidity 67 455
 turnover rates 469
 two dimensional 41 42 262 353
- 378
 uptake rates 133 188 297
 Ura 190 252
 Uranouchi 322
 urea 188 298
 vertical distribution 184
 vertical transport 297
 Vibrios 431
 Virginia 156 227 380 475
 Vm 468 469
 wastes 32 76 86 191 208 227 238
 301 322 380 415 488
 water column 417
 water craft 425
 water velocity 455
 watersheds 92 173 380
 Werribee 388
 wetlands 402
 wind 422 427
 Wollochet 425
 Yaquina 448
 Yarra 389
 York 173 227 380 495
 zooplankton 67 72 86 140 147 200
 227 296 297 392 406 431 466
- Zostera 252**
Bayou
 ammonia 314
 bloom 251 317
 budget 316
 carbon 181
 chemical 102
 chlorophyll 102
 Chocolate 102
 Dickinson 251
 dissolved solids 313
 diversity 102
 DO 102 251 313 314 315 317
 Estuary 181
 fish 317
 fish kills 251
 Florida 181 314 316 317
 flux 315
 glucose 313
 Gymnodinium 317
 indices 102
 inorganic 181
 kinetics 313
 macroinvertebrates 314
 microbes 313

nitrate 314
 nitrogen 181 316
 nutrients 313
 pH 315
 phosphate 181 313 314 315
 phosphorus 181 251 316
 phytoplankton 251 314 317
 primary 181
 processes 315
 productivity 102 181 313
 redox potential 313 315
 respiration 102
 salinity 315
 seasons 102
 sediment water 181 313 315
 sewage 251
 Taylor 102
 temperature 315
 Texar 181 314 315 316 317
 Texas 102
 TOC 314
 toxicity 317
 wastes 102 317
 zooplankton 102 314
Bedford
 ATP 295
 Basin 295 381
 carbohydrates 295
 carbon 295
 flagellates 295
 Nova Scotia 381
 P/B 381
 particulate matter 295
 phytoplankton 295 381
 productivity 381
 protein 295
 ratio 381
 spatial component 381
 zooplankton 295
Belgium
 bloom 376
 clay 535
 denitrification 504
 deposition 376
 diatoms 376 535
 dissolved 535
 DO 376
 Estuary 376 535
 hydrology 376
 interface salt fresh 376
 interstitial 504
 model 504
 nitrate 504
 nitrification 504
 nitrite 504
 nutrients 376
 organic matter 504
 Scheldt 376 535
 sediments 376 504 535
 self purification 376
 silica 535
 suspended solids 376
 trace metals 376
 transport 376
Bengal
 Bay 323
 density 323
 DO 323
 nutrients 323
benthic
 abundance 120 389
 Alaska 319
 algae 72 87 119 120 248 400 438
 algae bluegreen 335
 algae mats 33
 amino acids 528
 ammonia 5 178 388
 amphipods 12
 anaerobic 358
 analysis of variance 395
 annelids 370
 Apalachee 191
 arctic 319
 Australia 388
 Baltic 335
 Bathyporia sarsi 11
 Baule Mitschlerlich 511
 Bay 11 12 72 76 178 191 208 224
 388 389 433
 benthic oxygen demand 33 542
 bioenhancement 447
 biomass 409 447
 bioturbation 539
 bloom 10
 BOD 539
 Bothnia 137
 Byfjorden 352
 C/N 333
 California 400 447
 cannery 76 447

- Capitella capitata** 11 12
carbon 542
chambers 178
Chesapeake 72
chlorinated hydrocarbons 137
COD 338
coliforms 542
community structure 11 371
conference 528
Cook 319
Craiglin 393
crustaceans 338 352 370
cycles 224 410 528
cysts 10
Damariscotta 106
dehydrogenase 358
Delaware 539
density 393
deoxygenation 542
detergent 234 335
detritus 528
diatoms 5
dinoflagellate 10
disease 305 356
dissolved solids 137
distribution 269
diversity 9 120 389 395 409 447
DO 72 106 137 319 335 389 447
542
ecocline 371
Econfina 540
economics 508
energy transfer 72 335
England 370
Estuary 33 87 106 119 352 389
539 540
fauna 87 388 389 393 539
fertilizer 393
Firth of Forth 395
fish 106 305 335 356 447 528 542
fisheries 338 528
Florida 191 433
flux 178
foraminifera 72
France 234
Galveston 208
Gonyaulax 10
Gothenburg 352
gradient 371
Great Britian 119 120 529
growth rates 106
Gulf 137 234
Harbor 400 447
heat 542
Hillsborough 433
Hobsons 389
Hydrobia ulvae 393
hydrology 87 137 208 224
ice 542
indicator species 12 191 208 269
331 335 352 370 371 400 529
indices 208 269 371 395
industry 119 208 508
Inlet 319
inorganic 178
intertidal 395
invertebrates 12 106 191 331 433
528
iron 137
Japan 338
Kiel 11 12
Kungsbackafjorden 352
laboratory culture 5 106
Lagoon 9
Lake 358
larvae 106
life cycles 248
light 542
Limnodrilus 539
Linnhe Eil 370
Loch 370 393
long term 120
Los Angeles 400 447
macroalgae 335
macrofauna 9 11 72 76 137 352
356 395 409
macrophytes 72 333 511 529 540
Maine 106
management 508 528
Marseilles 234
Massachusetts 10 331
meiofauna 352
metabolic heat release 358
metabolism 224 358
methods 542
microbes 72 319 528
microcalorimetry 358
mining 87
Mississippi 356
model 33 335 338 438 542

- molluscs 9 370
 mud flats 191
 Narragansett 178
 nematodes 331
 New Jersey 224
 New York 410
 nitrate 5 178 224
 nitrification 410
 nitrite 5 178
 nitrogen 87 319 338 528
 nutrients 72 137 358 388 410 511
 528 542
 oil 137 338 400 528
 oligochaetes 11 400 539
 Oregon 33
 organic 269 539
 organic enrichment 371
 organic matter 338 358 410
 organisms 234 319 335 358 410
 447 508 528 542
 orthophosphate 5
 Oslofjord 248
 oxygen 358
 oyster reefs 191
 Pamlico 87
 parasites 356
 Penobscot 106
 pesticides 137 356 508 528
 pH 319
 Phaeophyta 333
 phosphate 178 224
 phosphorus 87 137 319 528
 phytoplankton 72 87 137 511 542
 plankton 319 447
 plants 508
 polychaetes 12 400
 Port Phillip 388
Posidonia oceanica 234
 predictions 433
 primary 5 137 335 410 511 542
 processes 224 358
 productivity 5 137 335 393 410
 447 511 542
 public opinion 508
 Puget 305 358
 pulp mill 191 370 409
Pygospio elegans 11
 Raritan 224
 rate constants 542
 reaeration 542
 recovery 371
 recreation 508
 red tide 10
 reproduction 120
 Rhode Island 178
 Saldanha 76
 salinity 33 106 319 388 389
 Saltkallefjord 352
 Sea 335 338
 seagrass 191 234 438 528
 seasons 120 224 248 331 395
 sediment water 178
 sediments 33 106 137 208 338 358
 371 388 410 433 539
 Seto 338
 settlement 106
 sewage 11 12 72 119 234 305 319
 331 335 338 356 388 400 433 447
 sewage treatment farm 388
 Shannons Index 9
 Sheepscot 106
 silica 319 528
 Sound 305 358
 South Africa 76
 Spain 333
 spatial distribution 248 542
 spores 10
 stress 528
 succession 370 371 409
 sulfate 338
 sulfide 33 338
 Sweden 352
 symposium 137 335
 Tees 119
 temperature 106 178
 temporal distribution 248 542
 Tenholloway 540
 tertiary 433 508
 Texas 208 438
Theora fragilis 389
 tides 33
 toxicity 10
 trace metals 72 137 356 438 528
 turbidity 511
 Tyne 119
 urea 528
 Washington 305 358
 wastes 76 119 120 137 191 208
 400 447 508 539
 Wear 119

Werribee 388
 wetlands 528
 Woods Hole 331
 Yaquina 33
 Yarra 389
 zooplankton 72 87 137 335 352
 528 542
benthic oxygen demand
 algae mats 33
 bacteria 440
 Bay 440
 benthic 33 542
 bloom 80
 BOD 221
 Buzzards 440
 carbon 221 542
 carbon oxygen demand 80
 chlorophyll 80
 COD 440
 coliforms 221 542
 deoxygenation 542
 DO 80 221 542
 Estuary 33 80 221
 fish 542
 freshwater 420
 heat 542
 hydrology 420
 ice 542
 light 420 542
 methods 542
 model 33 80 420 542
 nitrogen 80
 nitrogen oxygen demand 80
 nutrients 80 221 542
 one dimensional 420
 Oregon 33
 organisms 542
 phosphorus 80
 phytoplankton 80 221 542
 Potomac 80 221
 primary 80 542
 productivity 80 542
 rate constants 542
 reaeration 80 542
 respiration 80 440
 runoff 420
 salinity 33
 sediments 33 440
 sewage 440
 spatial distribution 542
 stochastic 420
 sulfide 33
 temperature 420
 temporal distribution 542
 tides 33
 turbidity 420
 wastes 221
 Yaquina 33
 zooplankton 542
Bermuda
 bloom 24
 light 24
 macrophytes 24
 nutrients 24
 primary 24
 productivity 24
bibliography
 Bay 73 156 345 346 451 475
 bloom 13
 Chesapeake 73 156 345 346 451
 475
 detergent 436
 dinoflagellate 13
 directory 73
 DO 213
 dredging 4
 economics 4
 ecosystem 84
 Estuary 30 124
 eutrophication 4 15 51 55 56 57
 73 124 211 213 250 263 264 265
 266 267 268 325 344 345 346 435
 457 532
 fisheries 124
 hydrology 124 250 263 264 265
 266 267 268
 industry 211 457
 instruments 436
 James 30
 land development 56 57 84
 management 73 325 435
 Maryland 451
 methods 213 435 436
 model 250 263 264 265 266 267
 268 345 346 436
 nutrients 436
 oil 4 211 344 436
 pesticides 4 344 435 436
 pollution 4
 primary 124

- productivity 124
- Puget 84
- radioactivity 4 345 346
- remote sensing 211
- resources 56 57 211 345 346
- sewage 15
- Sound 84
- St Lawrence 124
- suspended solids 124
- thermal 4 211 213 250 263 264
265 266 267 268 344 435
- trace metals 4 124 213 435 436
- United Kingdom 15 51
- Virginia 156 475
- Washington 84 112
- Bight**
 - abundance 113
 - aerobic 172
 - ammonium 113 172
 - anaerobic 172
 - ATP 172 275
 - bioaccumulation 121
 - biomass 275
 - bloom 275 286
 - cadmium 275
 - calorific content 172
 - Ceratium 275
 - chlorophyll 113
 - decomposition 172
 - DIC 172
 - distribution 113
 - DOC 172
 - fish 121
 - freshwater 113
 - hypertrophication 286
 - indicator species 121
 - indices 189
 - industry 275
 - Kiel 121
 - microbes 275
 - mussels 121
 - New Jersey 113
 - New York 113 172 189 275 286
 - nitrate 113 172
 - nitrite 113 172
 - Norway 121
 - nutrients 286
 - oil 121
 - PC 172
 - phosphate 113
 - phytoplankton 113 286
 - PN 172
 - Rockaway Point 113
 - salinity 113
 - sediments 189 275
 - sewage 172 189
 - silica 113
 - steroids 189
 - suspended solids 113
 - temperature 113
 - wastes 275
- bioaccumulation**
 - Bight 121
 - fish 121
 - indicator species 121
 - Kiel 121
 - mussels 121
 - Norway 121
 - oil 121
- bioenhancement**
 - assimilation capacity 446
 - benthic 447
 - biomass 447
 - BOD 446
 - California 447
 - cannery 447
 - diversity 447
 - DO 447
 - fish 447
 - Harbor 447
 - Los Angeles 447
 - nutrients 446
 - organisms 447
 - plankton 447
 - productivity 447
 - sewage 447
 - wastes 447
- biological**
 - chemical 230
 - processes 230
 - stabilization 230
 - wastes 230
- biomass**
 - abundance 32 167
 - aerobic 537
 - algae 133 140 160 339 537
 - algae bluegreen 66 247 533
 - ammonia 62 203 247 466
 - Anchoa mitchilli 32
 - annelids 167

- ATP 275 434
 Australia 154
 bacteria 339
 batch culture 144
 Bay 32 52 65 133 140 200 231 296
 466
 benthic 409 447
 Bight 275
 bioenhancement 447
 birds 339
 bloom 144 201 275 306 445 519
 533 537
 BOD 519
 British Columbia 247
 C/N 62
 cadmium 275
 calcium 339
 California 62 128 447
 Canada 52
 cannery 447
 carbon 110 144 339
 carbon/chlorophyll 62 434
 Ceratium 275
 Chesapeake 133 140 296
 chlorophyll 65 128 140 154 296
 519
 Chlorophyta 144
 Chowan 533
 continuous culture 144 160
 CO₂ 144 537
 crabs 231
 crustaceans 339
 Cyanophyta 144
 cycles 247
 C₁₄ 140 537
 density 537
 detritus 65 537
 diatoms 445
 distribution 128
 diurnal 62
 diversity 32 167 409 447 533
 DO 154 304 332 447 519
 DON 201 466
 DPO 466
 Duwamish 519
 energy transfer 231
 Estuary 66 133 154 167 201 203
 304 336 434 519 533
 Etang de Berre 306
 excretion rates 466
- fauna 167
 fish 32 231 339 447
 foraminifera 339
 France 306
 freshwater 231 519
 Galveston 32 231
 gastrotrichs 167
 Great Britian 167
 Grevelingen 336
 Harbor 447
 Hawaii 65 200 466
 heterotrophic 339
 hydrology 154 201 306
 H₃ 154
 indicator species 32
 indices 32
 industry 275
 inorganic 201 203
 insects 339
 Japan 445
 Kaneohe 65 200 466
 Ks 62
 light 336
 Little River 154
 Los Angeles 447
 macrofauna 409
 macrophytes 52 247 537
 management 231
 marshes 339
 Maryland 304
 meiofauna 339
 metabolism 466 525
 methods 296
 microbes 133 167 203 247 275 332
 445 525 533 537
 microcosms 140
 mining 66 201 203
 model 231
 molluscs 339
 N/P 160
 nanoplankton 296
 nematodes 167
 Netherlands 336
 New York 275
 nitrate 128 201 203
 nitrogen 62 65 66 110 144 160
 201 247 339
 nitrogen fixation 144
 North Carolina 203 533
 nutrients 62 128 160 203 304 306

- 336 445
 N15 62
 oligochaetes 167
 organic matter 306
 organisms 447
 orthophosphate 133
 Pamlico 66 201 203
 Patuxent 304
 pH 144 332
 PHB 525
 phosphate 52 203 247 466
 phosphorus 66 110 154 201 247
 304 339 533
 phytoplankton 62 65 66 110 128
 144 154 201 203 296 304 339 434
 519 533
 plankton 306 447
 PN 200
 POC 65
 poly B hydroxybutyrate 332 525
 polychaetes 167
 pond experiment 110 339
 pool experiment 66
 primary 62 140 154 296 304 336
 445
 productivity 62 140 154 231 296
 304 336 339 445 447
 pulp mill 409
 P32 154
 Quinte 52
 Rhode 133
 salinity 154 231 332
 Sea 445
 secondary 144 231
 sediments 201 247 275 304 332
 525 537
 sewage 52 62 140 144 160 167 339
 447
 shrimp 231
 size composition 200
 size dependent 466
 St Lawrence 434
 succession 110 144 200 201 409
 Tar 201
 Tees 167
 temperature 128 154 519
 tertiary 52 339
 Texas 32 231
 thermal 304
 tides 519
- toxicity 32
 turnover rates 537
 uptake rates 133 533 537
 urea 62
 Vm 62 537
 wastes 32 66 275 447
 water column 537
 water velocity 336
 winter 445
 zooplankton 140 154 200 296 466
Zostera marina 336
- biosorption**
 C14 543
 fish 543
 methianine 543
 urea 543
- bioturbation**
 benthic 539
 BOD 539
 Delaware 539
 Estuary 539
 fauna 539
Limnodrilus 539
 oligochaetes 539
 organic 539
 sediments 539
 wastes 539
- birds**
 algae 256 339 443
 bacteria 256 339
 biomass 339
 calcium 339
 carbon 256 339
 Clyde 443
 community structure 256
 crustaceans 256 339
 Estuary 443
 feeding grounds 443
 fish 256 339
foraminifera 256 339
 heterotrophic 256 339
 insects 256 339
 intertidal 443
 invertebrates 443
 marshes 339
 meiofauna 256 339
 metabolism 256
 molluscs 256 339
 nitrogen 256 339
 phosphorus 256 339

- phytoplankton 256 339
- pond experiment 256 339
- productivity 256 339
- sewage 256 339
- tertiary 339
- Biscayne**
 - Bay 427
 - chemical 427
 - Florida 427
 - free surface 427
 - model 427
 - processes 427
 - sediments 427
 - three dimensional 427
 - time dependent 427
 - transport 427
 - wind 427
- Black**
 - Chaetoceros simplex* 303
 - indicator species 303
 - nitrate 303
 - phosphate 303
 - phytoplankton 303
 - Sea 303
 - sewage 303
- black necrosis**
 - Burry Inlet 2
 - Crangon crangon* 2
 - detergent 2
 - DO 2
 - Great Britian 2
 - microbes 2
 - pH 2
 - salinity 2
 - temperature 2
 - trace metals 2
- bloom**
 - Acartia* 227
 - aerobic 537
 - Albemarle 450
 - algae 432 537
 - algae bluegreen 533
 - ammonia 204 450 520
 - ash 382
 - assay 414
 - ATP 275
 - Balanus* 227
 - batch culture 144
 - Bay 227 287 524
 - Bayou 251 317
 - Belgium 376
 - benthic 10
 - benthic oxygen demand 80
 - Bermuda 24
 - bibliography 13
 - Bight 275 286
 - biomass 144 201 275 306 445 519
 - 533 537
 - BOD 519
 - C/N 450
 - cadmium 275
 - Calanus pacificus* 363
 - carbon 144 382
 - carbon oxygen demand 80
 - Ceratium* 275
 - Chaetoceros* 363
 - chlorophyll 80 382 519
 - Chlorophyta* 144
 - Chowan 450 533
 - conference 279
 - continuous culture 144
 - CO₂ 144 432 537
 - Cyanophyta* 144
 - cysts 10
 - Cl₄ 382 537
 - density 537
 - deposition 376
 - detritus 537
 - diatoms 376 414 445
 - Dickinson 251
 - DIN 450
 - dinoflagellate 10 13 279 524
 - diversity 533
 - DO 80 251 317 376 519
 - DON 201 450
 - Duwamish 519 520 521
 - Estuary 80 201 204 227 376 450
 - 519 520 521 533
 - Etang de Berre 306
 - Euphaussid furcilia* 363
 - Eurytemora* 227
 - fatty acids 382
 - feeding rates 363
 - fertilizer 204
 - fish 317
 - fish kills 251
 - Florida 317
 - France 306
 - freshwater 204 519
 - Fundy 524

Gonyaulax 10
Gonyaulax excavata 524
Gymnodinium 317
 herring 524
 hydrology 201 306 376 414 520
 521
 hypertrophication 286
 industry 275
 inorganic 201
 interface salt fresh 376
 Japan 445
 latitudinal gradients 227
 light 24 521
Limacina retroversa 524
 macrophytes 24 537
 Massachusetts 10
Massartia rotundata 287
 microbes 275 445 533 537
 mining 201
 model 80
 N/P 414
 nanoplankton 363
 Narragansett 227
 Neuse 204
 New Jersey 227
 New York 275 286 287
 nitrate 201 204 382 414
 nitrogen 80 144 201
 nitrogen fixation 144
 nitrogen oxygen demand 80
 North Carolina 204 450 533
 Norway 414
 Nova Scotia 382
 nutrients 24 80 227 286 306 376
 445 521
Olisthodiscus luteus 287
 organic matter 227 306
 orthophosphate 414
 Pamlico 201
 Periphyton 521
 pH 144 432
 phosphate 520
 phosphorus 80 201 204 251 382
 432 533
 phytoplankton 287
phytoplankton 80 144 201 204 227
 251 286 317 363 382 414 450 519
 520 521 533
 plankton 306
 Potomac 80
 primary 24 80 382 445 450
 productivity 24 80 363 382 445
 450
Prorocentrum micans 287
Pseudocalanus minutus 363
 pteropods 524
 Raritan 227
 reaeration 80
 red tide 10
 respiration 80 382
 Rhode Island 227
 salinity 204 227 287
 Scheldt 376
 Sea 445
 seasons 227 450 521
 secondary 144
 sediments 201 275 376 537
 self purification 376
 sewage 144 204 251 432 520
 silica 382 414
 Sound 450
 spores 10
 succession 144 201
 suspended solids 376
 Tar 201
 temperature 519
 Texar 317
 tides 519
 toxicity 10 317
 trace metals 376 414
 transport 376
 Trondheimsfjord 414
 turnover rates 537
 uptake rates 533 537
 Virginia 227
 Vm 537
 Washington 520
 wastes 204 227 275 317
 water column 537
 winter 445
 York 227
 zooplankton 227 363
 boat traffic
 agrochemicals 455
 alkalinity 455
 Bay 455
 Chesapeake 455
 chlorine 455
 disease 455
 dredging 455

- epiphytes 455
- fauna 455
- nutrients 455
- oil 455
- pH 455
- salinity 455
- specie key 455
- submerged vegetation 455
- temperature 455
- trace metals 455
- turbidity 455
- water velocity 455
- BOD
- Alaska 320
- ammonia 311 477 487
- assimilation capacity 446
- Bay 71 353 495
- benthic 539
- benthic oxygen demand 221
- bioenhancement 446
- biomass 519
- bioturbation 539
- bloom 519
- C/N 136 324
- California 477
- carbon 221 324 342 495
- Charleston 136
- chemical 109
- Chesapeake 495
- chlorophyll 495 519
- Clyde 284
- COD 349
- coliforms 1 221 290 353
- Cook 320
- cycles 342 477
- DC 1 283
- Delaware 109 342 477 523 539
- Delta 477
- denitrification 324
- deoxygenation 349
- DIN 477
- dispersion coefficient 283
- distribution 71
- DO 1 36 71 99 212 221 283 284
290 311 342 353 477 495 519 541
- DOC 311
- DOD 283
- DON 311
- Duwamish 519
- dye 1
- energy transfer 348
- Estuary 1 99 109 212 221 283 284
342 477 495 519 523 539
- fauna 539
- flux 342
- freshwater 284 519
- Great Britian 274
- Harbor 136
- hydrology 71 212 284
- industry 109 136 284 348
- Inlet 320
- interface salt fresh 311
- Jamaica 353
- James 495
- Japan 349
- light 36
- Limnodrilus 539
- management 109
- Michaelis Menton 71
- microbes 487 541
- mixing depth 541
- model 1 71 99 109 212 283 342
348 353 477 523
- municipal 109
- NaCl 36
- New York 353
- nitrate 487
- nitrification 487
- nitrite 290 311 477 487
- Nitrobacter 487
- nitrogen 342 353 477 541
- Nitrosomona 487
- nonpoint sources 523 541
- nutrients 1 71 221 342 446 495
- oligochaetes 539
- organic 539 541
- organic matter 290 324
- oxidation 477
- Patuxent 495
- pesticides 348
- pH 71 290 311
- phosphorus 342 353 541
- phytoplankton 1 71 221 274 342
477 519
- point sources 541
- Potomac 1 99 221 283 342 477 495
- predictions 284 541
- profiles 541
- pulp mill 136
- Rappahannock 495

- real time 212
- respiration 487
- runoff 541
- Sacramento San Joquin 477
- salinity 71 212 290 311 353 541
- salts 36
- San Francisco 71
- seasons 71 274 290
- secondary 348
- sediments 36 539 541
- self purification 349
- sewage 136 274 284 320 324 348
- shellfish 290
- soil erosion 541
- South Carolina 136
- stochastic 99 477
- storm loading 523
- surface waters 541
- suspended solids 36
- Susquehanna 495
- temperature 36 71 284 290 320
519 541
- thermal 541
- tidal average 212
- tides 1 519
- TOC 349
- TOD 349
- trace metals 311 348
- turbidity 36 541
- two dimensional 353
- Virginia 212
- wastes 109 136 221 284 342 348
539
- York 212 495
- zooplankton 342 477
- Bothnia**
 - benthic 137
 - chlorinated hydrocarbons 137
 - dissolved solids 137
 - DO 137
 - Gulf 137
 - hydrology 137
 - iron 137
 - macrofauna 137
 - nutrients 137
 - oil 137
 - pesticides 137
 - phosphorus 137
 - phytoplankton 137
 - primary 137
- productivity** 137
- sediments** 137
- symposium** 137
- trace metals** 137
- wastes** 137
- zooplankton** 137
- bound**
 - dissolved** 3
 - fertilizer** 3
 - nitrate** 3
 - phosphorus** 3
 - pond experiment** 3
 - P32 3
 - sediments** 3
- boundary layer**
 - ammonium 522
 - carbon 522
 - cycles 522
 - growth rates 522
 - kelp 522
 - Ks 522
 - Macrocystis* 522
 - morphology 522
 - nitrogen 522
 - nutrients 522
 - primary 522
 - productivity 522
 - Vm 522
 - water velocity 522
- Brazil**
 - Balanus* 257
 - Bay 257
 - Guanabara 257
 - indicator species 257
- British Columbia**
 - algae bluegreen 247
 - ammonia 247
 - biomass 247
 - canal 512
 - cycles 247
 - dredging 512
 - flushing 512
 - macrophytes 247
 - microbes 247
 - nitrogen 247
 - nutrients 512
 - phosphate 247
 - phosphorus 247
 - salinity 512
 - sediments 247

- temperature 512
- tides 512
- wastes 512
- Broad River**
 - detritus 292
 - Estuary 292
 - fertilizer 292
 - Florida 292
 - leaves 292
 - mangroves 292
 - pesticides 292
 - Shark 292
 - trace metals 292
- Broadkill**
 - chlorophyll 101
 - Delaware 101
 - DO 101
 - Estuary 101
 - inorganic 101
 - Murderkill 101
 - nitrogen 101
 - nutrients 101
 - pH 101
 - phosphorus 101
 - salinity 101
 - tides 101
 - wetlands 101
- bubbles**
 - argon 396
 - Bay 396
 - Chesapeake 396
 - CO₂ 396
 - H₂S 396
 - methane 396
 - nitrogen 396
 - sediment water 396
- budget**
 - Bayou 316
 - Florida 316
 - nitrogen 316
 - phosphorus 316
 - Texas 316
- buoys**
 - California 37
 - ceramic panel substrates 37
 - chlorinated hydrocarbons 37
 - dispersion 37
 - economics 37
 - methods 37
 - Obelia dichotoma 37
- Burrard**
 - productivity 37
 - sewage 37
 - trace metals 37
- Burry Inlet**
 - black necrosis 2
 - Crangon crangon 2
 - detergent 2
 - DO 2
 - Great Britain 2
 - microbes 2
 - pH 2
 - salinity 2
 - temperature 2
 - trace metals 2
- Bush**
 - Estuary 373
 - predictions 373
- Buzzards**
 - bacteria 440
 - Bay 406 440
 - benthic oxygen demand 440
 - C/N 406
 - chlorophyll 406
 - COD 440
 - detritus 406
 - Massachusetts 406
 - nanoplankton 406
 - POC 406
 - PON 406
 - respiration 440
 - seasons 406
 - sediments 440
 - sewage 440
 - suspended solids 406
 - zooplankton 406
- Byfjorden**
 - benthic 352
 - crustaceans 352
 - Estuary 352
 - Gothenburg 352

- indicator species 352
 Kungsbackafjorden 352
 macrofauna 352
 meiofauna 352
 Saltkallefjord 352
 Sweden 352
 zooplankton 352
- C/N
- Albemarle 450
 alkaline phosphatase 482
 ammonia 62 450
 ammonium 188 482
 ATP 465
 Bay 188 406 465
 benthic 333
 biomass 62
 bloom 450
 BOD 136 324
 Buzzards 406
 California 62
 carbon 324 482
 carbon/chlorophyll 62
 Charleston 136
 chlorophyll 406 482
 Chowan 450
 denitrification 324
 detritus 406
 DIN 450
 diurnal 62 482
 DOC 150
 DON 150 450
 Estuary 450
 fisheries 465
 Georgia 150
 growth rates 188
 Harbor 136
 Hawaii 188
 industry 136
 Kaneohe 188
 Ks 62 482
 macrophytes 333
 Massachusetts 406
 methods 465
 nanoplankton 406
 nitrate 188 482
 nitrogen 62 482
 North Carolina 450
 nutrients 62 465
 N15 62
Olisthodiscus luteus 482
- organic matter 324
 PC 465
 Phaeophyta 333
 phosphorus 482
 phytoplankton 62 188 450
 PN 465
 POC 406
 PON 406
 primary 62 450 465
 productivity 62 450 465
 pulp mill 136
 runoff 150 465
 Savannah 150
 seasons 406 450
 sewage 62 136 188 324
 Sound 150 450
 South Carolina 136
 Spain 333
 St Margaret 465
 suspended solids 406 465
 uptake rates 188 482
 urea 62 188
 Vm 62
 wastes 136
 zooplankton 406
- cadmium
- ammonium 210
 ATP 275
 Bight 275
 biomass 275
 bloom 275
 Ceratium 275
 industry 275
 marshes 210
 microbes 275
 New York 275
 nitrogen 210
 nutrients 210
 phosphorus 210
 sediments 210 275
 tides 210
 trace metals 210
 wastes 275
 zinc 210
- Calanus pacificus*
- bloom 363
Chaetoceros 363
Euphaussid furcilia 363
 feeding rates 363
 nanoplankton 363

- phytoplankton 363
- productivity 363
- Pseudocalanus minutus* 363
- zooplankton 363
- calcium
 - algae 339
 - Aqaba 146
 - bacteria 339
 - biomass 339
 - birds 339
 - carbon 339
 - crustaceans 339
 - fish 339
 - foraminifera 339
 - Gulf 146
 - heterotrophic 339
 - insects 339
 - Jordan 146
 - marshes 339 461
 - meiofauna 339
 - molluscs 339
 - nitrogen 339 461
 - phosphate 146
 - phosphorus 339 461
 - phytoplankton 339
 - plants 461
 - pond experiment 339
 - potassium 461
 - productivity 339
 - sediments 461
 - sewage 146 339
 - tertiary 339
- California
 - algae 400
 - ammonia 62 477
 - ammonium 129
 - Bay 8
 - benthic 400 447
 - bioenhancement 447
 - biomass 62 128 447
 - BOD 477
 - buoys 37
 - C/N 62
 - cannery 447
 - carbon/chlorophyll 62
 - ceramic panel substrates 37
 - chlorinated hydrocarbons 37
 - chlorophyll 128 155
 - cycles 129 477
 - Delaware 477
 - Delta 477
 - DIN 477
 - dispersion 37
 - distribution 128 155
 - diurnal 62 129
 - diversity 155 447
 - DO 8 441 447 477
 - economics 37
 - energy transfer 276
 - Estuary 477
 - fauna 276
 - fish 447
 - flushing 155
 - flux 187
 - Gulf 155
 - Harbor 400 447
 - Humboldt 8
 - hydrology 441
 - indicator species 400
 - intertidal 276
 - K_s 62
 - Lagoon 155
 - Los Angeles 400 447
 - macrophytes 276
 - metabolism 276
 - methods 37
 - model 477
 - nitrate 128 129
 - nitrite 477
 - nitrogen 62 129 187 477
 - nutrients 62 128 441
 - N15 62 129
 - Obelia dichotoma* 37
 - oil 400
 - oligochaetes 400
 - organisms 447
 - oxidation 477
 - P/N 441
 - pH 8
 - phosphorus 187
 - phytoplankton 62 128 129 155 187 441 477
 - plankton 447
 - polychaetes 400
 - pond experiment 8
 - Potomac 477
 - primary 62 129 155 187 276 441
 - productivity 37 62 129 155 187 276 441 447
 - respiration 441

- Sacramento San Joquin 477
 salinity 441
 salmonids 8
 seasons 276 441
 secchi disc 441
 sediments 187
 sewage 8 37 62 129 276 400 447
 silica 187
 stochastic 477
 temperature 128 441
 tides 155
 trace metals 37
 uptake rates 129
 urea 62 129
 V_m 62
 wastes 400 447
 zooplankton 477
- calorific content**
 aerobic 172
 ammonium 172
 anaerobic 172
 ATP 172
 Bight 172
 decomposition 172
 DIC 172
 DOC 172
macroinvertebrates 277
 macrophytes 277
 New York 172
 nitrate 172
 nitrite 172
 PC 172
 PN 172
 sewage 172 277
- Canada**
 Aquaforte 145
 Bay 52
 biomass 52
 euglenoid 145
 Harbor 145
 indicator species 145
 macrophytes 52
 nanoplankton 145
 phosphate 52
 phytoplankton 145
 Quinte 52
 secchi disc 145
 sewage 52 145
 St Johns 145
 tertiary 52
- canal**
 agriculture 384
 artificial recharge 138
 British Columbia 512
 dissolved solids 138
 Dniester 384
 dredging 512
 economics 138
 Estuary 138 384
 fauna 384
 flushing 512
 industry 384
 nitrification 138
 nutrients 512
 ozonization 138
 recycle 138
 salinity 512
 sewage 138 384
 temperature 512
 Thames 138
 tides 512
 wastes 384 512
 water supply 138
 zooplankton 384
- Cancer**
 crabs 139
 eggs 139
 epibiotic fouling 139
 microbes 139
 nutrients 139
- cannery**
 acetylene 25
 Bay 76
 benthic 76 447
 bioenhancement 447
 biomass 447
 California 447
 diversity 447
 DO 447
 fish 447
 Harbor 447
 Inlet 25
 intertidal 25
Klebsiella pneumoniae 25
 Los Angeles 447
 macrofauna 76
 New Zealand 25
 nitrogen fixation 25
 nutrients 25
 organisms 447

- plankton 447
 productivity 447
 Saldanha 76
 sediments 25
 sewage 25 447
 slaughterhouse 25
 South Africa 76
 Waimea 25
 wastes 25 76 447
Capitella capitata
 amphipods 12
Bathyporia sarsi 11
 Bay 11 12
 benthic 11 12
 community structure 11
 indicator species 12
 invertebrates 12
 Kiel 11 12
 macrofauna 11
 oligochaetes 11
 polychaetes 12
Pygospio elegans 11
 sewage 11 12
carbohydrates
 amino acids 225 456
 ATP 193 295
 bacteria 456
 bacteria proteolytic 456
 Basin 295
 Bedford 295
 carbon 193 295
 chlorophyll 193
 clams 225
 crude fiber 193
 C14 456
 Estuary 193
 fauna 456
 flagellates 295
 fungus 456
 glycine 225
 heterotrophic 456
 indices 456
 marshes 193
 Maryland 193
Mercenaria 225
 methods 456
 microbes 456
 nitrogen 193
 oil 225 456
 particulate matter 295
- Patuxent** 193
 phosphorus 193
 phytoplankton 295 456
 processes 456
 protein 295
 pulp mill 456
 salinity 456
 sewage 225 456
 stress 225
 symposium 456
 taurine 225
 thermal 456
 trace metals 456
 zooplankton 295
carbon
 abundance 499
 Aisne 35
 algae 256 312 339
 alkaline phosphatase 482
 ammonia 387 473
 ammonium 394 482 522
Anabaena 312
 ash 382
 ATP 135 193 295
 bacteria 256 339
 Basin 295
 batch culture 144
 Bay 22 168 387 473 495 499
 Bayou 181
 Bedford 295
 benthic 542
 benthic oxygen demand 221 542
 biomass 110 144 339
 birds 256 339
 bloom 144 382
 BOD 221 324 342 495
 boundary layer 522
 C/N 324 482
 calcium 339
 carbohydrates 193 295
 Carter 21
 Chesapeake 22 168 473 495
Chlorella 312
 chlorophyll 70 193 220 382 454
 473 482 495
 Chlorophyta 144
 coliforms 221 542
 community structure 256
 conceptual 168
 continuous culture 116 144

- Copepoda** 195
CO₂ 144 220 312
Creek 21
crude fiber 193
crustaceans 195 256 339
ctenophores 362
Cyanophyta 144
cycles 21 342 499 522
C₁₄ 382
Delaware 342
denitrification 324
deoxygenation 542
detritus 22 192 195
DIC 473
distribution 377 449
diurnal 482
DO 220 221 342 387 394 495 542
DOC 473
energy transfer 192 195 362
Estuary 27 35 135 181 192 193
 195 220 221 342 377 449 495
Eurytemora affinis 195
fatty acids 382
fish 256 339 542
flagellates 295
Florida 181
flux 22 342 362 387
foraminifera 256 339
France 35
growth rates 70 312 522
heat 542
heterotrophic 256 339
ice 542
indices 220
inorganic 27 181
insects 256 339
isotope 449
James 27 495
kelp 522
K_s 482 522
Laminaria 70
light 542
Loch 454
Macrocystis 522
macrophytes 70
Malpeque 499
marshes 21 22 192 193 339
Maryland 192 193 195
meiofauna 256 339
metabolism 256
methods 35 135 542
microbes 27 135 195 220 499
microcosms 362 387
Microcystis 312
model 27 168 342 542
molluscs 256 339
morphology 522
Narragansett 387
Nevis 454
Newport 135
nitrate 27 70 382 394 454 473
 482
nitrite 27 473
nitrogen 21 22 35 110 144 181
 193 256 339 342 362 377 387 482
 499 522
nitrogen fixation 144
North 454
North Carolina 135
Nova Scotia 382
nutrients 116 168 192 220 221
 342 362 387 394 473 495 522 542
Olisthodiscus luteus 482
organic 27 135
organic matter 324 394
organisms 542
oxidation rates 35
oxygen 377
oysters 499
particulate matter 295
Patuxent 192 193 195 495
pesticides 220
pH 144
phaeophytin 473
phosphate 27 181 394 454
phosphorus 19 21 22 110 181 193
 256 339 342 382 387 473 482 499
phytoplankton 27 110 116 144 221
 256 295 339 342 382 394 542
POC 454
pond experiment 110 256 339
Potomac 220 221 342 377 449 495
predictions 27
primary 21 22 181 192 195 362
 382 473 522 542
processes 27
productivity 21 22 181 192 195
 256 339 362 382 454 473 499 522
 542
protein 295

- Rappahannock 495
 rate constants 542
 reaeration 542
 respiration 382
 Rhode Island 387
 Schofield 27
 Scotland 454
Scotlana canadensis 195
 Sea 454
 seasons 135
 secondary 144
 sediment water 21 181 387
 sediments 19 135 387
 Seine 35
 sewage 19 27 116 144 256 324 339
 silica 382
 Southampton 394
 spatial distribution 542
 stochastic 27
 succession 110 116 144
 Susquehanna 495
 TDC 473
 temperature 27 35 394
 temporal distribution 542
 tertiary 339
 Texar 181
 tides 19 22
 TOC 220
 toxicity 116
 trace metals 387 394
 turnover rates 394
 uptake rates 482
 Virginia 21 27
 Vm 522
 Ware 21
 wastes 220 221 342
 water velocity 522
 wetlands 192 195
 York 495
 zooplankton 295 342 394 542
- carbon oxygen demand
 benthic oxygen demand 80
 bloom 80
 chlorophyll 80
 DO 80
 Estuary 80
 model 80
 nitrogen 80
 nitrogen oxygen demand 80
 nutrients 80
- phosphorus 80
 phytoplankton 80
 Potomac 80
 primary 80
 productivity 80
 reaeration 80
 respiration 80
 carbon/chlorophyll
 ammonia 62
 ATP 434
 biomass 62 434
 C/N 62
 California 62
 diurnal 62
 Estuary 434
 Ks 62
 nitrogen 62
 nutrients 62
 N15 62
 phytoplankton 62 434
 primary 62
 productivity 62
 sewage 62
 St Lawrence 434
 urea 62
 Vm 62
 carbonate ion
 DOC 308
 molluscs 308
 pH 308
 salinity 308
- Carter
 carbon 21
 Creek 21
 cycles 21
 marshes 21
 nitrogen 21
 phosphorus 21
 primary 21
 productivity 21
 sediment water 21
 Virginia 21
 Ware 21
- CBOD
 ammonia 407
 chlorophyll 407
 coliforms 407
 DO 407 408
 Estuary 407 408
 inorganic 407

- model 407 408
- NBOD 408
- nitrate 407
- nitrite 407
- nitrogen 407
- one dimensional 407 408
- organic 407
- Pagan 407 408
- phosphorus 407
- phytoplankton 407
- real time 407 408
- salinity 407 408
- ceramic panel substrates**
 - buoys 37
 - California 37
 - chlorinated hydrocarbons 37
 - dispersion 37
 - economics 37
 - methods 37
 - Obelia dichtoma* 37
 - productivity 37
 - sewage 37
 - trace metals 37
- Ceratium**
 - ATP 275
 - Bight 275
 - biomass 275
 - bloom 275
 - cadmium 275
 - industry 275
 - microbes 275
 - New York 275
 - sediments 275
 - wastes 275
- Chaetoceros**
 - bloom 363
 - Calanus pacificus* 363
 - Euphaussid furcilia* 363
 - feeding rates 363
 - nanoplankton 363
 - phytoplankton 363
 - productivity 363
 - Pseudocalanus minutus* 363
 - zooplankton 363
- Chaetoceros simplex**
 - Black 303
 - indicator species 303
 - nitrate 303
 - phosphate 303
 - phytoplankton 303
- Sea 303
- sewage 303
- Chaetodon miliaris**
 - Bay 392
 - fish 392
 - growth rates 392
 - Hawaii 392
 - Kaneohe 392
 - reproduction 392
 - sewage 392
 - zooplankton 392
- chambers**
 - ammonia 178
 - Bay 178
 - benthic 178
 - flux 178
 - inorganic 178
 - Narragansett 178
 - nitrate 178
 - nitrite 178
 - phosphate 178
 - Rhode Island 178
 - sediment water 178
 - temperature 178
- Channel**
 - Houston Ship 253
 - hydrology 253
 - reaeration 253
- charcoal adsorption**
 - acid extraction 206
 - ATP 206
 - methods 206
 - sediments 206
 - tris extraction 206
- Charleston**
 - BOD 136
 - C/N 136
 - Harbor 136
 - industry 136
 - pulp mill 136
 - sewage 136
 - South Carolina 136
 - wastes 136
- chemical**
 - Bay 427
 - Bayou 102
 - biological 230
 - Biscayne 427
 - BOD 109
 - chlorophyll 102

Chocolate 102
 cycles 428
 Delaware 109
 diversity 102
 DO 102
Estuary 109
 eutrophic 20
 fish 516
 Florida 427
 food processing 516
 free surface 427
 Harbor 20
 hydrology 20
Hymeniacidon sanguinea 359
 indicator species 359
 indices 16 102
 industry 109 359 516
 Italy 359
 management 109 428
 methods 179
 microbes 16 20 179 516
 model 109 427
 municipal 109
 nutrients 428 516
 Oregon 516
 plankton 20
 Porifera 359
 processes 230 427
 productivity 102 428
 radioactivity 516
 resources 516
 respiration 102
 seasons 102
 sediment water 179
 sediments 427
 sewage 359 516
Sphaerotilus 516
 stabilization 230
 Taylor 102
 Texas 102
 thermal 516
 three dimensional 427
 time dependent 427
 trace metals 516
 transport 427
 wastes 20 102 109 230 359
 wind 427
 zooplankton 102
chemostat
 growth rates 169

intracellular 169
 model 169
 nitrogen 169
 phytoplankton 169
Chesapeake
 advection 42
 agencies 18
 Agnes 415 421
 agrochemicals 455
 algae 72 133 140
 alkaline phosphatase 468
 alkalinity 67 184 293 380 455
 ammonia 67 184 293 473
 ammonium 298 467
 argon 396 397
 Bay 18 22 41 42 45 67 72 73 74
 79 91 92 133 140 141 156 168 173
 184 207 293 296 297 298 301 318
 345 346 355 380 396 397 415 417
 419 421 422 429 451 455 467 468
 469 473 475 485 495 510
 benthic 72
 bibliography 73 156 345 346 451
 475
 biomass 133 140 296
 boat traffic 455
 BOD 495
 bubbles 396
 carbon 22 168 473 495
 Chickahominy 173
 chloride 293
 chlorine 184 455
 chlorophyll 67 79 140 184 296
 415 473 495
 coliforms 380
 conceptual 168
 Coriolis 42
 CO₂ 396 397
 cycles 91 297
 C₁₄ 140
 DC 380
 deterministic 419
 detritus 22
 DIC 473
 diffusion 419 467
 dilution 510
 DIP 45
 directory 73
 disease 455
 dissolved 207

distribution 293 417
DO 67 72 184 380 495
DOC 473
DOP 469
dredging 318 455
dye 318
energy transfer 72 141
epiphytes 455
Estuary 67 79 133 141 173 380
 415 419 467 495 510
eutrophication 73 345 346
fauna 18 455
fertilizer 355
finite difference 41
fisheries 74
flora 18
flux 22
foraminifera 72
growth rates 355
heat 141
Hurricane 415 421
hydrology 41 42 91 141 510
H2S 396
indicator species 417
indices 92
industry 301 380
interstitial 45 207 293 485
iron 45 293 485
James 173 380 495
Ks 468 469
land development 92
linear regression 173
local 297
macrofauna 72
macrophytes 72
management 73 74 429
manganese 207 293
marshes 22
Maryland 380 451
methane 396 397
methods 18 296 485
Michaelis Menton 415
microbes 72 133 141 297 417
microcosms 140
model 41 42 168 207 345 346 415
 419 467 510
nanoplankton 296
nitrate 67 298 380 467 473
nitrite 67 298 473
nitrogen 22 67 79 91 297 396 397
 415
nutrients 72 79 92 141 168 173
 297 355 380 455 473 495
oil 318 455
one dimensional 419
organic 141
organic matter 422
orthophosphate 133 184 469
oxidation rates 485
Patuxent 141 173 380 495
pesticides 380
pH 67 184 207 293 380 455
phaeophytin 473
phosphate 67 184 293 380
phosphomonoester 468
phosphorus 22 79 91 297 415 468
 473
phytoplankton 67 72 79 91 141
 296 297 298 415 468 469
plants 141
polyphosphate 469
POM 421
Potomac 67 173 380 419 467 495
power plant 141
primary 22 91 140 141 296 473
processes 184
productivity 22 67 91 140 141
 296 473
public opinion 429
P32 469
quasi linear 415
radioactivity 345 346
rainfall 297
Rappahannock 173 380 495
redox potential 293
remote sensing 318
resources 345 346 429
Rhode 133
salinity 67 184 422 455
seagrass 355
seasons 173 293 397
secchi disc 422
sediment water 396
sediments 297 301 380 397 417
 421
Severn 510
sewage 72 140 301 318 380 417
 421 510
silica 293
soil erosion 421

- specie key** 455
- steady state** 207
- submerged vegetation** 455
- sulfate** 184 293
- sulfide** 184
- suspended solids** 417 421 422
- Susquehanna** 79 173 380 415 495
- symposium** 297
- TDC** 473
- temperature** 67 184 455
- tertiary** 301
- thermal** 141
- tides** 22
- trace metals** 72 184 380 455
- transport** 301
- turbidity** 67 455
- turnover rates** 469
- two dimensional** 41 42
- uptake rates** 133 297
- urea** 298
- vertical distribution** 184
- vertical transport** 297
- Virginia** 156 380 475
- Vm** 468 469
- wastes** 301 380 415
- water column** 417
- water velocity** 455
- watersheds** 92 173 380
- wind** 422
- York** 173 380 495
- zooplankton** 67 72 140 296 297
- Chickahominy**
 - Bay** 173
 - Chesapeake** 173
 - Estuary** 173
 - James** 173
 - linear regression** 173
 - nutrients** 173
 - Patuxent** 173
 - Potomac** 173
 - Rappahannock** 173
 - seasons** 173
 - Susquehanna** 173
 - watersheds** 173
 - York** 173
- Chinhae**
 - Bay** 238
 - disease** 238
 - fertilizer** 238
 - Korea** 238
- Porphyra** 238
- primary** 238
- productivity** 238
- wastes** 238
- Chlorella**
 - algae** 312
 - Anabaena** 312
 - carbon** 312
 - CO₂** 312
 - growth rates** 312
 - Microcystis** 312
- Chlorella salina**
 - ammonia** 69
 - nitrate** 69
 - phosphate** 69
 - protein** 69
 - salinity** 69
 - sewage** 69
 - uptake rates** 69
- chloride**
 - alkalinity** 293
 - ammonia** 293
 - Bay** 293
 - Chesapeake** 293
 - distribution** 293
 - interstitial** 293
 - iron** 293
 - manganese** 293
 - pH** 293
 - phosphate** 293
 - redox potential** 293
 - seasons** 293
 - silica** 293
 - sulfate** 293
- chlorinated hydrocarbons**
 - benthic** 137
 - Bothnia** 137
 - buoys** 37
 - California** 37
 - ceramic panel substrates** 37
 - dispersion** 37
 - dissolved solids** 137
 - DO** 137
 - economics** 37 491
 - Gulf** 137
 - hydrology** 137 491
 - iron** 137
 - macrofauna** 137
 - management** 491
 - Mediterranean** 491

methods 37
 microbes 491
 nutrients 137 491
Obelia dichtoma 37
 oil 137 491
 pesticides 137
 phosphorus 137
 phytoplankton 137
 primary 137
 productivity 37 137
 radioactivity 491
 resources 491
 Sea 491
 sediments 137 491
 sewage 37
 symposium 137
 trace metals 37 137 491
 wastes 137
 zooplankton 137
chlorine
 agrochemicals 455
 alkalinity 184 455
 ammonia 184
 Bay 184 455
 boat traffic 455
 Chesapeake 184 455
 chlorophyll 184
 disease 455
 DO 184
 dredging 455
 epiphytes 455
 fauna 455
 nutrients 455
 oil 455
 orthophosphate 184
 pH 184 455
 phosphate 184
 processes 184
 salinity 184 455
 specie key 455
 submerged vegetation 455
 sulfate 184
 sulfide 184
 temperature 184 455
 trace metals 184 455
 turbidity 455
 vertical distribution 184
 water velocity 455
chlorophyll
 Aberdeen 453

abundance 43 113
 Agnes 415
 Albemarle 43
 algae 140
 algae bluegreen 215
 alkaline phosphatase 470 482
 alkalinity 47 67 184
 alpha fluorescence 329
 ammonia 43 67 184 289 407 473
 481
 ammonium 113 482
 ash 382
 ATP 193
 Australia 154 424
 Bay 64 65 67 79 140 184 288 296
 300 322 365 406 415 423 453 470
 473 495
 Bayou 102
 benthic oxygen demand 80
 Bight 113
 biomass 65 128 140 154 296 519
 bloom 80 382 519
 BOD 495 519
 Broadkill 101
 Buzzards 406
 C/N 406 482
 California 128 155
 carbohydrates 193
 carbon 70 193 220 382 454 473
 482 495
 carbon oxygen demand 80
 CBOD 407
 chemical 102
 Chesapeake 67 79 140 184 296 415
 473 495
 chlorine 184
 Chocolate 102
 Cochin 391
 COD 289
 coliforms 407
 community structure 174
 CO₂ 220
 crude fiber 193
 C14 140 382 391 453
 Delaware 101
 detritus 65 406 424
 DIC 473
 distribution 113 128 155 470
 diurnal 482
 diversity 102 155 300

DNA 470
 DO 47 67 80 101 102 154 174 184
 220 407 495 519
 DOC 473
 Duwamish 481 519
 energetics 365
 enzymes 470
Estuary 47 67 79 80 101 154 174
 193 215 220 289 350 391 403 407
 415 423 481 495 519
 fatty acids 382 423
Fladen Ground 453
 flushing 155
 freshwater 113 519
 growth rates 70
 Gulf 155
Hacking 424
Hawaii 64 65
Hurricane 415
 hydrology 43 154 174 424
 H3 154
 indicator species 481
 indices 102 220 350 470
 inorganic 101 407
James 47 495
Japan 322
Kaneohe 64 65
 Ks 482
Lagoon 155
Laminaria 70
 land development 43
 light 174 424
Little River 154
Loch 454
 macrophytes 70
 management 215
 marshes 193
Maryland 193 350
Massachusetts 406
Massartia rotundata 365
 methods 296 350 424
Michaelis Menton 415
 microbes 220 423 470
 microcosms 140
 microflagellates 174
 microplankton 403
 model 64 80 407 415
Murderkill 101
 nanoplankton 174 288 296 300 403
 406
Narragansett 423
Nevis 454
New Jersey 113 300
New York 113
Newark 300
 nitrate 64 67 70 113 128 382 407
 454 473 481 482
 nitrite 67 113 407 473 481
 nitrogen 43 65 67 79 80 101 193
 407 415 482
 nitrogen oxygen demand 80
North 453 454
North Carolina 43
Nova Scotia 382
NO₂ 47
NO₃ 47
 nutrients 28 79 80 101 128 215
 220 288 289 322 391 473 495
 oil 423
Olisthodiscus luteus 482
 one dimensional 407
 organic 407
 organic matter 28
 orthophosphate 184
Pagan 407
Parramatta 403
Patuxent 193 350 495
Periphyton 481
 pesticides 220
 pH 47 67 101 184
 phaeophytin 473
 phosphate 64 67 113 184 454 481
 phosphorus 43 47 79 80 101 154
 193 289 382 407 415 470 473 482
 phytoplankton 28 43 47 64 65 67
 79 80 113 128 154 155 174 288
 296 300 322 329 382 407 415 424
 519
 plankton 288 365
PN 47
POC 65 406 453 454
PON 406
Port 424
Potomac 67 80 215 220 289 495
 primary 28 43 64 80 140 154 155
 174 288 296 382 391 403 453 473
 481
 processes 184 453
 productivity 28 43 64 67 80 102
 140 154 155 174 288 296 365 382

- 391 403 453 454 473 481
 protein 470
 Providence 423
 P32 154
 quasi linear 415
 Rappahannock 495
 Raritan 288 365
 reaeration 80
 real time 407
 remote sensing 329 350
 respiration 28 80 102 365 382
 Rockaway Point 113
 runoff 424
 salinity 43 47 67 101 113 154
 174 184 407
 Scotland 454
 Sea 453 454
 seasons 102 300 391 406 453
 sediments 289 424
 seston 470
 sewage 64 140 215 423
 silica 113 382
 Sound 43
 sulfate 184
 sulfide 184
 suspended solids 113 350 406 423
 424
 Susquehanna 79 415 495
 Taunton 423
 Taylor 102
 TDC 473
 temperature 43 47 67 113 128 154
 174 184 391 519
 Texas 102
 tides 101 155 519
 TOC 220
 Tokyo 470
 trace metals 184
 turbidity 43 67
 uptake rates 482
 Uranouchi 322
 vertical distribution 184
 Washington 481
 wastes 102 220 322 415 481
 weight 289
 wetlands 101
 York 174 495
 zooplankton 67 102 140 154 296
 391 406
Chlorophyta
 algae 430
 ammonia 430
 ammonium 31
 batch culture 144
 biomass 144
 bloom 144
 carbon 144
 continuous culture 144
 CO₂ 144
Cyanophyta 144 430
 Estuary 31 430
 Hudson 31
 light 31
 Maryland 430
 nitrate 31
 nitrogen 144
 nitrogen fixation 144
 pH 144
 phosphate 430
 phytoplankton 31 144
 Potomac 430
 secondary 144 430
 sewage 144 430
Skeletonema 31
 succession 144
 uptake rates 31
Chocolate
 Bayou 102
 chemical 102
 chlorophyll 102
 diversity 102
 DO 102
 indices 102
 productivity 102
 respiration 102
 seasons 102
 Taylor 102
 Texas 102
 wastes 102
 zooplankton 102
Chowan
 Albemarle 450
 algae bluegreen 533
 ammonia 450
 biomass 533
 bloom 450 533
 C/N 450
 DIN 450
 diversity 533
 DON 450

- Estuary 450 533
- microbes 533
- North Carolina 450 533
- phosphorus 533
- phytoplankton 450 533
- primary 450
- productivity 450
- seasons 450
- Sound 450
- uptake rates 533
- Chrysaora quinquecirrha*
 - ammonium 38
 - nitrate 38
 - pH 38
 - phosphate 38
 - polyp 38
 - remote sensing 38
 - sea nettle 38
 - sewage 38
- Cladocera**
 - Bay 147
 - Evdne* 310
 - Evdne tergestina* 147
 - Greece 245 310
 - Gulf 245 310
 - indicator species 245 310
 - industry 245
 - Malagasy Republic 147
 - Nosy Be 147
 - Penilia avirostris* 147
 - phytoplankton 147
 - rainfall 147
 - Saronic 245 310
 - seasons 147 245 310
 - sewage 245 310
 - temperature 245 310
 - tropical 147
 - wastes 245
 - zooplankton 147 245
- clams
 - amino acids 225
 - carbohydrates 225
 - glycine 225
 - Mercenaria* 225
 - oil 225
 - sewage 225
 - stress 225
 - taurine 225
- clay
 - adsorption 259
- Belgium 535
- diatoms 535
- dissolved 535
- Doboy 385
- Estuary 535
- flux 385 458
- Georgia 385
- Harbor 458
- Hong Kong 458
- inorganic 385
- land development 458
- microbes 385
- nutrients 259
- organic 259
- pH 259
- phosphate 259 385 458
- phosphorus 259
- P32 385
- salinity 259 458
- Scheldt 535
- seagrass 374
- sediment water 259 385
- sediments 458 535
- sewage 259 374
- silica 535
- Sound 385
- temperature 259
- Tolo 458
- turbidity 374
- uptake rates 259
- Virginia 259
- Clyde**
 - algae 443
 - birds 443
 - BOD 284
 - DO 284
 - Enteromorpha* 375
 - Estuary 284 375 443
 - fauna 375
 - feeding grounds 443
 - fisheries 375
 - freshwater 284
 - hydrology 284
 - industry 284
 - intertidal 443
 - invertebrates 443
 - molluscs 375
 - nutrients 375
 - predictions 284
 - sand 375

- Scotland 375
- sediments 375
- sewage 284 375
- temperature 284
- wastes 284
- worms 375
- cobalamin**
 - Long Island 509
 - nutrients 509
 - orthophosphate 509
 - phytoplankton 509
 - seasons 509
 - Sound 509
 - thiamine 509
- Cochin**
 - chlorophyll 391
 - C14 391
 - Estuary 391
 - nutrients 391
 - primary 391
 - productivity 391
 - seasons 391
 - temperature 391
 - zooplankton 391
- Cockburn**
 - growth rates 63
 - Posidonia australis* 63
 - seagrass 63
 - seasons 63
 - sediments 63
 - Sound 63
- COD**
 - algae 442
 - ammonia 289
 - bacteria 440
 - Bay 440
 - benthic 338
 - benthic oxygen demand 440
 - BOD 349
 - Buzzards 440
 - chlorophyll 289
 - crustaceans 338
 - deoxygenation 349
 - Estuary 289
 - fisheries 338
 - industry 442
 - Japan 338 349
 - Louisiana 442
 - marshes 442
 - microbes 442
 - model 338
 - nitrogen 338
 - nutrients 289 442
 - oil 338
 - organic matter 338
 - phosphorus 289
 - Potomac 289
 - respiration 440
 - runoff 442
 - Sea 338
 - sediments 289 338 440
 - self purification 349
 - Seto 338
 - sewage 338 440 442
 - sulfate 338
 - sulfide 338
 - TOC 349 442
 - TOD 349
 - wastes 442
 - weight 289
- Codium**
 - algae 497
 - assay 497
 - Enteromorpha* 497
 - nutrients 497
- coliforms**
 - aerobic 122 183
 - alkalinity 380
 - ammonia 407
 - Bay 23 94 353 380
 - benthic 542
 - benthic oxygen demand 221 542
 - BOD 1 221 290 353
 - carbon 221 542
 - CBOD 407
 - Chesapeake 380
 - chlorophyll 407
 - cycles 183
 - DC 1 380
 - deoxygenation 542
 - diversity 94
 - DO 1 221 290 353 380 407 542
 - dye 1
 - economics 94
 - Estuary 1 183 221 380 407
 - feces 163
 - fish 542
 - fisheries 94
 - Great Britian 23
 - gulls 163

Hawaii 94
 heat 542
 hydrology 183
 ice 542
 industry 380
 inorganic 407
 Jamaica 353
 James 380
 Kaneohe 94
 light 542
 Liverpool 23
 management 183
 Maryland 380
 methods 542
 microbes 122 183
 model 1 183 353 407 542
 New York 353
 nitrate 380 407
 nitrite 290 407
 nitrogen 94 163 183 353 407
 nutrients 1 221 380 542
 one dimensional 407
 organic 407
 organic matter 290
 organisms 542
 Pagan 407
 pathogens 163
 Patuxent 380
 pesticides 380
 pH 290 380
 phosphate 380
 phosphorus 94 163 353 407
 phytoplankton 1 221 407 542
 plankton 122
 Potomac 1 183 221 380
 predictions 183
 primary 542
 processes 183
 productivity 542
 Rappahannock 380
 rate constants 542
 reaeration 542
 real time 183 407
 recreation 94
 red tide 122
 salinity 290 353 407
 seasons 290
 sediments 380
 sewage 23 94 122 163 380
 shellfish 290
 spatial distribution 542
 Susquehanna 380
 temperature 290
 temporal distribution 542
 tides 1 183
 trace metals 380
 tracer 23
 Transient Water Quality Network
 183
 two dimensional 353
 Virginia 380
 wastes 221 380
 watersheds 380
 York 380
 zooplankton 542
coliphage
 copper 505
 enterovirus 505
 sewage 505
 shellfish 505
Columbia
 algae mats 357
 Estuary 175 357
 Eurytemora 175
 indicator species 357
 light 175
 linear regression 175
 nitrate 175
 Oregon 175
 phosphate 175
 phytoplankton 175
 seasons 175
 silica 175
 specie key 357
 zooplankton 175
Colville
 Alaska 7
 Estuary 7
 fisheries 7
 hydrology 7
 nutrients 7
 primary 7
 productivity 7
 resources 7
community structure
 algae 89 256
 animals 89
 bacteria 256
Bathyphoria sarsi 11
 Bay 11

benthic 11 371
 birds 256
Capitella capitata 11
 carbon 256
 chlorophyll 174
 crustaceans 256
 diversity 88
 DO 174
 ecocline 371
 Estuary 89 174
 fish 88 256
 foraminifera 256
 gradient 371
 heat 89
 heterotrophic 256
 hydrology 174
 indicator species 371
 indices 371
 insects 256
 Kiel 11
 light 174
 macrofauna 11
 meiofauna 256
 metabolism 88 256
 methods 483
 microflagellates 174
 molluscs 256
 nanoplankton 174
 nitrogen 256
 North Carolina 89
 nutrients 88 89
 oligochaetes 11
 organic enrichment 371
 phosphorus 256
 phytoplankton 174 256
 pond experiment 89 256
 primary 174 483
 productivity 89 174 256
Pygospio elegans 11
 recipient analog 483
 recovery 371
 respiration 89
 salinity 174
 seasons 89
 secondary 483
 sediments 371
 sewage 11 89 256 483
 South Creek 89
 stress 88
 succession 371

temperature 89 174
 tertiary 483
 Texas 88
 York 174
 zooplankton 88

conceptual
 Bay 168
 carbon 168
 Chesapeake 168
 model 168
 nutrients 168

conference
 amino acids 528
 benthic 528
 bloom 279
 cycles 528
 detritus 528
 dinoflagellate 279
 fish 528
 fisheries 528
 invertebrates 528
 management 528
 microbes 528
 nitrogen 528
 nutrients 528
 oil 528
 organisms 528
 pesticides 528
 phosphorus 528
 seagrass 528
 silica 528
 stress 528
 trace metals 528
 urea 528
 wetlands 528
 zooplankton 528

Connecticut
 aerobic 58
 anaerobic 58
 assay 58
 Cops Brook 58
 degradation 58
 DOC 58
 interstitial 58
 metabolism 58
 microbes 58
 model 58
 nutrients 58
 organic matter 58
 POC 58

sediments 58
tetrazolium salt 58
watersheds 58
continuous culture
 algae 160
 batch culture 144
 biomass 144 160
 bloom 144
 carbon 116 144
Chlorophyta 144
 CO₂ 144
Cyanophyta 144
 N/P 160
 nitrogen 144 160
 nitrogen fixation 144
 nutrients 116 160
 pH 144
 phytoplankton 116 144
 secondary 144
 sewage 116 144 160
 succession 116 144
 toxicity 116
Cook
 Alaska 319 320
 arctic 319
 benthic 319
 BOD 320
 DO 319
 Inlet 319 320
 microbes 319
 nitrogen 319
 organisms 319
 pH 319
 phosphorus 319
 plankton 319
 salinity 319
 sewage 319 320
 silica 319
 temperature 320
Copepoda
 carbon 195
 crustaceans 195
 detritus 195
 energy transfer 195
 Estuary 195
Eurytemora affinis 195
 Maryland 195
 microbes 195
 Patuxent 195
 primary 195
productivity 195
Scotlana canadensis 195
wetlands 195
copper
 coliphage 505
 enterovirus 505
 sewage 505
 shellfish 505
Copps Brook
 aerobic 58
 anaerobic 58
 assay 58
 Connecticut 58
 degradation 58
 DOC 58
 interstitial 58
 metabolism 58
 microbes 58
 model 58
 nutrients 58
 organic matter 58
 POC 58
 sediments 58
 tetrazolium salt 58
 watersheds 58
coral
 Bay 182
 Hawaii 182
 Kaneohe 182
 microbes 182
 nitrogen fixation 182
 secondary 182
 sediments 182
 sewage 182
Coriolis
 advection 42
 Bay 42
 Chesapeake 42
 hydrology 42
 model 42
 two dimensional 42
Corpus Christi
 Bay 372
 matrix 372
 model 372
 nitrogen 372
 Texas 372
CO₂
 aerobic 537
 algae 312 432 537

Anabaena 312
 argon 396 397
 batch culture 144
 Bay 396 397
 biomass 144 537
 bloom 144 432 537
 bubbles 396
 carbon 144 220 312
 Chesapeake 396 397
 Chlorella 312
 chlorophyll 220
 Chlorophyta 144
 continuous culture 144
 Cyanophyta 144
 C₁₄ 537
 density 537
 detritus 537
 DO 105 220
 Estuary 220
 growth rates 312
 H₂S 396
 indices 220
 Lagoon 105
 macrophytes 537
 methane 396 397
 microbes 220 537
 Microcystis 312
 model 105
 nitrogen 144 396 397
 nitrogen fixation 144
 nutrients 220
 pesticides 220
 pH 105 144 432
 phosphorus 432
 phytoplankton 144
 Potomac 220
 seasons 397
 secondary 144
 sediment water 396
 sediments 397 537
 sewage 105 144 432
 stabilization 105
 succession 144
 temperature 105
 TOC 220
 turnover rates 537
 uptake rates 537
 V_m 537
 wastes 105 220
 water column 537

crabs
 Bay 231
 biomass 231
 Cancer 139
 eggs 139
 energy transfer 231
 epibiotic fouling 139
 fish 231
 freshwater 231
 Galveston 231
 management 231
 microbes 139
 model 231
 nutrients 139
 productivity 231
 salinity 231
 secondary 231
 shrimp 231
 Texas 231
Craiglin
 benthic 393
 density 393
 DO 171
 fauna 393
 fertilizer 171 393
 fish 171
 flounder 171
 growth rates 171
 Hydrobia ulvae 393
 Loch 171 393
 productivity 393
 sexual maturity 171
Crangon crangon
 black necrosis 2
 Burry Inlet 2
 detergent 2
 DO 2
 Great Britian 2
 microbes 2
 pH 2
 salinity 2
 temperature 2
 trace metals 2
Creek
 carbon 21
 Carter 21
 cycles 21
 marshes 21
 nitrogen 21
 phosphorus 21

primary 21
 productivity 21
 sediment water 21
 Virginia 21
 Ware 21
crude fiber
 ATP 193
 carbohydrates 193
 carbon 193
 chlorophyll 193
 Estuary 193
 marshes 193
 Maryland 193
 nitrogen 193
 Patuxent 193
 phosphorus 193
crustaceans
 algae 256 339
 annelids 370
 bacteria 256 339
 benthic 338 352 370
 biomass 339
 birds 256 339
 Byfjorden 352
 calcium 339
 carbon 195 256 339
 COD 338
 community structure 256
 Copepoda 195
 detritus 195
 energy transfer 195
 England 370
 Estuary 195 352
Eurytemora affinis 195
 fish 256 339
 fisheries 338
 foraminifera 256 339
 Gothenburg 352
 heterotrophic 256 339
 indicator species 352 370
 insects 256 339
 Japan 338
 Kungsbackafjorden 352
 laboratory culture 260
 Linnhe E11 370
 Loch 370
 macrofauna 352
 marshes 339
 Maryland 195
 meiofauna 256 339 352
 metabolism 256
 microbes 195
 model 338
 molluscs 256 339 370
 nitrogen 256 338 339
 oil 338
 organic matter 338
 Patuxent 195
 phosphorus 256 339
 phytoplankton 256 339
 pond experiment 256 339
 primary 195
 productivity 195 256 339
 pulp mill 370
 Saltkallefjord 352
Scottiana canadensis 195
 Sea 338
 sediments 338
 Seto 338
 sewage 256 338 339
 succession 370
 sulfate 338
 sulfide 338
 Sweden 352
 tertiary 339
 wetlands 195
 zooplankton 352
ctenophores
 carbon 362
 energy transfer 362
 flux 362
 microcosms 362
 nitrogen 362
 nutrients 362
 primary 362
 productivity 362
Cyanophyta
 algae 430
 algae bluegreen 254
 ammonia 430
 batch culture 144
 biomass 144
 bloom 144
 carbon 144
Chlorophyta 144 430
 continuous culture 144
 CO₂ 144
 Estuary 430
 fish kills 254
 hosts 254

indicator species 254
 Maryland 430
 microbes 254
 nitrogen 144
 nitrogen fixation 144
 pH 144
 phosphate 430
 phytoplankton 144
 Potomac 430
Schizothrix calicola 254
 secondary 144 430
 sewage 144 430
 succession 144
 viruses 254
cycles
 abundance 499
 aerobic 183
 algae bluegreen 247
 amino acids 528
 ammonia 247 477
 ammonium 129 186 522
 animals 186
 Bay 91 224 297 499
 benthic 224 410 528
 biomass 247
 BOD 342 477
 boundary layer 522
 British Columbia 247
 California 129 477
 carbon 21 342 499 522
 Carter 21
 chemical 428
 Chesapeake 91 297
 coliforms 183
 conference 528
 Creek 21
 Delaware 342 477
 Delta 477
 Denmark 233
 detritus 528
 DIN 477
 diurnal 129
 DO 241 342 464 477
 Estuary 183 185 186 342 477
 fertilizer 464
 fish 528
 fisheries 528
 flux 342
 growth rates 522
 hydrology 91 183 224 241
 industry 464
 inorganic 186
 invertebrates 528
 kelp 522
 Ks 522
 local 297
Macrocystis 522
 macrophytes 247
 Malpeque 499
 management 183 428 528
 marshes 21
 metabolism 224
 microbes 183 247 297 499 528
 mining 464
 model 183 342 477
 morphology 522
 New Jersey 224
 New York 410
 nitrate 129 186 224
 nitrification 410
 nitrite 186 477
 nitrogen 21 48 91 129 183 185
 186 247 297 342 477 499 522 528
 North Carolina 185 186
 nutrients 186 241 297 342 410
 428 522 528
 N15 129
 oil 528
 organic 186
 organic matter 410
 organisms 410 528
 oxidation 233 477
 oysters 499
 Pamlico 185 186
 pesticides 528
 phosphate 224 247
 phosphorus 21 91 241 247 297 342
 464 499 528
 phytoplankton 91 129 297 342 477
 plants 186
 Potomac 183 342 477
 predictions 183
 primary 21 91 129 185 410 522
 processes 183 185 224
 productivity 21 91 129 185 410
 428 499 522
 rainfall 297
 Raritan 224
 real time 183
 reduction 233

runoff 464
 Sacramento San Joquin 477
 salinity 241
 seagrass 528
 seasons 186 224
 sediment water 21
 sediments 186 233 247 297 410
 sewage 129 464
 silica 528
 stochastic 477
 stress 528
 sulphur 233
 symposium 297
 tides 183
 trace metals 528
 Transient Water Quality Network
 183
 turnover rates 233
 uptake rates 129 297
 urea 129 186 528
 vertical transport 297
 Virginia 21
 Vm 522
 Ware 21
 wastes 342 464
 water velocity 522
 wetlands 528
 zooplankton 297 342 477 528

cysts
 benthic 10
 bloom 10
 dinoflagellate 10
 Gonyaulax 10
 Massachusetts 10
 red tide 10
 spores 10
 toxicity 10

C14
 Aberdeen 453
 aerobic 537
 algae 140 537
 algae colonial 152
 amino acids 456
 ash 382
 bacteria 456
 bacteria proteolytic 456
 Bay 140 453
 biomass 140 537
 biosorption 543
 bloom 382 537

carbohydrates 456
 carbon 382
 Chesapeake 140
 chlorophyll 140 382 391 453
 Cochin 391
 CO₂ 537
 density 537
 detritus 537
 Estuary 391
 fatty acids 382
 fauna 456
 fish 543
 Fladen Ground 453
 fungus 456
 heterotrophic 456
 indices 456
 macrophytes 537
 methianine 543
 methods 152 456
 microbes 456 537
 microcosms 140
 mucus 152
 nitrate 382
 North 453
 Nova Scotia 382
 nutrients 391
 oil 456
 phosphorus 382
 phytoplankton 382 456
 POC 453
 primary 140 152 382 391 453
 processes 453 456
 productivity 140 152 382 391 453
 pulp mill 456
 respiration 382
 salinity 456
 Sea 453
 seasons 391 453
 sediments 537
 sewage 140 456
 silica 152 382
 symposium 456
 temperature 391
 thermal 456
 trace metals 456
 turnover rates 537
 uptake rates 537
 urea 543
 Vm 537
 water column 537

- zooplankton 140 391
- Damariscotta**
 - benthic 106
 - DO 106
 - Estuary 106
 - fish 106
 - growth rates 106
 - invertebrates 106
 - laboratory culture 106
 - larvae 106
 - Maine 106
 - Penobscot 106
 - salinity 106
 - sediments 106
 - settlement 106
 - Sheepscot 106
 - temperature 106
- DC**
 - alkalinity 380
 - Bay 380
 - BOD 1 283
 - Chesapeake 380
 - coliforms 1 380
 - dispersion coefficient 283
 - DO 1 283 380
 - DOD 283
 - dye 1
 - Estuary 1 283 380
 - industry 380
 - James 380
 - Maryland 380
 - model 1 283
 - nitrate 380
 - nutrients 1 380
 - Patuxent 380
 - pesticides 380
 - pH 380
 - phosphate 380
 - phytoplankton 1
 - Potomac 1 283 380
 - Rappahannock 380
 - sediments 380
 - sewage 380
 - Susquehanna 380
 - tides 1
 - trace metals 380
 - Virginia 380
 - wastes 380
 - watersheds 380
 - York 380
- decomposition**
 - aerobic 172
 - ammonium 172
 - anaerobic 172
 - ATP 172
 - Bight 172
 - calorific content 172
 - DIC 172
 - DOC 172
 - electron transfer 299
 - energy transfer 299
 - growth rates 299
 - microbes 299
 - New York 172
 - nitrate 172
 - nitrite 172
 - organic matter 299
 - PC 172
 - PN 172
 - redox potential 299
 - sewage 172
 - steady state 299
 - substrates 299
- definition**
 - eutrophication 151
- degradation**
 - aerobic 58
 - anaerobic 58
 - assay 58
 - Connecticut 58
 - Copps Brook 58
 - DOC 58
 - interstitial 58
 - metabolism 58
 - microbes 58
 - model 58
 - nutrients 58
 - organic matter 58
 - POC 58
 - sediments 58
 - tetrazolium salt 58
 - watersheds 58
- dehydrogenase**
 - anaerobic 358
 - benthic 358
 - Lake 358
 - metabolic heat release 358
 - metabolism 358
 - microcalorimetry 358
 - nutrients 358

- organic matter 358
- organisms 358
- oxygen 358
- processes 358
- Puget 358
- sediments 358
- Sound 358
- Washington 358
- Delaware**
 - ammonia 477
 - benthic 539
 - bioturbation 539
 - BOD 109 342 477 523 539
 - Broadkill 101
 - California 477
 - carbon 342
 - chemical 109
 - chlorophyll 101
 - cycles 342 477
 - Delta 477
 - DIN 477
 - DO 101 342 477
 - economics 134
 - Estuary 101 109 134 342 411 477
523 539
 - fauna 539
 - fisheries 411
 - flux 342
 - industry 109 134
 - inorganic 101
 - Limnodrilus 539
 - management 109 411
 - model 109 342 411 477 523
 - municipal 109
 - Murderkill 101
 - nitrite 477
 - nitrogen 101 342 477
 - nonpoint sources 523
 - North 411
 - nutrients 101 342
 - oligochaetes 539
 - organic 539
 - oxidation 477
 - pH 101
 - phosphorus 101 342
 - phytoplankton 342 411 477
 - Potomac 342 477
 - runoff 134
 - Sacramento San Joquin 477
 - salinity 101
 - Sea 411
 - sediments 539
 - sewage 134
 - stochastic 477
 - storm loading 134 523
 - succession 411
 - tides 101
 - wastes 109 134 342 539
 - wetlands 101
 - zooplankton 342 477
- Delta**
 - ammonia 477
 - BOD 477
 - California 477
 - cycles 477
 - Delaware 477
 - DIN 477
 - DO 477
 - Estuary 477
 - model 477
 - nitrite 477
 - nitrogen 477
 - oxidation 477
 - phytoplankton 477
 - Potomac 477
 - Sacramento San Joquin 477
 - stochastic 477
 - zooplankton 477
- denitrification**
 - acetylene 444
 - activated sludge 514
 - ammonia 157 190 444
 - anaerobic 127
 - Bay 190
 - Belgium 504
 - BOD 324
 - C/N 324
 - carbon 324
 - diffusion 127
 - eutrophic 157
 - Fiji Island 326
 - floodwaters 127
 - inorganic 326
 - interstitial 504
 - Japan 190
 - Louisiana 127
 - macrophytes 157
 - Mangoku 190
 - mangroves 326
 - microbes 326

model 157 504
 nitrate 127 157 444 504
 nitrification 157 504 514
 nitrite 504
 nitrogen 157 326
 N15 190
 organic 157
 organic matter 157 324 504
 phytoplankton 157
 PON 190
 processes 157
 redox potential 127
 reduction 444
 respiration 514
 secondary 326
 sediments 190 326 444 504
 sewage 324 326
 Simoda 190
 tertiary 326
 Tokyo 190
 uptake rates 157
 Ura 190
 zooplankton 157
Denmark
 cycles 233
 oxidation 233
 reduction 233
 sediments 233
 sulphur 233
 turnover rates 233
density
 aerobic 537
 algae 537
 bacteria 246
 Bay 198 323
 Bengal 323
 benthic 393
 biomass 537
 bloom 537
 CO₂ 537
 Craiglin 393
 Cl₄ 537
 detritus 537
 dispersion 530
 diversity 246
 DO 323
 dye 530
 Estuary 530
 fauna 393
 fertilizer 393
 heterotrophic 246
Hydrobia ulvae 393
 hydrology 198 280 530
 Loch 393
 longitudinal 530
 macrophytes 537
 microbes 537
 mixing 530
 model 198 280 530
 Narragansett 198
 nutrients 323
 point sources 530
 productivity 393
 salinity 198
 sediments 246 537
 self purification 246
 stratification 280
 three dimensional 198
 three layer 280
 turnover rates 537
 uptake rates 537
 vertical shear 530
 Vm 537
 water column 537
 York 530
density homogeneous
 model 258
 specified time 258
 two dimensional 258
 unsteady flow 258
deoxygenation
 benthic 542
 benthic oxygen demand 542
 BOD 349
 carbon 542
 COD 349
 coliforms 542
 DO 542
 DOC 104
 Estuary 104
 fish 542
 heat 542
 ice 542
 Japan 349
 light 542
 methods 542
 model 542
 nutrients 104 542
 organisms 542
 Pamlico 104

phytoplankton 542
 POC 104
 primary 104 542
 productivity 104 542
 rate constants 542
 reaeration 542
 respiration 104
 self purification 349
 spatial distribution 542
 temporal distribution 542
 TOC 104 349
 TOD 349
 zooplankton 542
deposition
 Belgium 376
 bloom 376
 detritus 328
 diatoms 376
 DO 376
 Estuary 328 376
 hydrology 376
 interface salt fresh 376
 microbes 328
 nutrients 376
 processes 328
 Rappahannock 328
 redox potential 328
 salinity 328
 Scheldt 376
 sediments 328 376
 self purification 376
 suspended solids 376
 trace metals 376
 transport 376
detergent
 algae bluegreen 335
 Baltic 335
 benthic 234 335
 bibliography 436
 black necrosis 2
 Burry Inlet 2
 Crangon crangon 2
 DO 2 148 270 335
 dredging 148
 energy transfer 335
 Estuary 148
 fish 335
 France 234
 Great Britian 2
 Gulf 234
 indicator species 335
 inorganic 413
 instruments 436
 macroalgae 335
 Marseilles 234
 methods 436
 microbes 2
 model 335 436
 municipal 413
 N/P 413
 nitrogen 413
 nutrients 270 436
 oil 436
 organic matter 148 413
 organisms 234 335
 PC 270
 pesticides 436
 pH 2
 phosphorus 413
 phytoplankton 413
 plankton 270
 PN 270
 Posidonia oceanica 234
 primary 335
 productivity 335
 salinity 2 270
 Sea 335
 seagrass 234
 seston 270
 sewage 148 234 335
 symposium 335
 temperature 2 270
 Thames 148
 trace metals 2 436
 wastes 413
 zooplankton 335
deterministic
 Bay 419
 Chesapeake 419
 diffusion 419
 Estuary 419
 model 419
 one dimensional 419
 Potomac 419
detritus
 aerobic 537
 algae 537
 amino acids 528
 Australia 424
 Bay 22 65 406

benthic 528
 biomass 65 537
 bloom 537
 Broad River 292
 Buzzards 406
 C/N 406
 carbon 22 192 195
 Chesapeake 22
 chlorophyll 65 406 424
 conference 528
 Copepoda 195
 CO₂ 537
 crustaceans 195
 cycles 528
 C¹⁴ 537
 density 537
 deposition 328
 energy transfer 75 192 195
 Estuary 192 195 292 328
Eurytemora affinis 195
 fertilizer 292
 fish 528
 fisheries 528
 Florida 292
 flux 22
 Hacking 424
 Hawaii 65
 hydrology 424
 invertebrates 528
 Kaneohe 65
 leaves 292
 light 424
 macrophytes 537
 management 528
 mangroves 292
 marshes 22 75 192
 Maryland 192 195
 Massachusetts 406
 methods 424
 microbes 75 195 328 528 537
 model 75
 nanoplankton 406
 nitrogen 22 65 528
 nutrients 75 192 528
 oil 528
 organisms 528
 Patuxent 192 195
 pesticides 292 528
 phosphorus 22 528
 phytoplankton 65 424
 POC 65 406
 PON 406
 Port 424
 primary 22 192 195
 processes 328
 productivity 22 192 195
 Rappahannock 328
 redox potential 328
 runoff 424
 salinity 328
Scotlana canadensis 195
 seagrass 528
 seasons 406
 sediments 328 424 537
 Shark 292
 silica 528
Spartina 75
 stress 528
 suspended solids 406 424
 tides 22
 trace metals 292 528
 turnover rates 537
 uptake rates 537
 urea 528
 Vm 537
 water column 537
 wetlands 192 195 528
 zooplankton 406 528
 diagenesis
 microbes 502
 model 502
 nitrogen 502
 silica 502
 diatoms
 ammonia 5
 assay 414
 Belgium 376 535
 benthic 5
 biomass 445
 bloom 376 414 445
 clay 535
 deposition 376
 dinoflagellate 479
 dissolved 535
 distribution 153
 diversity 197
 DO 376
 Estuary 376 535
 filter feeders 347
 flagellates 347

- Great Britian 197
- growth rates 479
- hydrology 376 414
- indicator species 197
- indices 197
- interface salt fresh 376
- Japan 445
- laboratory culture 5
- long term 153
- Michaelis Menton 347
- microbes 445
- model 347
- N/P 414
- nitrate 5 414
- nitrite 5
- nitrogen 479
- North 153
- Norway 414
- nutrients 376 445
- orthophosphate 5 414
- phytoplankton 153 414 479
- primary 5 445
- productivity 5 445
- Scheldt 376 535
- Sea 153 445
- sediments 376 535
- self purification 376
- sewage 197 479
- silica 347 414 535
- suspended solids 376
- temperature 153
- time constants 347
- trace metals 376 414 479
- transport 376
- Trondheimsfjord 414
- winter 445
- zooplankton 153 347

- DIC**
- aerobic 172
- ammonia 473
- ammonium 172
- anaerobic 172
- ATP 172
- Bay 473
- Bight 172
- calorific content 172
- carbon 473
- Chesapeake 473
- chlorophyll 473
- decomposition 172

- DOC 172 473
- New York 172
- nitrate 172 473
- nitrite 172 473
- nutrients 473
- PC 172
- phaeophytin 473
- phosphorus 473
- PN 172
- primary 473
- productivity 473
- sewage 172
- TDC 473

- Dickinson**
- Bayou 251
- bloom 251
- DO 251
- fish kills 251
- phosphorus 251
- phytoplankton 251
- sewage 251

- diffusion**
- ammonium 467
- anaerobic 127
- Bay 419 467
- Chesapeake 419 467
- denitrification 127
- deterministic 419
- Estuary 419 467
- floodwaters 127
- frequency analysis 261
- Louisiana 127
- model 261 419 467
- nitrate 127 467
- one dimensional 419
- Potomac 419 467
- redox potential 127

- dilution**
- Bay 510
- Chesapeake 510
- Estuary 510
- hydrology 510
- model 510
- Severn 510
- sewage 510

- DIN**
- Albemarle 450
- ammonia 450 477
- Bay 199
- bloom 450

BOD 477
 C/N 450
 California 477
 Chowan 450
 cycles 477
 Delaware 477
 Delta 477
 DO 477
 DON 450
 DRP 199
 Estuary 450 477
 Great Britian 199
 Liverpool 199
 long term 199
 model 477
 nitrite 477
 nitrogen 199 477
 North Carolina 450
 oxidation 477
 phosphorus 199
 phytoplankton 450 477
 Potomac 477
 primary 450
 productivity 450
 Sacramento San Joquin 477
 seasons 199 450
 Sound 450
 stochastic 477
 zooplankton 477
dinoflagellate
 Bay 524
 benthic 10
 bibliography 13
 bloom 10 13 279 524
 conference 279
 cysts 10
 diatoms 479
 Fundy 524
 Gonyaulax 6 10
 Gonyaulax excavata 524
 growth rates 479
 herring 524
 Limacina retroversa 524
 Massachusetts 10
 nitrogen 479
 phytoplankton 479
 pteropods 524
 red tide 10
 sewage 479
 spores 10
DIP
 toxicity 6 10
 trace metals 479
directory
 Bay 73
 bibliography 73
 Chesapeake 73
 eutrophication 73
 management 73
disease
 agrochemicals 455
 alkalinity 455
 Bay 238 455
 benthic 305 356
 boat traffic 455
 Chesapeake 455
 Chinhae 238
 chlorine 455
 dredging 455
 epiphytes 455
 fauna 455
 fertilizer 238
 fish 305 356
 Korea 238
 macrofauna 356
 Mississippi 356
 nutrients 455
 oil 455
 parasites 356
 pesticides 356
 pH 455
 Porphyra 238
 primary 238
 productivity 238
 Puget 305
 salinity 455
 sewage 305 356
 Sound 305
 specie key 455
 submerged vegetation 455
 temperature 455
 trace metals 356 455
 turbidity 455
 Washington 305
 wastes 238
 water velocity 455

dispersion
 buoys 37
 California 37
 ceramic panel substrates 37
 chlorinated hydrocarbons 37
 density 530
 dye 530
 economics 37
 Estuary 530
 hydrology 530
 longitudinal 530
 methods 37
 mixing 530
 model 530
Obelia dichtoma 37
 point sources 530
 productivity 37
 sewage 37
 trace metals 37
 vertical shear 530
 York 530
dispersion coefficient
 BOD 283
 DC 283
 DO 283
 DOD 283
 Estuary 170 283
 model 170 283
 Oregon 170
 Potomac 283
 slack water 170
 Yaquina 170
disposal
 dredging 531
 wetlands 531
dissolved
 Bay 207
 Belgium 535
 bound 3
 Chesapeake 207
 clay 535
 diatoms 535
 Estuary 131 535
 fertilizer 3
 inorganic 131
 interstitial 207
 manganese 207
 Mississippi 131
 model 207
 nitrate 3
 Orinoco 131
 pH 207
 phosphorus 3
 plumes 131
 pond experiment 3
 P32 3
 Savannah 131
 Scheldt 535
 sediments 3 535
 silica 131 535
 steady state 207
 suspended solids 131
 uptake rates 131
dissolved solids
 artificial recharge 138
 Bayou 313
 benthic 137
 Bothnia 137
 canal 138
 chlorinated hydrocarbons 137
 DO 137 313
 economics 138
 Estuary 138
 glucose 313
 Gulf 137
 hydrology 137
 iron 137
 kinetics 313
 macrofauna 137
 microbes 313
 nitrification 138
 nutrients 137 313
 oil 137
 ozonization 138
 pesticides 137
 phosphate 313
 phosphorus 137
 phytoplankton 137
 primary 137
 productivity 137 313
 recycle 138
 redox potential 313
 sediment water 313
 sediments 137
 sewage 138
 symposium 137
 Thames 138
 trace metals 137
 wastes 137
 water supply 138

zooplankton 137
distribution
 abundance 113 383
 alkaline phosphatase 470
 alkalinity 293 383
 ammonia 50 293
 ammonium 113
 assay 383
 Bay 71 293 417 470
 benthic 269
 Bight 113
 biomass 128
 BOD 71
 Burrard 460
 California 128 155
 carbon 377 449
 Chesapeake 293 417
 chloride 293
 chlorophyll 113 128 155 470
 diatoms 153
 diversity 155
 DNA 470
 DO 71
 enzymes 470
 Estuary 50 309 377 449
 fiord 460
 flushing 155
 freshwater 113
 Gulf 155
 Harbor 460
 hydrology 71
 indicator species 269 383 417
 indices 125 269 470
 Inlet 460
 interstitial 293
 intertidal 309
 invertebrates 383
 Irish 309
 iron 293
 isotope 449
 Lagoon 155
 Lake 383
 long term 153
 macrofauna 309
 manganese 293
 Mersey 309
 Michaelis-Menton 71
 microbes 417 470
 Mississippi 125
 model 71
 New Jersey 113
 New York 113
 nitrate 50 113 125 128
 nitrite 50 113
 nitrogen 50 377
 North 153
 nutrients 50 71 125 128 383
 organic 50 269 309
 oxygen 377
 pH 71 293 383
 phosphate 50 113 125 293
 phosphorus 470
 phytoplankton 71 113 128 153 155
 460
 plankton 383
 Pontchartrain 383
 Potomac 377 449
 primary 155 383 460
 productivity 155 383 460
 protein 470
 redox potential 293
 resources 125
 Rockaway Point 113
 runoff 383
 salinity 50 71 113 383
 San Francisco 71
 Sea 153 309
 seasons 50 71 293 309
 sediments 417
 seston 470
 sewage 417
 silica 113 293
 silicate 50
 Sound 125
 St. Lawrence 50
 succession 460
 sulfate 293
 suspended solids 113 417
 temperature 50 71 113 128 153
 tides 155
 Tokyo 470
 urea 50
 Vancouver 460
 wastes 309
 water column 417
 zooplankton 153
diurnal
 alkaline phosphatase 482
 ammonia 62
 ammonium 129 482

biomass 62
 C/N 62 482
 California 62 129
 carbon 482
 carbon/chlorophyll 62
 chlorophyll 482
 cycles 129
 DO 93
 Estuary 93
 Ks 62 482
 Maryland 93
 nitrate 129 482
 nitrogen 62 129 482
 nutrients 62
 N15 62 129
Olisthodiscus luteus 482
 Patuxent 93
 phosphorus 482
 phytoplankton 62 129
 primary 62 93 129
 productivity 62 93 129
 respiration 93
 sewage 62 93 129
 uptake rates 129 482
 urea 62 129
 Vm 62
diversity
 abundance 32 120 167 389 472
 algae 120
 algae bluegreen 533
 analysis of variance 395
Anchoa mitchilli 32
 annelids 167
 bacteria 246
 Bay 32 94 300 389
 Bayou 102
 benthic 9 120 389 395 409 447
 bioenhancement 447
 biomass 32 167 409 447 533
 bloom 533
 California 155 447
 cannery 447
 chemical 102
 chlorophyll 102 155 300
 Chocolate 102
 Chowan 533
 coliforms 94
 community structure 88
 density 246
 diatoms 197
distribution 155
 DO 102 389 447
 economics 94
 Estuary 167 389 533
 fauna 167 389
 Firth of Forth 395
 fish 17 32 88 447
 fisheries 94
 flushing 155
 Galveston 32
 gastrotrichs 167
 Great Britian 120 167 197
 Gulf 155
 Harbor 447
 Hawaii 94
 heterotrophic 246
 Hobsons 389
 indicator species 32 197 472
 indices 32 102 197 395
 intertidal 17 395
 invertebrates 17
 Kaneohe 94
 Lagoon 9 155
 Lebanon 472
 long term 120
 Los Angeles 447
 macrofauna 9 17 395 409
 metabolism 88
 microbes 167 533
 microcosms 364
 molluscs 9
 nanoplankton 300
 nematodes 167
 New Jersey 300
 Newark 300
 nitrogen 94
 North Carolina 533
 nutrients 88 364 472
 oligochaetes 167
 organisms 447
 phosphorus 94 533
 phytoplankton 155 300 472 533
 plankton 364 447
 polychaetes 167
 primary 155
 productivity 102 155 364 447
 Puget 17
 pulp mill 409
 recreation 94
 reproduction 120

- respiration 102
- salinity 389
- seasons 102 120 300 395
- sediments 17 246
- self purification 246
- sewage 17 94 167 197 447 472
- Shannons Index 9
- Sound 17
- stress 88
- succession 409
- Taylor 102
- Tees 167
- Texas 32 88 102
- Theora fragilis* 389
- tides 155
- toxicity 32
- uptake rates 533
- Washington 17
- wastes 32 102 120 447
- Yarra 389
- zooplankton 88 102

- DNA
 - alkaline phosphatase 470
 - Bay 470
 - chlorophyll 470
 - distribution 470
 - enzymes 470
 - indices 470
 - microbes 470
 - phosphorus 470
 - protein 470
 - seston 470
 - Tokyo 470

- Dniester
 - agriculture 384
 - canal 384
 - Estuary 384
 - fauna 384
 - industry 384
 - sewage 384
 - wastes 384
 - zooplankton 384

- DO
 - abundance 389
 - Alaska 319
 - algae 72 81 216
 - algae bluegreen 335
 - alkalinity 47 67 184 380
 - ammonia 29 67 184 311 314 387 407 477 518
 - ammonium 394
 - animals 202 518
 - Apalachee 278
 - arctic 319
 - Australia 154
 - Baltic 335
 - Bay 8 67 71 72 184 226 278 323 353 380 387 389 401 495
 - Bayou 102 251 313 314 315 317
 - Belgium 376
 - Bengal 323
 - benthic 72 106 137 319 335 389 447 542
 - benthic oxygen demand 80 221 542
 - bibliography 213
 - bioenhancement 447
 - biomass 154 304 332 447 519
 - black necrosis 2
 - bloom 80 251 317 376 519
 - BOD 1 36 71 99 212 221 283 284 290 311 342 353 477 495 519 541
 - Bothnia 137
 - Broadkill 101
 - Burry Inlet 2
 - California 8 441 447 477
 - cannery 447
 - carbon 220 221 342 387 394 495 542
 - carbon oxygen demand 80
 - CBOD 407 408
 - chemical 102
 - Chesapeake 67 72 184 380 495
 - chlorinated hydrocarbons 137
 - chlorine 184
 - chlorophyll 47 67 80 101 102 154 174 184 220 407 495 519
 - Chocolate 102
 - Clyde 284
 - coliforms 1 221 290 353 380 407 542
 - community structure 174
 - Cook 319
 - CO₂ 105 220
 - Craiglin 171
 - Crangon crangon* 2
 - cycles 241 342 464 477
 - Damariscotta 106
 - DC 1 283 380
 - Delaware 101 342 477
 - Delta 477

density 323
 deoxygenation 542
 deposition 376
 detergent 2 148 270 335
 diatoms 376
 Dickinson 251
 DIN 477
 dispersion coefficient 283
 dissolved solids 137 313
 distribution 71
 diurnal 93
 diversity 102 389 447
 DOC 311
 DOD 283
 DON 311
 dredging 148
 Duwamish 519
 dye 1
 energy transfer 72 335
 Estuary 1 29 47 67 80 81 93 99
 101 106 148 154 174 202 212 216
 220 221 222 283 284 304 342 376
 380 389 407 408 477 495 518 519
 Etang de Berre 307
 eutrophication 213
 fauna 389
 fertilizer 171 202 464
 fish 106 171 202 278 317 335 447
 542
 fish kills 251 401
 Florida 278 314 317
 flounder 171
 flux 315 342 387
 foraminifera 72
 freshwater 222 284 519
 Galveston 401
 gas bubbles 401
 glucose 313
 Grays 369
 Great Britain 2
 growth rates 106 171
 Gulf 137
Gymnodinium 317
 Harbor 369 447
 heat 542
 Hobsons 389
 Humboldt 8
 hydrology 71 97 137 154 174 212
 226 241 284 376 441
 H3 154
 ice 542
 indicator species 335
 indices 102 220
 industry 202 284 380 464
 Inlet 319
 inorganic 101 407
 instruments 272
 interface salt fresh 311 376
 invertebrates 106
 iron 137
 Jamaica 353
 James 47 380 495
 kinetics 313
 laboratory culture 106
 Lagoon 105
 land development 216
 larvae 106
 light 36 174 542
 Little River 154
 Loch 171
 Los Angeles 447
 Louisiana 126
 macroalgae 335
 macrofauna 72 137
 macroinvertebrates 314
 macrophytes 72
 Maine 106
 marshes 126
 Maryland 93 304 380
 methods 213 272 542
 Michaelis-Menton 71
 microbes 2 72 216 220 313 319
 332 541
 microcosms 194 387
 microflagellates 174
 mining 202 464
 mixing depth 541
 model 1 29 71 80 97 99 105 212
 283 335 342 353 407 408 477 542
 mucus 401
 Murderkill 101
 N/P 226
 NaCl 36
 nanoplankton 174
 Narragansett 387
 NBOD 408
 New Jersey 226
 New York 353
 nitrate 67 126 226 314 380 394
 407

nitrite 67 290 311 407 477
 nitrogen 29 67 80 101 194 202
 242 319 342 353 387 407 477 541
 nitrogen oxygen demand 80
 nonpoint sources 541
 North Carolina 202
 NO₂ 47
 NO₃ 47
 nutrients 1 71 72 80 101 137 216
 220 221 222 226 241 270 304 307
 313 323 342 376 380 387 394 441
 495 518 542
 O/P 307
 oil 137
 one dimensional 407 408
 organic 407 541
 organic matter 148 290 394
 organisms 319 335 447 542
 orthophosphate 117 184
 oxidation 477
 P/N 441
 Pagan 407 408
 Pamlico 202
 Patuxent 93 304 380 495
 PC 270
 Penobscot 106
 pesticides 137 220 380
 pH 2 8 47 67 71 101 105 184 290
 311 315 319 332 380
 phosphate 67 184 202 226 313 314
 315 380 394 518
 phosphorus 47 80 101 137 154 194
 241 242 251 304 319 342 353 387
 407 464 541
 phytoplankton 1 47 67 71 72 80
 137 154 174 194 202 221 251 304
 314 317 342 394 407 441 477 519
 542
 plankton 202 226 270 319 447
 PN 47 270
 point sources 541
 poly B hydroxybutyrate 332
 pond experiment 8
 Potomac 1 67 80 81 99 216 220
 221 222 283 342 380 477 495
 predictions 284 541
 primary 80 93 137 154 174 202
 304 335 441 542
 processes 184 315
 productivity 67 80 93 102 137
 154 174 194 202 304 313 335 441
 447 542
 profiles 541
 Puget 117
 pulp mill 278
 P32 154
 Rappahannock 380 495
 Raritan 226
 rate constants 542
 reaeration 80 542
 real time 212 407 408
 redox potential 126 313 315
 resources 216 222
 respiration 80 93 102 441
 Rhode Island 387
 runoff 216 464 541
 Sacramento San Joquin 477
 salinity 2 47 67 71 101 106 154
 174 184 202 212 226 241 270 290
 311 315 319 332 353 389 407 408
 441 541
 salmonids 8 401
 salts 36
 San Francisco 71
 saturation 401
 Scheldt 376
 Sea 335
 seasons 71 102 226 290 441
 secchi disc 441
 sediment water 242 313 315 387
 sediments 36 106 126 137 242 304
 332 376 380 387 541
 self purification 376
 seston 270
 settlement 106
 sewage 8 72 93 105 148 202 251
 284 319 335 369 380 447 464
 sexual maturity 171
 Sheepscot 106
 shellfish 290
 silica 319
 soil erosion 541
 Sound 117
 Southampton 394
 spatial distribution 542
 stabilization 105
 stochastic 99 477
 stratification 307
 sulfate 184
 sulfide 184

surface waters 541
 suspended solids 36 376
 Susquehanna 380 495
 symposium 137 335
 Taylor 102
 temperature 2 36 47 67 71 105
 106 154 174 184 202 226 270 284
 290 315 369 394 441 519 541
 temporal distribution 542
 Texar 314 315 317
 Texas 102 401
 Thames 29 148
Theora fragilis 389
 thermal 213 304 541
 tidal average 212
 tides 1 81 101 518 519
 TOC 220 314
 toxicity 317
 trace metals 2 72 137 184 213
 216 242 311 376 380 387 394
 transport 376
 turbidity 36 67 541
 turnover rates 394
 two dimensional 353
 upwelling 369
 vertical distribution 184
 Virginia 212 380 518
 viruses 216 •
 Washington 369
 wastes 81 102 105 117 137 216
 220 221 222 284 317 342 380 447
 464
 water quality 97
 watersheds 380
 wetlands 101
 Yarra 389
 York 174 212 380 495 518
 zooplankton 67 72 102 137 154
 194 314 335 342 394 477 542

Doboy
 clay 385
 flux 385
 Georgia 385
 inorganic 385
 microbes 385
 phosphate 385
 P32 385
 sediment water 385
 Sound 385

aerobic 58 172
 ammonia 311 473
 ammonium 172
 anaerobic 58 172
 assay 58
 ATP 172
 Bay 473
 Bight 172
 BOD 311
 C/N 150
 calorific content 172
 carbon 473
 carbonate ion 308
 Chesapeake 473
 chlorophyll 473
 Connecticut 58
 Copps Brook 58
 decomposition 172
 degradation 58
 deoxygenation 104
 DIC 172 473
 DO 311
 DON 150 311
 Estuary 104
 Georgia 150
 inorganic 416
 interface salt fresh 311
 interstitial 58
 manganese 416
 metabolism 58
 microbes 58
 model 58
 molluscs 308
 New York 172
 nitrate 172 473
 nitrite 172 311 473
 nutrients 58 104 416 473
 organic matter 58
 Pamlico 104
 PC 172
 pH 308 311
 phaeophytin 473
 phosphorus 473
 phytoplankton 416
 PN 172
 POC 58 104
 primary 104 416 473
 productivity 104 416 473
 respiration 104
 runoff 150

DOC

- salinity 308 311
 Savannah 150
 sediments 58
 sewage 172 416
 Sound 150
 TDC 473
 tetrazolium salt 58
 TOC 104
 trace metals 311
 watersheds 58
- DOD
- BOD 283
 - DC 283
 - dispersion coefficient 283
 - DO 283
 - Estuary 283
 - model 283
 - Potomac 283
- DOM
- Long Island 404
 - microbes 404
 - organic aggregates 404
 - phytoplankton 404
 - POM 404
 - seasons 404
 - Sound 404
 - zooplankton 404
- DON
- Albemarle 450
 - ammonia 176 177 311 450 466
 - Bay 466
 - biomass 201 466
 - bloom 201 450
 - BOD 311
 - C/N 150 450
 - Chowan 450
 - DIN 450
 - DO 311
 - DOC 150 311
 - DPO 466
 - Estuary 201 450
 - excretion rates 466
 - Georgia 150 176 177
 - Hawaii 466
 - hydrology 201
 - inorganic 201
 - interface salt fresh 311
 - Kaneohe 466
 - marshes 177
 - metabolism 466
- DOP
- Bay 469
 - Chesapeake 469
 - Ks 469
 - orthophosphate 469
 - phytoplankton 469
 - polyphosphate 469
 - P32 469
 - turnover rates 469
 - Vm 469
- DPO
- ammonia 466
 - Bay 466
 - biomass 466
 - DON 466
 - excretion rates 466
 - Hawaii 466
 - Kaneohe 466
 - metabolism 466
 - phosphate 466
 - size dependent 466
 - zooplankton 466
- dredging

- agencies 14
 agrochemicals 455
 alkalinity 455
 Bay 318 455
 bibliography 4
 boat traffic 455
 British Columbia 512
 canal 512
 Chesapeake 318 455
 chlorine 455
 detergent 148
 disease 455
 disposal 531
 DO 148
 dye 318
 economics 4 498
 epiphytes 455
 Estuary 148
 eutrophication 4
 fauna 455
 fisheries 96 498
 flood control 96
 Florida 14
 flushing 512
 industry 498
 land development 96
 larvae 107
 local 14
 Louisiana 96
 management 96 498
 nutrients 96 455 498 512
 oil 4 318 455
 organic matter 148
 pesticides 4
 pH 455
 phytoplankton 96
 pollution 4
 power plant 498
 public opinion 498
 radioactivity 4
 recreation 96
 remote sensing 318
 resources 498
 runoff 96
 salinity 455 512
 sewage 14 96 148 318
 soil erosion 96
 specie key 455
 state 14
 submerged vegetation 455
- symposium** 498
temperature 455 512
Thames 148
thermal 4
tides 512
toxicity 107
trace metals 4 455
turbidity 455
wastes 512
water velocity 455
wetlands 14 96 531
zooplankton 107
- DRP**
- Bay 199
 DIN 199
 Great Britian 199
 Liverpool 199
 long term 199
 nitrogen 199
 phosphorus 199
 seasons 199
- dry weight**
- methods 489
 suspended solids 489
- Dunaliella**
- algae 496
 assay 496
 nutrients 496
- Duwamish**
- ammonia 481 520
 biomass 519
 bloom 519 520 521
 BOD 519
 chlorophyll 481 519
 DO 519
 Estuary 480 481 519 520 521
 freshwater 519
 hydrology 520 521
 indicator species 481
 light 521
 nitrate 481
 nitrite 481
 nutrients 480 521
 Periphyton 481 521
 phosphate 481 520
 phytoplankton 519 520 521
 primary 481
 productivity 481
 salt wedge 480
 seasons 521

sewage 520
 temperature 519
 tides 519
 Washington 480 481 520
 wastes 481
dye
 Anacostia 78
 Bay 318
 BOD 1
 Chesapeake 318
 coliforms 1
 DC 1
 density 530
 dispersion 530
 DO 1
 dredging 318
 Estuary 1 78 530
 FWQA Dynamic 78
 hydrology 530
 longitudinal 530
 Maryland 68
 mixing 530
 model 1 78 530
 nutrients 1
 oil 318
 outfall diffuser 68
 phytoplankton 1
 point sources 530
 Potomac 1 78
 predictions 78
 remote sensing 318
 salinity 68
 sewage 68 318
 temperature 68
 Thomann 78
 tides 1 78
 vertical shear 530
 York 530
dynamic programming algorithm
 Lagrangian multipliers 240
 management 240
 model 240
east coast
 fisheries 77
 juveniles 77
 salinity 77
 temperature 77
 zooplankton 77
ecocline
 benthic 371

community structure 371
 gradient 371
 indicator species 371
 indices 371
 organic enrichment 371
 recovery 371
 sediments 371
 succession 371
Econfina
 benthic 540
 Estuary 540
 macrophytes 540
 Tenholloway 540
economics
 artificial recharge 138
 Bay 94
 benthic 508
 bibliography 4
 buoys 37
 California 37
 canal 138
 ceramic panel substrates 37
 chlorinated hydrocarbons 37 491
 coliforms 94
 Delaware 134
 dispersion 37
 dissolved solids 138
 diversity 94
 dredging 4 498
 Estuary 134 138 217
 eutrophication 4
 fisheries 94 494 498
 Great Britian 85
 Hawaii 94
 hydrology 491
 industry 134 498 508
 Kaneohe 94
 management 85 217 491 494 498
 508
 Mediterranean 491
 methods 37
 microbes 491
 nitrification 138
 nitrogen 94
 nutrients 217 491 494 498
 Obelia dichotoma 37
 oil 4 491
 organisms 508
 ozonization 138
 pesticides 4 508

phosphorus 94
 plants 508
 pollution 4
 Potomac 217
 power plant 498
 productivity 37
 public opinion 498 508
 radioactivity 4 491
 recreation 94 508
 recycle 138
 resources 491 494 498
 runoff 134
 Sea 491
 sediments 491
 sewage 37 94 134 138
 storm loading 134
 symposium 494 498
 tertiary 508
 Thames 138
 thermal 4
 trace metals 4 37 491
 wastes 134 508
 water supply 138
ecosystem
 bibliography 84
 land development 84
 Puget 84
 Sound 84
 Washington 84
eggs
 Cancer 139
 crabs 139
 epibiotic fouling 139
 microbes 139
 nutrients 139
electron transfer
 decomposition 299
 energy transfer 299
 growth rates 299
 microbes 299
 organic matter 299
 redox potential 299
 steady state 299
 substrates 299
Elizabeth
 Estuary 327
 Harbor 327
 industry 327
 James 327
 Little Creek 327
 Lynnhaven 327
 management 327
 model 327
 Nansemond 327
 nonpoint sources 327
 Pagan 327
 Poquoson 327
 predictions 327
 sewage 327
 wastes 327
 York 327
energetics
 Bay 365
 chlorophyll 365
Massartia rotundata 365
 plankton 365
 productivity 365
 Raritan 365
 respiration 365
energy transfer
 algae 72
 algae bluegreen 335
 Baltic 335
 Bay 72 141 231 354
 benthic 72 335
 biomass 231
 BOD 348
 California 276
 carbon 192 195 362
 Chesapeake 72 141
 Copepoda 195
 crabs 231
 crustaceans 195
 ctenophores 362
 decomposition 299
 detergent 335
 detritus 75 192 195
 DO 72 335
 electron transfer 299
 Estuary 141 192 195
Eurytemora affinis 195
 fauna 276
 fish 231 335 534
 flux 362
 foraminifera 72
 freshwater 231
 Galveston 231
 growth rates 299 534
 heat 141
 hydrology 141 354

- indicator species 335
- industry 348
- intertidal 276
- macroalgae 335
- macrofauna 72
- macrophytes 72 276
- management 231
- marshes 75 192
- Maryland 192 195
- metabolism 276 534
- microbes 72 75 141 195 299
- microcosms 362
- model 75 231 335 348 354
- nitrogen 362
- nutrients 72 75 141 192 362
- organic 141
- organic matter 299
- organisms 335
- Patuxent 141 192 195
- pesticides 348
- phytoplankton 72 141
- plants 141
- power plant 141
- primary 141 192 195 276 335 362
- processes 354
- productivity 141 192 195 231 276
335 362 534
- redox potential 299
- salinity 231
- San Francisco 354
- Scotlana canadensis* 195
- Sea 335
- seasons 276
- secondary 231 348
- sewage 72 276 335 348
- shrimp 231
- Spartina 75
- steady state 299
- stress 534
- substrates 299
- symposium 335
- Texas 231
- thermal 141
- trace metals 72 348
- transport 354
- wastes 348
- wetlands 192 195
- zooplankton 72 335
- England
- annelids 370
- benthic 370
- crustaceans 370
- indicator species 370
- Linnhe Eil 370
- Loch 370
- molluscs 370
- pulp mill 370
- succession 370
- Enteromorpha**
- algae 497
- assay 497
- Clyde 375
- Codium 497
- Estuary 375
- fauna 375
- fisheries 375
- molluscs 375
- nutrients 375 497
- sand 375
- Scotland 375
- sediments 375
- sewage 375
- worms 375
- enterovirus**
- coliphage 505
- copper 505
- secondary 439
- sediments 439
- sewage 439 505
- shellfish 505
- enzymes**
- alkaline phosphatase 470
- ammonia 165
- Bay 470
- chlorophyll 470
- distribution 470
- DNA 470
- indices 470
- methods 165
- microbes 470
- percolator 165
- phosphorus 470
- protein 470
- sediments 165
- seston 470
- sulfate 165
- Tokyo 470
- urea 165
- epibiotic fouling**
- Cancer 139

crabs 139
 eggs 139
 microbes 139
 nutrients 139
epiphytes
 agrochemicals 455
 alkalinity 455
 Bay 455
 boat traffic 455
 Chesapeake 455
 chlorine 455
 disease 455
 dredging 455
 fauna 455
 nutrients 455
 oil 455
 pH 455
 salinity 455
 specie key 455
 submerged vegetation 455
 temperature 455
 trace metals 455
 turbidity 455
 water velocity 455
Estuary
 abundance 167 389
Acartia 227
 aerobic 183
Agnes 415
 agriculture 218 384
Aisne 35
Alaska 7
Albemarle 450
 algae 81 87 89 119 133 216 430
 443
 algae bluegreen 66 215 218 533
 algae mats 33 130 357
 alkalinity 47 67 380
 ammonia 29 50 67 203 204 289 407
 430 450 477 481 518 520
 ammonium 31 186 467
Anacostia 78
 animals 89 186 202 518
 annelids 167
 artificial recharge 138
 ATP 135 193 434
Australia 154
 bacteria attached 164
 bacteria free 164
Balanus 227
barnacles 507
 Bay 67 79 133 141 173 227 380
 389 402 415 419 423 467 495 510
 Bayou 181
 Belgium 376 535
 benthic 33 87 106 119 352 389
 539 540
 benthic oxygen demand 33 80 221
 bibliography 30 124
 biomass 66 133 154 167 201 203
 304 336 434 519 533
 bioturbation 539
 birds 443
 bloom 80 201 204 227 376 450 519
 520 521 533
 BOD 1 99 109 212 221 283 284 342
 477 495 519 523 539
 Broad River 292
 Broadkill 101
 Bush 373
 Byfjorden 352
 C/N 450
 California 477
 canal 138 384
 carbohydrates 193
 carbon 27 35 135 181 192 193 195
 220 221 342 377 449 495
 carbon oxygen demand 80
 carbon/chlorophyll 434
 CBOD 407 408
 chemical 109
 Chesapeake 67 79 133 141 173 380
 415 419 467 495 510
 Chickahominy 173
 chlorophyll 47 67 79 80 101 154
 174 193 215 220 289 350 391 403
 407 415 423 481 495 519
 Chlorophyta 31 430
 Chowan 450 533
 clay 535
 Clyde 284 375 443
 Cochin 391
 COD 289
 coliforms 1 183 221 380 407
 Columbia 175 357
 Colville 7
 community structure 89 174
 Copepoda 195
 CO₂ 220
 crude fiber 193

- crustaceans 195 352
 Cyanophyta 430
 cycles 183 185 186 342 477
 C14 391
 Damariscotta 106
 DC 1 283 380
 Delaware 101 109 134 342 411 477
 523 539
 Delta 477
 density 530
 deoxygenation 104
 deposition 328 376
 detergent 148
 deterministic 419
 detritus 192 195 292 328
 diatoms 376 535
 diffusion 419 467
 dilution 510
 DIN 450 477
 dispersion 530
 dispersion coefficient 170 283
 dissolved 131 535
 dissolved solids 138
 distribution 50 309 377 449
 diurnal 93
 diversity 167 389 533
 Dniester 384
 DO 1 29 47 67 80 81 93 99 101
 106 148 154 174 202 212 216 220
 221 222 283 284 304 342 376 380
 389 407 408 477 495 518 519
 DOC 104
 DOD 283
 DON 201 450
 dredging 148
 Duwamish 480 481 519 520 521
 dye 1 78 530
 Econfina 540
 economics 134 138 217
 Elizabeth 327
 energy transfer 141 192 195
 Enteromorpha 375
 Eurytemora 175 227
 Eurytemora affinis 195
 eutrophication 124
 factorial productivity 367
 fatty acids 423
 fauna 87 167 375 384 389 539
 feeding grounds 443
 fertilizer 202 204 292
 fish 106 202
 fisheries 7 124 375 411
 Florida 181 292 402
 flushing 218
 flux 342
 France 35
 freshwater 204 219 222 284 402
 519
 FWQA Dynamic 78
 gastrotrichs 167
 glucose 164
 Gothenburg 352
 Great Britain 119 167
 Grevelingen 336
 growth rates 106
 Harbor 327
 heat 89 141
 history 158
 Hobsons 389
 Hudson 31 209 218
 Humber 164
 Hurricane 415
 hydrology 7 87 90 124 141 154
 174 183 201 212 284 376 510 520
 521 530
 H3 154
 indicator species 352 357 481
 indices 220 350
 industry 109 119 134 202 284 327
 380 384
 inorganic 27 101 131 181 186 201
 203 407 506
 interface salt fresh 376
 intertidal 309 443
 invertebrates 106 443
 Ireland 130
 Irish 309
 iron 492 493
 isopleths 223
 isotope 449
 James 27 30 47 173 327 380 495
 Kungsbackafjorden 352
 laboratory culture 106
 Laita 98
 land development 209 216
 larvae 106
 latitudinal gradients 227
 leaves 292
 light 31 174 175 336 521
 Limnodrilus 539

- linear regression 173 175
 Little Creek 327
 Little River 154
 longitudinal 530
 Louisiana 402
 Lynnhaven 327
 macrofauna 309 352
 macrophytes 103 540
 Maine 106
 management 53 109 183 209 215
 217 327 402 411
 mangroves 292
 marshes 158 192 193 507
 Maryland 93 192 193 195 304 350
 380 430
 Massachusetts 82
 meiofauna 352
 Mersey 309
 methods 35 135 249 350 426 493
 Michaelis-Menten 415
 microbes 27 133 135 141 167 183
 195 203 216 220 328 423 533
 microflagellates 174
 microplankton 403
 mineralization 164
 mining 66 87 90 201 202 203
 Mississippi 131
 mixing 530
 model 1 27 29 33 78 80 98 99 109
 170 183 212 223 255 283 327 341
 342 407 408 411 415 419 467 477
 478 507 510 523 530
 molluscs 375
 mud flats 130
 municipal 109
 Murderkill 101
 mussels 507
 nanoplankton 174 403
 Nansemond 327
 Narragansett 227 423
 NBOD 408
 nematodes 167
 Netherlands 336
 Neuse 204
 New Jersey 227 426
 New York 426
 Newport 135
 nitrate 27 31 50 67 82 143 175
 186 201 203 204 218 219 380 407
 467 481
 nitrification 138
 nitrite 27 50 67 186 219 407 477
 481
 nitrogen 29 35 50 66 67 79 80 87
 101 181 183 185 186 193 201 202.
 342 377 407 415 477 478 506
 nitrogen oxygen demand 80
 nonpoint sources 223 327 523
 North 411
 North Carolina 89 90 135 185 186
 202 203 204 402 450 492 493 533
 North Inlet 507
 NO₂ 47
 NO₃ 47
 nutrients 1 7 50 79 80 82 89 101
 104 130 141 143 173 186 192 203
 214 215 216 217 218 220 221 222
 223 227 249 289 304 336 341 342
 375 376 380 391 402 478 480 495
 518 521
 oil 423
 oligochaetes 167 539
 one dimensional 255 407 408 419
 Oregon 33 170 175
 organic 27 50 130 135 141 186
 309 407 506 539
 organic matter 148 164 227 474
 Orinoco 131
 orthophosphate 133
 oxidation 477
 oxidation rates 35
 oxygen 377
 oysters 507
 ozonization 138
 Pagan 327 407 408
 Palm 402
 Pamlico 66 87 90 103 104 185 186
 201 202 203 492 493
 Parramatta 403
 Patuxent 93 141 173 192 193 195
 304 350 380 495
 Pb210 158
 Penobscot 106
 Periphyton 481 521
 pesticides 220 292 380
 pH 47 67 101 380
 phosphate 27 50 67 82 143 175
 181 202 203 218 219 380 430 481
 492 518 520
 phosphorus 47 66 79 80 87 90 101

154 181 193 201 204 223 289 304
 342 407 415 478 493 533
 phytoplankton 1 27 31 47 66 67
 79 80 82 87 90 141 154 174 175
 201 202 203 204 221 227 304 341
 342 367 407 411 415 434 450 477
 478 506 507 519 520 521 533
 Pines 82
 plankton 202
 plants 141 186
 plumes 131
 plutonium 158
 PN 47
 POC 104
 point sources 218 530
 polychaetes 167
 pond experiment 89
 pool experiment 66
 populations mixed 367
 populations single 367
 Poquoson 327
 Portugal 474
 Potomac 1 53 67 78 80 81 99 173
 183 214 215 216 217 218 219 220
 221 222 223 255 283 289 341 342
 377 380 419 430 449 467 477 478
 495
 power plant 141
 predictions 27 78 183 284 327
 373
 primary 7 80 93 104 124 141 154
 174 181 185 192 195 202 304 336
 367 391 403 450 481 507
 processes 27 183 185 223 328 506
 507
 productivity 7 67 80 89 93 104
 124 141 154 174 181 185 192 195
 202 304 336 367 391 403 450 481
 507
 profiles 214
 Providence 423
 pulp mill 98
 P32 154
 quasi linear 415
 radioactivity 402
 Rangia 90
 Rappahannock 173 328 380 495
 Raritan 227 426
 reaeration 80
 real time 183 212 407 408
 records 158
 recreation 82
 recycle 138
 redox potential 328
 remote sensing 350
 resources 7 209 216 222
 respiration 80 89 93 104
 Rhode 133
 Rhode Island 227
 Rogerstown 130
 runoff 134 143 216 223 402
 Sacramento 341
 Sacramento San Joquin 477
 Sado 474
 salinity 33 47 50 67 90 101 106
 154 174 202 204 212 227 328 389
 407 408 492
 salmonids 98
 salt wedge 480
 Saltkallefjord 352
 salts 143
 sampling frequency 249
 sand 375
 Santee 402
 Savannah 131 158
 Scheldt 376 535
 Schofield 27
 Scotland 375
 Scottiana canadensis 195
 Sea 309 411
 seasons 50 89 103 135 173 175
 186 227 309 391 450 506 521
 secondary 430
 sediment water 181
 sediments 33 90 106 135 158 186
 201 219 289 304 328 375 376 380
 492 493 535 539
 Seine 35
 self purification 376
 settlement 106
 Severn 510
 sewage 27 82 89 93 119 134 138
 148 167 202 204 215 218 219 284
 327 375 380 384 423 430 510 520
 Shark 292
 Sheepscot 106
 silica 131 175 535
 silicate 50
 Skeletonema 31 367
 slack water 170

- Sound 450
 South Carolina 402
 South Creek 89
 spatial distribution 219 223 426
 specie key 357
 Squamish 249
 St Lawrence 50 124 434
 stochastic 27 99 255 477
 storm loading 134 523
Suagus 82
 succession 201 367 411
 sulfide 33
 suspended solids 124 131 164 350
 376 423 492
 Susquehanna 79 173 380 415 495
 swamps 402
 Sweden 352
 symposium 341
 Tagus 474
 Tar 201
 Taunton 423
 Tees 119 167
 temperature 27 35 47 50 67 89
 106 154 174 202 284 391 474 519
 temporal distribution 219 223
 426
 Tenholloway 540
 Texar 181
 Thames 29 138 143 148
Theora fragilis 389
 thermal 141 304
 Thomann 78
 tidal average 212
 tides 1 33 78 81 101 183 507 518
 519
 time dependent 255
 TKN 219
 TOC 104 220
 trace metals 124 216 292 376 380
 426
 Transient Water Quality Network
 183
 transport 223 376
 turbidity 67
 Tyne 119
Ulva 82
 United Kingdom 143
 uptake rates 31 90 131 133 533
 urea 50 186
 Vellar 506
 vertical shear 530
 Virginia 27 212 227 380 518
 viruses 216
 Washington 480 481 520
 wastes 66 81 90 109 119 130 134
 143 204 216 218 220 221 222 223
 227 284 309 327 342 380 384 415
 481 539
 water column 507
 water supply 138
 water velocity 336
 watersheds 173 219 380
 Wear 119
 weight 289
 wetlands 101 192 195 402
 worms 375
Yaquina 33 170
Yarra 389
 yeast 474
 York 173 174 212 227 327 367 380
 495 518 530
 zooplankton 67 87 154 175 227
 341 342 352 384 391 477
Zostera marina 336
 Etang de Berre
 biomass 306
 bloom 306
 DO 307
 France 306
 hydrology 306
 nutrients 306 307
 O/P 307
 organic matter 306
 plankton 306
 stratification 307
 euglenoid
Aquaforte 145
 Canada 145
 Harbor 145
 indicator species 145
 nanoplankton 145
 phytoplankton 145
 secchi disc 145
 sewage 145
 St Johns 145
Euphaussid furcilia
 bloom 363
Calanus pacificus 363
Chaetoceros 363
 feeding rates 363

nanoplankton 363
 phytoplankton 363
 productivity 363
Pseudocalanus minutus 363
 zooplankton 363
Eurytemora
Acartia 227
Balanus 227
 Bay 227
 bloom 227
Columbia 175
 Estuary 175 227
 latitudinal gradients 227
 light 175
 linear regression 175
Narragansett 227
 New Jersey 227
 nitrate 175
 nutrients 227
 Oregon 175
 organic matter 227
 phosphate 175
 phytoplankton 175 227
 Raritan 227
 Rhode Island 227
 salinity 227
 seasons 175 227
 silica 175
Virginia 227
 wastes 227
 York 227
 zooplankton 175 227
Eurytemora affinis
 carbon 195
Copepoda 195
 crustaceans 195
detritus 195
 energy transfer 195
 Estuary 195
Maryland 195
 microbes 195
Patuxent 195
 primary 195
 productivity 195
Scotlana canadensis 195
 wetlands 195
eutrophic
 ammonia 157
 chemical 20
 denitrification 157
 Harbor 20
 hydrology 20
 macrophytes 157
 microbes 20
 model 157
 nitrate 157
 nitrification 157
 nitrogen 157
 organic 157
 organic matter 157
 phytoplankton 157
 plankton 20
 processes 157
 uptake rates 157
 wastes 20
 zooplankton 157
eutrophication
 Bay 73 345 346
 bibliography 4 15 51 55 56 57 73
 124 211 213 250 263 264 265 266
 267 268 325 344 345 346 435 457
 532
Chesapeake 73 345 346
 definition 151
 directory 73
 DO 213
 dredging 4
 economics 4
 Estuary 124
 fisheries 124
 hydrology 124 250 263 264 265
 266 267 268
 industry 211 457
 land development 56 57
 management 73 325 435
 methods 213 435
 model 250 263 264 265 266 267
 268 345 346
 oil 4 211 344
 pesticides 4 344 435
 pollution 4
 primary 124
 productivity 124
 radioactivity 4 345 346
 remote sensing 211
 resources 56 57 211 345 346
 sewage 15
St Lawrence 124
 suspended solids 124
 thermal 4 211 213 250 263 264

- 265 266 267 268 344 435
- trace metals 4 124 213 435
- United Kingdom 15 51
- Evadne**
 - Cladocera 310
 - Greece 310
 - Gulf 310
 - indicator species 310
 - Saronic 310
 - seasons 310
 - sewage 310
 - temperature 310
- Evadne tergestina**
 - Bay 147
 - Cladocera 147
 - Malagasy Republic 147
 - Nosy Be 147
 - Penilia avirostris 147
 - phytoplankton 147
 - rainfall 147
 - seasons 147
 - tropical 147
 - zooplankton 147
- exchange diffusion**
 - ammonia 123
 - methods 123
 - nitrate 123
 - phosphate 123
 - secondary 123
 - wastes 123
- excretion rates**
 - ammonia 466
 - Bay 466
 - biomass 466
 - DON 466
 - DPO 466
 - Hawaii 466
 - Kaneohe 466
 - metabolism 466
 - phosphate 466
 - size dependent 466
 - zooplankton 466
- factorial productivity**
 - Estuary 367
 - phytoplankton 367
 - populations mixed 367
 - populations single 367
 - primary 367
 - productivity 367
 - Skeletonema 367
- succession** 367
- York** 367
- fatty acids**
 - ash 382
 - Bay 423
 - bloom 382
 - carbon 382
 - chlorophyll 382 423
 - C14 382
 - Estuary 423
 - microbes 423
 - Narragansett 423
 - nitrate 382
 - Nova Scotia 382
 - oil 423
 - phosphorus 382
 - phytoplankton 382
 - primary 382
 - productivity 382
 - Providence 423
 - respiration 382
 - sewage 423
 - silica 382
 - suspended solids 423
 - Taunton 423
- fauna**
 - abundance 167 389
 - agencies 18
 - agriculture 384
 - agrochemicals 455
 - algae 87
 - alkalinity 455
 - amino acids 456
 - ammonia 388
 - annelids 167
 - Australia 388
 - bacteria 456
 - bacteria proteolytic 456
 - Bay 18 388 389 455
 - benthic 87 388 389 393 539
 - biomass 167
 - bioturbation 539
 - boat traffic 455
 - BOD 539
 - California 276
 - canal 384
 - carbohydrates 456
 - Chesapeake 18 455
 - chlorine 455
 - Clyde 375

Craiglin 393
 C14 456
 Delaware 539
 density 393
 disease 455
 diversity 167 389
 Dniester 384
 DO 389
 dredging 455
 energy transfer 276
Enteromorpha 375
 epiphytes 455
 Estuary 87 167 375 384 389 539
 fertilizer 393
 fisheries 375
 flora 18
 fungus 456
 gastrotrichs 167
 Great Britain 167
 heterotrophic 456
 Hobsons 389
Hydrobia ulvae 393
 hydrology 87
 indices 456
 industry 384
 intertidal 276
Limnodrilus 539
 Loch 393
 macrophytes 276
 metabolism 276
 methods 18 456
 microbes 167 456
 mining 87
 molluscs 375
 nematodes 167
 nitrogen 87
 nutrients 375 388 455
 oil 455 456
 oligochaetes 167 539
 organic 539
 Pamlico 87
 pH 455
 phosphorus 87
 phytoplankton 87 456
 polychaetes 167
 Port Phillip 388
 primary 276
 processes 456
 productivity 276 393
 pulp mill 456

salinity 388 389 455 456
 sand 375
 Scotland 375
 seasons 276
 sediments 375 388 539
 sewage 167 276 375 384 388 456
 sewage treatment farm 388
 specie key 455
 submerged vegetation 455
 symposium 456
 Tees 167
 temperature 455
Theora fragilis 389
 thermal 456
 trace metals 455 456
 turbidity 455
 wastes 384 539
 water velocity 455
 Werribee 388
 worms 375
 Yarra 389
 zooplankton 87 384

feces
 coliforms 163
 gulls 163
 nitrogen 163
 pathogens 163
 phosphorus 163
 sewage 163

federal
 local 484
 management 484
 state 484

feed forward
 feedback 462
 model 462
 self adaptation 462
 self organization 462

feedback
 feed forward 462
 model 462
 self adaptation 462
 self organization 462

feeding grounds
 algae 443
 birds 443
 Clyde 443
 Estuary 443
 intertidal 443
 invertebrates 443

feeding rates
 bloom 363
 Calanus pacificus 363
 Chaetoceros 363
 Euphaussid furcilia 363
 nanoplankton 363
 phytoplankton 363
 productivity 363
 Pseudocalanus minutus 363
 zooplankton 363
fertilizer
 agriculture 282 517
 ammonia 204 273
 animals 202
 Bay 238 355
 benthic 393
 bloom 204
 bound 3
 Broad River 292
 Chesapeake 355
 Chinhae 238
 Craiglin 171 393
 cycles 464
 density 393
 detritus 292
 disease 238
 dissolved 3
 DO 171 202 464
 Estuary 202 204 292
 fauna 393
 fish 171 202
 flood control 517
 Florida 292
 flounder 171
 freshwater 204
 growth rates 171 355
 Hydrobia ulvae 393
 hydrology 517
 industry 202 361 464 517
 ion exchange 273
 Korea 238
 land development 517
 leaves 292
 Loch 171 393
 mangroves 292
 mining 202 464
 Neuse 204
 nitrate 3 204
 nitrogen 202
 North Carolina 202 204 517
 nutrients 282 355 517
 Pamlico 202
 pesticides 292 517
 phosphate 202 273 361
 phosphorus 3 204 464
 phytoplankton 202 204 361
 plankton 202
 pond experiment 3
 Porphyra 238
 primary 202 238 361
 productivity 202 238 361 393
 P32 3
 recreation 517
 red tide 361
 resources 517
 runoff 464
 salinity 202 204
 seagrass 355
 secondary 273
 sediments 3
 sewage 202 204 273 464
 sexual maturity 171
 Shark 292
 temperature 202
 trace metals 292
 wastes 204 238 282 464
 watersheds 517
Fiji Island
 denitrification 326
 inorganic 326
 mangroves 326
 microbes 326
 nitrogen 326
 secondary 326
 sediments 326
 sewage 326
 tertiary 326
filter feeders
 diatoms 347
 flagellates 347
 Michaelis Menton 347
 model 347
 silica 347
 time constants 347
 zooplankton 347
finite difference
 Bay 41
 Chesapeake 41
 hydrology 41
 model 34 41

one dimensional 34
 two dimensional 41
fiord
 Burrard 460
 distribution 460
 Harbor 460
 Inlet 460
 phytoplankton 460
 primary 460
 productivity 460
 succession 460
 Vancouver 460
Firth of Forth
 analysis of variance 395
 benthic 395
 diversity 395
 indices 395
 intertidal 395
 macrofauna 395
 seasons 395
fish
 abundance 32
 algae 256 339
 algae bluegreen 335
 amino acids 528
 ammonia 44
 Anchoa mitchilli 32
 animals 202
 Apalachee 278
 bacteria 256 339
 Baltic 335
 Bay 32 231 278 392
 Bayou 317
 benthic 106 305 335 356 447 528
 542
 benthic oxygen demand 542
 Bight 121
 bioaccumulation 121
 bioenhancement 447
 biomass 32 231 339 447
 biosorption 543
 birds 256 339
 bloom 317
 calcium 339
 California 447
 cannery 447
 carbon 256 339 542
 Chaetodon miliaris 392
 chemical 516
 coliforms 542
 community structure 88 256
 conference 528
 crabs 231
 Craiglin 171
 crustaceans 256 339
 cycles 528
 Cl4 543
 Damariscotta 106
 deoxygenation 542
 detergent 335
 detritus 528
 disease 305 356
 diversity 17 32 88 447
 DO 106 171 202 278 317 335 447
 542
 energy transfer 231 335 534
 Estuary 106 202
 fertilizer 171 202
 fisheries 528
 Florida 278 317
 flounder 171
 food processing 516
 foraminifera 256 339
 freshwater 231
 Galveston 32 231
 growth rates 106 171 392 534
 Gymnodinium 317
 Harbor 447
 Hawaii 392
 heat 542
 heterotrophic 256 339
 hydrology 515
 ice 542
 indicator species 32 121 335
 indices 32
 industry 202 516
 insects 256 339
 intertidal 17
 invertebrates 17 106 528
 Kaneohe 392
 Kiel 121
 laboratory culture 106
 larvae 106
 light 542
 Loch 171
 Los Angeles 447
 macroalgae 335
 macrofauna 17 356
 Maine 106
 management 231 515 528

marshes 339
 meiofauna 256 339
 metabolism 88 256 534
 methianine 543
 methods 542
 microbes 516 528
 mining 202 513
 Mississippi 356
 model 231 335 515 542
 molluscs 256 339
 mussels 121
 nitrogen 202 256 339 528
 North Carolina 202
 Norway 121
 nutrients 88 515 516 528 542
 oil 121 513 528
 Oregon 516
 organisms 335 447 528 542
 Pamlico 202
 parasites 356
 Penobscot 106
 pesticides 356 513 528
 pH 44
 phosphate 202
 phosphorus 256 339 528
 phytoplankton 202 256 317 339
 515 542
 plankton 202 447
 pond experiment 256 339
 primary 202 335 515 542
 productivity 202 231 256 335 339
 447 515 534 542
 Puget 17 305 515
 pulp mill 278 513
 radioactivity 513 516
 rate constants 542
 reaeration 542
 reproduction 392
 resources 516
 runoff 513
 salinity 44 106 202 231
 Sea 335
 seagrass 528
 secondary 231
 sediments 17 106
 settlement 106
 sewage 17 202 256 305 335 339
 356 392 447 513 516
 sexual maturity 171
 Sheepscot 106
 shrimp 231
 silica 528
 Sound 17 305 515
 spatial distribution 542
Sphaerotilus 516
 stress 88 528 534
 succession 515
 symposium 335
 temperature 44 106 202
 temporal distribution 542
 tertiary 339
 Texar 317
 Texas 32 88 231
 thermal 513 516
 three dimensional 515
 toxicity 32 317
 trace metals 356 516 528
 trophic levels 515
 urea 528 543
 Washington 17 305 515
 wastes 32 317 447 513
 wetlands 528
 zooplankton 88 335 392 528 542
fish kills
 algae bluegreen 254
 Bay 401
 Bayou 251
 bloom 251
Cyanophyta 254
 Dickinson 251
 DO 251 401
 Galveston 401
 gas bubbles 401
 hosts 254
 indicator species 254
 microbes 254
 mucus 401
 phosphorus 251
 phytoplankton 251
 salmonids 401
 saturation 401
Schizothrix calicola 254
 sewage 251
 Texas 401
 viruses 254
fisheries
 Alaska 7
 amino acids 528
 ATP 465
 Barataria 95

Basin 95
 Bay 74 94 465 488
 benthic 338 528
 bibliography 124
 C/N 465
 Chesapeake 74
 Clyde 375
 COD 338
 coliforms 94
 Colville 7
 conference 528
 crustaceans 338
 cycles 528
 Delaware 411
 detritus 528
 diversity 94
 dredging 96 498
 east coast 77
 economics 94 494 498
 Enteromorpha 375
 Estuary 7 124 375 411
 eutrophication 124
 fauna 375
 fish 528
 flood control 96
 Hawaii 94
 hydrology 7 124
 industry 488 498
 invertebrates 528
 Japan 338 488
 juveniles 77
 Kaneohe 94
 land development 96
 Louisiana 95 96
 management 74 96 291 398 411 494
 498 528
 methods 465
 microbes 528
 model 338 411
 molluscs 375
 nitrogen 94 338 528
 North 411
 nursery grounds 95
 nutrients 7 95 96 375 465 494
 498 528
 oil 338 528
 organic matter 338
 organisms 528
 PC 465
 pesticides 528
 phosphorus 94 528
 phytoplankton 96 411
 PN 465
 power plant 498
 primary 7 124 465
 productivity 7 124 465
 public opinion 498
 pulp mill 488
 recreation 94 96
 resources 7 398 494 498
 runoff 96 465
 salinity 77 95
 sand 375
 Scotland 375
 Sea 338 411
 seagrass 528
 sediments 338 375
 Seto 338
 sewage 94 96 338 375 488
 silica 528
 soil erosion 96
 St Lawrence 124
 St Margaret 465
 stress 528
 succession 411
 sulfate 338
 sulfide 338
 Suruga 488
 suspended solids 124 465
 symposium 494 498
 temperature 77
 trace metals 124 528
 urea 528
 wastes 488
 wetlands 95 96 528
 worms 375
 zooplankton 77 528
Fladen Ground
 Aberdeen 453
 Bay 453
 chlorophyll 453
 Cl4 453
 North 453
 POC 453
 primary 453
 processes 453
 productivity 453
 Sea 453
 seasons 453
 flagellates

ATP 295
 Basin 295
 Bedford 295
 carbohydrates 295
 carbon 295
 diatoms 347
 filter feeders 347
 Michaelis Menton 347
 model 347
 particulate matter 295
 phytoplankton 295
 protein 295
 silica 347
 time constants 347
 zooplankton 295 347
flood control
 agriculture 517
 dredging 96
 fertilizer 517
 fisheries 96
 hydrology 517
 industry 517
 land development 96 517
 Louisiana 96
 management 96
 North Carolina 517
 nutrients 96 517
 pesticides 517
 phytoplankton 96
 recreation 96 517
 resources 517
 runoff 96
 sewage 96
 soil erosion 96
 watersheds 517
 wetlands 96
floodwaters
 anaerobic 127
 denitrification 127
 diffusion 127
 Louisiana 127
 nitrate 127
 redox potential 127
flora
 agencies 18
 Bay 18
 Chesapeake 18
 fauna 18
 methods 18
Florida
 agencies 14
 ammonia 314
 Apalachee 191 278
 Bay 191 278 402 427 433
 Bayou 181 314 316 317
 benthic 191 433
 Biscayne 427
 bloom 317
 Broad River 292
 budget 316
 carbon 181
 chemical 427
 detritus 292
 DO 278 314 317
 dredging 14
 Estuary 181 292 402
 fertilizer 292
 fish 278 317
 free surface 427
 freshwater 402
 Gymnodinium 317
 Hillsborough 433
 indicator species 191
 inorganic 181
 invertebrates 191 433
 leaves 292
 local 14
 Louisiana 402
 macroinvertebrates 314
 management 402
 mangroves 292
 model 427
 mud flats 191
 nitrate 314
 nitrogen 181 316
 North Carolina 402
 nutrients 402
 oyster reefs 191
 Palm 402
 pesticides 292
 phosphate 181 314
 phosphorus 181 316
 phytoplankton 314 317
 predictions 433
 primary 181
 processes 427
 productivity 181
 pulp mill 191 278
 radioactivity 402
 runoff 402

- Santee 402
- seagrass 191
- sediment water 181
- sediments 427 433
- sewage 14 433
- Shark 292
- South Carolina 402
- state 14
- swamps 402
- tertiary 433
- Texas 181 314 316 317
- three dimensional 427
- time dependent 427
- TOC 314
- toxicity 317
- trace metals 292
- transport 427
- wastes 191 317
- wetlands 14 402
- wind 427
- zooplankton 314
- flounder**
 - Craiglin 171
 - DO 171
 - fertilizer 171
 - fish 171
 - growth rates 171
 - Loch 171
 - sexual maturity 171
- flushing**
 - agriculture 218
 - algae bluegreen 218
 - British Columbia 512
 - California 155
 - canal 512
 - chlorophyll 155
 - distribution 155
 - diversity 155
 - dredging 512
 - Estuary 218
 - Gulf 155
 - Hudson 218
 - indices 437
 - Lagoon 155
 - marina 437
 - model 437
 - nitrate 218
 - nomogram 437
 - nutrients 218 512
 - phosphate 218
- phytoplankton** 155
- point sources 218
- Potomac 218
- primary 155
- productivity 155
- salinity 512
- sediments 437
- sewage 218
- temperature 512
- tides 155 512
- wastes 218 512
- flux**
 - ammonia 178 387
 - Bay 22 178 366 379 387
 - Bayou 315
 - benthic 178
 - BOD 342
 - California 187
 - carbon 22 342 362 387
 - chambers 178
 - Chesapeake 22
 - clay 385 458
 - ctenophores 362
 - cycles 342
 - Delaware 342
 - detritus 22
 - DO 315 342 387
 - Doboy 385
 - energy transfer 362
 - Estuary 342
 - Georgia 385
 - Harbor 458
 - Hong Kong 458
 - inorganic 178 385
 - land development 458
 - marshes 22
 - microbes 385
 - microcosms 362 379 387
 - model 342 366
 - Narragansett 178 379 387
 - negentropy 366
 - nitrate 178
 - nitrite 178
 - nitrogen 22 187 342 362 387
 - nutrients 342 362 387
 - pH 315
 - phosphate 178 315 385 458
 - phosphorus 22 187 342 379 387
 - phytoplankton 187 342
 - plankton 366

Potomac 342
 primary 22 187 362
 processes 315
 productivity 22 187 362
 P32 385
 Raritan 366
 redox potential 315
 Rhode Island 178 387
 salinity 315 458
 sediment water 178 315 379 385
 387
 sediments 187 387 458
 silica 187
 Sound 385
 temperature 178 315
 Texar 315
 tides 22
 Tolo 458
 trace metals 387
 wastes 342
 zooplankton 342
food processing
 chemical 516
 fish 516
 industry 516
 microbes 516
 nutrients 516
 Oregon 516
 radioactivity 516
 resources 516
 sewage 516
Sphaerotilus 516
 thermal 516
 trace metals 516
foraminifera
 algae 72 256 339
 bacteria 256 339
 Bay 72
 benthic 72
 biomass 339
 birds 256 339
 calcium 339
 carbon 256 339
 Chesapeake 72
 community structure 256
 crustaceans 256 339
 DO 72
 energy transfer 72
 fish 256 339
 heterotrophic 256 339
 insects 256 339
 macrofauna 72
 macrophytes 72
 marshes 339
 meiofauna 256 339
 metabolism 256
 microbes 72
 molluscs 256 339
 nitrogen 256 339
 nutrients 72
 phosphorus 256 339
 phytoplankton 72 256 339
 pond experiment 256 339
 productivity 256 339
 sewage 72 256 339
 tertiary 339
 trace metals 72
 zooplankton 72
France
 Aisne 35
 benthic 234
 biomass 306
 bloom 306
 carbon 35
 detergent 234
 Estuary 35
Etang de Berre 306
 Gulf 234
 hydrology 306
Marseilles 234
 methods 35
 nitrogen 35
 nutrients 306
 organic matter 306
 organisms 234
 oxidation rates 35
 plankton 306
Posidonia oceanica 234
 seagrass 234
 Seine 35
 sewage 234
 temperature 35
free surface
 Bay 427
 Biscayne 427
 chemical 427
 Florida 427
 model 427
 processes 427
 sediments 427

three dimensional 427
 time dependent 427
 transport 427
 wind 427
frequency analysis
 diffusion 261
 model 261
freshwater
 abundance 113
 ammonia 204
 ammonium 113
 autotrophic 86
 Bay 86 231 378 402
 benthic oxygen demand 420
 Bight 113
 biomass 231 519
 bloom 204 519
 BOD 284 519
 chlorophyll 113 519
 Clyde 284
 crabs 231
 distribution 113
 DO 222 284 519
 Duwamish 519
 energy transfer 231
 Estuary 204 219 222 284 402 519
 fertilizer 204
 fish 231
 Florida 402
 Galveston 231
 heterotrophic 86
 hydrology 284 378 420
 industry 86 284
 light 420
 Louisiana 402
 management 231 402
 metabolism 86
 microcosms 86
 model 231 378 420
 Neuse 204
 New Jersey 113
 New York 113
 nitrate 113 204 219
 nitrite 113 219
 North Carolina 204 402
 nutrients 86 222 402
 one dimensional 420
 Palm 402
 phosphate 113 219
 phosphorus 204
 phytoplankton 86 113 204 519
 Potomac 219 222
 predictions 284
 primary 86
 productivity 86 231
 radioactivity 402
 resources 222
 respiration 86
 Rockaway Point 113
 runoff 402 420
 salinity 113 204 231
 San Francisco 378
 Santee 402
 secondary 231
 sediments 219
 sewage 204 219 284
 shrimp 231
 silica 113 378
 South Carolina 402
 spatial distribution 219
 stochastic 420
 suspended solids 113
 swamps 402
 temperature 113 284 420 519
 temporal distribution 219
 Texas 86 231
 tides 519
 TKN 219
 Trinity 86
 turbidity 420
 two dimensional 378
 wastes 86 204 222 284
 watersheds 219
 wetlands 402
 zooplankton 86
fucaceae
 intertidal 334
Mytilus 334
 pulp mill 334
 Spain 334
 stress 334
Ulvales 334
 wastes 334
Fundy
 Bay 524
 bloom 524
 dinoflagellate 524
Gonyaulax excavata 524
 herring 524
Limacina retroversa 524

pteropods 524
fungus
 amino acids 456
 bacteria 456
 bacteria proteolytic 456
 carbohydrates 456
 C14 456
 fauna 456
 heterotrophic 456
 indices 456
 methods 456
 microbes 456 501
 oil 456
 phytoplankton 456
 processes 456
 pulp mill 456
 salinity 456
 seasons 501
 sewage 456
 symposium 456
 synthesis 501
 thermal 456
 trace metals 456
 vitamins 501
 yeast 501
FWQA Dynamic
 Anacostia 78
 dye 78
 Estuary 78
 model 78
 Potomac 78
 predictions 78
 Thomann 78
 tides 78
Galveston
 abundance 32
 Anchoa mitchilli 32
 Bay 32 208 231 401
 benthic 208
 biomass 32 231
 crabs 231
 diversity 32
 DO 401
 energy transfer 231
 fish 32 231
 fish kills 401
 freshwater 231
 gas bubbles 401
 hydrology 208
 indicator species 32 208
 indices 32 208
industry 208
 management 231
 model 231
 mucus 401
 productivity 231
 salinity 231
 salmonids 401
 saturation 401
 secondary 231
 sediments 208
 shrimp 231
 Texas 32 208 231 401
 toxicity 32
 wastes 32 208
gas bubbles
 Bay 401
 DO 401
 fish kills 401
 Galveston 401
 mucus 401
 salmonids 401
 saturation 401
 Texas 401
gastrotrichs
 abundance 167
 annelids 167
 biomass 167
 diversity 167
 Estuary 167
 fauna 167
 Great Britian 167
 microbes 167
 nematodes 167
 oligochaetes 167
 polychaetes 167
 sewage 167
 Tees 167
Georgia
 ammonia 176 177
 C/N 150
 clay 385
 Doboy 385
 DOC 150
 DON 150 176 177
 flux 385
 inorganic 385
 marshes 59 177
 metabolism 386
 microbes 59 385

- model 386
- nitrate 176 177
- nitrite 176 177
- pH 176
- phosphate 385
- phosphorus 386
- PON 177
- pools 177
- processes 386
- P32 385
- rainfall 176
- runoff 150
- Savannah 150
- seasons 386
- sediment water 385 386
- sediments 59
- Sound 150 385
- suspended solids 59
- tidal creek 177
- vitamin B12 59
- Germany**
 - indicator species 166
 - myxobacteria 166
 - sewage 166
- Giens**
 - growth rates 285
 - Gulf 285
 - Posidonia oceanica* 285
 - sediments 285
 - sewage 285
- global**
 - management 490
 - monitoring 490
 - research 490
 - resources 490
- glucose**
 - bacteria attached 164
 - bacteria free 164
 - Bayou 313
 - dissolved solids 313
 - DO 313
 - Estuary 164
 - Humber 164
 - kinetics 313
 - microbes 313
 - mineralization 164
 - nutrients 313
 - organic matter 164
 - phosphate 313
 - productivity 313
- redox potential** 313
- sediment water** 313
- suspended solids** 164
- glycine**
 - amino acids 225
 - carbohydrates 225
 - clams 225
 - Mercenaria* 225
 - oil 225
 - sewage 225
 - stress 225
 - taurine 225
- Gonyaulax**
 - benthic 10
 - bloom 10
 - cysts 10
 - dinoflagellate 6 10
 - Massachusetts 10
 - red tide 10
 - spores 10
 - toxicity 6 10
- Gonyaulax excavata**
 - Bay 524
 - bloom 524
 - dinoflagellate 524
 - Fundy 524
 - herring 524
 - Limacina retroversa* 524
 - pteropods 524
- Gothenburg**
 - benthic 352
 - Byfjorden 352
 - crustaceans 352
 - Estuary 352
 - indicator species 352
 - Kungsbackafjorden 352
 - macrofauna 352
 - meiofauna 352
 - Saltkallefjord 352
 - Sweden 352
 - zooplankton 352
- gradient**
 - benthic 371
 - community structure 371
 - ecocline 371
 - indicator species 371
 - indices 371
 - organic enrichment 371
 - recovery 371
 - sediments 371

succession 371
Grays
 DO 369
 Harbor 369
 sewage 369
 temperature 369
 upwelling 369
 Washington 369
Great Britain
 abundance 120 167
 algae 119 120
 annelids 167
 Bay 23 199
 benthic 119 120 529
 biomass 167
 black necrosis 2
 BOD 274
 Burry Inlet 2
 coliforms 23
Crangon crangon 2
 detergent 2
 diatoms 197
 DIN 199
 diversity 120 167 197
 DO 2
 DRP 199
 economics 85
 Estuary 119 167
 fauna 167
 gastrotrichs 167
 indicator species 197 529
 indices 197
 industry 119
 Liverpool 23 199
 long term 120 199
 macrophytes 529
 management 85
 microbes 2 167
 nematodes 167
 nitrogen 199
 oligochaetes 167
 pH 2
 phosphorus 199
 physico chemical treatment 294
 phytoplankton 274
 polychaetes 167
 reproduction 120
 salinity 2
 seasons 120 199 274
 sewage 23 119 167 197 274 294
 Tees 119 167
 temperature 2
 trace metals 2
 tracer 23
 Tyne 119
 wastes 119 120
 Wear 119
Greece
Cladocera 245 310
Evdne 310
Gulf 245 310
 indicator species 245 310
 industry 245
Saronic 245 310
 seasons 245 310
 sewage 245 310
 temperature 245 310
 wastes 245
 zooplankton 245
Grevelingen
 biomass 336
 Estuary 336
 light 336
 Netherlands 336
 nutrients 336
 primary 336
 productivity 336
 water velocity 336
Zostera marina 336
growth rates
 algae 236 312
 ammonium 188 522
Anabaena 312
 aquaculture 360
 Bay 188 355 392
 benthic 106
 boundary layer 522
 C/N 188
 carbon 70 312 522
Chaetodon miliaris 392
 chemostat 169
 Chesapeake 355
Chlorella 312
 chlorophyll 70
 Cockburn 63
 CO₂ 312
 Craiglin 171
 cycles 522
Damariscotta 106
 decomposition 299

diatoms 479
 dinoflagellate 479
 DO 106 171
 electron transfer 299
 energy transfer 299 534
 Estuary 106
 fertilizer 171 355
 fish 106 171 392 534
 flounder 171
 Giens 285
 Gulf 285
 Harbor 39
 Hawaii 188 392
 indicator species 39
 intracellular 169
 invertebrates 106
 Kaneohe 188 392
 kelp 522
 Ks 522
 laboratory culture 106
Laminaria 70
 larvae 106
 Loch 171
 Long 39
Macrocystis 522
 macrophytes 70
 Maine 106
 metabolism 534
 microbes 299
Microcystis 312
 model 169
 molluscs 39
 morphology 522
Mytilus edulis 360
 Newfoundland 39
 nitrate 70 188
 nitrogen 169 479 522
 Norway 236
 nutrients 236 355 522
 organic matter 299
 Penobscot 106
 phosphorus 39 236
 phytoplankton 169 188 459 479
Posidonia australis 63
Posidonia oceanica 285
 primary 236 522
 productivity 522 534
 pulp mill 459
 redox potential 299
 reproduction 392

salinity 106
 seagrass 63 355
 seasons 63
 secondary 236
 sediments 63 106 285
 settlement 106
 sewage 188 236 285 360 392 479
 sexual maturity 171
 Sheepscot 106
 Sound 63
 steady state 299
 stress 534
 substrates 299
 temperature 106
 tertiary 236
 trace metals 479
 uptake rates 188
 urea 188
 Vm 522
 water velocity 522
 zooplankton 392

Guanabara
Balanus 257
 Bay 257
 Brazil 257
 indicator species 257

Guayanilla
 algae bluegreen 243
 algae mats 243
 bacteria 243
 Bay 243
 heterotrophic 243
 nitrogen fixation 243
 Puerto Rico 243
 sediments 243
 thermal 243

Gulf
 Aqaba 146
 benthic 137 234
 Bothnia 137
 calcium 146
 California 155
 chlorinated hydrocarbons 137
 chlorophyll 155
Cladocera 245 310
 detergent 234
 dissolved solids 137
 distribution 155
 diversity 155
 DO 137

- Eavadne 310
- flushing 155
- France 234
- Giens 285
- Greece 245 310
- growth rates 285
- hydrology 137
- indicator species 245 310
- industry 245
- iron 137
- Jordan 146
- Lagoon 155
- macrofauna 137
- Marseilles 234
- nutrients 137
- oil 137
- organisms 234
- pesticides 137
- phosphate 146
- phosphorus 137
- phytoplankton 137 155
- Posidonia oceanica* 234 285
- primary 137 155
- productivity 137 155
- Saronic 245 310
- seagrass 234
- seasons 245 310
- sediments 137 285
- sewage 146 234 245 285 310
- symposium 137
- temperature 245 310
- tides 155
- trace metals 137
- wastes 137 245
- zooplankton 137 245
- gulls**
 - coliforms 163
 - feces 163
 - nitrogen 163
 - pathogens 163
 - phosphorus 163
 - sewage 163
- Gymnodinium**
 - Bayou 317
 - bloom 317
 - DO 317
 - fish 317
 - Florida 317
 - phytoplankton 317
 - Texar 317
- Hacking**
 - Australia 424
 - chlorophyll 424
 - detritus 424
 - hydrology 424
 - light 424
 - methods 424
 - phytoplankton 424
 - Port 424
 - runoff 424
 - sediments 424
 - suspended solids 424
- Harbor**
 - algae 400
 - Aquaforte 145
 - benthic 400 447
 - bioenhancement 447
 - biomass 447
 - BOD 136
 - Burrard 460
 - C/N 136
 - California 400 447
 - Canada 145
 - cannery 447
 - Charleston 136
 - chemical 20
 - clay 458
 - distribution 460
 - diversity 447
 - DO 369 447
 - Elizabeth 327
 - Estuary 327
 - euglenoid 145
 - eutrophic 20
 - fiord 460
 - fish 447
 - flux 458
 - Grays 369
 - growth rates 39
 - Hong Kong 458
 - hydrology 20
 - indicator species 39 145 400
 - industry 136 327
 - Inlet 460
 - James 327
 - land development 458
 - Little Creek 327
 - Long 39

Los Angeles 400 447
 Lynnhaven 327
 management 327
 microbes 20
 model 327
 molluscs 39
 nanoplankton 145
 Nansemond 327
 Newfoundland 39
 nonpoint sources 327
 oil 400
 oligochaetes 400
 organisms 447
 Pagan 327
 phosphate 458
 phosphorus 39
 phytoplankton 145 460
 plankton 20 447
 polychaetes 400
 Poquoson 327
 predictions 327
 primary 460
 productivity 447 460
 pulp mill 136
 salinity 458
 secchi disc 145
 sediments 458
 sewage 136 145 327 369 400 447
 South Carolina 136
 St Johns 145
 succession 460
 temperature 369
 Tolo 458
 upwelling 369
 Vancouver 460
 Washington 369
 wastes 20 136 327 400 447
 York 327
Hawaii
 ammonia 466
 ammonium 188
 Bay 64 65 94 182 188 200 330 392
 466
 biomass 65 200 466
 C/N 188
 Chaetodon miliaris 392
 chlorophyll 64 65
 coliforms 94
 coral 182
 detritus 65
 diversity 94
 DON 466
 DPO 466
 economics 94
 excretion rates 466
 fish 392
 fisheries 94
 growth rates 188 392
 Kaneohe 64 65 94 182 188 200 330
 392 466
 metabolism 466
 microbes 182
 microcopepods 330
 model 64
 nitrate 64 188
 nitrogen 65 94 330
 nitrogen fixation 182
 P/B 330
 phosphate 64 466
 phosphorus 94
 phytoplankton 64 65 188
 PN 200
 POC 65
 primary 64
 productivity 64 330
 recreation 94
 reproduction 392
 secondary 182 330
 sediments 182
 sewage 64 94 182 188 330 392
 size composition 200
 size dependent 466
 succession 200
 uptake rates 188
 urea 188
 zooplankton 200 392 466
heat
 algae 89
 animals 89
 Bay 141
 benthic 542
 benthic oxygen demand 542
 carbon 542
 Chesapeake 141
 coliforms 542
 community structure 89
 deoxygenation 542
 DO 542
 energy transfer 141
 Estuary 89 141

fish 542
 hydrology 141
 ice 542
 light 542
 methods 542
 microbes 141
 model 542
 North Carolina 89
 nutrients 89 141 542
 organic 141
 organisms 542
 Patuxent 141
 phytoplankton 141 542
 plants 141
 pond experiment 89
 power plant 141
 primary 141 542
 productivity 89 141 542
 rate constants 542
 reaeration 542
 respiration 89
 seasons 89
 sewage 89
 South Creek 89
 spatial distribution 542
 temperature 89
 temporal distribution 542
 thermal 141
 zooplankton 542
herring
 Bay 524
 bloom 524
 dinoflagellate 524
 Fundy 524
Gonyaulax excavata 524
Limacina retroversa 524
 pteropods 524
heterotrophic
Actinetobacter 431
 algae 256 339
 algae bluegreen 243
 algae mats 243
 amino acids 456
 autotrophic 86
 bacteria 243 246 256 339 431 456
 bacteria proteolytic 456
 Bay 86 243 431
 biomass 339
 birds 256 339
 calcium 339
 carbohydrates 456
 carbon 256 339
 community structure 256
 crustaceans 256 339
 C14 456
 density 246
 diversity 246
 fauna 456
 fish 256 339
 foraminifera 256 339
 freshwater 86
 fungus 456
Guayanilla 243
 indices 456
 industry 86
 insects 256 339
 marshes 339
 meiofauna 256 339
 metabolism 86 256
 methods 456
 microbes 456
 microcosms 86
 molluscs 256 339
 nitrogen 256 339
 nitrogen fixation 243
 nutrients 86 431
 oil 456
 phosphorus 256 339
 phytoplankton 86 256 339 431 456
 pond experiment 256 339
 primary 86
 processes 456
 productivity 86 256 339
 Puerto Rico 243
 pulp mill 456
 respiration 86
 Sagami 431
 salinity 456
 sediments 243 246
 self purification 246
 sewage 256 339 456
 Suruga 431
 symposium 456
 tertiary 339
 Texas 86
 thermal 243 456
 Tokyo 431
 trace metals 456
 Trinity 86
 Vibrios 431

- wastes 86
- zooplankton 86 431
- heterotrophic potential**
 - microbes 500
 - organic 500
 - populations mixed 500
 - wastes 500
- Hillsborough**
 - Bay 433
 - benthic 433
 - Florida 433
 - invertebrates 433
 - predictions 433
 - sediments 433
 - sewage 433
 - tertiary 433
- history**
 - Estuary 158
 - marshes 158
 - Pb210 158
 - plutonium 158
 - records 158
 - Savannah 158
 - sediments 158
- Hobsons**
 - abundance 389
 - Bay 389
 - benthic 389
 - diversity 389
 - DO 389
 - Estuary 389
 - fauna 389
 - salinity 389
 - Theora fragilis* 389
 - Yarra 389
- Hong Kong**
 - clay 458
 - flux 458
 - Harbor 458
 - land development 458
 - phosphate 458
 - salinity 458
 - sediments 458
 - Tolo 458
- hosts**
 - algae bluegreen 254
 - Cyanophyta 254
 - fish kills 254
 - indicator species 254
 - microbes 254
- Schizothrix calicola** 254
- viruses** 254
- Houston Ship Channel**
 - hydrology 253
 - reaeration 253
- Hudson**
 - agriculture 218
 - algae bluegreen 218
 - ammonium 31
 - Chlorophyta 31
 - Estuary 31 209 218
 - flushing 218
 - land development 209
 - light 31
 - management 209
 - nitrate 31 218
 - nutrients 218
 - phosphate 218
 - phytoplankton 31
 - point sources 218
 - Potomac 218
 - resources 209
 - sewage 218
 - Skeletonema* 31
 - uptake rates 31
 - wastes 218
- Humber**
 - bacteria attached 164
 - bacteria free 164
 - Estuary 164
 - glucose 164
 - mineralization 164
 - organic matter 164
 - suspended solids 164
- Humboldt**
 - Bay 8
 - California 8
 - DO 8
 - pH 8
 - pond experiment 8
 - salmonids 8
 - sewage 8
- Hurricane**
 - Agnes 415 421
 - Bay 415 421
 - Chesapeake 415 421
 - chlorophyll 415
 - Estuary 415
 - Michaelis Menton 415

model 415
 nitrogen 415
 phosphorus 415
 phytoplankton 415
 POM 421
 quasi linear 415
 sediments 421
 sewage 421
 soil erosion 421
 suspended solids 421
 Susquehanna 415
 wastes 415
Hydrobia ulvae
 benthic 393
 Craiglin 393
 density 393
 fauna 393
 fertilizer 393
 Loch 393
 productivity 393
hydrology
 abundance 43
 advection 42
 aerobic 183
 agriculture 517
 Alabama 132
 Alaska 7
 Albemarle 43
 algae 87 448
 ammonia 43 520
 animals 399
 assay 399 414 448
 Australia 154 424
 Bay 41 42 71 91 132 141 198 208
 224 226 262 354 378 448 510
 Belgium 376
 benthic 87 137 208 224
 benthic oxygen demand 420
 bibliography 124 250 263 264 265
 266 267 268
 biomass 154 201 306
 bloom 201 306 376 414 520 521
 BOD 71 212 284
 Bothnia 137
 California 441
 Channel 253
 chemical 20
 Chesapeake 41 42 91 141 510
 chlorinated hydrocarbons 137 491
 chlorophyll 43 154 174 424
 Clyde 284
 coliforms 183
 Colville 7
 community structure 174
 Coriolis 42
 cycles 91 183 224 241
 density 198 280 530
 deposition 376
 detritus 424
 diatoms 376 414
 dilution 510
 dispersion 530
 dissolved solids 137
 distribution 71
 DO 71 97 137 154 174 212 226 241
 284 376 441
 DON 201
 Duwamish 520 521
 dye 530
 economics 491
 energy transfer 141 354
 Estuary 7 87 90 124 141 154 174
 183 201 212 284 376 510 520 521
 530
 Etang de Berre 306
 eutrophic 20
 eutrophication 124 250 263 264
 265 266 267 268
 fauna 87
 fertilizer 517
 finite difference 41
 fish 515
 fisheries 7 124
 flood control 517
 France 306
 freshwater 284 378 420
 Galveston 208
 Gulf 137
 Hacking 424
 Harbor 20
 heat 141
 Houston Ship 253
 H3 154
 indicator species 208 399
 indices 208
 industry 208 284 517
 inorganic 201
 interface salt fresh 132 376
 intracellular 100
 iron 137

Jamaica 262
 land development 43 517
 light 174 420 424 448 521
 Little River 154
 longitudinal 530
 macrofauna 137
 management 183 491 515
 Mediterranean 491
 metabolism 224
 methods 399 424
 Michaelis-Menton 71
 microbes 20 141 183 399 491
 microflagellates 174
 mining 87 90 201
 mixing 530
 Mobile 132
 model 41 42 71 97 100 132 183
 198 212 250 262 263 264 265 266
 267 268 280 321 354 378 420 510
 515 530
 momentum transfer 132
 N/P 226 414
 nanoplankton 174
 Narragansett 198
 New Jersey 224 226
 New York 262
 nitrate 201 224 226 414
 nitrogen 43 87 91 100 183 201
 321
 North Carolina 43 90 517
 Norway 414
 nutrients 7 71 100 137 141 226
 241 306 376 441 448 491 515 517
 521
 oil 137 399 491
 one dimensional 420
 Oregon 448
 organic 141
 organic matter 306
 orthophosphate 414
 P/N 441
 Pamlico 87 90 201
 Patuxent 141
 Periphyton 521
 pesticides 137 517
 pH 71
 phosphate 224 226 520
 phosphorus 43 87 90 91 100 137
 154 201 241
 phytoplankton 43 71 87 90 91 137
 141 154 174 201 414 424 441 515
 520 521
 plankton 20 226 306
 plants 141
 point sources 530
 Port 424
 Potomac 183
 power plant 141
 predictions 183 284
 primary 7 43 91 124 137 141 154
 174 441 515
 processes 183 224 354
 productivity 7 43 91 124 137 141
 154 174 441 515
 Puget 515
 P32 154
 radioactivity 491
 Rangia 90
 Raritan 224 226
 reaeration 253
 real time 183 212 321
 recreation 517
 resources 7 491 517
 respiration 441
 runoff 420 424
 salinity 43 71 90 154 174 198
 212 226 241 441
 San Francisco 71 354 378
 Scheldt 376
 Sea 491
 seasons 71 224 226 441 448 521
 secchi disc 441
 sediments 90 132 137 201 208 376
 424 491
 self purification 376
 Severn 510
 sewage 284 448 510 520
 silica 378 414
 Sound 43 515
 St Lawrence 124
 stochastic 420
 stratification 280
 succession 201 515
 suspended solids 124 376 424
 symposium 137 337
 Tar 201
 temperature 43 71 154 174 226
 284 420 441 448
 Texas 208
 thermal 141 250 263 264 265 266

- 267 268
- three dimensional 132 198 515
- three layer 280
- tidal average 212
- tides 183
- time dependent 132
- trace metals 124 137 376 414 491
- Transient Water Quality Network 183
- transport 100 132 262 354 376
- Trondheimsfjord 414
- trophic levels 515
- turbidity 43 420
- two dimensional 41 42 262 378
- uptake rates 90
- vertical shear 530
- Virginia 212
- Washington 515 520
- wastes 20 90 137 208 284 399
- water quality 97
- watersheds 517
- Yaquina 448
- York 174 212 530
- zooplankton 87 137 154
- Hymeniacidon sanguinea*
 - chemical 359
 - indicator species 359
 - industry 359
 - Italy 359
 - Porifera 359
 - sewage 359
 - wastes 359
- hypertrophication
 - Bight 286
 - bloom 286
 - New York 286
 - nutrients 286
 - phytoplankton 286
- H2S
 - argon 396
 - Bay 396
 - bubbles 396
 - Chesapeake 396
 - CO₂ 396
 - methane 396
 - nitrogen 396
 - sediment water 396
- H3
 - Australia 154
 - biomass 154
- ice
 - benthic 542
 - benthic oxygen demand 542
 - carbon 542
 - coliforms 542
 - deoxygenation 542
 - DO 542
 - fish 542
 - heat 542
 - light 542
 - methods 542
 - model 542
 - nutrients 542
 - organisms 542
 - phytoplankton 542
 - primary 542
 - productivity 542
 - rate constants 542
 - reaeration 542
 - spatial distribution 542
 - temporal distribution 542
 - zooplankton 542
- indicator species
 - abundance 32 383 472
 - algae 400
 - algae bluegreen 254 335
 - algae mats 357
 - alkalinity 383
 - ammonia 481
 - amphipods 12
 - Anchoa mitchilli 32
 - animals 399
 - annelids 370
 - Apalachee 191
 - Aquaforte 145
 - assay 383 399
 - Balanus 257

Baltic 335
 Bay 12 32 191 208 257 417
 benthic 12 191 208 269 331 335
 352 370 371 400 529
 Bight 121
 bioaccumulation 121
 biomass 32
 Black 303
 Brazil 257
 Byfjorden 352
 California 400
 Canada 145
Capitella capitata 12
Chaetoceros simplex 303
 chemical 359
 Chesapeake 417
 chlorophyll 481
Cladocera 245 310
 Columbia 357
 community structure 371
 crustaceans 352 370
Cyanophyta 254
 detergent 335
 diatoms 197
 distribution 269 383 417
 diversity 32 197 472
 DO 335
 Duwamish 481
 ecocline 371
 energy transfer 335
 England 370
 Estuary 352 357 481
 euglenoid 145
 Evadne 310
 fish 32 121 335
 fish kills 254
 Florida 191
 Galveston 32 208
 Germany 166
 Gothenburg 352
 gradient 371
 Great Britain 197 529
 Greece 245 310
 growth rates 39
 Guanabara 257
 Gulf 245 310
 Harbor 39 145 400
 hosts 254
 hydrology 208 399
Hymeniacidon sanguinea 359
 indices 32 111 197 208 269 371
 industry 208 245 359
 invertebrates 12 191 331 383
 Italy 359
 Kiel 12 121
 Kungsbackafjorden 352
 Lake 383
 Lebanon 472
 Linnhe E11 370
 Loch 370
 Long 39
 Los Angeles 400
 macroalgae 335
 macrofauna 352
 macrophytes 529
 Massachusetts 331
 meiofauna 352
 methods 399
 microbes 254 399 417
 model 335
 molluscs 39 370
 mud flats 191
 mussels 121
myxobacteria 166
 nanoplankton 145
 nematodes 331
 Newfoundland 39
 nitrate 303 481
 nitrite 481
 Norway 121
 nutrients 383 472
 oil 121 399 400
oligochaetes 400
 organic 269
 organic enrichment 371
 organisms 335
 oyster reefs 191
Periphyton 481
 pH 383
 phosphate 303 481
 phosphorus 39
 phytoplankton 145 303 472
 plankton 383
 polychaetes 12 400
 Pontchartrain 383
Porifera 359
 primary 335 383 481
 productivity 335 383 481
 pulp mill 191 370
 recovery 371

runoff 383
 salinity 383
 Saltkallefjord 352
 Saronic 245 310
Schizothrix calicola 254
 Sea 303 335
 seagrass 191
 seasons 245 310 331
 secchi disc 145
 sediments 208 371 417
 seminar 111
 sewage 12 145 166 197 245 303
 310 331 335 359 400 417 472
 specie key 357
 St Johns 145
 succession 370 371
 suspended solids 417
 Sweden 352
 symposium 335
 temperature 245 310
 Texas 32 208
 toxicity 32
 viruses 254
 Washington 481
 wastes 32 191 208 245 359 399
 400 481
 water column 417
 Woods Hole 331
 zooplankton 245 335 352
indices
 abundance 32
 alkaline phosphatase 470
 amino acids 456
 analysis of variance 395
Anchoa mitchilli 32
 bacteria 456
 bacteria proteolytic 456
 Bay 32 92 208 470
 Bayou 102
 benthic 208 269 371 395
 Bight 189
 biomass 32
 carbohydrates 456
 carbon 220
 chemical 16 102
 Chesapeake 92
 chlorophyll 102 220 350 470
 Chocolate 102
 community structure 371
 CO₂ 220
 C14 456
 diatoms 197
 distribution 125 269 470
 diversity 32 102 197 395
 DNA 470
 DO 102 220
 ecocline 371
 enzymes 470
 Estuary 220 350
 fauna 456
 Firth of Forth 395
 fish 32
 flushing 437
 fungus 456
 Galveston 32 208
 gradient 371
 Great Britian 197
 heterotrophic 456
 hydrology 208
 indicator species 32 111 197 208
 269 371
 industry 208
 intertidal 395
 land development 92
 macrofauna 395
 marina 437
 Maryland 350
 methods 350 456
 microbes 16 220 456 470
 Mississippi 125
 model 437
 New York 189
 nitrate 125
 nomogram 437
 nutrients 92 125 220
 oil 368 456
 organic 269
 organic enrichment 371
 oxidases 368
 Patuxent 350
 pesticides 220
 phosphate 125
 phosphorus 470
 phytoplankton 456
 Potomac 220
 processes 456
 productivity 102
 protein 470
 pulp mill 456
 recovery 371

remote sensing 350
 resources 125
 respiration 102
 salinity 456
 seasons 102 395
 sediments 189 208 371 437
 seminar 111
 seston 470
 sewage 189 197 456
 Sound 125
 steroids 189
 succession 371
 suspended solids 350
 symposium 456
 Taylor 102
 Texas 32 102 208
 thermal 456
 TOC 220
 Tokyo 470
 toxicity 32
 trace metals 456
 wastes 32 102 208 220
 watersheds 92
 zooplankton 102
industry
 agriculture 384 517
 algae 119 442
 alkalinity 380
 animals 202
 ATP 275
 autotrophic 86
 Bay 86 208 301 380 488
 benthic 119 208 508
 bibliography 211 457
 Bight 275
 biomass 275
 bloom 275
 BOD 109 136 284 348
 C/N 136
 cadmium 275
 canal 384
 Ceratium 275
 Charleston 136
 chemical 109 359 516
 Chesapeake 301 380
 Cladocera 245
 Clyde 284
 COD 442
 coliforms 380
 cycles 464
 DC 380
 Delaware 109 134
 Dniester 384
 DO 202 284 380 464
 dredging 498
 economics 134 498 508
 Elizabeth 327
 energy transfer 348
 Estuary 109 119 134 202 284 327
 380 384
 eutrophication 211 457
 fauna 384
 fertilizer 202 361 464 517
 fish 202 516
 fisheries 488 498
 flood control 517
 food processing 516
 freshwater 86 284
 Galveston 208
 Great Britian 119
 Greece 245
 Gulf 245
 Harbor 136 327
 heterotrophic 86
 hydrology 208 284 517
Hymeniacidon sanguinea 359
 indicator species 208 245 359
 indices 208
 Italy 359
 James 327 380
 Japan 488
 kelp 232
 land development 517
 Little Creek 327
 Louisiana 442
 Lynnhaven 327
 macroinvertebrates 232
 management 109 205 327 498 508
 marshes 442
 Maryland 380
 metabolism 86 452
 metals 232
 microbes 275 442 516
 microcosms 86
 mining 202 464
 model 109 205 327 348
 municipal 109
 Nansemond 327
 New York 275
 nitrate 380

nitrogen 202
 nonpoint sources 327
 North 232
 North Carolina 202 517
 nutrients 86 380 442 498 516 517
 oil 211
 Oregon 516
 organisms 508
 Pagan 327
 Pamlico 202
 Patuxent 380
 pesticides 348 380 508 517
 pH 380
 phosphate 202 361 380
 phosphorus 464
 phytoplankton 86 202 361
 plankton 202
 plants 508
 populations single 452
 Poquoson 327
 Porifera 359
 Potomac 380
 power plant 498
 predictions 284 327
 primary 86 202 361
 productivity 86 202 361
 public opinion 498 508
 pulp mill 136 488
 radioactivity 516
 Rappahannock 380
 recreation 508 517
 red tide 361
 remote sensing 211
 resources 211 498 516 517
 respiration 86
 runoff 134 205 442 464
 salinity 202
 Saronic 245
 Sea 232
 seasons 245
 secondary 348
 sediments 208 275 301 380
 sewage 119 134 136 202 232 245
 284 301 327 348 359 380 384 442
 464 488 516
 South Carolina 136
Sphaerotilus 516
 stochastic 205
 storm loading 134
 stress 452
 succession 232
 Suruga 488
 Susquehanna 380
 symposium 498
 Tees 119
 temperature 202 245 284
 tertiary 301 508
 Texas 86 208
 thermal 211 516
 TLm 452
 TOC 442
 trace metals 348 380 516
 transport 301
 Trinity 86
 Tyne 119
 Virginia 380
 wastes 86 109 119 134 136 208
 232 245 275 284 301 327 348 359
 380 384 442 452 464 488 508
 watersheds 380 517
 Wear 119
 York 327 380
 zooplankton 86 245 384
Inlet
 acetylene 25
 Alaska 319 320
 arctic 319
 benthic 319
 BOD 320
 Burrard 460
 cannery 25
 Cook 319 320
 distribution 460
 DO 319
 fiord 460
 Harbor 460
 intertidal 25
Klebsiella pneumoniae 25
 microbes 319
 New Zealand 25
 nitrogen 319
 nitrogen fixation 25
 nutrients 25
 organisms 319
 pH 319
 phosphorus 319
 phytoplankton 460
 plankton 319
 primary 460
 productivity 460

salinity 319
 sediments 25
 sewage 25 319 320
 silica 319
 slaughterhouse 25
 succession 460
 temperature 320
 Vancouver 460
 Waimea 25
 wastes 25
inorganic
 ammonia 178 203 407
 ammonium 186
 animals 186
 Bay 178
 Bayou 181
 benthic 178
 biomass 201 203
 bloom 201
 Broadkill 101
 carbon 27 181
 CBOD 407
 chambers 178
 chlorophyll 101 407
 clay 385
 coliforms 407
 cycles 186
 Delaware 101
 denitrification 326
 detergent 413
 dissolved 131
 DO 101 407
 Doboy 385
 DOC 416
 DON 201
 Estuary 27 101 131 181 186 201
 203 407 506
 Fiji Island 326
 Florida 181
 flux 178 385
 Georgia 385
 hydrology 201
 James 27
 manganese 416
 mangroves 326
 Massachusetts 161
 microbes 27 203 326 385
 mining 201 203
 Mississippi 131
 model 27 407
 municipal 413
 Murderkill 101
 N/P 413
 Narragansett 178
 nitrate 27 178 186 201 203 407
 nitrite 27 178 186 407
 nitrogen 101 161 181 186 201 326
 407 413 506
 North Carolina 186 203
 nutrients 101 186 203 416
 one dimensional 407
 organic 27 186 407 506
 organic matter 413
 Orinoco 131
 Pagan 407
 Pamlico 186 201 203
 pH 101
 phosphate 27 178 181 203 385
 phosphorus 101 181 201 407 413
 phytoplankton 27 161 201 203 407
 413 416 506
 plants 186
 plumes 131
 pond experiment 161
 predictions 27
 primary 181 416
 processes 27 506
 productivity 181 416
 P32 385
 real time 407
 Rhode Island 178
 salinity 101 407
 Savannah 131
 Schofield 27
 seasons 186 506
 secondary 326
 sediment water 178 181 385
 sediments 186 201 326
 sewage 27 161 326 416
 silica 131
 Sound 385
 stochastic 27
 succession 201
 suspended solids 131
 Tar 201
 temperature 27 178
 tertiary 161 326
 Texar 181
 tides 101
 uptake rates 131

- urea 186
- Vellar 506
- Virginia 27
- wastes 413
- wetlands 101
- insects**
 - algae 256 339
 - bacteria 256 339
 - biomass 339
 - birds 256 339
 - calcium 339
 - carbon 256 339
 - community structure 256
 - crustaceans 256 339
 - fish 256 339
 - foraminifera 256 339
 - heterotrophic 256 339
 - marshes 339
 - meiofauna 256 339
 - metabolism 256
 - molluscs 256 339
 - nitrogen 256 339
 - phosphorus 256 339
 - phytoplankton 256 339
 - pond experiment 256 339
 - productivity 256 339
 - sewage 256 339
 - tertiary 339
- instruments**
 - bibliography 436
 - detergent 436
 - DO 272
 - methods 272 436
 - model 436
 - nutrients 436
 - oil 436
 - pesticides 436
 - trace metals 436
- interface salt fresh**
 - Alabama 132
 - ammonia 311
 - Bay 132
 - Belgium 376
 - bloom 376
 - BOD 311
 - deposition 376
 - diatoms 376
 - DO 311 376
 - DOC 311
 - DON 311
 - Estuary 376
 - hydrology 132 376
 - Mobile 132
 - model 132
 - momentum transfer 132
 - nitrite 311
 - nutrients 376
 - pH 311
 - salinity 311
 - Scheldt 376
 - sediments 132 376
 - self purification 376
 - suspended solids 376
 - three dimensional 132
 - time dependent 132
 - trace metals 311 376
 - transport 132 376
- interference**
 - methods 54
 - nitrate 54
 - uv/resin 54
- international**
 - marine pollution 281
 - symposium 281
- interstitial**
 - aerobic 58
 - alkalinity 293
 - ammonia 293
 - anaerobic 58
 - assay 58
 - Bay 45 207 293 485
 - Belgium 504
 - Chesapeake 45 207 293 485
 - chloride 293
 - Connecticut 58
 - Copps Brook 58
 - degradation 58
 - denitrification 504
 - DIP 45
 - dissolved 207
 - distribution 293
 - DOC 58
 - iron 45 46 293 485
 - manganese 207 293
 - mass transfer 503
 - metabolism 58
 - methods 46 485
 - microbes 58
 - model 58 207 503 504 536
 - nitrate 504

- nitrification 504
- nitrite 504
- North 503
- nutrients 58
- organic matter 58 504
- orthophosphate 46
- oxidation 46
- oxidation rates 485
- pH 207 293
- phosphate 293
- POC 58
- processes 536
- redox potential 293
- Sea 503
- seasons 293
- sediments 58 504
- silica 293 503 536
- steady state 207
- sulfate 293
- tetrazolium salt 58
- two layer 503
- watersheds 58
- zone 503
- intertidal**
 - acetylene 25
 - algae 443
 - analysis of variance 395
 - benthic 395
 - birds 443
 - California 276
 - cannery 25
 - Clyde 443
 - distribution 309
 - diversity 17 395
 - energy transfer 276
 - Estuary 309 443
 - fauna 276
 - feeding grounds 443
 - Firth of Forth 395
 - fish 17
 - fucaceae 334
 - indices 395
 - Inlet 25
 - invertebrates 17 443
 - Irish 309
 - Klebsiella pneumoniae 25
 - macrofauna 17 309 395
 - macrophytes 276
 - Mersey 309
 - metabolism 276
 - Mytilus 334
 - New Zealand 25
 - nitrogen fixation 25
 - nutrients 25
 - organic 309
 - primary 276
 - productivity 276
 - Puget 17
 - pulp mill 334
 - Sea 309
 - seasons 276 309 395
 - sediments 17 25
 - sewage 17 25 276
 - slaughterhouse 25
 - Sound 17
 - Spain 334
 - stress 334
 - Ulvales 334
 - Waimea 25
 - Washington 17
 - wastes 25 309 334
- intracellular**
 - chemostat 169
 - growth rates 169
 - hydrology 100
 - model 100 169
 - nitrogen 100 169
 - nutrients 100
 - phosphorus 100
 - phytoplankton 169
 - transport 100
- invertebrates**
 - abundance 383
 - algae 443
 - alkalinity 383
 - amino acids 528
 - amphipods 12
 - Apalachee 191
 - assay 383
 - Bay 12 191 433
 - benthic 12 106 191 331 433 528
 - birds 443
 - Capitella capitata 12
 - Clyde 443
 - conference 528
 - cycles 528
 - Damariscotta 106
 - detritus 528
 - distribution 383
 - diversity 17

DO 106
 Estuary 106 443
 feeding grounds 443
 fish 17 106 528
 fisheries 528
 Florida 191 433
 growth rates 106
 Hillsborough 433
 indicator species 12 191 331 383
 intertidal 17 443
 Kiel 12
 laboratory culture 106
 Lake 383
 larvae 106
 macrofauna 17
 Maine 106
 management 528
 Massachusetts 331
 microbes 528
 mud flats 191
 nematodes 331
 nitrogen 528
 nutrients 383 528
 oil 528
 organisms 528
 oyster reefs 191
 Penobscot 106
 pesticides 528
 pH 383
 phosphorus 528
 plankton 383
 polychaetes 12
 Pontchartrain 383
 predictions 433
 primary 383
 productivity 383
 Puget 17
 pulp mill 191
 runoff 383
 salinity 106 383
 seagrass 191 528
 seasons 331
 sediments 17 106 433
 settlement 106
 sewage 12 17 331 433
 Sheepscot 106
 silica 528
 Sound 17
 stress 528
 temperature 106

tertiary 433
 trace metals 528
 urea 528
 Washington 17
 wastes 191
 wetlands 528
 Woods Hole 331
 zooplankton 528

ion exchange
 ammonia 273
 fertilizer 273
 phosphate 273
 secondary 273
 sewage 273

Ireland
 algae mats 130
 Estuary 130
 mud flats 130
 nutrients 130
 organic 130
 Rogerstown 130
 wastes 130

Irish
 distribution 309
 Estuary 309
 intertidal 309
 macrofauna 309
 Mersey 309
 organic 309
 Sea 309
 seasons 309
 wastes 309

iron
 alkalinity 293
 ammonia 293
 Bay 45 293 485
 benthic 137
 Bothnia 137
 Chesapeake 45 293 485
 chloride 293
 chlorinated hydrocarbons 137
 DIP 45
 dissolved solids 137
 distribution 293
 DO 137
 Estuary 492 493
 Gulf 137
 hydrology 137
 interstitial 45 46 293 485
 macrofauna 137

- manganese 293
- methods 46 485 493
- North Carolina 492 493
- nutrients 137
- oil 137
- orthophosphate 46
- oxidation 46
- oxidation rates 485
- Pamlico 492 493
- pesticides 137
- pH 293
- phosphate 293 492
- phosphorus 137 493
- phytoplankton 137
- primary 137
- productivity 137
- redox potential 293
- salinity 492
- seasons 293
- sediments 137 492 493
- silica 293
- sulfate 293
- suspended solids 492
- symposium 137
- trace metals 137
- wastes 137
- zooplankton 137
- isopleths**
 - Estuary 223
 - model 223
 - nonpoint sources 223
 - nutrients 223
 - phosphorus 223
 - Potomac 223
 - processes 223
 - runoff 223
 - spatial distribution 223
 - temporal distribution 223
 - transport 223
 - wastes 223
- isotope**
 - carbon 449
 - distribution 449
 - Estuary 449
 - Potomac 449
- Italy**
 - chemical 359
 - Hymeniacidon sanguinea* 359
 - indicator species 359
 - industry 359
- Porifera** 359
- sewage 359
- wastes 359
- Jamaica**
 - Bay 262 353
 - BOD 353
 - coliforms 353
 - DO 353
 - hydrology 262
 - model 262 353
 - New York 262 353
 - nitrogen 353
 - phosphorus 353
 - salinity 353
 - transport 262
 - two dimensional 262 353
- James**
 - alkalinity 47 380
 - Bay 173 380 495
 - bibliography 30
 - BOD 495
 - carbon 27 495
 - Chesapeake 173 380 495
 - Chickahominy 173
 - chlorophyll 47 495
 - coliforms 380
 - DC 380
 - DO 47 380 495
 - Elizabeth 327
 - Estuary 27 30 47 173 327 380 495
 - Harbor 327
 - industry 327 380
 - inorganic 27
 - linear regression 173
 - Little Creek 327
 - Lynnhaven 327
 - management 327
 - Maryland 380
 - microbes 27
 - model 27 327
 - Nansemond 327
 - nitrate 27 380
 - nitrite 27
 - nonpoint sources 327
 - NO₂ 47
 - NO₃ 47
 - nutrients 173 380 495
 - organic 27
 - Pagan 327
 - Patuxent 173 380 495

- pesticides 380
- pH 47 380
- phosphate 27 380
- phosphorus 47
- phytoplankton 27 47
- PN 47
- Poquoson 327
- Potomac 173 380 495
- predictions 27 327
- processes 27
- Rappahannock 173 380 495
- salinity 47
- Schofield 27
- seasons 173
- sediments 380
- sewage 27 327 380
- stochastic 27
- Susquehanna 173 380 495
- temperature 27 47
- trace metals 380
- Virginia 27 380
- wastes 327 380
- watersheds 173 380
- York 173 327 380 495
- Japan**
 - ammonia 190
 - Bay 190 322 488
 - benthic 338
 - biomass 445
 - bloom 445
 - BOD 349
 - chlorophyll 322
 - COD 338 349
 - crustaceans 338
 - denitrification 190
 - deoxygenation 349
 - diatoms 445
 - fisheries 338 488
 - industry 488
 - Mangoku 190
 - microbes 445
 - model 338
 - nitrogen 338
 - nutrients 322 445
 - N15 190
 - oil 338
 - organic matter 338
 - phytoplankton 322
 - PON 190
 - primary 445
- productivity** 445
- pulp mill 488
- Sea 338 445
- sediments 190 338
- self purification 349
- Seto 338
- sewage 338 488
- Simoda 190
- sulfate 338
- sulfide 338
- Suruga 488
- TOC 349
- TOD 349
- Tokyo 190
- Ura 190
- Uranouchi 322
- wastes 322 488
- winter 445
- Jordan**
 - Aqaba 146
 - calcium 146
 - Gulf 146
 - phosphate 146
 - sewage 146
- juveniles**
 - east coast 77
 - fisheries 77
 - salinity 77
 - temperature 77
 - zooplankton 77
- Kaneohe**
 - ammonia 466
 - ammonium 188
 - Bay 64 65 94 182 188 200 330 392 466
 - biomass 65 200 466
 - C/N 188
 - Chaetodon miliaris 392
 - chlorophyll 64 65
 - coliforms 94
 - coral 182
 - detritus 65
 - diversity 94
 - DON 466
 - DPO 466
 - economics 94
 - excretion rates 466
 - fish 392
 - fisheries 94
 - growth rates 188 392

- Hawaii 64 65 94 182 188 200 330
 392 466
 metabolism 466
 microbes 182
 microcopepods 330
 model 64
 nitrate 64 188
 nitrogen 65 94 330
 nitrogen fixation 182
 P/B 330
 phosphate 64 466
 phosphorus 94
 phytoplankton 64 65 188
 PN 200
 POC 65
 primary 64
 productivity 64 330
 recreation 94
 reproduction 392
 secondary 182 330
 sediments 182
 sewage 64 94 182 188 330 392
 size composition 200
 size dependent 466
 succession 200
 uptake rates 188
 urea 188
 zooplankton 200 392 466
- kelp
 ammonium 522
 boundary layer 522
 carbon 522
 cycles 522
 growth rates 522
 industry 232
 K_s 522
Macrocystis 522
 macroinvertebrates 232
 metals 232
 morphology 522
 nitrogen 522
 North 232
 nutrients 522
 primary 522
 productivity 522
 Sea 232
 sewage 232
 succession 232
 V_m 522
 wastes 232
- Kiel
 water velocity 522
- kinetics
 Bayou 313
 dissolved solids 313
 DO 313
 glucose 313
 microbes 313
 nutrients 313
 phosphate 313
 productivity 313
 redox potential 313
 sediment water 313
- Klebsiella pneumoniae*
 acetylene 25
 cannery 25
 Inlet 25
 intertidal 25
 New Zealand 25
 nitrogen fixation 25
 nutrients 25
 sediments 25
 sewage 25
 slaughterhouse 25
 Waimea 25
 wastes 25
- Korea
 Bay 238
 Chinhae 238
 disease 238
 fertilizer 238

- P**orphyra 238
 primary 238
 productivity 238
 wastes 238
- Ks**
 alkaline phosphatase 468 482
 ammonia 62
 ammonium 482 522
 Bay 468 469
 biomass 62
 boundary layer 522
 C/N 62 482
 California 62
 carbon 482 522
 carbon/chlorophyll 62
 Chesapeake 468 469
 chlorophyll 482
 cycles 522
 diurnal 62 482
 DOP 469
 growth rates 522
 kelp 522
Macrocystis 522
 morphology 522
 nitrate 482
 nitrogen 62 482 522
 nutrients 62 522
 N15 62
Olisthodiscus luteus 482
 orthophosphate 469
 phosphomonoester 468
 phosphorus 468 482
 phytoplankton 62 468 469
 polyphosphate 469
 primary 62 522
 productivity 62 522
 P32 469
 sewage 62
 turnover rates 469
 uptake rates 482
 urea 62
 Vm 62 468 469 522
 water velocity 522
- Kungsbackafjorden**
 benthic 352
Byfjorden 352
 crustaceans 352
 Estuary 352
 Gothenburg 352
 indicator species 352
- macrofauna 352
 meiofauna 352
 Saltkallefjord 352
 Sweden 352
 zooplankton 352
- laboratory culture**
 ammonia 5
 benthic 5 106
 crustaceans 260
Damariscotta 106
 diatoms 5
 DO 106
 Estuary 106
 fish 106
 growth rates 106
 invertebrates 106
 larvae 106
 Maine 106
 nitrate 5
 nitrite 5
 orthophosphate 5
 Penobscot 106
 primary 5
 productivity 5
 salinity 106
 sediments 106
 settlement 106
Sheepscot 106
 temperature 106
- Lagoon**
 agriculture 60
 algae mats 60
 Australia 60
 benthic 9
 California 155
 chlorophyll 155
 CO₂ 105
 distribution 155
 diversity 9 155
 DO 105
 flushing 155
 Gulf 155
 macrofauna 9
 model 105
 molluscs 9
 Orielton 60
 pH 105
 phytoplankton 155
 primary 155
 productivity 155

runoff 60
 salinity 60
 sewage 60 105
 Shannons Index 9
 stabilization 105
 Tasmania 60
 temperature 60 105
 tides 155
 wastes 105
Lagrangian multipliers
 dynamic programming algorithm
 240
 management 240
 model 240
Laita
 Estuary 98
 model 98
 pulp mill 98
 salmonids 98
Lake
 abundance 383
 alkalinity 383
 anaerobic 358
 assay 383
 benthic 358
 dehydrogenase 358
 distribution 383
 indicator species 383
 invertebrates 383
 metabolic heat release 358
 metabolism 358
 microcalorimetry 358
 nutrients 358 383
 organic matter 358
 organisms 358
 oxygen 358
 pH 383
 plankton 383
 Pontchartrain 383
 primary 383
 processes 358
 productivity 383
 Puget 358
 runoff 383
 salinity 383
 sediments 358
 Sound 358
 Washington 358
Laminaria
 carbon 70
 chlorophyll 70
 growth rates 70
 macrophytes 70
 nitrate 70
land development
 abundance 43
 agriculture 517
 Albemarle 43
 algae 216
 ammonia 43
 Bay 92
 bibliography 56 57 84
 Chesapeake 92
 chlorophyll 43
 clay 458
 DO 216
 dredging 96
 ecosystem 84
 Estuary 209 216
 eutrophication 56 57
 fertilizer 517
 fisheries 96
 flood control 96 517
 flux 458
 Harbor 458
 Hong Kong 458
 Hudson 209
 hydrology 43 517
 indices 92
 industry 517
 Louisiana 96
 management 96 209
 microbes 216
 nitrogen 43
 North Carolina 43 517
 nutrients 92 96 216 517
 pesticides 517
 phosphate 458
 phosphorus 43
 phytoplankton 43 96
 Potomac 216
 primary 43
 productivity 43
 Puget 84
 recreation 96 517
 resources 56 57 209 216 517
 runoff 96 216
 salinity 43 458
 sediments 458
 sewage 96

soil erosion 96
Sound 43 84
temperature 43
Tolo 458
trace metals 216
turbidity 43
viruses 216
Washington 84
wastes 216
watersheds 92 517
wetlands 96
landfill
 New York 340
 oil 340
 sewage 340
larvae
 benthic 106
 Damariscotta 106
 DO 106
 dredging 107
 Estuary 106
 fish 106
 growth rates 106
 invertebrates 106
 laboratory culture 106
 Maine 106
 Penobscot 106
 salinity 106
 sediments 106
 settlement 106
 Sheepscot 106
 temperature 106
 toxicity 107
 zooplankton 107
latitudinal gradients
 Acartia 227
 Balanus 227
 Bay 227
 bloom 227
 Estuary 227
 Eurytemora 227
 Narragansett 227
 New Jersey 227
 nutrients 227
 organic matter 227
 phytoplankton 227
 Raritan 227
 Rhode Island 227
 salinity 227
 seasons 227
Virginia 227
wastes 227
York 227
zooplankton 227
leaves
 Broad River 292
 detritus 292
 Estuary 292
 fertilizer 292
 Florida 292
 mangroves 292
 pesticides 292
 Shark 292
 trace metals 292
Lebanon
 abundance 472
 diversity 472
 indicator species 472
 nutrients 472
 phytoplankton 472
 sewage 472
life cycles
 algae 248
 benthic 248
 Oslofjord 248
 seasons 248
 spatial distribution 248
 temporal distribution 248
light
 algae 448
 ammonium 31
 assay 448
 Australia 424
 Bay 448
 benthic 542
 benthic oxygen demand 420 542
 Bermuda 24
 biomass 336
 bloom 24 521
 BOD 36
 carbon 542
 chlorophyll 174 424
 Chlorophyta 31
 coliforms 542
 Columbia 175
 community structure 174
 deoxygenation 542
 detritus 424
 DO 36 174 542
 Duwamish 521

- Estuary 31 174 175 336 521
Eurytemora 175
fish 542
freshwater 420
Grevelingen 336
Hacking 424
heat 542
Hudson 31
hydrology 174 420 424 448 521
ice 542
linear regression 175
macrophytes 24
methods 424 542
microflagellates 174
model 420 542
NaCl 36
nanoplankton 174
Netherlands 336
nitrate 31 175
nutrients 24 336 448 521 542
one dimensional 420
Oregon 175 448
organisms 542
Periphyton 521
phosphate 175
phytoplankton 31 174 175 424 521
542
Port 424
primary 24 174 336 542
productivity 24 174 336 542
rate constants 542
reaeration 542
runoff 420 424
salinity 174
salts 36
seasons 175 448 521
sediments 36 424
sewage 448
silica 175
Skeletonema 31
spatial distribution 542
stochastic 420
suspended solids 36 424
temperature 36 174 420 448
temporal distribution 542
turbidity 36 420
uptake rates 31
water velocity 336
Yaquina 448
York 174
zooplankton 175 542
Zostera marina 336
Limacina retroversa
Bay 524
bloom 524
dinoflagellate 524
Fundy 524
Gonyaulax excavata 524
herring 524
pteropods 524
Limnodrilus
benthic 539
bioturbation 539
BOD 539
Delaware 539
Estuary 539
fauna 539
oligochaetes 539
organic 539
sediments 539
wastes 539
linear regression
Bay 173
Chesapeake 173
Chickahominy 173
Columbia 175
Estuary 173 175
Eurytemora 175
James 173
light 175
nitrate 175
nutrients 173
Oregon 175
Patuxent 173
phosphate 175
phytoplankton 175
Potomac 173
Rappahannock 173
seasons 173 175
silica 175
Susquehanna 173
watersheds 173
York 173
zooplankton 175
Linnhe Eil
annelids 370
benthic 370
crustaceans 370
England 370
indicator species 370

- Loch 370
- molluscs 370
- pulp mill 370
- succession 370
- Little Creek**
 - Elizabeth 327
 - Estuary 327
 - Harbor 327
 - industry 327
 - James 327
 - Lynnhaven 327
 - management 327
 - model 327
 - Nansemond 327
 - nonpoint sources 327
 - Pagan 327
 - Poquoson 327
 - predictions 327
 - sewage 327
 - wastes 327
 - York 327
- Little River**
 - Australia 154
 - biomass 154
 - chlorophyll 154
 - DO 154
 - Estuary 154
 - hydrology 154
 - H3 154
 - phosphorus 154
 - phytoplankton 154
 - primary 154
 - productivity 154
 - P32 154
 - salinity 154
 - temperature 154
 - zooplankton 154
- Liverpool**
 - Bay 23 199
 - coliforms 23
 - DIN 199
 - DRP 199
 - Great Britain 23 199
 - long term 199
 - nitrogen 199
 - phosphorus 199
 - seasons 199
 - sewage 23
 - tracer 23
- local**
- agencies 14 61 159
- Bay 61 297
- Chesapeake 297
- cycles 297
- dredging 14
- federal 484
- Florida 14
- management 61 159 484
- microbes 297
- nitrogen 297
- nutrients 297
- participation 61
- phosphorus 297
- phytoplankton 297
- public opinion 61 159
- rainfall 297
- resources 159
- San Francisco 61
- sediments 297
- sewage 14
- state 14 159 484
- symposium 297
- uptake rates 297
- vertical transport 297
- wetlands 14
- zooplankton 297
- Loch**
 - annelids 370
 - benthic 370 393
 - carbon 454
 - chlorophyll 454
 - Craiglin 171 393
 - crustaceans 370
 - density 393
 - DO 171
 - England 370
 - fauna 393
 - fertilizer 171 393
 - fish 171
 - flounder 171
 - growth rates 171
 - Hydrobia ulvae 393
 - indicator species 370
 - Linnhe Eil 370
 - molluscs 370
 - Nevis 454
 - nitrate 454
 - North 454
 - phosphate 454
 - POC 454

productivity 393 454
 pulp mill 370
 Scotland 454
 Sea 454
 sexual maturity 171
 succession 370
Long
 growth rates 39
 Harbor 39
 indicator species 39
 molluscs 39
 Newfoundland 39
 phosphorus 39
Long Island
 cobalamin 509
 DOM 404
 microbes 404
 nutrients 509
 organic aggregates 404
 orthophosphate 509
 phytoplankton 404 509
 POM 404
 seasons 404 509
 Sound 404 509
 thiamine 509
 zooplankton 404
long term
 abundance 120
 algae 120
 Bay 199
 benthic 120
 diatoms 153
 DIN 199
 distribution 153
 diversity 120
 DRP 199
 Great Britian 120 199
 Liverpool 199
 nitrogen 199
 North 153
 phosphorus 199
 phytoplankton 153
 reproduction 120
 Sea 153
 seasons 120 199
 temperature 153
 wastes 120
 zooplankton 153
longitudinal
 density 530
 dispersion 530
 dye 530
Estuary 530
hydrology 530
 mixing 530
 model 530
 point sources 530
 vertical shear 530
 York 530
Los Angeles
 algae 400
 benthic 400 447
 bioenhancement 447
 biomass 447
 California 400 447
 cannery 447
 diversity 447
 DO 447
 fish 447
 Harbor 400 447
 indicator species 400
 oil 400
 oligochaetes 400
 organisms 447
 plankton 447
 polychaetes 400
 productivity 447
 sewage 400 447
 wastes 400 447
Louisiana
 algae 442
 anaerobic 127
 Barataria 95
 Basin 95
 Bay 402
 COD 442
 denitrification 127
 diffusion 127
 DO 126
 dredging 96
Estuary 402
 fisheries 95 96
 flood control 96
 floodwaters 127
 Florida 402
 freshwater 402
 industry 442
 land development 96
 management 96 402
 marshes 126 442

- microbes 442
- nitrate 126 127
- North Carolina 402
- nursery grounds 95
- nutrients 95 96 402 442
- Palm 402
- phytoplankton 96
- radioactivity 402
- recreation 96
- redox potential 126 127
- runoff 96 402 442
- salinity 95
- Santee 402
- sediments 126
- sewage 96 442
- soil erosion 96
- South Carolina 402
- swamps 402
- TOC 442
- wastes 442
- wetlands 95 96 402
- Lynnhaven
 - Elizabeth 327
 - Estuary 327
 - Harbor 327
 - industry 327
 - James 327
 - Little Creek 327
 - management 327
 - model 327
 - Nansemond 327
 - nonpoint sources 327
 - Pagan 327
 - Poquoson 327
 - predictions 327
 - sewage 327
 - wastes 327
 - York 327
- macroalgae
 - algae bluegreen 335
 - Baltic 335
 - benthic 335
 - detergent 335
 - DO 335
 - energy transfer 335
 - fish 335
 - indicator species 335
 - model 335
 - organisms 335
 - primary 335
 - productivity 335
 - Sea 335
 - sewage 335
 - symposium 335
 - zooplankton 335
- Macrocystis*
 - ammonium 522
 - boundary layer 522
 - carbon 522
 - cycles 522
 - growth rates 522
 - kelp 522
 - K_s 522
 - morphology 522
 - nitrogen 522
 - nutrients 522
 - primary 522
 - productivity 522
 - V_m 522
 - water velocity 522
- macrofauna
 - algae 72
 - analysis of variance 395
 - Bathyporia sarsi* 11
 - Bay 11 72 76
 - benthic 9 11 72 76 137 352 356 395 409
 - biomass 409
 - Bothnia 137
 - Byfjorden 352
 - cannery 76
 - Capitella capitata* 11
 - Chesapeake 72
 - chlorinated hydrocarbons 137
 - community structure 11
 - crustaceans 352
 - disease 356
 - dissolved solids 137
 - distribution 309
 - diversity 9 17 395 409
 - DO 72 137
 - energy transfer 72
 - Estuary 309 352
 - Firth of Forth 395
 - fish 17 356
 - foraminifera 72
 - Gothenburg 352
 - Gulf 137
 - hydrology 137
 - indicator species 352

indices 395
 intertidal 17 309 395
 invertebrates 17
 Irish 309
 iron 137
 Kiel 11
 Kungsbackafjorden 352
 Lagoon 9
 macrophytes 72
 meiofauna 352
 Mersey 309
 microbes 72
 Mississippi 356
 molluscs 9
 nutrients 72 137
 oil 137
 oligochaetes 11
 organic 309
 parasites 356
 pesticides 137 356
 phosphorus 137
 phytoplankton 72 137
 primary 137
 productivity 137
 Puget 17
 pulp mill 409
Pygospio elegans 11
 Saldanha 76
 Saltkallefjord 352
 Sea 309
 seasons 309 395
 sediments 17 137
 sewage 11 17 72 356
 Shannons Index 9
 Sound 17
 South Africa 76
 succession 409
 Sweden 352
 symposium 137
 trace metals 72 137 356
 Washington 17
 wastes 76 137 309
 zooplankton 72 137 352
macroinvertebrates
 ammonia 314
 Bayou 314
 calorific content 277
 DO 314
 Florida 314
 industry 232
 kelp 232
 macrophytes 277
 metals 232
 nitrate 314
 North 232
 phosphate 314
 phytoplankton 314
 Sea 232
 sewage 232 277
 succession 232
 Texar 314
 TOC 314
 wastes 232
 zooplankton 314
macrophytes
 aerobic 537
 algae 72 537
 algae bluegreen 247
 ammonia 157 247
 Baule Mitschlerlich 511
 Bay 52 72
 benthic 72 333 511 529 540
 Bermuda 24
 biomass 52 247 537
 bloom 24 537
 British Columbia 247
 C/N 333
 California 276
 calorific content 277
 Canada 52
 carbon 70
 Chesapeake 72
 chlorophyll 70
 CO₂ 537
 cycles 247
 C₁₄ 537
 denitrification 157
 density 537
 detritus 537
 DO 72
 Econfina 540
 energy transfer 72 276
 Estuary 103 540
 eutrophic 157
 fauna 276
 foraminifera 72
 Great Britian 529
 growth rates 70
 indicator species 529
 intertidal 276

Laminaria 70
 light 24
 macrofauna 72
 macroinvertebrates 277
 metabolism 276
 microbes 72 247 537
 model 157
 nitrate 70 157
 nitrification 157
 nitrogen 157 247
 nutrients 24 72 511
 organic 157
 organic matter 157
 Pamlico 103
Phaeophyta 333
 phosphate 52 247
 phosphorus 247
 phytoplankton 72 157 511
 primary 24 276 511
 processes 157
 productivity 24 276 511
 Quinte 52
 seasons 103 276
 sediments 247 537
 sewage 52 72 276 277
 Spain 333
 Tenholloway 540
 tertiary 52
 trace metals 72
 turbidity 511
 turnover rates 537
 uptake rates 157 537
 Vm 537
 water column 537
 zooplankton 72 157

Maine
 benthic 106
Damariscotta 106
 DO 106
 Estuary 106
 fish 106
 growth rates 106
 invertebrates 106
 laboratory culture 106
 larvae 106
Penobscot 106
 salinity 106
 sediments 106
 settlement 106
Sheepscot 106

temperature 106
Malagasy Republic
 Bay 147
Cladocera 147
Evdne tergestina 147
 Nosy Be 147
Penilia avirostris 147
 phytoplankton 147
 rainfall 147
 seasons 147
 tropical 147
 zooplankton 147

Malpeque
 abundance 499
 Bay 499
 carbon 499
 cycles 499
 microbes 499
 nitrogen 499
 oysters 499
 phosphorus 499
 productivity 499

management
 aerobic 183
 agencies 61 159
algae bluegreen 215
 amino acids 528
 Bay 61 73 74 231 402 429
 benthic 508 528
 bibliography 73 325 435
 biomass 231
 BOD 109
 chemical 109 428
Chesapeake 73 74 429
 chlorinated hydrocarbons 491
 chlorophyll 215
 coliforms 183
 conference 528
 crabs 231
 cycles 183 428 528
Delaware 109 411
 detritus 528
 directory 73
 dredging 96 498
 dynamic programming algorithm
 240
 economics 85 217 491 494 498 508
 Elizabeth 327
 energy transfer 231
Estuary 53 109 183 209 215 217

327 402 411
 eutrophication 73 325 435
 federal 484
 fish 231 515 528
 fisheries 74 96 291 398 411 494
 498 528
 flood control 96
 Florida 402
 freshwater 231 402
 Galveston 231
 global 490
 Great Britain 85
 Harbor 327
 Hudson 209
 hydrology 183 491 515
 industry 109 205 327 498 508
 invertebrates 528
 James 327
 Lagrangian multipliers 240
 land development 96 209
 Little Creek 327
 local 61 159 484
 Louisiana 96 402
 Lynnhaven 327
 Mediterranean 491
 methods 435
 microbes 183 491 528
 model 109 183 205 231 240 327
 411 515
 monitoring 490
 municipal 109
 Nansemond 327
 nitrogen 183 528
 nonpoint sources 327
 North 411
 North Carolina 402
 nutrients 96 215 217 402 428 471
 491 494 498 515 528
 oil 491 528
 organisms 508 528
 oysters 471
 Pagan 327
 Palm 402
 participation 61
 pesticides 435 508 528
 phosphorus 528
 phytoplankton 96 411 515
 plants 508
 Poquoson 327
 Potomac 53 183 215 217
 power plant 498
 predictions 183 327
 primary 515
 processes 183
 productivity 231 428 515
 public opinion 61 159 429 498
 508
 Puget 515
 radioactivity 402 491
 real time 183
 recreation 96 508
 research 490
 resources 159 209 398 429 490
 491 494 498
 runoff 96 205 402
 salinity 231 471
 San Francisco 61
 Santee 402
 Scotland 83
 Sea 411 491
 seagrass 528
 secondary 231
 sediments 491
 self purification 83
 sewage 96 215 327 471
 shrimp 231
 silica 528
 soil erosion 96
 Sound 515
 South Carolina 402
 state 159 484
 stochastic 205
 stress 528
 succession 411 515
 swamps 402
 symposium 494 498
 tertiary 508
 Texas 231
 thermal 435
 three dimensional 515
 tides 183
 trace metals 435 491 528
 Transient Water Quality Network
 183
 trophic levels 515
 urea 528
 Washington 515
 wastes 109 327 508
 wetlands 96 402 528
 York 327

- zooplankton 528
- manganese**
 - alkalinity 293
 - ammonia 293
 - Bay 207 293
 - Chesapeake 207 293
 - chloride 293
 - dissolved 207
 - distribution 293
 - DOC 416
 - inorganic 416
 - interstitial 207 293
 - iron 293
 - model 207
 - nutrients 416
 - pH 207 293
 - phosphate 293
 - phytoplankton 416
 - primary 416
 - productivity 416
 - redox potential 293
 - seasons 293
 - sewage 416
 - silica 293
 - steady state 207
 - sulfate 293
- Mangoku**
 - ammonia 190
 - Bay 190 252
 - denitrification 190
 - Japan 190
 - microbes 252
 - nitrate 252
 - nitrification 252
 - N15 190 252
 - Odawa 252
 - PON 190
 - reduction 252
 - sediments 190 252
 - Simoda 190
 - Tokyo 190
 - Ura 190 252
 - Zostera 252
- mangroves**
 - Broad River 292
 - denitrification 326
 - detritus 292
 - Estuary 292
 - fertilizer 292
 - Fiji Island 326
 - Florida 292
 - inorganic 326
 - leaves 292
 - microbes 326
 - nitrogen 326
 - pesticides 292
 - secondary 326
 - sediments 326
 - sewage 326
 - Shark 292
 - tertiary 326
 - trace metals 292
- marina**
 - flushing 437
 - indices 437
 - model 437
 - nomogram 437
 - sediments 437
- marine pollution**
 - international 281
 - symposium 281
- Marseilles**
 - benthic 234
 - detergent 234
 - France 234
 - Gulf 234
 - organisms 234
 - Posidonia oceanica* 234
 - seagrass 234
 - sewage 234
- marshes**
 - algae 339 442
 - alkalinity 149
 - ammonia 177
 - ammonium 210
 - ATP 193
 - bacteria 339
 - barnacles 507
 - Bay 22
 - biomass 339
 - birds 339
 - cadmium 210
 - calcium 339 461
 - carbohydrates 193
 - carbon 21 22 192 193 339
 - Carter 21
 - Chesapeake 22
 - chlorophyll 193
 - COD 442
 - Creek 21

crude fiber 193
 crustaceans 339
 cycles 21
 detritus 22 75 192
 DO 126
 DON 177
 energy transfer 75 192
 Estuary 158 192 193 507
 fish 339
 flux 22
 foraminifera 339
 Georgia 59 177
 heterotrophic 339
 history 158
 industry 442
 insects 339
 Louisiana 126 442
 Maryland 192 193
 meiofauna 339
 microbes 59 75 442
 model 75 507
 molluscs 339
 mussels 507
 New Jersey 390
 nitrate 126 177
 nitrite 177
 nitrogen 21 22 193 210 339 461
 North Inlet 507
 nutrients 75 149 192 210 442
 oysters 507
 Patuxent 192 193
 Pb210 158
 phosphorus 21 22 149 193 210 339
 461
 phytoplankton 339 507
 plants 461
 plutonium 158
 PON 177
 pond experiment 339
 pools 177
 potassium 461
 primary 21 22 192 390 507
 processes 507
 productivity 21 22 192 339 390
 507
 records 158
 redox potential 126
 runoff 442
 Savannah 158
 sediment water 21
 sediments 59 126 149 158 210 461
 sewage 339 442
 silica 149
 South Carolina 149
 Spartina 75
Spartina alterniflora 390
 suspended solids 59
 tertiary 339
 tidal creek 177
 tides 22 210 507
 TOC 442
 trace metals 149 210
 Virginia 21
 vitamin B12 59
 Ware 21
 wastes 442
 water column 507
 wetlands 192
 zinc 210
 Maryland
 algae 430
 alkalinity 380
 ammonia 430
 ATP 193
 Bay 380 451
 bibliography 451
 biomass 304
 carbohydrates 193
 carbon 192 193 195
 Chesapeake 380 451
 chlorophyll 193 350
 Chlorophyta 430
 coliforms 380
 Copepoda 195
 crude fiber 193
 crustaceans 195
 Cyanophyta 430
 DC 380
 detritus 192 195
 diurnal 93
 DO 93 304 380
 dye 68
 energy transfer 192 195
 Estuary 93 192 193 195 304 350
 380 430
 Eurytemora affinis 195
 indices 350
 industry 380
 James 380
 marshes 192 193

methods 350
 microbes 195
 nitrate 380
 nitrogen 193
 nutrients 192 304 380
 outfall diffuser 68
 Patuxent 93 192 193 195 304 350
 380
 pesticides 380
 pH 380
 phosphate 380 430
 phosphorus 193 304
 phytoplankton 304
 Potomac 380 430
 primary 93 192 195 304
 productivity 93 192 195 304
 Rappahannock 380
 remote sensing 350
 respiration 93
 salinity 68
Scotlana canadensis 195
 secondary 430
 sediments 304 380
 sewage 68 93 380 430
 suspended solids 350
 Susquehanna 380
 temperature 68
 thermal 304
 trace metals 380
 Virginia 380
 wastes 380
 watersheds 380
 wetlands 192 195
 York 380
mass transfer
 interstitial 503
 model 503
 North 503
 Sea 503
 silica 503
 two layer 503
 zone 503
Massachusetts
 Bay 406
 benthic 10 331
 bloom 10
 Buzzards 406
 C/N 406
 chlorophyll 406
 cysts 10
 detritus 406
 dinoflagellate 10
 Estuary 82
Gonyaulax 10
 indicator species 331
 inorganic 161
 invertebrates 331
 nanoplankton 406
 nematodes 331
 nitrate 82
 nitrogen 161
 nutrients 82
 phosphate 82
 phytoplankton 82 161
 Pines 82
 POC 406
 PON 406
 pond experiment 161
 recreation 82
 red tide 10
 seasons 331 406
 sewage 82 161 331
 spores 10
Suagus 82
 suspended solids 406
 tertiary 161
 toxicity 10
Ulva 82
 Woods Hole 331
 zooplankton 406
Massartia rotundata
 Bay 287 365
 bloom 287
 chlorophyll 365
 energetics 365
 New York 287
Olisthodiscus luteus 287
 phytoflagellate 287
 plankton 365
 productivity 365
Prorocentrum micans 287
 Raritan 365
 respiration 365
 salinity 287
matrix
 Bay 372
Corpus Christi 372
 model 372
 nitrogen 372
 Texas 372

- Mediterranean**
 - chlorinated hydrocarbons 491
 - economics 491
 - hydrology 491
 - management 491
 - microbes 491
 - nutrients 491
 - oil 491
 - radioactivity 491
 - resources 491
 - Sea 491
 - sediments 491
 - trace metals 491
- meiofauna**
 - algae 256 339
 - bacteria 256 339
 - benthic 352
 - biomass 339
 - birds 256 339
 - Byfjorden 352
 - calcium 339
 - carbon 256 339
 - community structure 256
 - crustaceans 256 339 352
 - Estuary 352
 - fish 256 339
 - foraminifera 256 339
 - Gothenburg 352
 - heterotrophic 256 339
 - indicator species 352
 - insects 256 339
 - Kungsbackafjorden 352
 - macrofauna 352
 - marshes 339
 - metabolism 256
 - molluscs 256 339
 - nitrogen 256 339
 - phosphorus 256 339
 - phytoplankton 256 339
 - pond experiment 256 339
 - productivity 256 339
 - Saltkallefjord 352
 - sewage 256 339
 - Sweden 352
 - tertiary 339
 - zooplankton 352
- Mercenaria**
 - amino acids 225
 - carbohydrates 225
 - clams 225
- glycine** 225
- oil** 225
- sewage** 225
- stress** 225
- taurine** 225
- Mersey**
 - distribution** 309
 - Estuary** 309
 - intertidal** 309
 - Irish** 309
 - macrofauna** 309
 - organic** 309
 - Sea** 309
 - seasons** 309
 - wastes** 309
- metabolic heat release**
 - anaerobic** 358
 - benthic** 358
 - dehydrogenase** 358
 - Lake** 358
 - metabolism** 358
 - microcalorimetry** 358
 - nutrients** 358
 - organic matter** 358
 - organisms** 358
 - oxygen** 358
 - processes** 358
 - Puget** 358
 - sediments** 358
 - Sound** 358
 - Washington** 358
- metabolism**
 - aerobic** 58
 - algae** 256
 - ammonia** 466
 - anaerobic** 58 358
 - assay** 58
 - autotrophic** 86
 - bacteria** 256
 - Bay** 86 224 466
 - benthic** 224 358
 - biomass** 466 525
 - birds** 256
 - California** 276
 - carbon** 256
 - community structure** 88 256
 - Connecticut** 58
 - Copps Brook** 58
 - crustaceans** 256
 - cycles** 224

degradation 58
 dehydrogenase 358
 diversity 88
 DOC 58
 DON 466
 DPO 466
 energy transfer 276 534
 excretion rates 466
 fauna 276
 fish 88 256 534
 foraminifera 256
 freshwater 86
 Georgia 386
 growth rates 534
 Hawaii 466
 heterotrophic 86 256
 hydrology 224
 industry 86 452
 insects 256
 interstitial 58
 intertidal 276
 Kaneohe 466
 Lake 358
 macrophytes 276
 meiofauna 256
 metabolic heat release 358
 microbes 58 525
 microcalorimetry 358
 microcosms 86
 model 58 386
 molluscs 256
 mussels 162
 New Jersey 224
 nitrate 224
 nitrogen 162 256
 nutrients 58 86 88 162 358
 organic 162
 organic matter 58 358
 organisms 358
 oxygen 358
 PHB 525
 phosphate 162 224 466
 phosphorus 256 386
 phytoplankton 86 256
 POC 58
 poly B hydroxybutyrate 525
 pond experiment 256
 populations single 452
 primary 86 276
 processes 224 358 386
 productivity 86 256 276 534
 Puget 358
 Raritan 224
 respiration 86
 seasons 224 276 386
 sediment water 386
 sediments 58 358 525
 sewage 256 276
 size dependent 466
 Sound 358
 stress 88 452 534
 tetrazolium salt 58
 Texas 86 88
 TLm 452
 Trinity 86
 USSR 162
 Washington 358
 wastes 86 452
 watersheds 58
 zooplankton 86 88 466
metals
 industry 232
 kelp 232
 macroinvertebrates 232
 North 232
 Sea 232
 sewage 232
 succession 232
 wastes 232
methane
 argon 396 397
 Bay 396 397
 bubbles 396
 Chesapeake 396 397
 CO₂ 396 397
 H₂S 396
 nitrogen 396 397
 seasons 397
 sediment water 396
 sediments 397
methianine
 biosorption 543
 C₁₄ 543
 fish 543
 urea 543
methods 476
 acid extraction 206
 agencies 18
 Aisne 35
 algae 351 418

- algae colonial 152
 amino acids 456
 ammonia 123 165 180
 ammonium 228
 animals 399
 assay 351 399 418
 ATP 135 206 465
 Australia 424
 bacteria 456
 bacteria proteolytic 456
 bacterioplankton 114
 batch culture 418
 Bay 18 228 296 465 485
 benthic 542
 benthic oxygen demand 542
 bibliography 213 435 436
 biomass 296
 buoys 37
 C/N 465
 California 37
 carbohydrates 456
 carbon 35 135 542
 ceramic panel substrates 37
 charcoal adsorption 206
 chemical 179
 Chesapeake 18 296 485
 chlorinated hydrocarbons 37
 chlorophyll 296 350 424
 coliforms 542
 community structure 483
 C14 152 456
 deoxygenation 542
 detergent 436
 detritus 424
 dispersion 37
 DO 213 272 542
 dry weight 489
 economics 37
 enzymes 165
 Estuary 35 135 249 350 426 493
 eutrophication 213 435
 exchange diffusion 123
 fauna 18 456
 fish 542
 fisheries 465
 flora 18
 France 35
 fungus 456
 Hacking 424
 heat 542
 heterotrophic 456
 hydrology 399 424
 ice 542
 indicator species 399
 indices 350 456
 instruments 272 436
 interference 54
 interstitial 46 485
 iron 46 485 493
 light 424 542
 management 435
 Maryland 350
 microbes 135 179 399 456
 model 114 436 542
 mucus 152
 nanoplankton 296
 New Jersey 426
 New York 426
 Newport 135
 nitrate 54 123 228 235
 nitrite 228
 nitrogen 35 228
 North Carolina 135 493
 nutrients 249 271 436 465 542
 N14 118
 N15 118
Obelia dichtoma 37
 oil 399 436 456
 organic 135
 organisms 542
 orthophosphate 46 228
 oxidation 46
 oxidation rates 35 485
 Pamlico 493
 Patuxent 350
 PC 465
 percolator 165
 pesticides 435 436
 phosphate 123
 phosphorus 228 493
 phytoplankton 114 296 424 456
 542
 PN 465
 Port 424
 primary 152 296 465 483 542
 processes 456
 productivity 37 114 152 296 465
 542
 pulp mill 456
 Raritan 426

- rate constants 542
- reaeration 542
- recipient analog 483
- remote sensing 350
- removal 271
- runoff 424 465
- salinity 456
- sampling frequency 249
- San Francisco 228
- seasons 135
- secondary 118 123 483
- sediment water 179
- sediments 135 165 206 424 493
- Seine 35
- sewage 37 271 418 456 483
- silica 152
- spatial distribution 426 542
- Squamish 249
- St Margaret 465
- sulfate 165
- suspended solids 350 424 465 489
- symposium 456
- temperature 35
- temporal distribution 426 542
- tertiary 483
- thermal 213 435 456
- trace metals 37 213 426 435 436
- 456
- tris extraction 206
- urea 165
- uv/resin 54
- wastes 118 123 399
- zooplankton 296 542
- Meydenbauer
 - Bay 425
 - San Diego 425
 - sewage 425
 - water craft 425
 - Wollochet 425
- Michaelis Menton
 - Agnes 415
 - Bay 71 415
 - BOD 71
 - Chesapeake 415
 - chlorophyll 415
 - diatoms 347
 - distribution 71
 - DO 71
 - Estuary 415
 - filter feeders 347
 - flagellates 347
 - Hurricane 415
 - hydrology 71
 - model 71 347 415
 - nitrogen 415
 - nutrients 71
 - pH 71
 - phosphorus 415
 - phytoplankton 71 415
 - quasi linear 415
 - salinity 71
 - San Francisco 71
 - seasons 71
 - silica 347
 - Susquehanna 415
 - temperature 71
 - time constants 347
 - wastes 415
 - zooplankton 347
- microbes
 - abundance 167 499
 - aerobic 58 122 183 537
 - Alaska 319
 - algae 72 133 216 343 442 537
 - algae bluegreen 247 254 533
 - alkaline phosphatase 142 470
 - amino acids 456 528
 - ammonia 203 247 487
 - anaerobic 58
 - animals 399
 - annelids 167
 - arctic 319
 - assay 58 399
 - ATP 135 275
 - bacteria 456
 - bacteria proteolytic 456
 - Bay 72 133 141 182 252 297 417
 - 423 470 499
 - Bayou 313
 - benthic 72 319 528
 - Bight 275
 - biomass 133 167 203 247 275 332
 - 445 525 533 537
 - black necrosis 2
 - bloom 275 445 533 537
 - BOD 487 541
 - British Columbia 247
 - Burry Inlet 2
 - cadmium 275
 - Cancer 139

- carbohydrates 456
 carbon 27 135 195 220 499
Ceratium 275
 chemical 16 20 179 516
 Chesapeake 72 133 141 297 417
 chlorinated hydrocarbons 491
 chlorophyll 220 423 470
 Chowan 533
 clay 385
 COD 442
 coliforms 122 183
 conference 528
 Connecticut 58
 Cook 319
 Copepoda 195
 Copps Brook 58
 coral 182
 CO₂ 220 537
 crabs 139
Crangon crangon 2
 crustaceans 195
Cyanophyta 254
 cycles 183 247 297 499 528
 C₁₄ 456 537
 decomposition 299
 degradation 58
 denitrification 326
 density 537
 deposition 328
 detergent 2
 detritus 75 195 328 528 537
 diagenesis 502
 diatoms 445
 dissolved solids 313
 distribution 417 470
 diversity 167 533
 DNA 470
 DO 2 72 216 220 313 319 332 541
 Doboy 385
 DOC 58
 DOM 404
 economics 491
 eggs 139
 electron transfer 299
 energy transfer 72 75 141 195
 299
 enzymes 470
 epibiotic fouling 139
 Estuary 27 133 135 141 167 183
 195 203 216 220 328 423 533
Eurytemora affinis 195
 eutrophic 20
 fatty acids 423
 fauna 167 456
 Fiji Island 326
 fish 516 528
 fish kills 254
 fisheries 528
 flux 385
 food processing 516
foraminifera 72
 fungus 456 501
gastrotrichs 167
 Georgia 59 385
 glucose 313
 Great Britain 2 167
 growth rates 299
 Harbor 20
 Hawaii 182
 heat 141
 heterotrophic 456
 heterotrophic potential 500
 hosts 254
 hydrology 20 141 183 399 491
 indicator species 254 399 417
 indices 16 220 456 470
 industry 275 442 516
 Inlet 319
 inorganic 27 203 326 385
 interstitial 58
 invertebrates 528
 James 27
 Japan 445
 Kaneohe 182
 kinetics 313
 land development 216
 local 297
 Long Island 404
 Louisiana 442
 macrofauna 72
 macrophytes 72 247 537
 Malpeque 499
 management 183 491 528
 Mangoku 252
 mangroves 326
 marshes 59 75 442
 Maryland 195
 Mediterranean 491
 metabolism 58 525
 methods 135 179 399 456

mining 203
 mixing depth 541
 model 27 58 75 183 502
 Narragansett 423
 nematodes 167
 New York 275
 Newport 135
 nitrate 27 203 252 487
 nitrification 252 487
 nitrite 27 487
Nitrobacter 487
 nitrogen 183 247 297 319 326 499
 502 528 541
 nitrogen fixation 182
Nitrosomona 487
 nonpoint sources 541
 North Carolina 135 203 533
 nutrients 58 72 75 139 141 142
 203 216 220 297 313 343 442 445
 491 516 528
 N15 252
 Odawa 252
 oil 399 423 456 491 528
 oligochaetes 167
 Oregon 516
 organic 27 135 141 500 541
 organic aggregates 404
 organic matter 58 299
 organisms 319 528
 orthophosphate 133
 oysters 499
 Pamlico 203
 Patuxent 141 195
 pesticides 220 528
 pH 2 142 319 332
 PHB 525
 phosphate 27 142 203 247 313 385
 phosphorus 247 297 319 470 499
 528 533 541
 phytoplankton 27 72 141 203 297
 404 456 533
 plankton 20 122 319
 plants 141
 POC 58
 point sources 541
 poly B hydroxybutyrate 332 525
 polychaetes 167
 POM 404
 populations mixed 500
 Potomac 183 216 220
 power plant 141
 predictions 27 183 541
 primary 141 195 343 445
 processes 27 183 328 456
 productivity 141 195 313 343 445
 499
 profiles 541
 protein 470
 Providence 423
 pulp mill 456
 P32 385
 radioactivity 491 516
 rainfall 297
 Rappahannock 328
 real time 183
 red tide 122
 redox potential 299 313 328
 reduction 252
 resources 216 491 516
 respiration 343 487
 Rhode 133
 runoff 216 442 541
 salinity 2 319 328 332 456 541
Schizothrix calicola 254
 Schofield 27
Scottiana canadensis 195
 Sea 445 491
 seagrass 528
 seasons 135 142 404 501
 secondary 182 326 343
 sediment water 179 313 385
 sediments 58 59 135 182 247 252
 275 297 326 328 332 417 491 525
 537 541
 seston 470
 sewage 27 72 122 142 167 182 319
 326 343 417 423 442 456 516
 silica 319 502 528
 soil erosion 541
 Sound 385 404
Spartina 75
Sphaerotilus 516
 steady state 299
 stochastic 27
 stress 528
 substrates 299
 surface waters 541
 suspended solids 59 417 423
 symposium 297 456
 synthesis 501

Taunton 423
 Tees 167
 temperature 2 27 541
 tertiary 326
 tetrazolium salt 58
 thermal 141 456 516 541
 tides 183
 TOC 220 442
 Tokyo 470
 trace metals 2 72 216 456 491
 516 528
 Transient Water Quality Network
 183
 turbidity 541
 turnover rates 537
 uptake rates 133 297 533 537
 Ura 252
 urea 528
 vertical transport 297
 Virginia 27
 viruses 216 254
 vitamin B12 59
 vitamins 501
 Vm 537
 wastes 20 216 220 275 399 442
 500
 water column 417 537
 watersheds 58
 wetlands 195 528
 winter 445
 yeast 501
 zooplankton 72 297 404 528
 Zostera 252
 microcalorimetry
 anaerobic 358
 benthic 358
 dehydrogenase 358
 Lake 358
 metabolic heat release 358
 metabolism 358
 nutrients 358
 organic matter 358
 organisms 358
 oxygen 358
 processes 358
 Puget 358
 sediments 358
 Sound 358
 Washington 358
 microscopepods

Bay 330
 Hawaii 330
 Kaneohe 330
 nitrogen 330
 P/B 330
 productivity 330
 secondary 330
 sewage 330
 microcosms
 algae 140
 ammonia 387
 autotrophic 86
 Bay 86 140 379 387
 biomass 140
 carbon 362 387
 Chesapeake 140
 chlorophyll 140
 ctenophores 362
 C14 140
 diversity 364
 DO 194 387
 energy transfer 362
 flux 362 379 387
 freshwater 86
 heterotrophic 86
 industry 86
 metabolism 86
 Narragansett 379 387
 nitrogen 194 362 387
 nutrients 86 362 364 387
 phosphorus 194 379 387
 phytoplankton 86 194
 plankton 364
 primary 86 140 362
 productivity 86 140 194 362 364
 respiration 86
 Rhode Island 387
 sediment water 379 387
 sediments 387
 sewage 140
 Texas 86
 trace metals 387
 Trinity 86
 wastes 86
 zooplankton 86 140 194
Microcystis
 algae 312
 Anabaena 312
 carbon 312
 Chlorella 312

CO₂ 312
 growth rates 312
microflagellates
 chlorophyll 174
 community structure 174
 DO 174
 Estuary 174
 hydrology 174
 light 174
 nanoplankton 174
 phytoplankton 174
 primary 174
 productivity 174
 salinity 174
 temperature 174
 York 174
microplankton
 chlorophyll 403
 Estuary 403
 nanoplankton 403
 Parramatta 403
 primary 403
 productivity 403
microstructure
 sediments 538
 suspended solids 538
mineralization
 bacteria attached 164
 bacteria free 164
 Estuary 164
 glucose 164
 Humber 164
 organic matter 164
 suspended solids 164
mining
 algae 87
 algae bluegreen 66
 ammonia 203
 animals 202
 benthic 87
 biomass 66 201 203
 bloom 201
 cycles 464
 DO 202 464
 DON 201
 Estuary 66 87 90 201 202 203
 fauna 87
 fertilizer 202 464
 fish 202 513
 hydrology 87 90 201
 industry 202 464
 inorganic 201 203
microbes 203
 nitrate 201 203
 nitrogen 66 87 201 202
 North Carolina 90 202 203
 nutrients 203 463
 oil 513
 Pamlico 66 87 90 201 202 203
 pesticides 513
 phosphate 202 203
 phosphorus 66 87 90 201 463 464
 phytoplankton 66 87 90 201 202
 203
 plankton 202
 pool experiment 66
 primary 202
 productivity 202 463
 pulp mill 513
 radioactivity 513
 Rangia 90
 runoff 464 513
 salinity 90 202
 sediments 90 201
 sewage 202 464 513
 succession 201
 Tar 201
 temperature 202
 thermal 513
 uptake rates 90
 wastes 66 90 464 513
 zooplankton 87
Mississippi
 benthic 356
 disease 356
 dissolved 131
 distribution 125
 Estuary 131
 fish 356
 indices 125
 inorganic 131
 macrofauna 356
 nitrate 125
 nutrients 125
 Orinoco 131
 parasites 356
 pesticides 356
 phosphate 125
 plumes 131
 resources 125

Savannah 131
 sewage 356
 silica 131
 Sound 125
 suspended solids 131
 trace metals 356
 uptake rates 131
mixing
 density 530
 dispersion 530
 dye 530
 Estuary 530
 hydrology 530
 longitudinal 530
 model 530
 point sources 530
 vertical shear 530
 York 530
mixing depth
 BOD 541
 DO 541
 microbes 541
 nitrogen 541
 nonpoint sources 541
 organic 541
 phosphorus 541
 point sources 541
 predictions 541
 profiles 541
 runoff 541
 salinity 541
 sediments 541
 soil erosion 541
 surface waters 541
 temperature 541
 thermal 541
 turbidity 541
Mobile
 Alabama 132
 Bay 132
 hydrology 132
 interface salt fresh 132
 model 132
 momentum transfer 132
 sediments 132
 three dimensional 132
 time dependent 132
 transport 132
model
 advection 42
 aerobic 58 183
 Agnes 415
 Alabama 132
 algae 438
 algae bluegreen 335
 algae mats 33
 ammonia 29 157 407 477
 ammonium 467
 Anacostia 78
 anaerobic 58
 assay 58
 bacterioplankton 114
 Baltic 335
 barnacles 507
 Bay 41 42 64 71 132 168 198 207
 231 262 345 346 353 354 366 372
 378 415 419 427 467 510
 Belgium 504
 benthic 33 335 338 438 542
 benthic oxygen demand 33 80 420
 542
 bibliography 250 263 264 265 266
 267 268 345 346 436
 biomass 231
 Biscayne 427
 bloom 80
 BOD 1 71 99 109 212 283 342 348
 353 477 523
 California 477
 carbon 27 168 342 542
 carbon oxygen demand 80
 CBOD 407 408
 chemical 109 427
 chemostat 169
 Chesapeake 41 42 168 207 345 346
 415 419 467 510
 chlorophyll 64 80 407 415
 COD 338
 coliforms 1 183 353 407 542
 conceptual 168
 Connecticut 58
 Copps Brook 58
 Coriolis 42
 Corpus Christi 372
 CO₂ 105
 crabs 231
 crustaceans 338
 cycles 183 342 477
 DC 1 283
 degradation 58

Delaware 109 342 411 477 523
 Delta 477
 denitrification 157 504
 density 198 280 530
 density homogeneous 258
 deoxygenation 542
 detergent 335 436
 deterministic 419
 detritus 75
 diagenesis 502
 diatoms 347
 diffusion 261 419 467
 dilution 510
 DIN 477
 dispersion 530
 dispersion coefficient 170 283
 dissolved 207
 distribution 71
 DO 1 29 71 80 97 99 105 212 283
 335 342 353 407 408 477 542
 DOC 58
 DOD 283
 dye 1 78 530
 dynamic programming algorithm
 240
 Elizabeth 327
 energy transfer 75 231 335 348
 354
 Estuary 1 27 29 33 78 80 98 99
 109 170 183 212 223 255 283 327
 341 342 407 408 411 415 419 467
 477 478 507 510 523 530
 eutrophic 157
 eutrophication 250 263 264 265
 266 267 268 345 346
 feed forward 462
 feedback 462
 filter feeders 347
 finite difference 34 41
 fish 231 335 515 542
 fisheries 338 411
 flagellates 347
 Florida 427
 flushing 437
 flux 342 366
 free surface 427
 frequency analysis 261
 freshwater 231 378 420
 FWQA Dynamic 78
 Galveston 231
 Georgia 386
 growth rates 169
 Harbor 327
 Hawaii 64
 heat 542
 Hurricane 415
 hydrology 41 42 71 97 100 132
 183 198 212 250 262 263 264 265
 266 267 268 280 321 354 378 420
 510 515 530
 ice 542
 indicator species 335
 indices 437
 industry 109 205 327 348
 inorganic 27 407
 instruments 436
 interface salt fresh 132
 interstitial 58 207 503 504 536
 intracellular 100 169
 isopleths 223
 Jamaica 262 353
 James 27 327
 Japan 338
 Kaneohe 64
 Lagoon 105
 Lagrangian multipliers 240
 Laita 98
 light 420 542
 Little Creek 327
 longitudinal 530
 Lynnhaven 327
 macroalgae 335
 macrophytes 157
 management 109 183 205 231 240
 327 411 515
 manganese 207
 marina 437
 marshes 75 507
 mass transfer 503
 matrix 372
 metabolism 58 386
 methods 114 436 542
 Michaelis Menton 71 347 415
 microbes 27 58 75 183 502
 mixing 530
 Mobile 132
 momentum transfer 132
 municipal 109
 mussels 507
 Nansemond 327

Narragansett 198
 NBOD 408
 negentropy 366
 New York 262 353
 nitrate 27 64 157 407 467 504
 nitrification 157 504
 nitrite 27 407 477 504
 nitrogen 29 80 100 157 169 183
 321 338 342 353 372 407 415 477
 478 502
 nitrogen oxygen demand 80
 nomogram 437
 nonadvection 244
 nonpoint sources 223 327 523
 North 411 503
 North Inlet 507
 nutrients 1 58 71 75 80 100 168
 223 341 342 436 478 515 542
 oil 338 436
 one dimensional 34 255 407 408
 419 420
 Oregon 33 170
 organic 27 157 407
 organic matter 58 157 338 504
 organisms 335 542
 oxidation 477
 oysters 507
 Pagan 327 407 408
 pesticides 348 436
 pH 71 105 207
 phosphate 27 64
 phosphorus 80 100 223 342 353
 386 407 415 478
 phytoplankton 1 27 64 71 80 114
 157 169 341 342 407 411 415 477
 478 507 515 542
 plankton 366
 POC 58
 point sources 530
 populations mixed 237
 Poquoson 327
 Potomac 1 78 80 99 183 223 255
 283 341 342 419 467 477 478
 predictions 27 78 183 327
 primary 64 80 335 507 515 542
 processes 27 157 183 223 244 354
 386 427 507 536
 productivity 64 80 114 231 335
 507 515 542
 Puget 515
 pulp mill 98
 quasi linear 415
 radioactivity 345 346
 Raritan 366
 rate constants 542
 reaeration 80 542
 real time 183 212 321 407 408
 resources 345 346
 respiration 80
 runoff 205 223 420
 Sacramento 341
 Sacramento San Joquin 477
 salinity 33 71 198 212 231 353
 407 408
 salmonids 98
 San Francisco 71 354 378
 Schofield 27
 Sea 335 338 411 503
 seagrass 438
 seasons 71 386
 secondary 231 348
 sediment water 386
 sediments 33 58 132 338 427 437
 504
 self adaptation 462
 self organization 462
 Seto 338
 Severn 510
 sewage 27 64 105 327 335 338 348
 510
 shrimp 231
 silica 347 378 502 503 536
 slack water 170
 Sound 515
 Spartina 75
 spatial distribution 223 542
 specified time 258
 stabilization 105
 steady state 207
 stochastic 27 99 205 255 420 477
 storm loading 523
 stratification 280
 succession 411 515
 sulfate 338
 sulfide 33 338
 survival 237
 Susquehanna 415
 symposium 335 341
 temperature 27 71 105 420
 temporal distribution 223 542

- tetrazolium salt 58
- Texas 231 372 438
- Thames 29
- thermal 250 263 264 265 266 267 268
- Thomann 78
- three dimensional 132 198 427 515
- three layer 280
- tidal average 212
- tides 1 33 78 183 507
- time constants 347
- time dependent 132 255 427
- trace metals 348 436 438
- Transient Water Quality Network 183
- transport 100 132 223 244 262 354 427
- trophic levels 515
- turbidity 420
- two dimensional 41 42 258 262 353 378
- two layer 503
- unsteady flow 258
- uptake rates 157
- vertical shear 530
- Virginia 27 212
- Washington 515
- wastes 105 109 223 327 342 348 415
- water column 507
- water quality 97
- watersheds 58
- wind 427
- Yaquina 33 170
- York 212 327 530
- zone 503
- zooplankton 157 237 335 341 342 347 477 542
- molluscs**
 - algae 256 339
 - annelids 370
 - bacteria 256 339
 - benthic 9 370
 - biomass 339
 - birds 256 339
 - calcium 339
 - carbon 256 339
 - carbonate ion 308
 - Clyde 375
- community structure 256
- crustaceans 256 339 370
- diversity 9
- DOC 308
- England 370
- Enteromorpha 375
- Estuary 375
- fauna 375
- fish 256 339
- fisheries 375
- foraminifera 256 339
- growth rates 39
- Harbor 39
- heterotrophic 256 339
- indicator species 39 370
- insects 256 339
- Lagoon 9
- Linnhe Eil 370
- Loch 370
- Long 39
- macrofauna 9
- marshes 339
- meiofauna 256 339
- metabolism 256
- Newfoundland 39
- nitrogen 256 339
- nutrients 375
- pH 308
- phosphorus 39 256 339
- phytoplankton 256 339
- pond experiment 256 339
- productivity 256 339
- pulp mill 370
- salinity 308
- sand 375
- Scotland 375
- sediments 375
- sewage 256 339 375
- Shannons Index 9
- succession 370
- tertiary 339
- worms 375
- momentum transfer**
 - Alabama 132
 - Bay 132
 - hydrology 132
 - interface salt fresh 132
 - Mobile 132
 - model 132
 - sediments 132

- three dimensional 132
- time dependent 132
- transport 132
- monitoring**
 - global 490
 - management 490
 - research 490
 - resources 490
- morphology**
 - ammonium 522
 - boundary layer 522
 - carbon 522
 - cycles 522
 - growth rates 522
 - kelp 522
 - K_s 522
 - Macrocystis* 522
 - nitrogen 522
 - nutrients 522
 - primary 522
 - productivity 522
 - V_m 522
 - water velocity 522
- mucus**
 - algae colonial 152
 - Bay 401
 - C₁₄ 152
 - DO 401
 - fish kills 401
 - Galveston 401
 - gas bubbles 401
 - methods 152
 - primary 152
 - productivity 152
 - salmonids 401
 - saturation 401
 - silica 152
 - Texas 401
- mud flats**
 - algae mats 130
 - Apalachee 191
 - Bay 191
 - benthic 191
 - Estuary 130
 - Florida 191
 - indicator species 191
 - invertebrates 191
 - Ireland 130
 - nutrients 130
 - organic 130
- oyster reefs** 191
- pulp mill 191
- Rogerstown 130
- seagrass 191
- wastes 130 191
- municipal**
 - BOD 109
 - chemical 109
 - Delaware 109
 - detergent 413
 - Estuary 109
 - industry 109
 - inorganic 413
 - management 109
 - model 109
 - N/P 413
 - nitrogen 413
 - organic matter 413
 - phosphorus 413
 - phytoplankton 413
 - wastes 109 413
- Murderkill**
 - Broadkill 101
 - chlorophyll 101
 - Delaware 101
 - DO 101
 - Estuary 101
 - inorganic 101
 - nitrogen 101
 - nutrients 101
 - pH 101
 - phosphorus 101
 - salinity 101
 - tides 101
 - wetlands 101
- mussels**
 - barnacles 507
 - Bight 121
 - bioaccumulation 121
 - Estuary 507
 - fish 121
 - indicator species 121
 - Kiel 121
 - marshes 507
 - metabolism 162
 - model 507
 - nitrogen 162
 - North Inlet 507
 - Norway 121
 - nutrients 162

- oil 121
- organic 162
- oysters 507
- phosphate 162
- phytoplankton 507
- primary 507
- processes 507
- productivity 507
- tides 507
- USSR 162
- water column 507
- Mytilus**
 - fucaceae 334
 - intertidal 334
 - pulp mill 334
 - Spain 334
 - stress 334
 - Ulva 334
 - wastes 334
- Mytilus edulis**
 - aquaculture 360
 - growth rates 360
 - sewage 360
- myxobacteria**
 - Germany 166
 - indicator species 166
 - sewage 166
- N/P**
 - algae 160
 - assay 414
 - Bay 226
 - biomass 160
 - bloom 414
 - continuous culture 160
 - detergent 413
 - diatoms 414
 - DO 226
 - hydrology 226 414
 - inorganic 413
 - municipal 413
 - New Jersey 226
 - nitrate 226 414
 - nitrogen 160 239 413
 - Norway 414
 - nutrients 160 226
 - organic matter 413
 - orthophosphate 414
 - phosphate 226
 - phosphorus 239 413
 - phytoplankton 239 413 414
 - plankton 226
 - Raritan 226
 - salinity 226
 - seasons 226
 - sewage 160
 - silica 414
 - Stockholm 239
 - temperature 226
 - trace metals 414
 - Trondheimsfjord 414
 - wastes 413
- NaCl**
 - BOD 36
 - DO 36
 - light 36
 - salts 36
 - sediments 36
 - suspended solids 36
 - temperature 36
 - turbidity 36
- nanoplankton**
 - Aquafor 145
 - Bay 288 296 300 406
 - biomass 296
 - bloom 363
 - Buzzards 406
 - C/N 406
 - Calanus pacificus 363
 - Canada 145
 - Chaetoceros 363
 - Chesapeake 296
 - chlorophyll 174 288 296 300 403
 - 406
 - community structure 174
 - detritus 406
 - diversity 300
 - DO 174
 - Estuary 174 403
 - euglenoid 145
 - Euphaussid furcilia 363
 - feeding rates 363
 - Harbor 145
 - hydrology 174
 - indicator species 145
 - light 174
 - Massachusetts 406
 - methods 296
 - microflagellates 174
 - microplankton 403
 - New Jersey 300

- Newark 300
- nutrients 288
- Parramatta 403
- phytoplankton 145 174 288 296
300 363
- plankton 288
- POC 406
- PON 406
- primary 174 288 296 403
- productivity 174 288 296 363 403
- Pseudocalanus minutus* 363
- Raritan 288
- salinity 174
- seasons 300 406
- secchi disc 145
- sewage 145
- St Johns 145
- suspended solids 406
- temperature 174
- York 174
- zooplankton 296 363 406
- Nansemond**
 - Elizabeth 327
 - Estuary 327
 - Harbor 327
 - industry 327
 - James 327
 - Little Creek 327
 - Lynnhaven 327
 - management 327
 - model 327
 - nonpoint sources 327
 - Pagan 327
 - Poquoson 327
 - predictions 327
 - sewage 327
 - wastes 327
 - York 327
- Narragansett**
 - Acartia* 227
 - ammonia 178 387
 - Balanus* 227
 - Bay 178 198 227 379 387 423
 - benthic 178
 - bloom 227
 - carbon 387
 - chambers 178
 - chlorophyll 423
 - density 198
 - DO 387
 - Estuary 227 423
 - Eurytemora* 227
 - fatty acids 423
 - flux 178 379 387
 - hydrology 198
 - inorganic 178
 - latitudinal gradients 227
 - microbes 423
 - microcosms 379 387
 - model 198
 - New Jersey 227
 - nitrate 178
 - nitrite 178
 - nitrogen 387
 - nutrients 227 387
 - oil 423
 - organic matter 227
 - phosphate 178
 - phosphorus 379 387
 - phytoplankton 227
 - Providence 423
 - Raritan 227
 - Rhode Island 178 227 387
 - salinity 198 227
 - seasons 227
 - sediment water 178 379 387
 - sediments 387
 - sewage 423
 - suspended solids 423
 - Taunton 423
 - temperature 178
 - three dimensional 198
 - trace metals 387
 - Virginia 227
 - wastes 227
 - York 227
 - zooplankton 227
- NBOD**
 - CBOD 408
 - DO 408
 - Estuary 408
 - model 408
 - one dimensional 408
 - Pagan 408
 - real time 408
 - salinity 408
- negentropy**
 - Bay 366
 - flux 366
 - model 366

- plankton 366
- Raritan 366
- nematodes**
 - abundance 167
 - annelids 167
 - benthic 331
 - biomass 167
 - diversity 167
 - Estuary 167
 - fauna 167
 - gastrotrichs 167
 - Great Britain 167
 - indicator species 331
 - invertebrates 331
 - Massachusetts 331
 - microbes 167
 - oligochaetes 167
 - polychaetes 167
 - seasons 331
 - sewage 167 331
 - Tees 167
 - Woods Hole 331
- Netherlands**
 - biomass 336
 - Estuary 336
 - Grevelingen 336
 - light 336
 - nutrients 336
 - primary 336
 - productivity 336
 - water velocity 336
 - Zostera marina* 336
- Neuse**
 - ammonia 204
 - bloom 204
 - Estuary 204
 - fertilizer 204
 - freshwater 204
 - nitrate 204
 - North Carolina 204
 - phosphorus 204
 - phytoplankton 204
 - salinity 204
 - sewage 204
 - wastes 204
- Nevis**
 - carbon 454
 - chlorophyll 454
 - Loch 454
 - nitrate 454
 - North 454
 - phosphate 454
 - POC 454
 - productivity 454
 - Scotland 454
 - Sea 454
- New Jersey**
 - abundance 113
 - Acartia* 227
 - ammonium 113
 - Balanus* 227
 - Bay 224 226 227 300
 - benthic 224
 - Bight 113
 - bloom 227
 - chlorophyll 113 300
 - cycles 224
 - distribution 113
 - diversity 300
 - DO 226
 - Estuary 227 426
 - Eurytemora* 227
 - freshwater 113
 - hydrology 224 226
 - latitudinal gradients 227
 - marshes 390
 - metabolism 224
 - methods 426
 - N/P 226
 - nanoplankton 300
 - Narragansett 227
 - New York 113 426
 - Newark 300
 - nitrate 113 224 226
 - nitrite 113
 - nutrients 226 227
 - organic matter 227
 - phosphate 113 224 226
 - phytoplankton 113 227 300
 - plankton 226
 - primary 390
 - processes 224
 - productivity 390
 - Raritan 224 226 227 426
 - Rhode Island 227
 - Rockaway Point 113
 - salinity 113 226 227
 - seasons 224 226 227 300
 - silica 113
 - Spartina alterniflora* 390

- spatial distribution 426
- suspended solids 113
- temperature 113 226
- temporal distribution 426
- trace metals 426
- Virginia 227
- wastes 227
- York 227
- zooplankton 227
- New York**
 - abundance 113
 - aerobic 172
 - ammonium 113 172
 - anaerobic 172
 - ATP 172 275
 - Bay 262 287 353
 - benthic 410
 - Bight 113 172 189 275 286
 - biomass 275
 - bloom 275 286 287
 - BOD 353
 - cadmium 275
 - calorific content 172
 - Ceratium 275
 - chlorophyll 113
 - coliforms 353
 - cycles 410
 - decomposition 172
 - DIC 172
 - distribution 113
 - DO 353
 - DOC 172
 - Estuary 426
 - freshwater 113
 - hydrology 262
 - hypertrophication 286
 - indices 189
 - industry 275
 - Jamaica 262 353
 - landfill 340
 - Massartia rotundata 287
 - methods 426
 - microbes 275
 - model 262 353
 - New Jersey 113 426
 - nitrate 113 172
 - nitrification 410
 - nitrite 113 172
 - nitrogen 353
 - nutrients 286 410
 - oil 340
 - Olisthodiscus luteus* 287
 - organic matter 410
 - organisms 410
 - PC 172
 - phosphate 113
 - phosphorus 353
 - phytoflagellate 287
 - phytoplankton 113 286
 - PN 172
 - primary 410
 - productivity 410
 - Prorocentrum micans* 287
 - Raritan 426
 - Rockaway Point 113
 - salinity 113 287 353
 - sediments 189 275 410
 - sewage 172 189 340
 - silica 113
 - spatial distribution 426
 - steroids 189
 - suspended solids 113
 - temperature 113
 - temporal distribution 426
 - trace metals 426
 - transport 262
 - two dimensional 262 353
 - wastes 275
- New Zealand**
 - acetylene 25
 - cannery 25
 - Inlet 25
 - intertidal 25
 - Klebsiella pneumoniae* 25
 - nitrogen fixation 25
 - nutrients 25
 - sediments 25
 - sewage 25
 - slaughterhouse 25
 - Waimea 25
 - wastes 25
- Newark**
 - Bay 300
 - chlorophyll 300
 - diversity 300
 - nanoplankton 300
 - New Jersey 300
 - phytoplankton 300
 - seasons 300
- Newfoundland**

growth rates 39
 Harbor 39
 indicator species 39
 Long 39
 molluscs 39
 phosphorus 39
Newport
 ATP 135
 carbon 135
 Estuary 135
 methods 135
 microbes 135
 North Carolina 135
 organic 135
 seasons 135
 sediments 135
nitrate
 abundance 113
 acetylene 444
 aerobic 172
 agriculture 218
 algae bluegreen 218
 alkaline phosphatase 482
 alkalinity 67 380
 ammonia 5 50 67 69 123 157 176
 177 178 203 204 314 407 444 473
 481 487
 ammonium 31 38 113 129 172 186
 188 228 298 394 467 482
 anaerobic 127 172
 animals 186
 ash 382
 assay 414
 ATP 172
 Bay 64 67 178 188 224 226 228
 252 298 380 467 473
 Bayou 314
 Belgium 504
 benthic 5 178 224
 Bight 113 172
 biomass 128 201 203
 Black 303
 bloom 201 204 382 414
 BOD 487
 bound 3
 C/N 188 482
 California 128 129
 calorific content 172
 carbon 27 70 382 394 454 473 482
 CBOD 407
Chaetoceros simplex 303
 chambers 178
 Chesapeake 67 298 380 467 473
 Chlorella salina 69
 chlorophyll 64 67 70 113 128 382
 407 454 473 481 482
 Chlorophyta 31
 Chrysaora quinquecirrha 38
 coliforms 380 407
 Columbia 175
 cycles 129 186 224
 C14 382
 DC 380
 decomposition 172
 denitrification 127 157 444 504
 diatoms 5 414
 DIC 172 473
 diffusion 127 467
 dissolved 3
 distribution 50 113 125 128
 diurnal 129 482
 DO 67 126 226 314 380 394 407
 DOC 172 473
 DON 176 177 201
 Duwamish 481
 Estuary 27 31 50 67 82 143 175
 186 201 203 204 218 219 380 407
 467 481
 Eurytemora 175
 eutrophic 157
 exchange diffusion 123
 fatty acids 382
 fertilizer 3 204
 floodwaters 127
 Florida 314
 flushing 218
 flux 178
 freshwater 113 204 219
 Georgia 176 177
 growth rates 70 188
 Hawaii 64 188
 Hudson 31 218
 hydrology 201 224 226 414
 indicator species 303 481
 indices 125
 industry 380
 inorganic 27 178 186 201 203 407
 interference 54
 interstitial 504
 James 27 380

Kaneohe 64 188
 Ks 482
 laboratory culture 5
Laminaria 70
 light 31 175
 linear regression 175
 Loch 454
 Louisiana 126 127
 macroinvertebrates 314
 macrophytes 70 157
 Mangoku 252
 marshes 126 177
 Maryland 380
 Massachusetts 82
 metabolism 224
 methods 54 123 228 235
 microbes 27 203 252 487
 mining 201 203
 Mississippi 125
 model 27 64 157 407 467 504
 N/P 226 414
 Narragansett 178
 Neuse 204
 Nevis 454
 New Jersey 113 224 226
 New York 113 172
 nitrification 157 252 487 504
 nitrite 5 27 50 67 113 172 176
 177 178 186 219 228 298 407 473
 481 487 504
Nitrobacter 487
 nitrogen 50 67 129 157 186 201
 228 407 482
Nitrosomona 487
 North 454
 North Carolina 186 203 204
 Norway 414
 Nova Scotia 382
 nutrients 50 82 125 128 143 186
 203 218 226 380 394 473
 N15 129 252
 Odawa 252
Olisthodiscus luteus 482
 one dimensional 407
 Oregon 175
 organic 27 50 157 186 407
 organic matter 157 394 504
 orthophosphate 5 228 414
 Pagan 407
 Pamlico 186 201 203
 Patuxent 380
 PC 172
Periphyton 481
 pesticides 380
 pH 38 67 176 380
phaeophytin 473
 phosphate 27 38 50 64 67 69 82
 113 123 125 143 175 178 203 218
 219 224 226 303 314 380 394 454
 481
 phosphorus 3 201 204 228 382 407
 473 482
 phytoplankton 27 31 64 67 82 113
 128 129 157 175 188 201 203 204
 298 303 314 382 394 407 414
 Pines 82
 plankton 226
 plants 186
 PN 172
 POC 454
 point sources 218
 polyp 38
 PON 177
 pond experiment 3
 pools 177
 Potomac 67 218 219 380 467
 predictions 27
 primary 5 64 129 382 473 481
 processes 27 157 224
 productivity 5 64 67 129 382 454
 473 481
 protein 69
 P32 3
 rainfall 176
 Rappahannock 380
 Raritan 224 226
 real time 407
 recreation 82
 redox potential 126 127
 reduction 252 444
 remote sensing 38
 resources 125
 respiration 382 487
 Rhode Island 178
 Rockaway Point 113
 runoff 143
 salinity 50 67 69 113 204 226
 407
 salts 143
 San Francisco 228

Schofield 27
 Scotland 454
 Sea 303 454
 sea nettle 38
 seasons 50 175 186 224 226
 secondary 123
 sediment water 178
 sediments 3 126 186 201 219 252
 380 444 504
 sewage 27 38 64 69 82 129 172
 188 204 218 219 303 380
 silica 113 175 382 414
 silicate 50
Skeletonema 31
 Sound 125
 Southampton 394
 spatial distribution 219
 St Lawrence 50
 stochastic 27
Suagus 82
 succession 201
 suspended solids 113
 Susquehanna 380
 Tar 201
 TDC 473
 temperature 27 50 67 113 128 178
 226 394
 temporal distribution 219
 Texar 314
 Thames 143
 tidal creek 177
 TKN 219
 TOC 314
 trace metals 380 394 414
 Trondheimsfjord 414
 turbidity 67
 turnover rates 394
 Ulva 82
 United Kingdom 143
 uptake rates 31 69 129 157 188
 482
Ura 252
 urea 50 129 186 188 298
 uv/resin 54
 Virginia 27 380
 Washington 481
 wastes 123 143 204 218 380 481
 watersheds 219 380
 York 380
 zooplankton 67 157 175 314 394

Zostera 252
 nitrification 486
 activated sludge 514
 ammonia 157 487
 artificial recharge 138
 Bay 252
 Belgium 504
 benthic 410
 BOD 487
 canal 138
 cycles 410
 denitrification 157 504 514
 dissolved solids 138
 economics 138
 Estuary 138
 eutrophic 157
 interstitial 504
 macrophytes 157
Mangoku 252
 microbes 252 487
 model 157 504
 New York 410
 nitrate 157 252 487 504
 nitrite 487 504
Nitrobacter 487
 nitrogen 157
Nitrosomona 487
 nutrients 410
 N15 252
Odawa 252
 organic 157
 organic matter 157 410 504
 organisms 410
 ozonization 138
 phytoplankton 157
 primary 410
 processes 157
 productivity 410
 recycle 138
 reduction 252
 respiration 487 514
 sediments 252 410 504
 sewage 138
 Thames 138
 uptake rates 157
Ura 252
 water supply 138
 zooplankton 157
Zostera 252

nitrite

abundance 113
 aerobic 172
 alkalinity 67
 ammonia 5 50 67 176 177 178 311
 407 473 477 481 487
 ammonium 113 172 186 228 298
 anaerobic 172
 animals 186
 ATP 172
 Bay 67 178 228 298 473
 Belgium 504
 benthic 5 178
 Bight 113 172
 BOD 290 311 477 487
 California 477
 calorific content 172
 carbon 27 473
 CBOD 407
 chambers 178
 Chesapeake 67 298 473
 chlorophyll 67 113 407 473 481
 coliforms 290 407
 cycles 186 477
 decomposition 172
 Delaware 477
 Delta 477
 denitrification 504
 diatoms 5
 DIC 172 473
 DIN 477
 distribution 50 113
 DO 67 290 311 407 477
 DOC 172 311 473
 DON 176 177 311
 Duwamish 481
 Estuary 27 50 67 186 219 407 477
 481
 flux 178
 freshwater 113 219
 Georgia 176 177
 indicator species 481
 inorganic 27 178 186 407
 interface salt fresh 311
 interstitial 504
 James 27
 laboratory culture 5
 marshes 177
 methods 228
 microbes 27 487
 model 27 407 477 504
 Narragansett 178
 New Jersey 113
 New York 113 172
 nitrate 5 27 50 67 113 172 176
 177 178 186 219 228 298 407 473
 481 487 504
 nitrification 487 504
 Nitrobacter 487
 nitrogen 50 67 186 228 407 477
 Nitrosomona 487
 North Carolina 186
 nutrients 50 186 473
 one dimensional 407
 organic 27 50 186 407
 organic matter 290 504
 orthophosphate 5 228
 oxidation 477
 Pagan 407
 Pamlico 186
 PC 172
 Periphyton 481
 pH 67 176 290 311
 phaeophytin 473
 phosphate 27 50 67 113 178 219
 481
 phosphorus 228 407 473
 phytoplankton 27 67 113 298 407
 477
 plants 186
 PN 172
 PON 177
 pools 177
 Potomac 67 219 477
 predictions 27
 primary 5 473 481
 processes 27
 productivity 5 67 473 481
 rainfall 176
 real time 407
 respiration 487
 Rhode Island 178
 Rockaway Point 113
 Sacramento San Joquin 477
 salinity 50 67 113 290 311 407
 San Francisco 228
 Schofield 27
 seasons 50 186 290
 sediment water 178
 sediments 186 219 504
 sewage 27 172 219

shellfish 290
 silica 113
 silicate 50
 spatial distribution 219
 St Lawrence 50
 stochastic 27 477
 suspended solids 113
 TDC 473
 temperature 27 50 67 113 178 290
 temporal distribution 219
 tidal creek 177
 TKN 219
 trace metals 311
 turbidity 67
 urea 50 186 298
 Virginia 27
 Washington 481
 wastes 481
 watersheds 219
 zooplankton 67 477
Nitrobacter
 ammonia 487
 BOD 487
 microbes 487
 nitrate 487
 nitrification 487
 nitrite 487
 Nitrosomona 487
 respiration 487
nitrogen
 abundance 43 499
 aerobic 183
 Agnes 415
 Aisne 35
 Alaska 319
 Albemarle 43
 algae 87 160 256 339
 algae bluegreen 66 247
 alkaline phosphatase 482
 alkalinity 67
 amino acids 528
 ammonia 29 43 50 62 67 157 247
 387 407 477
 ammonium 129 186 210 228 482 522
 animals 186 202
 arctic 319
 argon 396 397
 ATP 193
 bacteria 256 339
 batch culture 144
 Bay 22 65 67 79 91 94 199 228
 297 330 353 372 387 396 397 415
 499
 Bayou 181 316
 benthic 87 319 338 528
 benthic oxygen demand 80
 biomass 62 65 66 110 144 160 201
 247 339
 birds 256 339
 bloom 80 144 201
 BOD 342 353 477 541
 boundary layer 522
 British Columbia 247
 Broadkill 101
 bubbles 396
 budget 316
 C/N 62 482
 cadmium 210
 calcium 339 461
 California 62 129 187 477
 carbohydrates 193
 carbon 21 22 35 110 144 181 193
 256 339 342 362 377 387 482 499
 522
 carbon oxygen demand 80
 carbon/chlorophyll 62
 Carter 21
 CBOD 407
 chemostat 169
 Chesapeake 22 67 79 91 297 396
 397 415
 chlorophyll 43 65 67 79 80 101
 193 407 415 482
 Chlorophyta 144
 COD 338
 coliforms 94 163 183 353 407
 community structure 256
 conference 528
 continuous culture 144 160
 Cook 319
 Corpus Christi 372
 CO₂ 144 396 397
 Creek 21
 crude fiber 193
 crustaceans 256 338 339
 ctenophores 362
 Cyanophyta 144
 cycles 21 48 91 129 183 185 186
 247 297 342 477 499 522 528
 Delaware 101 342 477

Delta 477
 denitrification 157 326
 detergent 413
 detritus 22 65 528
 diagenesis 502
 diatoms 479
 DIN 199 477
 dinoflagellate 479
 distribution 50 377
 diurnal 62 129 482
 diversity 94
 DO 29 67 80 101 194 202 242 319
 342 353 387 407 477 541
 DON 201
 DRP 199
 economics 94
 energy transfer 362
 Estuary 29 35 50 66 67 79 80 87
 101 181 183 185 186 193 201 202
 342 377 407 415 477 478 506
 eutrophic 157
 fauna 87
 feces 163
 fertilizer 202
 Fiji Island 326
 fish 202 256 339 528
 fisheries 94 338 528
 Florida 181 316
 flux 22 187 342 362 387
 foraminifera 256 339
 France 35
 Great Britain 199
 growth rates 169 479 522
 gulls 163
 Hawaii 65 94 330
 heterotrophic 256 339
 Hurricane 415
 hydrology 43 87 91 100 183 201
 321
 H₂S 396
 industry 202
 Inlet 319
 inorganic 101 161 181 186 201
 326 407 413 506
 insects 256 339
 intracellular 100 169
 invertebrates 528
 Jamaica 353
 Japan 338
 Kaneohe 65 94 330
 kelp 522
 Ks 62 482 522
 land development 43
 Liverpool 199
 local 297
 long term 199
Macrocystis 522
 macrophytes 157 247
 Malpeque 499
 management 183 528
 mangroves 326
 marshes 21 22 193 210 339 461
 Maryland 193
 Massachusetts 161
 matrix 372
 meiofauna 256 339
 metabolism 162 256
 methane 396 397
 methods 35 228
 Michaelis-Menton 415
 microbes 183 247 297 319 326 499
 502 528 541
 microcopepods 330
 microcosms 194 362 387
 mining 66 87 201 202
 mixing depth 541
 model 29 80 100 157 169 183 321
 338 342 353 372 407 415 477 478
 502
 molluscs 256 339
 morphology 522
 municipal 413
 Murderkill 101
 mussels 162
 N/P 160 239 413
 Narragansett 387
 New York 353
 nitrate 50 67 129 157 186 201
 228 407 482
 nitrification 157
 nitrite 50 67 186 228 407 477
 nitrogen fixation 144
 nitrogen oxygen demand 80
 nonpoint sources 541
 North Carolina 43 185 186 202
 nutrients 50 62 79 80 100 101
 160 162 186 210 297 342 362 387
 478 522 528
 N₁₅ 62 129
 oil 338 528

Olisthodiscus luteus 482
 one dimensional 407
 organic 50 157 162 186 407 506
 541
 organic matter 157 338 413
 organisms 319 528
 orthophosphate 228
 oxidation 477
 oxidation rates 35
 oxygen 377
 oysters 499
 P/B 330
 Pagan 407
 Pamlico 66 87 185 186 201 202
 pathogens 163
 Patuxent 193
 pesticides 528
 pH 67 101 144 319
 phosphate 50 67 162 181 202 247
 phosphorus 21 22 43 66 79 80 87
 91 94 100 101 110 115 163 181
 187 193 194 199 201 210 228 239
 242 247 256 297 316 319 339 342
 353 387 407 413 415 461 478 482
 499 528 541
 phytoplankton 43 62 65 66 67 79
 80 87 91 110 115 129 144 157 161
 169 187 194 201 202 239 256 297
 339 342 407 413 415 477 478 479
 506
 plankton 202 319
 plants 186 461
 POC 65
 point sources 541
 pond experiment 110 161 256 339
 pool experiment 66
 potassium 461
 Potomac 67 80 183 342 377 477
 478
 predictions 183 541
 primary 21 22 43 62 80 91 115
 129 181 185 187 202 362 522
 processes 157 183 185 506
 productivity 21 22 43 62 67 80
 91 115 129 181 185 187 194 202
 256 330 339 362 499 522
 profiles 541
 quasi linear 415
 rainfall 297
 reaeration 80
 real time 183 321 407
 recreation 94
 respiration 80
 Rhode Island 387
 runoff 541
 Sacramento San Joquin 477
 salinity 43 50 67 101 202 319
 353 407 541
 San Francisco 228
 Sea 338
 seagrass 528
 seasons 50 186 199 397 506
 secondary 144 326 330
 sediment water 21 181 242 387
 396
 sediments 186 187 201 210 242
 247 297 326 338 387 397 461 541
 Seine 35
 Seto 338
 sewage 62 94 115 129 144 160 161
 163 202 256 319 326 330 338 339
 479
 silica 187 319 502 528
 silicate 50
 soil erosion 541
 Sound 43
 St Lawrence 50
 stochastic 477
 Stockholm 239
 stress 528
 succession 110 144 201
 sulfate 338
 sulfide 338
 surface waters 541
 Susquehanna 79 415
 symposium 297
 Tar 201
 temperature 35 43 50 67 202 541
 tertiary 161 326 339
 Texar 181 316
 Texas 372
 Thames 29
 thermal 541
 tides 22 101 183 210
 trace metals 115 210 242 387 479
 528
 Transient Water Quality Network
 183
 transport 100
 turbidity 43 67 541

two dimensional 353
 uptake rates 129 157 297 482
 urea 50 62 129 186 528
 USSR 162
Vellar 506
 vertical transport 297
 Virginia 21
 Vm 62 522
 Ware 21
 wastes 66 342 413 415
 water velocity 522
 wetlands 101 528
 zinc 210
 zooplankton 67 87 157 194 297
 342 477 528
nitrogen fixation
 acetylene 25
 algae bluegreen 243
 algae mats 243
 amino acids 49
 ammonia 49
 bacteria 243
 batch culture 144
 Bay 182 243
 biomass 144
 bloom 144
 cannery 25
 carbon 144
 Chlorophyta 144
 continuous culture 144
 coral 182
 CO₂ 144
 Cyanophyta 144
 Guayanilla 243
 Hawaii 182
 heterotrophic 243
 Inlet 25
 intertidal 25
 Kaneohe 182
 Klebsiella pneumoniae 25
 microbes 182
 New Zealand 25
 nitrogen 144
 nutrients 25
 pH 144
 phosphorus 49
 phytoplankton 144
 primary 49
 productivity 49
 Puerto Rico 243
 secondary 144 182
 sediments 25 49 182 243
 sewage 25 144 182
 slaughterhouse 25
 succession 144
 thermal 243
 Waimea 25
 wastes 25
nitrogen oxygen demand
 benthic oxygen demand 80
 bloom 80
 carbon oxygen demand 80
 chlorophyll 80
 DO 80
 Estuary 80
 model 80
 nitrogen 80
 nutrients 80
 phosphorus 80
 phytoplankton 80
 Potomac 80
 primary 80
 productivity 80
 reaeration 80
 respiration 80
Nitrosomona
 ammonia 487
 BOD 487
 microbes 487
 nitrate 487
 nitrification 487
 nitrite 487
 Nitrobacter 487
 respiration 487
nomogram
 flushing 437
 indices 437
 marina 437
 model 437
 sediments 437
nonadvection
 model 244
 processes 244
 transport 244
nonpoint sources
 BOD 523 541
 Delaware 523
 DO 541
 Elizabeth 327
 Estuary 223 327 523

- Harbor 327
- industry 327
- isopleths 223
- James 327
- Little Creek 327
- Lynnhaven 327
- management 327
- microbes 541
- mixing depth 541
- model 223 327 523
- Nansemond 327
- nitrogen 541
- nutrients 223
- organic 541
- Pagan 327
- phosphorus 223 541
- point sources 541
- Poquoson 327
- Potomac 223
- predictions 327 541
- processes 223
- profiles 541
- runoff 223 541
- salinity 541
- sediments 541
- sewage 327
- soil erosion 541
- spatial distribution 223
- storm loading 523
- surface waters 541
- temperature 541
- temporal distribution 223
- thermal 541
- transport 223
- turbidity 541
- wastes 223 327
- York 327

- North**
- Aberdeen 453
- Bay 453
- carbon 454
- chlorophyll 453 454
- C14 453
- Delaware 411
- diatoms 153
- distribution 153
- Estuary 411
- fisheries 411
- Fladen Ground 453
- industry 232
- interstitial 503
- kelp 232
- Loch 454
- long term 153
- macroinvertebrates 232
- management 411
- mass transfer 503
- metals 232
- model 411 503
- Nevis 454
- nitrate 454
- phosphate 454
- phytoplankton 153 411
- POC 453 454
- primary 453
- processes 453
- productivity 453 454
- Scotland 454
- Sea 153 232 411 453 454 503
- seasons 453
- sewage 232
- silica 503
- succession 232 411
- temperature 153
- two layer 503
- wastes 232
- zone 503
- zooplankton 153

- North Carolina**
- abundance 43
- agriculture 517
- Albemarle 43 450
- algae 89
- algae bluegreen 533
- ammonia 43 203 204 450
- ammonium 186
- animals 89 186 202
- ATP 135
- Bay 402
- biomass 203 533
- bloom 204 450 533
- C/N 450
- carbon 135
- chlorophyll 43
- Chowan 450 533
- community structure 89
- cycles 185 186
- DIN 450
- diversity 533
- DO 202

- DON 450
 Estuary 89 90 135 185 186 202
 203 204 402 450 492 493 533
 fertilizer 202 204 517
 fish 202
 flood control 517
 Florida 402
 freshwater 204 402
 heat 89
 hydrology 43 90 517
 industry 202 517
 inorganic 186 203
 iron 492 493
 land development 43 517
 Louisiana 402
 management 402
 methods 135 493
 microbes 135 203 533
 mining 90 202 203
 Neuse 204
 Newport 135
 nitrate 186 203 204
 nitrite 186
 nitrogen 43 185 186 202
 nutrients 89 186 203 402 517
 organic 135 186
 Palm 402
 Pamlico 90 185 186 202 203 492
 493
 pesticides 517
 phosphate 202 203 492
 phosphorus 43 90 204 493 533
 phytoplankton 43 90 202 203 204
 450 533
 plankton 202
 plants 186
 pond experiment 89
 primary 43 185 202 450
 processes 185
 productivity 43 89 185 202 450
 radioactivity 402
 Rangia 90
 recreation 517
 resources 517
 respiration 89
 runoff 402
 salinity 43 90 202 204 492
 Santee 402
 seasons 89 135 186 450
 sediments 90 135 186 492 493
 sewage 89 202 204
 Sound 43 450
 South Carolina 402
 South Creek 89
 suspended solids 492
 swamps 402
 temperature 43 89 202
 turbidity 43
 uptake rates 90 533
 urea 186
 wastes 90 204
 watersheds 517
 wetlands 402
- North Inlet
 barnacles 507
 Estuary 507
 marshes 507
 model 507
 mussels 507
 oysters 507
 phytoplankton 507
 primary 507
 processes 507
 productivity 507
 tides 507
 water column 507
- Norway
 algae 236
 assay 414
 Bight 121
 bioaccumulation 121
 bloom 414
 diatoms 414
 fish 121
 growth rates 236
 hydrology 414
 indicator species 121
 Kiel 121
 mussels 121
 N/P 414
 nitrate 414
 nutrients 236
 oil 121
 orthophosphate 414
 phosphorus 236
 phytoplankton 414
 primary 236
 secondary 236
 sewage 236
 silica 414

- tertiary** 236
- trace metals** 414
- Trondheimsfjord** 414
- Nosy Be**
 - Bay** 147
 - Cladocera** 147
 - Evdane tergestina** 147
 - Malagasy Republic** 147
 - Penilia avirostris** 147
 - phytoplankton** 147
 - rainfall** 147
 - seasons** 147
 - tropical** 147
 - zooplankton** 147
- Nova Scotia**
 - ash** 382
 - Basin** 381
 - Bedford** 381
 - bloom** 382
 - carbon** 382
 - chlorophyll** 382
 - C14** 382
 - fatty acids** 382
 - nitrate** 382
 - P/B** 381
 - phosphorus** 382
 - phytoplankton** 381 382
 - primary** 382
 - productivity** 381 382
 - ratio** 381
 - respiration** 382
 - silica** 382
 - spatial component** 381
- NO2**
 - alkalinity** 47
 - chlorophyll** 47
 - DO** 47
 - Estuary** 47
 - James** 47
 - NO3** 47
 - pH** 47
 - phosphorus** 47
 - phytoplankton** 47
 - PN** 47
 - salinity** 47
 - temperature** 47
- NO3**
 - alkalinity** 47
 - chlorophyll** 47
 - DO** 47
- Estuary** 47
- James** 47
- NO2** 47
- pH** 47
- phosphorus** 47
- phytoplankton** 47
- PN** 47
- salinity** 47
- temperature** 47
- nursery grounds**
 - Barataria** 95
 - Basin** 95
 - fisheries** 95
 - Louisiana** 95
 - nutrients** 95
 - salinity** 95
 - wetlands** 95
- nutrients**
 - abundance** 383 472
 - Acartia** 227
 - acetylene** 25
 - Actinetobacter** 431
 - adsorption** 259
 - aerobic** 58
 - agriculture** 26 218 282 517
 - agrochemicals** 455
 - Alaska** 7
 - algae** 72 89 160 216 236 343 442 448 496 497
 - algae bluegreen** 215 218
 - algae mats** 130
 - alkaline phosphatase** 142
 - alkalinity** 149 380 383 455
 - amino acids** 528
 - ammonia** 50 62 203 289 387 388 473 518
 - ammonium** 186 210 394 522
 - anaerobic** 58 358
 - animals** 89 186 518
 - assay** 58 383 448 496 497
 - assimilation capacity** 446
 - ATP** 465
 - Australia** 388
 - autotrophic** 86
 - bacteria** 431
 - Balanus** 227
 - Barataria** 95
 - Basin** 95
 - Baule Mitschlerlich** 511
 - Bay** 71 72 79 86 92 141 168 173

226 227 288 297 322 323 355 380
 387 388 402 431 448 455 465 473
 495
 Bayou 313
 Belgium 376
 Bengal 323
 benthic 72 137 358 388 410 511
 528 542
 benthic oxygen demand 80 221 542
 Bermuda 24
 bibliography 436
 Bight 286
 bioenhancement 446
 biomass 62 128 160 203 304 306
 336 445
 bloom 24 80 227 286 306 376 445
 521
 boat traffic 455
 BOD 1 71 221 342 446 495
 Bothnia 137
 boundary layer 522
 British Columbia 512
 Broadkill 101
 C/N 62 465
 cadmium 210
 California 62 128 441
 canal 512
 Cancer 139
 cannery 25
 carbon 116 168 192 220 221 342
 362 387 394 473 495 522 542
 carbon oxygen demand 80
 carbon/chlorophyll 62
 chemical 428 516
 Chesapeake 72 79 92 141 168 173
 297 355 380 455 473 495
 Chickahominy 173
 chlorinated hydrocarbons 137 491
 chlorine 455
 chlorophyll 28 79 80 101 128 215
 220 288 289 322 391 473 495
 clay 259
 Clyde 375
 cobalamin 509
 Cochin 391
 COD 289 442
 Codium 497
 coliforms 1 221 380 542
 Colville 7
 community structure 88 89
 conceptual 168
 conference 528
 Connecticut 58
 continuous culture 116 160
 Copps Brook 58
 CO₂ 220
 crabs 139
 ctenophores 362
 cycles 186 241 297 342 410 428
 522 528
 C₁₄ 391
 DC 1 380
 degradation 58
 dehydrogenase 358
 Delaware 101 342
 density 323
 deoxygenation 104 542
 deposition 376
 detergent 270 436
 detritus 75 192 528
 diatoms 376 445
 DIC 473
 disease 455
 dissolved solids 137 313
 distribution 50 71 125 128 383
 diurnal 62
 diversity 88 364 472
 DO 1 71 72 80 101 137 216 220
 221 222 226 241 270 304 307 313
 323 342 376 380 387 394 441 495
 518 542
 DOC 58 104 416 473
 dredging 96 455 498 512
 Dunaliella 496
 Duwamish 480 521
 dye 1
 economics 217 491 494 498
 eggs 139
 energy transfer 72 75 141 192
 362
 Enteromorpha 375 497
 epibiotic fouling 139
 epiphytes 455
 Estuary 1 7 50 79 80 82 89 101
 104 130 141 143 173 186 192 203
 214 215 216 217 218 220 221 222
 223 227 249 289 304 336 341 342
 375 376 380 391 402 478 480 495
 518 521
 Etang de Berre 306 307

- Eurytemora 227
 fauna 375 388 455
 fertilizer 282 355 517
 fish 88 515 516 528 542
 fisheries 7 95 96 375 465 494
 498 528
 flood control 96 517
 Florida 402
 flushing 218 512
 flux 342 362 387
 food processing 516
 foraminifera 72
 France 306
 freshwater 86 222 402
 glucose 313
 Grevelingen 336
 growth rates 236 355 522
 Gulf 137
 heat 89 141 542
 heterotrophic 86 431
 Hudson 218
 hydrology 7 71 100 137 141 226
 241 306 376 441 448 491 515 517
 521
 hypertrophication 286
 ice 542
 indicator species 383 472
 indices 92 125 220
 industry 86 380 442 498 516 517
 Inlet 25
 inorganic 101 186 203 416
 instruments 436
 interface salt fresh 376
 interstitial 58
 intertidal 25
 intracellular 100
 invertebrates 383 528
 Ireland 130
 iron 137
 isopleths 223
 James 173 380 495
 Japan 322 445
 kelp 522
 kinetics 313
Klebsiella pneumoniae 25
 Ks 62 522
 Lake 358 383
 land development 92 96 216 517
 latitudinal gradients 227
 Lebanon 472
 light 24 336 448 521 542
 linear regression 173
 local 297
 Long Island 509
 Louisiana 95 96 402 442
Macrocystis 522
 macrofauna 72 137
 macrophytes 24 72 511
 management 96 215 217 402 428
 471 491 494 498 515 528
 manganese 416
 marshes 75 149 192 210 442
 Maryland 192 304 380
 Massachusetts 82
 Mediterranean 491
 metabolic heat release 358
 metabolism 58 86 88 162 358
 methods 249 271 436 465 542
 Michaelis Menton 71
 microbes 58 72 75 139 141 142
 203 216 220 297 313 343 442 445
 491 516 528
 microcalorimetry 358
 microcosms 86 362 364 387
 mining 203 463
 Mississippi 125
 model 1 58 71 75 80 100 168 223
 341 342 436 478 515 542
 molluscs 375
 morphology 522
 mud flats 130
 Murderkill 101
 mussels 162
 N/P 160 226
 nanoplankton 288
 Narragansett 227 387
 Netherlands 336
 New Jersey 226 227
 New York 286 410
 New Zealand 25
 nitrate 50 82 125 128 143 186
 203 218 226 380 394 473
 nitrification 410
 nitrite 50 186 473
 nitrogen 50 62 79 80 100 101 160
 162 186 210 297 342 362 387 478
 522 528
 nitrogen fixation 25
 nitrogen oxygen demand 80
 nonpoint sources 223

North Carolina 89 186 203 402
 517
 Norway 236
 nursery grounds 95
 N15 62
 O/P 307
 oil 137 436 455 491 528
 Oregon 448 516
 organic 50 130 141 162 186 259
 organic matter 28 58 227 306 358
 394 410
 organisms 358 410 528 542
 orthophosphate 509
 oxygen 358
 oysters 471
 P/N 441
 Palm 402
 Pamlico 104 186 203
 Patuxent 141 173 192 304 380 495
 PC 270 465
 Periphyton 521
 pesticides 137 220 380 436 517
 528
 pH 71 101 142 259 380 383 455
 phaeophytin 473
 phosphate 50 82 125 142 143 162
 203 218 226 259 313 380 394 518
 phosphorus 79 80 100 101 137 149
 210 223 236 241 259 289 297 304
 342 387 463 473 478 528
 phytoplankton 1 28 62 71 72 79
 80 82 86 96 116 128 137 141 203
 221 227 286 288 297 304 322 341
 342 394 416 431 441 472 478 509
 511 515 521 542
 Pines 82
 plankton 226 270 288 306 364 383
 plants 141 186
 PN 270 465
 POC 58 104
 point sources 218
 pond experiment 89
 Pontchartrain 383
 Port Phillip 388
 Potomac 1 80 173 214 215 216 217
 218 220 221 222 223 289 341 342
 380 478 495
 power plant 141 498
 primary 7 24 28 62 80 86 104 137
 141 192 236 288 304 336 343 362
 383 391 410 416 441 445 465 473
 511 515 522 542
 processes 223 358
 productivity 7 24 28 62 80 86 89
 104 137 141 192 288 304 313 336
 343 362 364 383 391 410 416 428
 441 445 463 465 473 511 515 522
 542
 profiles 214
 public opinion 498
 Puget 358 515
 radioactivity 402 491 516
 rainfall 297
 Rappahannock 173 380 495
 Raritan 226 227 288
 rate constants 542
 reaeration 80 542
 recreation 82 96 517
 redox potential 313
 removal 271
 resources 7 125 216 222 491 494
 498 516 517
 respiration 28 80 86 89 104 343
 441
 Rhode Island 227 387
 Rogerstown 130
 runoff 26 96 143 216 223 383 402
 442 465
 Sacramento 341
 Sagami 431
 salinity 50 71 95 101 226 227
 241 259 270 383 388 441 455 471
 512
 salt wedge 480
 salts 143
 sampling frequency 249
 San Francisco 71
 sand 375
 Santee 402
 Scheldt 376
 Scotland 375
 Sea 445 491
 seagrass 355 528
 seasons 50 71 89 142 173 186 226
 227 391 441 448 509 521
 secchi disc 441
 secondary 236 343
 sediment water 259 313 387
 sediments 25 58 137 149 186 210
 289 297 304 358 375 376 380 387

- 388 410 491
 self purification 376
 seston 270
 sewage 25 62 72 82 89 96 116 142
 160 215 218 236 259 271 343 375
 380 388 416 442 448 471 472 516
 sewage treatment farm 388
 silica 149 528
 silicate 50
 slaughterhouse 25
 soil erosion 96
 Sound 125 358 509 515
 South Carolina 149 402
 South Creek 89
 Southampton 394
 Spartina 75
 spatial distribution 223 542
 specie key 455
Sphaerotilus 516
 Squamish 249
 St Lawrence 50
 St Margaret 465
 stratification 307
 stress 88 528
Suagus 82
 submerged vegetation 455
 succession 116 515
 Suruga 431
 suspended solids 376 465
Susquehanna 79 173 380 495
 swamps 402
 symposium 137 297 341 494 498
 TDC 473
 temperature 50 71 89 128 226 259
 270 391 394 441 448 455 512
 temporal distribution 223 542
 tertiary 236
 tetrazolium salt 58
 Texas 86 88
 Thames 143
 thermal 141 304 516
 thiamine 509
 three dimensional 515
 tides 1 101 210 512 518
 TOC 104 220 442
 Tokyo 431
 toxicity 116
 trace metals 72 137 149 210 216
 376 380 387 394 436 455 491 516
 528
 transport 100 223 376
 Trinity 86
 trophic levels 515
 turbidity 455 511
 turnover rates 394
Ulva 82
 United Kingdom 143
 uptake rates 259 297
Uranouchi 322
 urea 50 62 186 528
 USSR 162
 vertical transport 297
Vibrios 431
 Virginia 227 259 380 518
 viruses 216
 Vm 62 522
 Waimea 25
 Washington 358 480 515
 wastes 25 86 130 137 143 216 218
 220 221 222 223 227 282 322 342
 380 442 512
 water velocity 336 455 522
 watersheds 58 92 173 380 517
 weight 289
Werribee 388
 wetlands 26 95 96 101 192 402
 528
 winter 445
 worms 375
Yaquina 448
 York 173 227 380 495 518
 zinc 210
 zooplankton 72 86 88 137 227 297
 341 342 391 394 431 528 542
Zostera marina 336
- N14
- methods 118
 - N15 118
 - secondary 118
 - wastes 118
- N15
- ammonia 62 190
 - ammonium 129
 - Bay 190 252
 - biomass 62
 - C/N 62
 - California 62 129
 - carbon/chlorophyll 62
 - cycles 129
 - denitrification 190

- diurnal 62 129
- Japan 190
- Ks 62
- Mangoku 190 252
- methods 118
- microbes 252
- nitrate 129 252
- nitrification 252
- nitrogen 62 129
- nutrients 62
- N14 118
- Odawa 252
- phytoplankton 62 129
- PON 190
- primary 62 129
- productivity 62 129
- reduction 252
- secondary 118
- sediments 190 252
- sewage 62 129
- Simoda 190
- Tokyo 190
- uptake rates 129
- Ura 190 252
- urea 62 129
- Vm 62
- wastes 118
- Zostera 252

- O/P**
- DO 307
- Etang de Berre 307
- nutrients 307
- stratification 307
- Obelia dichotoma**
- buoys 37
- California 37
- ceramic panel substrates 37
- chlorinated hydrocarbons 37
- dispersion 37
- economics 37
- methods 37
- productivity 37
- sewage 37
- trace metals 37
- Odawa**
- Bay 252
- Mangoku 252
- microbes 252
- nitrate 252
- nitrification 252
- N15 252
- reduction 252
- sediments 252
- Ura 252
- Zostera 252

- oil**
- agrochemicals 455
- algae 400
- alkalinity 455
- amino acids 225 456 528
- animals 399
- assay 399
- bacteria 456
- bacteria proteolytic 456
- Bay 318 423 455
- benthic 137 338 400 528
- bibliography 4 211 344 436
- Bight 121
- bioaccumulation 121
- boat traffic 455
- Bothnia 137
- California 400
- carbohydrates 225 456
- Chesapeake 318 455
- chlorinated hydrocarbons 137 491
- chlorine 455
- chlorophyll 423
- clams 225
- COD 338
- conference 528
- crustaceans 338
- cycles 528
- C14 456
- detergent 436
- detritus 528
- disease 455
- dissolved solids 137
- DO 137
- dredging 4 318 455
- dye 318
- economics 4 491
- epiphytes 455
- Estuary 423
- eutrophication 4 211 344
- fatty acids 423
- fauna 455 456
- fish 121 513 528
- fisheries 338 528
- fungus 456
- glycine 225

Gulf 137
 Harbor 400
 heterotrophic 456
 hydrology 137 399 491
 indicator species 121 399 400
 indices 368 456
 industry 211
 instruments 436
 invertebrates 528
 iron 137
 Japan 338
 Kiel 121
 landfill 340
 Los Angeles 400
 macrofauna 137
 management 491 528
 Mediterranean 491
Mercenaria 225
 methods 399 436 456
 microbes 399 423 456 491 528
 mining 513
 model 338 436
 mussels 121
 Narragansett 423
 New York 340
 nitrogen 338 528
 Norway 121
 nutrients 137 436 455 491 528
 oligochaetes 400
 organic matter 338
 organisms 528
 oxidases 368
 pesticides 4 137 344 436 513 528
 pH 455
 phosphorus 137 528
 phytoplankton 137 456
 pollution 4
 polychaetes 400
 primary 137
 processes 456
 productivity 137
 Providence 423
 pulp mill 456 513
 radioactivity 4 491 513
 remote sensing 211 318
 resources 211 491
 runoff 513
 salinity 455 456
 Sea 338 491
 seagrass 528
 sediments 137 338 491
 Seto 338
 sewage 225 318 338 340 400 423
 456 513
 silica 528
 specie key 455
 stress 225 528
 submerged vegetation 455
 sulfate 338
 sulfide 338
 suspended solids 423
 symposium 137 456
 Taunton 423
 taurine 225
 temperature 455
 thermal 4 211 344 456 513
 trace metals 4 137 436 455 456
 491 528
 turbidity 455
 urea 528
 wastes 137 399 400 513
 water velocity 455
 wetlands 528
 zooplankton 137 528
 oligochaetes
 abundance 167
 algae 400
 annelids 167
 Bathyporia sarsi 11
 Bay 11
 benthic 11 400 539
 biomass 167
 bioturbation 539
 BOD 539
 California 400
 Capitella capitata 11
 community structure 11
 Delaware 539
 diversity 167
 Estuary 167 539
 fauna 167 539
 gastrotrichs 167
 Great Britian 167
 Harbor 400
 indicator species 400
 Kiel 11
 Limnodrilus 539
 Los Angeles 400
 macrofauna 11
 microbes 167

nematodes 167
 oil 400
 organic 539
 polychaetes 167 400
Pygospio elegans 11
 sediments 539
 sewage 11 167 400
 Tees 167
 wastes 400 539
Olisthodiscus luteus
 alkaline phosphatase 482
 ammonium 482
 Bay 287
 bloom 287
 C/N 482
 carbon 482
 chlorophyll 482
 diurnal 482
 Ks 482
Massartia rotundata 287
 New York 287
 nitrate 482
 nitrogen 482
 phosphorus 482
 phytoflagellate 287
Prorocentrum micans 287
 salinity 287
 uptake rates 482
one dimensional
 ammonia 407
 Bay 419
 benthic oxygen demand 420
 CBOD 407 408
 Chesapeake 419
 chlorophyll 407
 coliforms 407
 deterministic 419
 diffusion 419
 DO 407 408
 Estuary 255 407 408 419
 finite difference 34
 freshwater 420
 hydrology 420
 inorganic 407
 light 420
 model 34 255 407 408 419 420
 NBOD 408
 nitrate 407
 nitrite 407
 nitrogen 407
 organic 407
 Pagan 407 408
 phosphorus 407
 phytoplankton 407
 Potomac 255 419
 real time 407 408
 runoff 420
 salinity 407 408
 stochastic 255 420
 temperature 420
 time dependent 255
 turbidity 420
Oregon
 algae 448
 algae mats 33
 assay 448
 Bay 448
 benthic 33
 benthic oxygen demand 33
 chemical 516
 Columbia 175
 dispersion coefficient 170
 Estuary 33 170 175
Eurytemora 175
 fish 516
 food processing 516
 hydrology 448
 industry 516
 light 175 448
 linear regression 175
 microbes 516
 model 33 170
 nitrate 175
 nutrients 448 516
 phosphate 175
 phytoplankton 175
 radioactivity 516
 resources 516
 salinity 33
 seasons 175 448
 sediments 33
 sewage 448 516
 silica 175
 slack water 170
Sphaerotilus 516
 sulfide 33
 temperature 448
 thermal 516
 tides 33
 trace metals 516

- Yaquina 33 170 448
 zooplankton 175
organic
 adsorption 259
 algae mats 130
 ammonia 50 157 407
 ammonium 186
 animals 186
 ATP 135
 Bay 141
 benthic 269 539
 bioturbation 539
 BOD 539 541
 carbon 27 135
 CBOD 407
 Chesapeake 141
 chlorophyll 407
 clay 259
 coliforms 407
 cycles 186
 Delaware 539
 denitrification 157
 distribution 50 269 309
 DO 407 541
 energy transfer 141
 Estuary 27 50 130 135 141 186
 309 407 506 539
 eutrophic 157
 fauna 539
 heat 141
 heterotrophic potential 500
 hydrology 141
 indicator species 269
 indices 269
 inorganic 27 186 407 506
 intertidal 309
 Ireland 130
 Irish 309
 James 27
Limnodrilus 539
 macrofauna 309
 macrophytes 157
 Mersey 309
 metabolism 162
 methods 135
 microbes 27 135 141 500 541
 mixing depth 541
 model 27 157 407
 mud flats 130
 mussels 162
 Newport 135
 nitrate 27 50 157 186 407
 nitrification 157
 nitrite 27 50 186 407
 nitrogen 50 157 162 186 407 506
 541
 nonpoint sources 541
 North Carolina 135 186
 nutrients 50 130 141 162 186 259
 oligochaetes 539
 one dimensional 407
 organic matter 157
 Pagan 407
 Pamlico 186
 Patuxent 141
 pH 259
 phosphate 27 50 162 259
 phosphorus 259 407 541
 phytoplankton 27 141 157 407 506
 plants 141 186
 point sources 541
 populations mixed 500
 power plant 141
 predictions 27 541
 primary 141
 processes 27 157 506
 productivity 141
 profiles 541
 real time 407
 Rogerstown 130
 runoff 541
 salinity 50 259 407 541
 Schofield 27
 Sea 309
 seasons 50 135 186 309 506
 sediment water 259
 sediments 135 186 539 541
 sewage 27 259
 silicate 50
 soil erosion 541
 St Lawrence 50
 stochastic 27
 surface waters 541
 temperature 27 50 259 541
 thermal 141 541
 turbidity 541
 uptake rates 157 259
 urea 50 186
 USSR 162
 Vellar 506

Virginia 27 259
 wastes 130 309 500 539
 zooplankton 157
organic aggregates
 DOM 404
 Long Island 404
 microbes 404
 phytoplankton 404
 POM 404
 seasons 404
 Sound 404
 zooplankton 404
organic enrichment
 benthic 371
 community structure 371
 ecocline 371
 gradient 371
 indicator species 371
 indices 371
 recovery 371
 sediments 371
 succession 371
organic matter
 Acartia 227
 aerobic 58
 ammonia 157
 ammonium 394
 anaerobic 58 358
 assay 58
 bacteria attached 164
 bacteria free 164
 Balanus 227
 Bay 227 422
 Belgium 504
 benthic 338 358 410
 biomass 306
 bloom 227 306
 BOD 290 324
 C/N 324
 carbon 324 394
 Chesapeake 422
 chlorophyll 28
 COD 338
 coliforms 290
 Connecticut 58
 Copps Brook 58
 crustaceans 338
 cycles 410
 decomposition 299
 degradation 58
 dehydrogenase 358
 denitrification 157 324 504
 detergent 148 413
 DO 148 290 394
 DOC 58
 dredging 148
 electron transfer 299
 energy transfer 299
 Estuary 148 164 227 474
 Etang de Berre 306
 Eurytemora 227
 eutrophic 157
 fisheries 338
 France 306
 glucose 164
 growth rates 299
 Humber 164
 hydrology 306
 inorganic 413
 interstitial 58 504
 Japan 338
 Lake 358
 latitudinal gradients 227
 macrophytes 157
 metabolic heat release 358
 metabolism 58 358
 microbes 58 299
 microcalorimetry 358
 mineralization 164
 model 58 157 338 504
 municipal 413
 N/P 413
 Narragansett 227
 New Jersey 227
 New York 410
 nitrate 157 394 504
 nitrification 157 410 504
 nitrite 290 504
 nitrogen 157 338 413
 nutrients 28 58 227 306 358 394
 410
 oil 338
 organic 157
 organisms 358 410
 oxygen 358
 pH 290
 phosphate 394
 phosphorus 413
 phytoplankton 28 157 227 394 413
 plankton 306

POC 58
 Portugal 474
 primary 28 410
 processes 157 358
 productivity 28 410
 Puget 358
 Raritan 227
 redox potential 299
 respiration 28
 Rhode Island 227
 Sado 474
 salinity 227 290 422
 Sea 338
 seasons 227 290
 secchi disc 422
 sediments 58 338 358 410 504
 Seto 338
 sewage 148 324 338
 shellfish 290
 Sound 358
 Southampton 394
 steady state 299
 substrates 299
 sulfate 338
 sulfide 338
 suspended solids 164 422
 Tagus 474
 temperature 290 394 474
 tetrazolium salt 58
 Thames 148
 trace metals 394
 turnover rates 394
 uptake rates 157
 Virginia 227
 Washington 358
 wastes 227 413
 watersheds 58
 wind 422
 yeast 474
 York 227
 zooplankton 157 227 394
organisms
 Alaska 319
 algae bluegreen 335
 amino acids 528
 anaerobic 358
 arctic 319
 Baltic 335
 benthic 234 319 335 358 410 447
 508 528 542
 benthic oxygen demand 542
 bioenhancement 447
 biomass 447
 California 447
 cannery 447
 carbon 542
 coliforms 542
 conference 528
 Cook 319
 cycles 410 528
 dehydrogenase 358
 deoxygenation 542
 detergent 234 335
 detritus 528
 diversity 447
 DO 319 335 447 542
 economics 508
 energy transfer 335
 fish 335 447 528 542
 fisheries 528
 France 234
 Gulf 234
 Harbor 447
 heat 542
 ice 542
 indicator species 335
 industry 508
 Inlet 319
 invertebrates 528
 Lake 358
 light 542
 Los Angeles 447
 macroalgae 335
 management 508 528
 Marseilles 234
 metabolic heat release 358
 metabolism 358
 methods 542
 microbes 319 528
 microcalorimetry 358
 model 335 542
 New York 410
 nitrification 410
 nitrogen 319 528
 nutrients 358 410 528 542
 oil 528
 organic matter 358 410
 oxygen 358
 pesticides 508 528
 pH 319

phosphorus 319 528
 phytoplankton 542
 plankton 319 447
 plants 508
Posidonia oceanica 234
 primary 335 410 542
 processes 358
 productivity 335 410 447 542
 public opinion 508
 Puget 358
 rate constants 542
 reaeration 542
 recreation 508
 salinity 319
 Sea 335
 seagrass 234 528
 sediments 358 410
 sewage 234 319 335 447
 silica 319 528
 Sound 358
 spatial distribution 542
 stress 528
 symposium 335
 temporal distribution 542
 tertiary 508
 trace metals 528
 urea 528
 Washington 358
 wastes 447 508
 wetlands 528
 zooplankton 335 528 542
Orielton
 agriculture 60
 algae mats 60
 Australia 60
 Lagoon 60
 runoff 60
 salinity 60
 sewage 60
 Tasmania 60
 temperature 60
Orinoco
 dissolved 131
 Estuary 131
 inorganic 131
 Mississippi 131
 plumes 131
 Savannah 131
 silica 131
 suspended solids 131
 uptake rates 131
orthophosphate
 algae 133
 alkalinity 184
 ammonia 5 184
 ammonium 228
 assay 414
 Bay 133 184 228 469
 benthic 5
 biomass 133
 bloom 414
 Chesapeake 133 184 469
 chlorine 184
 chlorophyll 184
 cobalamin 509
 diatoms 5 414
 DO 117 184
 DOP 469
 Estuary 133
 hydrology 414
 interstitial 46
 iron 46
 K_s 469
 laboratory culture 5
 Long Island 509
 methods 46 228
 microbes 133
 N/P 414
 nitrate 5 228 414
 nitrite 5 228
 nitrogen 228
 Norway 414
 nutrients 509
 oxidation 46
 pH 184
 phosphate 184
 phosphorus 228
 phytoplankton 414 469 509
 polyphosphate 469
 primary 5
 processes 184
 productivity 5
 Puget 117
 P32 469
 Rhode 133
 salinity 184
 San Francisco 228
 seasons 509
 silica 414
 Sound 117 509

sulfate 184
 sulfide 184
 temperature 184
 thiamine 509
 trace metals 184 414
 Trondheimsfjord 414
 turnover rates 469
 uptake rates 133
 vertical distribution 184
 Vm 469
 wastes 117
Oslofjord
 algae 248
 benthic 248
 life cycles 248
 seasons 248
 spatial distribution 248
 temporal distribution 248
outfall diffuser
 dye 68
 Maryland 68
 salinity 68
 sewage 68
 temperature 68
oxidases
 indices 368
 oil 368
oxidation
 ammonia 477
 BOD 477
 California 477
 cycles 233 477
 Delaware 477
 Delta 477
 Denmark 233
 DIN 477
 DO 477
 Estuary 477
 interstitial 46
 iron 46
 methods 46
 model 477
 nitrite 477
 nitrogen 477
 orthophosphate 46
 phytoplankton 477
 Potomac 477
 reduction 233
 Sacramento San Joquin 477
 sediments 233
 stochastic 477
 sulphur 233
 turnover rates 233
 zooplankton 477
oxidation rates
 Aisne 35
 Bay 485
 carbon 35
 Chesapeake 485
 Estuary 35
 France 35
 interstitial 485
 iron 485
 methods 35 485
 nitrogen 35
 Seine 35
 temperature 35
oxygen
 anaerobic 358
 benthic 358
 carbon 377
 dehydrogenase 358
 distribution 377
 Estuary 377
 Lake 358
 metabolic heat release 358
 metabolism 358
 microcalorimetry 358
 nitrogen 377
 nutrients 358
 organic matter 358
 organisms 358
 Potomac 377
 processes 358
 Puget 358
 sediments 358
 Sound 358
 Washington 358
oyster reefs
 Apalachee 191
 Bay 191
 benthic 191
 Florida 191
 indicator species 191
 invertebrates 191
 mud flats 191
 pulp mill 191
 seagrass 191
 wastes 191
oysters

- abundance 499
- algae 412
- aquaculture 412
- barnacles 507
- Bay 499
- carbon 499
- cycles 499
- Estuary 507
- Malpeque 499
- management 471
- marshes 507
- microbes 499
- model 507
- mussels 507
- nitrogen 499
- North Inlet 507
- nutrients 471
- phosphate 108
- phosphorus 499
- phytoplankton 507
- primary 507
- processes 507
- productivity 499 507
- salinity 471
- sewage 412 471
- tides 507
- water column 507
- ozonization
 - artificial recharge 138
 - canal 138
 - dissolved solids 138
 - economics 138
 - Estuary 138
 - nitrification 138
 - recycle 138
 - sewage 138
 - Thames 138
 - water supply 138
- P/B
 - Basin 381
 - Bay 330
 - Bedford 381
 - Hawaii 330
 - Kaneohe 330
 - microcopepods 330
 - nitrogen 330
 - Nova Scotia 381
 - phytoplankton 381
 - productivity 330 381
 - ratio 381
- P/N
 - secondary 330
 - sewage 330
 - spatial component 381
- Pagan
 - ammonia 407
 - CBOD 407 408
 - chlorophyll 407
 - coliforms 407
 - DO 407 408
 - Elizabeth 327
 - Estuary 327 407 408
 - Harbor 327
 - industry 327
 - inorganic 407
 - James 327
 - Little Creek 327
 - Lynnhaven 327
 - management 327
 - model 327 407 408
 - Nansemond 327
 - NBOD 408
 - nitrate 407
 - nitrite 407
 - nitrogen 407
 - nonpoint sources 327
 - one dimensional 407 408
 - organic 407
 - phosphorus 407
 - phytoplankton 407
 - Poquoson 327
 - predictions 327
 - real time 407 408
 - salinity 407 408
 - sewage 327
 - wastes 327
 - York 327
- Palm

Bay 402
 Estuary 402
 Florida 402
 freshwater 402
 Louisiana 402
 management 402
 North Carolina 402
 nutrients 402
 radioactivity 402
 runoff 402
 Santee 402
 South Carolina 402
 swamps 402
 wetlands 402
Pamlico
 algae 87
 algae bluegreen 66
 ammonia 203
 ammonium 186
 animals 186 202
 benthic 87
 biomass 66 201 203
 bloom 201
 cycles 185 186
 deoxygenation 104
 DO 202
 DOC 104
 DON 201
 Estuary 66 87 90 103 104 185 186
 201 202 203 492 493
 fauna 87
 fertilizer 202
 fish 202
 hydrology 87 90 201
 industry 202
 inorganic 186 201 203
 iron 492 493
 macrophytes 103
 methods 493
 microbes 203
 mining 66 87 90 201 202 203
 nitrate 186 201 203
 nitrite 186
 nitrogen 66 87 185 186 201 202
 North Carolina 90 185 186 202
 203 492 493
 nutrients 104 186 203
 organic 186
 phosphate 202 203 492
 phosphorus 66 87 90 201 493
 phytoplankton 66 87 90 201 202
 203
 plankton 202
 plants 186
 POC 104
 pool experiment 66
 primary 104 185 202
 processes 185
 productivity 104 185 202
 Rangia 90
 respiration 104
 salinity 90 202 492
 seasons 103 186
 sediments 90 186 201 492 493
 sewage 202
 succession 201
 suspended solids 492
 Tar 201
 temperature 202
 TOC 104
 uptake rates 90
 urea 186
 wastes 66 90
 zooplankton 87
parasites
 benthic 356
 disease 356
 fish 356
 macrofauna 356
 Mississippi 356
 pesticides 356
 sewage 356
 trace metals 356
Parramatta
 chlorophyll 403
 Estuary 403
 microplankton 403
 nanoplankton 403
 primary 403
 productivity 403
participation
 agencies 61
 Bay 61
 local 61
 management 61
 public opinion 61
 San Francisco 61
particulate matter
 ATP 295
 Basin 295

- Bedford 295
- carbohydrates 295
- carbon 295
- flagellates 295
- phytoplankton 295
- protein 295
- zooplankton 295
- pathogens**
 - coliforms 163
 - feces 163
 - gulls 163
 - nitrogen 163
 - phosphorus 163
 - sewage 163
- Patuxent**
 - alkalinity 380
 - ATP 193
 - Bay 141 173 380 495
 - biomass 304
 - BOD 495
 - carbohydrates 193
 - carbon 192 193 195 495
 - Chesapeake 141 173 380 495
 - Chickahominy 173
 - chlorophyll 193 350 495
 - coliforms 380
 - Copepoda 195
 - crude fiber 193
 - crustaceans 195
 - DC 380
 - detritus 192 195
 - diurnal 93
 - DO 93 304 380 495
 - energy transfer 141 192 195
 - Estuary 93 141 173 192 193 195 304 350 380 495
 - Eurytemora affinis* 195
 - heat 141
 - hydrology 141
 - indices 350
 - industry 380
 - James 173 380 495
 - linear regression 173
 - marshes 192 193
 - Maryland 93 192 193 195 304 350 380
 - methods 350
 - microbes 141 195
 - nitrate 380
 - nitrogen 193
 - nutrients 141 173 192 304 380 495
 - organic 141
 - pesticides 380
 - pH 380
 - phosphate 380
 - phosphorus 193 304
 - phytoplankton 141 304
 - plants 141
 - Potomac 173 380 495
 - power plant 141
 - primary 93 141 192 195 304
 - productivity 93 141 192 195 304
 - Rappahannock 173 380 495
 - remote sensing 350
 - respiration 93
 - Scottiana canadensis* 195
 - seasons 173
 - sediments 304 380
 - sewage 93 380
 - suspended solids 350
 - Susquehanna 173 380 495
 - thermal 141 304
 - trace metals 380
 - Virginia 380
 - wastes 380
 - watersheds 173 380
 - wetlands 192 195
 - York 173 380 495
- Pb210**
 - Estuary 158
 - history 158
 - marshes 158
 - plutonium 158
 - records 158
 - Savannah 158
 - sediments 158
- PC**
 - aerobic 172
 - ammonium 172
 - anaerobic 172
 - ATP 172 465
 - Bay 465
 - Bight 172
 - C/N 465
 - calorific content 172
 - decomposition 172
 - detergent 270
 - DIC 172
 - DO 270

DOC 172
fisheries 465
 methods 465
 New York 172
 nitrate 172
 nitrite 172
 nutrients 270 465
 plankton 270
 PN 172 270 465
 primary 465
 productivity 465
 runoff 465
 salinity 270
 seston 270
 sewage 172
 St Margaret 465
 suspended solids 465
 temperature 270
Penilia avirostris
 Bay 147
 Cladocera 147
Evdne tergestina 147
 Malagasy Republic 147
 Nosy Be 147
 phytoplankton 147
 rainfall 147
 seasons 147
 tropical 147
 zooplankton 147
Penobscot
 benthic 106
 Damariscotta 106
 DO 106
 Estuary 106
 fish 106
 growth rates 106
 invertebrates 106
 laboratory culture 106
 larvae 106
 Maine 106
 salinity 106
 sediments 106
 settlement 106
 Sheepscot 106
 temperature 106
percolator
 ammonia 165
 enzymes 165
 methods 165
 sediments 165
 sulfate 165
 urea 165
Periphyton
 ammonia 481
 bloom 521
 chlorophyll 481
 Duwamish 481 521
 Estuary 481 521
 hydrology 521
 indicator species 481
 light 521
 nitrate 481
 nitrite 481
 nutrients 521
 phosphate 481
 phytoplankton 521
 primary 481
 productivity 481
 seasons 521
 Washington 481
 wastes 481
pesticides
 agriculture 517
 alkalinity 380
 amino acids 528
 Bay 380
 benthic 137 356 508 528
 bibliography 4 344 435 436
 BOD 348
 Bothnia 137
 Broad River 292
 carbon 220
 Chesapeake 380
 chlorinated hydrocarbons 137
 chlorophyll 220
 coliforms 380
 conference 528
 CO₂ 220
 cycles 528
 DC 380
 detergent 436
 detritus 292 528
 disease 356
 dissolved solids 137
 DO 137 220 380
 dredging 4
 economics 4 508
 energy transfer 348
 Estuary 220 292 380
 eutrophication 4 344 435

- fertilizer 292 517
 fish 356 513 528
 fisheries 528
 flood control 517
 Florida 292
 Gulf 137
 hydrology 137 517
 indices 220
 industry 348 380 508 517
 instruments 436
 invertebrates 528
 iron 137
 James 380
 land development 517
 leaves 292
 macrofauna 137 356
 management 435 508 528
 mangroves 292
 Maryland 380
 methods 435 436
 microbes 220 528
 mining 513
 Mississippi 356
 model 348 436
 nitrate 380
 nitrogen 528
 North Carolina 517
 nutrients 137 220 380 436 517
 528
 oil 4 137 344 436 513 528
 organisms 508 528
 parasites 356
 Patuxent 380
 pH 380
 phosphate 380
 phosphorus 137 528
 phytoplankton 137
 plants 508
 pollution 4
 Potomac 220 380
 primary 137
 productivity 137
 public opinion 508
 pulp mill 513
 radioactivity 4 513
 Rappahannock 380
 recreation 508 517
 resources 517
 runoff 513
 seagrass 528
 secondary 348
 sediments 137 380
 sewage 348 356 380 513
 Shark 292
 silica 528
 stress 528
 Susquehanna 380
 symposium 137
 tertiary 508
 thermal 4 344 435 513
 TOC 220
 trace metals 4 137 292 348 356
 380 435 436 528
 urea 528
 Virginia 380
 wastes 137 220 348 380 508 513
 watersheds 380 517
 wetlands 528
 York 380
 zooplankton 137 528
- pH**
 abundance 383
 adsorption 259
 agrochemicals 455
 Alaska 319
 algae 432
 alkaline phosphatase 142
 alkalinity 47 67 184 293 380 383
 455
 ammonia 44 67 176 184 293 311
 ammonium 38
 arctic 319
 assay 383
 batch culture 144
 Bay 8 67 71 184 207 293 380 455
 Bayou 315
 benthic 319
 biomass 144 332
 black necrosis 2
 bloom 144 432
 boat traffic 455
 BOD 71 290 311
 Broadkill 101
 Burry Inlet 2
 California 8
 carbon 144
 carbonate ion 308
 Chesapeake 67 184 207 293 380
 455
 chloride 293

chlorine 184 455
 chlorophyll 47 67 101 184
 Chlorophyta 144
Chrysaora quinquecirrha 38
 clay 259
 coliforms 290 380
 continuous culture 144
 Cook 319
 CO₂ 105 144 432
Crangon crangon 2
 Cyanophyta 144
 DC 380
 Delaware 101
 detergent 2
 disease 455
 dissolved 207
 distribution 71 293 383
 DO 2 8 47 67 71 101 105 184 290
 311 315 319 332 380
 DOC 308 311
 DON 176 311
 dredging 455
 epiphytes 455
 Estuary 47 67 101 380
 fauna 455
 fish 44
 flux 315
 Georgia 176
 Great Britain 2
 Humboldt 8
 hydrology 71
 indicator species 383
 industry 380
 Inlet 319
 inorganic 101
 interface salt fresh 311
 interstitial 207 293
 invertebrates 383
 iron 293
 James 47 380
 Lagoon 105
 Lake 383
 manganese 207 293
 Maryland 380
Michaelis Menton 71
 microbes 2 142 319 332
 model 71 105 207
 molluscs 308
Murderkill 101
 nitrate 38 67 176 380
 nitrite 67 176 290 311
 nitrogen 67 101 144 319
 nitrogen fixation 144
 NO₂ 47
 NO₃ 47
 nutrients 71 101 142 259 380 383
 455
 oil 455
 organic 259
 organic matter 290
 organisms 319
 orthophosphate 184
 Patuxent 380
 pesticides 380
 phosphate 38 67 142 184 259 293
 315 380
 phosphorus 47 101 259 319 432
 phytoplankton 47 67 71 144
 plankton 319 383
 PN 47
 poly B hydroxybutyrate 332
 polyp 38
 pond experiment 8
 Pontchartrain 383
 Potomac 67 380
 primary 383
 processes 184 315
 productivity 67 383
 pS2 526
 pulp mill 302
 rainfall 176
Rappahannock 380
 redox potential 293 315 526
 remote sensing 38
 runoff 383
 salinity 2 44 47 67 71 101 184
 259 290 308 311 315 319 332 383
 455
 salmonids 8 302
 San Francisco 71
 sea nettle 38
 seasons 71 142 290 293
 secondary 144
 sediment water 259 315
 sediments 332 380 526
 sewage 8 38 105 142 144 259 319
 380 432
 shellfish 290
 silica 293 319
 specie key 455

- stabilization 105
- steady state 207
- submerged vegetation 455
- succession 144
- sulfate 184 293
- sulfide 184
- Susquehanna 380
- temperature 2 44 47 67 71 105
184 259 290 315 455
- Texas 315
- tides 101
- toxicity 302
- trace metals 2 184 311 380 455
- turbidity 67 455
- uptake rates 259
- vertical distribution 184
- Virginia 259 380
- wastes 105 302 380
- water velocity 455
- watersheds 380
- wetlands 101
- York 380
- zooplankton 67
- Phaeophyta**
 - benthic 333
 - C/N 333
 - macrophytes 333
 - Spain 333
- phaeophytin**
 - ammonia 473
 - Bay 473
 - carbon 473
 - Chesapeake 473
 - chlorophyll 473
 - DIC 473
 - DOC 473
 - nitrate 473
 - nitrite 473
 - nutrients 473
 - phosphorus 473
 - primary 473
 - productivity 473
 - TDC 473
- PHB**
 - biomass 525
 - metabolism 525
 - microbes 525
 - poly B hydroxybutyrate 525
 - sediments 525
- phosphate
- abundance 113
- adsorption 259
- agriculture 218
- algae 430
- algae bluegreen 218 247
- alkaline phosphatase 142
- alkalinity 67 184 293 380
- ammonia 50 67 69 123 178 184 203
247 273 293 314 430 466 481 518
520
- ammonium 38 113 394
- animals 202 518
- Aqaba 146
- Bay 52 64 67 178 184 224 226 293
380 466
- Bayou 181 313 314 315
- benthic 178 224
- Bight 113
- biomass 52 203 247 466
- Black 303
- bloom 520
- British Columbia 247
- calcium 146
- Canada 52
- carbon 27 181 394 454
- Chaetoceros simplex 303
- chambers 178
- Chesapeake 67 184 293 380
- Chlorella salina 69
- chloride 293
- chlorine 184
- chlorophyll 64 67 113 184 454
481
- Chlorophyta 430
- Chrysaora quinquecirrha 38
- clay 259 385 458
- coliforms 380
- Columbia 175
- Cyanophyta 430
- cycles 224 247
- DC 380
- dissolved solids 313
- distribution 50 113 125 293
- DO 67 184 202 226 313 314 315
380 394 518
- Doboy 385
- DON 466
- DPO 466
- Duwamish 481 520
- Estuary 27 50 67 82 143 175 181

202 203 218 219 380 430 481 492
 518 520
Eurytemora 175
 exchange diffusion 123
 excretion rates 466
 fertilizer 202 273 361
 fish 202
 Florida 181 314
 flushing 218
 flux 178 315 385 458
 freshwater 113 219
 Georgia 385
 glucose 313
 Gulf 146
 Harbor 458
 Hawaii 64 466
 Hong Kong 458
 Hudson 218
 hydrology 224 226 520
 indicator species 303 481
 indices 125
 industry 202 361 380
 inorganic 27 178 181 203 385
 interstitial 293
 ion exchange 273
 iron 293 492
 James 27 380
 Jordan 146
 Kaneohe 64 466
 kinetics 313
 land development 458
 light 175
 linear regression 175
 Loch 454
 macroinvertebrates 314
 macrophytes 52 247
 manganese 293
 Maryland 380 430
 Massachusetts 82
 metabolism 162 224 466
 methods 123
 microbes 27 142 203 247 313 385
 mining 202 203
 Mississippi 125
 model 27 64
 mussels 162
 N/P 226
 Narragansett 178
 Nevis 454
 New Jersey 113 224 226
 New York 113
 nitrate 27 38 50 64 67 69 82 113
 123 125 143 175 178 203 218 219
 224 226 303 314 380 394 454 481
 nitrite 27 50 67 113 178 219 481
 nitrogen 50 67 162 181 202 247
 North 454
 North Carolina 202 203 492
 nutrients 50 82 125 142 143 162
 203 218 226 259 313 380 394 518
 Oregon 175
 organic 27 50 162 259
 organic matter 394
 orthophosphate 184
 oysters 108
 Pamlico 202 203 492
 Patuxent 380
 Periphyton 481
 pesticides 380
 pH 38 67 142 184 259 293 315 380
 phosphorus 181 247 259
 phytoplankton 27 64 67 82 113
 175 202 203 303 314 361 394 520
 Pines 82
 plankton 202 226
 POC 454
 point sources 218
 polyp 38
 Potomac 67 218 219 380 430
 predictions 27
 primary 64 181 202 361 481
 processes 27 184 224 315
 productivity 64 67 181 202 313
 361 454 481
 protein 69
 P32 385
 Quinte 52
 Rappahannock 380
 Raritan 224 226
 recreation 82
 red tide 361
 redox potential 293 313 315
 remote sensing 38
 resources 125
 Rhode Island 178
 Rockaway Point 113
 runoff 143
 salinity 50 67 69 113 184 202
 226 259 315 458 492
 salts 143

Schofield 27
 Scotland 454
 Sea 303 454
 sea nettle 38
 seasons 50 142 175 224 226 293
 secondary 123 273 430
 sediment water 178 181 259 313
 315 385
 sediments 219 247 380 458 492
 sewage 27 38 52 64 69 82 142 146
 202 218 219 259 273 303 380 430
 520
 silica 113 175 293
 silicate 50
 size dependent 466
 Sound 125 385
 Southampton 394
 spatial distribution 219
 St Lawrence 50
 stochastic 27
 Suagus 82
 sulfate 184 293
 sulfide 184
 suspended solids 113 492
 Susquehanna 380
 temperature 27 50 67 113 178 184
 202 226 259 315 394
 temporal distribution 219
 tertiary 52
 Texar 181 314 315
 Thames 143
 tides 518
 TKN 219
 TOC 314
 Tolo 458
 trace metals 184 380 394
 turbidity 67
 turnover rates 394
 Ulva 82
 United Kingdom 143
 uptake rates 69 259
 urea 50
 USSR 162
 vertical distribution 184
 Virginia 27 259 380 518
 Washington 481 520
 wastes 123 143 218 380 481
 watersheds 219 380
 York 380 518
 zooplankton 67 175 314 394 466

phosphomonoester
 alkaline phosphatase 468
 Bay 468
 Chesapeake 468
 Ks 468
phosphorus
 phosphorus 468
 phytoplankton 468
 Vm 468
phosphorus
 abundance 43 499
 adsorption 259
 Agnes 415
 Alaska 319
 Albemarle 43
 algae 87 236 256 339 432
 algae bluegreen 66 247 533
 alkaline phosphatase 468 470 482
 alkalinity 47 149
 amino acids 49 528
 ammonia 43 49 204 247 289 387
 407 473
 ammonium 210 228 482
 arctic 319
 ash 382
 ATP 193
 Australia 154
 bacteria 256 339
 Bay 22 79 91 94 199 228 297 353
 379 387 415 468 470 473 499
 Bayou 181 251 316
 benthic 87 137 319 528
 benthic oxygen demand 80
 biomass 66 110 154 201 247 304
 339 533
 birds 256 339
 bloom 80 201 204 251 382 432 533
 BOD 342 353 541
 Bothnia 137
 bound 3
 British Columbia 247
 Broadkill 101
 budget 316
 C/N 482
 cadmium 210
 calcium 339 461
 California 187
 carbohydrates 193
 carbon 19 21 22 110 181 193 256
 339 342 382 387 473 482 499
 carbon oxygen demand 80

- Carter 21
 CBOD 407
 Chesapeake 22 79 91 297 415 468
 473
 chlorinated hydrocarbons 137
 chlorophyll 43 47 79 80 101 154
 193 289 382 407 415 470 473 482
 Chowan 533
 clay 259
 COD 289
 coliforms 94 163 353 407
 community structure 256
 conference 528
 Cook 319
 CO₂ 432
 Creek 21
 crude fiber 193
 crustaceans 256 339
 cycles 21 91 241 247 297 342 464
 499 528
 C₁₄ 382
 Delaware 101 342
 detergent 413
 detritus 22 528
 DIC 473
 Dickinson 251
 DIN 199
 dissolved 3
 dissolved solids 137
 distribution 470
 diurnal 482
 diversity 94 533
 DNA 470
 DO 47 80 101 137 154 194 241 242
 251 304 319 342 353 387 407 464
 541
 DOC 473
 DON 201
 DRP 199
 economics 94
 enzymes 470
 Estuary 47 66 79 80 87 90 101
 154 181 193 201 204 223 289 304
 342 407 415 478 493 533
 fatty acids 382
 fauna 87
 feces 163
 fertilizer 3 204 464
 fish 256 339 528
 fish kills 251
 fisheries 94 528
 Florida 181 316
 flux 22 187 342 379 387
 foraminifera 256 339
 freshwater 204
 Georgia 386
 Great Britain 199
 growth rates 39 236
 Gulf 137
 gulls 163
 Harbor 39
 Hawaii 94
 heterotrophic 256 339
 Hurricane 415
 hydrology 43 87 90 91 100 137
 154 201 241
 H₃ 154
 indicator species 39
 indices 470
 industry 464
 Inlet 319
 inorganic 101 181 201 407 413
 insects 256 339
 intracellular 100
 invertebrates 528
 iron 137 493
 isopleths 223
 Jamaica 353
 James 47
 Kaneohé 94
 K_s 468 482
 land development 43
 Little River 154
 Liverpool 199
 local 297
 Long 39
 long term 199
 macrofauna 137
 macrophytes 247
 Malpeque 499
 management 528
 marshes 21 22 149 193 210 339
 461
 Maryland 193 304
 meiofauna 256 339
 metabolism 256 386
 methods 228 493
 Michaelis Menton 415
 microbes 247 297 319 470 499 528
 533 541

microcosms 194 379 387
 mining 66 87 90 201 463 464
 mixing depth 541
 model 80 100 223 342 353 386 407
 415 478
 molluscs 39 256 339
 municipal 413
 Murderkill 101
 N/P 239 413
 Narragansett 379 387
 Neuse 204
 New York 353
 Newfoundland 39
 nitrate 3 201 204 228 382 407
 473 482
 nitrite 228 407 473
 nitrogen 21 22 43 66 79 80 87 91
 94 100 101 110 115 163 181 187
 193 194 199 201 210 228 239 242
 247 256 297 316 319 339 342 353
 387 407 413 415 461 478 482 499
 528 541
 nitrogen fixation 49
 nitrogen oxygen demand 80
 nonpoint sources 223 541
 North Carolina 43 90 204 493 533
 Norway 236
 Nova Scotia 382
 NO₂ 47
 NO₃ 47
 nutrients 79 80 100 101 137 149
 210 223 236 241 259 289 297 304
 342 387 463 473 478 528
 oil 137 528
Olisthodiscus luteus 482
 one dimensional 407
 organic 259 407 541
 organic matter 413
 organisms 319 528
 orthophosphate 228
 oysters 499
 Pagan 407
 Pamlico 66 87 90 201 493
 pathogens 163
 Patuxent 193 304
 pesticides 137 528
 pH 47 101 259 319 432
 phaeophytin 473
 phosphate 181 247 259
 phosphomonoester 468
 phytoplankton 43 47 66 79 80 87
 90 91 110 115 137 154 187 194
 201 204 239 251 256 297 304 339
 342 382 407 413 415 468 478 533
 plankton 319
 plants 461
 PN 47
 point sources 541
 pond experiment 3 110 256 339
 pool experiment 66
 potassium 461
 Potomac 80 223 289 342 478
 predictions 541
 primary 21 22 43 49 80 91 115
 137 154 181 187 236 304 382 473
 processes 223 386
 productivity 21 22 43 49 80 91
 115 137 154 181 187 194 256 304
 339 382 463 473 499
 profiles 541
 protein 470
 P32 3 154
 quasi linear 415
 rainfall 297
 Rangia 90
 reaeration 80
 real time 407
 recreation 94
 respiration 80 382
 Rhode Island 387
 runoff 223 464 541
 salinity 43 47 90 101 154 204
 241 259 319 353 407 541
 San Francisco 228
 seagrass 528
 seasons 199 386
 secondary 236
 sediment water 21 181 242 259
 379 386 387
 sediments 3 19 49 90 137 149 187
 201 210 242 247 289 297 304 387
 461 493 541
 seston 470
 sewage 19 94 115 163 204 236 251
 256 259 319 339 432 464
 silica 149 187 319 382 528
 soil erosion 541
 Sound 43
 South Carolina 149
 spatial distribution 223

- Stockholm 239
 stress 528
 succession 110 201
 surface waters 541
 Susquehanna 79 415
 symposium 137 297
 Tar 201
 TDC 473
 temperature 43 47 154 259 541
 temporal distribution 223
 tertiary 236 339
 Texar 181 316
 thermal 304 541
 tides 19 22 101 210
 Tokyo 470
 trace metals 115 137 149 210 242
 387 528
 transport 100 223
 turbidity 43 541
 two dimensional 353
 uptake rates 90 259 297 482 533
 urea 528
 vertical transport 297
 Virginia 21 259
 Vm 468
 Ware 21
 wastes 66 90 137 204 223 342 413
 415 464
 weight 289
 wetlands 101 528
 zinc 210
 zooplankton 87 137 154 194 297
 342 528
 physico chemical treatment
 Great Britian 294
 sewage 294
 phytoplankellate
 Bay 287
 bloom 287
 Massartia rotundata 287
 New York 287
 Olisthodiscus luteus 287
 Prorocentrum micans 287
 salinity 287
 phytoplankton
 abundance 43 113 472
 Acartia 227
 Actinetobacter 431
 Agnes 415
 Albemarle 43 450
 algae 72 87 256 339
 algae bluegreen 66 533
 alkaline phosphatase 468
 alkalinity 47 67
 alpha fluorescence 329
 amino acids 456
 ammonia 43 62 67 157 203 204 314
 407 450 477 520
 ammonium 31 113 129 188 298 394
 animals 202
 Aquaforte 145
 ash 382
 assay 414
 ATP 295 434
 Australia 154 424
 autotrophic 86
 bacteria 256 339 431 456
 bacteria proteolytic 456
 bacterioplankton 114
 Balanus 227
 barnacles 507
 Basin 295 381
 batch culture 144
 Baule Mitschlerlich 511
 Bay 64 65 67 71 72 79 86 91 141
 147 188 227 288 296 297 298 300
 322 415 431 468 469
 Bayou 251 314 317
 Bedford 295 381
 benthic 72 87 137 511 542
 benthic oxygen demand 80 221 542
 Bight 113 286
 biomass 62 65 66 110 128 144 154
 201 203 296 304 339 434 519 533
 birds 256 339
 Black 303
 bloom 80 144 201 204 227 251 286
 317 363 382 414 450 519 520 521
 533
 BOD 1 71 221 274 342 477 519
 Bothnia 137
 Burrard 460
 C/N 62 188 450
 Calanus pacificus 363
 calcium 339
 California 62 128 129 155 187
 441 477
 Canada 145
 carbohydrates 295 456
 carbon 27 110 116 144 221 256

- 295 339 342 382 394 542
 carbon oxygen demand 80
 carbon/chlorophyll 62 434
 CBOD 407
Chaetoceros 363
Chaetoceros simplex 303
 chemostat 169
 Chesapeake 67 72 79 91 141 296
 297 298 415 468 469
 chlorinated hydrocarbons 137
 chlorophyll 28 43 47 64 65 67 79
 80 113 128 154 155 174 288 296
 300 322 329 382 407 415 424 519
Chlorophyta 31 144
 Chowan 450 533
Cladocera 147
 cobalamin 509
 coliforms 1 221 407 542
Columbia 175
 community structure 174 256
 continuous culture 116 144
 CO₂ 144
 crustaceans 256 339
Cyanophyta 144
 cycles 91 129 297 342 477
 C₁₄ 382 456
 DC 1
 Delaware 342 411 477
 Delta 477
 denitrification 157
 deoxygenation 542
 detergent 413
 detritus 65 424
 diatoms 153 414 479
 Dickinson 251
 DIN 450 477
 dinoflagellate 479
 dissolved solids 137
 distribution 71 113 128 153 155
 460
 diurnal 62 129
 diversity 155 300 472 533
 DO 1 47 67 71 72 80 137 154 174
 194 202 221 251 304 314 317 342
 394 407 441 477 519 542
 DOC 416
 DOM 404
 DON 201 450
 DOP 469
 dredging 96
 Duwamish 519 520 521
 dye 1
 energy transfer 72 141
 Estuary 1 27 31 47 66 67 79 80
 82 87 90 141 154 174 175 201 202
 203 204 221 227 304 341 342 367
 407 411 415 434 450 477 478 506
 507 519 520 521 533
 euglenoid 145
Euphaussid furcilia 363
Eurytemora 175 227
 eutrophic 157
Evadne tergestina 147
 factorial productivity 367
 fatty acids 382
 fauna 87 456
 feeding rates 363
 fertilizer 202 204 361
 fiord 460
 fish 202 256 317 339 515 542
 fish kills 251
 fisheries 96 411
 flagellates 295
 flood control 96
Florida 314 317
 flushing 155
 flux 187 342
foraminifera 72 256 339
 freshwater 86 113 204 519
 fungus 456
 Great Britain 274
 growth rates 169 188 459 479
 Gulf 137 155
Gymnodinium 317
 Hacking 424
 Harbor 145 460
 Hawaii 64 65 188
 heat 141 542
 heterotrophic 86 256 339 431 456
 Hudson 31
 Hurricane 415
 hydrology 43 71 87 90 91 137 141
 154 174 201 414 424 441 515 520
 521
 hypertrophication 286
 H₃ 154
 ice 542
 indicator species 145 303 472
 indices 456
 industry 86 202 361

Inlet 460
 inorganic 27 161 201 203 407 413
 416 506
 insects 256 339
 intracellular 169
 iron 137
 James 27 47
 Japan 322
 Kaneohe 64 65 188
 Ks 62 468 469
 Lagoon 155
 land development 43 96
 latitudinal gradients 227
 Lebanon 472
 light 31 174 175 424 521 542
 linear regression 175
 Little River 154
 local 297
 Long Island 404 509
 long term 153
 Louisiana 96
 macrofauna 72 137
 macroinvertebrates 314
 macrophytes 72 157 511
 Malagasy Republic 147
 management 96 411 515
 manganese 416
 marshes 339 507
 Maryland 304
 Massachusetts 82 161
 meiofauna 256 339
 metabolism 86 256
 methods 114 296 424 456 542
 Michaelis Menton 71 415
 microbes 27 72 141 203 297 404
 456 533
 microcosms 86 194
 microflagellates 174
 mining 66 87 90 201 202 203
 model 1 27 64 71 80 114 157 169
 341 342 407 411 415 477 478 507
 515 542
 molluscs 256 339
 municipal 413
 mussels 507
 N/P 239 413 414
 nanoplankton 145 174 288 296 300
 363
 Narragansett 227
 Neuse 204
 New Jersey 113 227 300
 New York 113 286
 Newark 300
 nitrate 27 31 64 67 82 113 128
 129 157 175 188 201 203 204 298
 303 314 382 394 407 414
 nitrification 157
 nitrite 27 67 113 298 407 477
 nitrogen 43 62 65 66 67 79 80 87
 91 110 115 129 144 157 161 169
 187 194 201 202 239 256 297 339
 342 407 413 415 477 478 479 506
 nitrogen fixation 144
 nitrogen oxygen demand 80
 North 153 411
 North Carolina 43 90 202 203 204
 450 533
 North Inlet 507
 Norway 414
 Nosy Be 147
 Nova Scotia 381 382
 NO₂ 47
 NO₃ 47
 nutrients 1 28 62 71 72 79 80 82
 86 96 116 128 137 141 203 221
 227 286 288 297 304 322 341 342
 394 416 431 441 472 478 509 511
 515 521 542
 N15 62 129
 oil 137 456
 one dimensional 407
 Oregon 175
 organic 27 141 157 407 506
 organic aggregates 404
 organic matter 28 157 227 394
 413
 organisms 542
 orthophosphate 414 469 509
 oxidation 477
 oysters 507
 P/B 381
 P/N 441
 Pagan 407
 Pamlico 66 87 90 201 202 203
 particulate matter 295
 Patuxent 141 304
 Penilia avirostris 147
 Periphyton 521
 pesticides 137
 pH 47 67 71 144

phosphate 27 64 67 82 113 175
 202 203 303 314 361 394 520
 phosphomonoester 468
 phosphorus 43 47 66 79 80 87 90
 91 110 115 137 154 187 194 201
 204 239 251 256 297 304 339 342
 382 407 413 415 468 478 533
 Pines 82
 plankton 202 288
 plants 141
 PN 47
 POC 65
 polyphosphate 469
 POM 404
 pond experiment 110 161 256 339
 pool experiment 66
 populations mixed 367
 populations single 367
 Port 424
 Potomac 1 67 80 221 341 342 477
 478
 power plant 141
 predictions 27
 primary 28 43 62 64 80 86 91 115
 129 137 141 154 155 174 187 202
 288 296 304 361 367 382 416 441
 450 460 507 511 515 542
 processes 27 157 456 506 507
 productivity 28 43 62 64 67 80
 86 91 114 115 129 137 141 154
 155 174 187 194 202 256 288 296
 304 339 361 363 367 381 382 416
 441 450 460 507 511 515 542
 protein 295
Pseudocalanus minutus 363
 Puget 515
 pulp mill 456 459
 P32 154 469
 quasi linear 415
 rainfall 147 297
 Rangia 90
 Raritan 227 288
 rate constants 542
 ratio 381
 reaeration 80 542
 real time 407
 recreation 82 96
 red tide 361
 remote sensing 329
 respiration 28 80 86 382 441
 Rhode Island 227
 Rockaway Point 113
 runoff 96 424
 Sacramento 341
 Sacramento San Joquin 477
 Sagami 431
 salinity 43 47 67 71 90 113 154
 174 202 204 227 407 441 456
 San Francisco 71
 Schofield 27
 Sea 153 303 411
 seasons 71 147 175 227 274 300
 404 441 450 506 509 521
 secchi disc 145 441
 secondary 144
 sediments 90 137 187 201 297 304
 424
 sewage 27 62 64 72 82 96 115 116
 129 144 145 161 188 202 204 251
 256 274 303 339 416 456 472 479
 520
 silica 113 175 187 382 414
 Skeletonema 31 367
 soil erosion 96
 Sound 43 404 450 509 515
 Southampton 394
 spatial component 381
 spatial distribution 542
 St Johns 145
 St Lawrence 434
 stochastic 27 477
 Stockholm 239
 Suagus 82
 succession 110 116 144 201 367
 411 460 515
 Suruga 431
 suspended solids 113 424
 Susquehanna 79 415
 symposium 137 297 341 456
 Tar 201
 temperature 27 43 47 67 71 113
 128 153 154 174 202 394 441 519
 temporal distribution 542
 tertiary 161 339
 Texar 314 317
 Texas 86
 thermal 141 304 456
 thiamine 509
 three dimensional 515
 tides 1 155 507 519

- TOC 314
- Tokyo 431
- toxicity 116 317
- trace metals 72 115 137 394 414
456 479
- Trinity 86
- Trondheimsfjord 414
- trophic levels 515
- tropical 147
- turbidity 43 67 511
- turnover rates 394 469
- Ulva 82
- uptake rates 31 90 129 157 188
297 533
- Uranouchi 322
- urea 62 129 188 298
- Vancouver 460
- Vellar 506
- vertical transport 297
- Vibrios 431
- Virginia 27 227
- Vm 62 468 469
- Washington 515 520
- wastes 66 86 90 137 204 221 227
317 322 342 413 415
- water column 507
- wetlands 96
- York 174 227 367
- zooplankton 67 72 86 87 137 147
153 154 157 175 194 227 295 296
297 314 341 342 363 394 404 431
477 542
- Pines**
 - Estuary 82
 - Massachusetts 82
 - nitrate 82
 - nutrients 82
 - phosphate 82
 - phytoplankton 82
 - recreation 82
 - sewage 82
 - Suagus 82
 - Ulva 82
- plankton**
 - abundance 383
 - aerobic 122
 - Alaska 319
 - alkalinity 383
 - animals 202
 - arctic 319
 - assay 383
 - Bay 226 288 365 366
 - benthic 319 447
 - bioenhancement 447
 - biomass 306 447
 - bloom 306
 - California 447
 - cannery 447
 - chemical 20
 - chlorophyll 288 365
 - coliforms 122
 - Cook 319
 - detergent 270
 - distribution 383
 - diversity 364 447
 - DO 202 226 270 319 447
 - energetics 365
 - Estuary 202
 - Etang de Berre 306
 - eutrophic 20
 - fertilizer 202
 - fish 202 447
 - flux 366
 - France 306
 - Harbor 20 447
 - hydrology 20 226 306
 - indicator species 383
 - industry 202
 - Inlet 319
 - invertebrates 383
 - Lake 383
 - Los Angeles 447
 - Massartia rotundata 365
 - microbes 20 122 319
 - microcosms 364
 - mining 202
 - model 366
 - N/P 226
 - nanoplankton 288
 - negentropy 366
 - New Jersey 226
 - nitrate 226
 - nitrogen 202 319
 - North Carolina 202
 - nutrients 226 270 288 306 364
383
 - organic matter 306
 - organisms 319 447
 - Pamlico 202
 - PC 270

- pH 319 383
- phosphate 202 226
- phosphorus 319
- phytoplankton 202 288
- PN 270
- Pontchartrain 383
- primary 202 288 383
- productivity 202 288 364 365 383
447
- Raritan 226 288 365 366
- red tide 122
- respiration 365
- runoff 383
- salinity 202 226 270 319 383
- seasons 226
- seston 270
- sewage 122 202 319 447
- silica 319
- temperature 202 226 270
- wastes 20 447
- plants**
 - ammonium 186
 - animals 186
 - Bay 141
 - benthic 508
 - calcium 461
 - Chesapeake 141
 - cycles 186
 - economics 508
 - energy transfer 141
 - Estuary 141 186
 - heat 141
 - hydrology 141
 - industry 508
 - inorganic 186
 - management 508
 - marshes 461
 - microbes 141
 - nitrate 186
 - nitrite 186
 - nitrogen 186 461
 - North Carolina 186
 - nutrients 141 186
 - organic 141 186
 - organisms 508
 - Pamlico 186
 - Patuxent 141
 - pesticides 508
 - phosphorus 461
 - phytoplankton 141
- potassium** 461
- power plant** 141
- primary** 141
- productivity** 141
- public opinion** 508
- recreation** 508
- seasons** 186
- sediments** 186 461
- tertiary** 508
- thermal** 141
- urea** 186
- wastes** 508
- plumes**
 - dissolved 131
 - Estuary 131
 - inorganic 131
 - Mississippi 131
 - Orinoco 131
 - Savannah 131
 - silica 131
 - suspended solids 131
 - uptake rates 131
- plutonium**
 - Estuary 158
 - history 158
 - marshes 158
 - Pb210 158
 - records 158
 - Savannah 158
 - sediments 158
- PN**
 - aerobic 172
 - alkalinity 47
 - ammonium 172
 - anaerobic 172
 - ATP 172 465
 - Bay 200 465
 - Bight 172
 - biomass 200
 - C/N 465
 - calorific content 172
 - chlorophyll 47
 - decomposition 172
 - detergent 270
 - DIC 172
 - DO 47 270
 - DOC 172
 - Estuary 47
 - fisheries 465
 - Hawaii 200

- James 47
 Kaneohe 200
 methods 465
 New York 172
 nitrate 172
 nitrite 172
 NO₂ 47
 NO₃ 47
 nutrients 270 465
 PC 172 270 465
 pH 47
 phosphorus 47
 phytoplankton 47
 plankton 270
 primary 465
 productivity 465
 runoff 465
 salinity 47 270
 seston 270
 sewage 172
 size composition 200
 St Margaret 465
 succession 200
 suspended solids 465
 temperature 47 270
 zooplankton 200
- POC**
 Aberdeen 453
 aerobic 58
 anaerobic 58
 assay 58
 Bay 65 406 453
 biomass 65
 Buzzards 406
 C/N 406
 carbon 454
 chlorophyll 65 406 453 454
 Connecticut 58
 Copps Brook 58
 C₁₄ 453
 degradation 58
 deoxygenation 104
 detritus 65 406
 DOC 58 104
 Estuary 104
 Fladen Ground 453
 Hawaii 65
 interstitial 58
 Kaneohe 65
 Loch 454
- Massachusetts 406
 metabolism 58
 microbes 58
 model 58
 nanoplankton 406
 Nevis 454
 nitrate 454
 nitrogen 65
 North 453 454
 nutrients 58 104
 organic matter 58
 Pamlico 104
 phosphate 454
 phytoplankton 65
 PON 406
 primary 104 453
 processes 453
 productivity 104 453 454
 respiration 104
 Scotland 454
 Sea 453 454
 seasons 406 453
 sediments 58
 suspended solids 406
 tetrazolium salt 58
 TOC 104
 watersheds 58
 zooplankton 406
- point sources**
 agriculture 218
 algae bluegreen 218
 BOD 541
 density 530
 dispersion 530
 DO 541
 dye 530
 Estuary 218 530
 flushing 218
 Hudson 218
 hydrology 530
 longitudinal 530
 microbes 541
 mixing 530
 mixing depth 541
 model 530
 nitrate 218
 nitrogen 541
 nonpoint sources 541
 nutrients 218
 organic 541

- phosphate 218
- phosphorus 541
- Potomac 218
- predictions 541
- profiles 541
- runoff 541
- salinity 541
- sediments 541
- sewage 218
- soil erosion 541
- surface waters 541
- temperature 541
- thermal 541
- turbidity 541
- vertical shear 530
- wastes 218
- York 530
- pollution**
 - bibliography 4
 - dredging 4
 - economics 4
 - eutrophication 4
 - oil 4
 - pesticides 4
 - radioactivity 4
 - thermal 4
 - trace metals 4
- poly B hydroxybutyrate**
 - biomass 332 525
 - DO 332
 - metabolism 525
 - microbes 332 525
 - pH 332
 - PHB 525
 - salinity 332
 - sediments 332 525
- polychaetes**
 - abundance 167
 - algae 400
 - amphipods 12
 - annelids 167
 - Bay 12
 - benthic 12 400
 - biomass 167
 - California 400
 - Capitella capitata* 12
 - diversity 167
 - Estuary 167
 - fauna 167
 - gastrotrichs 167
- Great Britian** 167
- Harbor** 400
- indicator species** 12 400
- invertebrates** 12
- Kiel 12
- Los Angeles 400
- microbes 167
- nematodes 167
- oil 400
- oligochaetes 167 400
- sewage 12 167 400
- Tees 167
- wastes 400
- polyp**
 - ammonium 38
 - Chrysaora quinquecirrha* 38
 - nitrate 38
 - pH 38
 - phosphate 38
 - remote sensing 38
 - sea nettle 38
 - sewage 38
- polyphosphate**
 - Bay 469
 - Chesapeake 469
 - DOP 469
 - Ks 469
 - orthophosphate 469
 - phytoplankton 469
 - P32 469
 - turnover rates 469
 - Vm 469
- POM**
 - Agnes 421
 - Bay 421
 - Chesapeake 421
 - DOM 404
 - Hurricane 421
 - Long Island 404
 - microbes 404
 - organic aggregates 404
 - phytoplankton 404
 - seasons 404
 - sediments 421
 - sewage 421
 - soil erosion 421
 - Sound 404
 - suspended solids 421
 - zooplankton 404
- PON**

- ammonia 177 190
- Bay 190 406
- Buzzards 406
- C/N 406
- chlorophyll 406
- denitrification 190
- detritus 406
- DON 177
- Georgia 177
- Japan 190
- Mangoku 190
- marshes 177
- Massachusetts 406
- nanoplankton 406
- nitrate 177
- nitrite 177
- N15 190
- POC 406
- pools 177
- seasons 406
- sediments 190
- Simoda 190
- suspended solids 406
- tidal creek 177
- Tokyo 190
- Ura 190
- zooplankton 406
- pond** experiment
 - algae 89 256 339
 - animals 89
 - bacteria 256 339
 - Bay 8
 - biomass 110 339
 - birds 256 339
 - bound 3
 - calcium 339
 - California 8
 - carbon 110 256 339
 - community structure 89 256
 - crustaceans 256 339
 - dissolved 3
 - DO 8
 - Estuary 89
 - fertilizer 3
 - fish 256 339
 - foraminifera 256 339
 - heat 89
 - heterotrophic 256 339
 - Humboldt 8
 - inorganic 161
- insects** 256 339
- marshes** 339
- Massachusetts** 161
- meiofauna** 256 339
- metabolism** 256
- molluscs** 256 339
- nitrate** 3
- nitrogen** 110 161 256 339
- North Carolina** 89
- nutrients** 89
- pH** 8
- phosphorus** 3 110 256 339
- phytoplankton** 110 161 256 339
- productivity** 89 256 339
- P32** 3
- respiration** 89
- salmonids** 8
- seasons** 89
- sediments** 3
- sewage** 8 89 161 256 339
- South Creek** 89
- succession** 110
- temperature** 89
- tertiary** 161 339
- Pontchartrain**
 - abundance** 383
 - alkalinity** 383
 - assay** 383
 - distribution** 383
 - indicator species** 383
 - invertebrates** 383
 - Lake** 383
 - nutrients** 383
 - pH** 383
 - plankton** 383
 - primary** 383
 - productivity** 383
 - runoff** 383
 - salinity** 383
- pool** experiment
 - algae bluegreen** 66
 - biomass** 66
 - Estuary** 66
 - mining** 66
 - nitrogen** 66
 - Pamlico** 66
 - phosphorus** 66
 - phytoplankton** 66
 - wastes** 66
- pools**

- ammonia 177
- DON 177
- Georgia 177
- marshes 177
- nitrate 177
- nitrite 177
- PON 177
- tidal creek 177
- populations mixed
 - Estuary 367
 - factorial productivity 367
 - heterotrophic potential 500
 - microbes 500
 - model 237
 - organic 500
 - phytoplankton 367
 - populations single 367
 - primary 367
 - productivity 367
 - Skeletonema* 367
 - succession 367
 - survival 237
 - wastes 500
 - York 367
 - zooplankton 237
- populations single
 - Estuary 367
 - factorial productivity 367
 - industry 452
 - metabolism 452
 - phytoplankton 367
 - populations mixed 367
 - primary 367
 - productivity 367
 - Skeletonema* 367
 - stress 452
 - succession 367
 - TLM 452
 - wastes 452
 - York 367
- Poquoson
 - Elizabeth 327
 - Estuary 327
 - Harbor 327
 - industry 327
 - James 327
 - Little Creek 327
 - Lynnhaven 327
 - management 327
 - model 327
- Nansemond 327
- nonpoint sources 327
- Pagan 327
- predictions 327
- sewage 327
- wastes 327
- York 327
- Porifera**
 - chemical 359
 - Hymeniacidon sanguinea* 359
 - indicator species 359
 - industry 359
 - Italy 359
 - sewage 359
 - wastes 359
- Porphyra**
 - Bay 238
 - Chinhae 238
 - disease 238
 - fertilizer 238
 - Korea 238
 - primary 238
 - productivity 238
 - wastes 238
- Port**
 - Australia 424
 - chlorophyll 424
 - detritus 424
 - Hacking 424
 - hydrology 424
 - light 424
 - methods 424
 - phytoplankton 424
 - runoff 424
 - sediments 424
 - suspended solids 424
- Port Phillip**
 - ammonia 388
 - Australia 388
 - Bay 388
 - benthic 388
 - fauna 388
 - nutrients 388
 - salinity 388
 - sediments 388
 - sewage 388
 - sewage treatment farm 388
 - Werribee 388
- Portugal**
 - Estuary 474

- organic matter 474
- Sado 474
- Tagus 474
- temperature 474
- yeast 474
- Posidonia australis*
 - Cockburn 63
 - growth rates 63
 - seagrass 63
 - seasons 63
 - sediments 63
 - Sound 63
- Posidonia oceanica*
 - benthic 234
 - detergent 234
 - France 234
 - Giens 285
 - growth rates 285
 - Gulf 234 285
 - Marseilles 234
 - organisms 234
 - seagrass 234
 - sediments 285
 - sewage 234 285
- potassium**
 - calcium 461
 - marshes 461
 - nitrogen 461
 - phosphorus 461
 - plants 461
 - sediments 461
- Potomac**
 - aerobic 183
 - agriculture 218
 - algae 81 216 430
 - algae bluegreen 215 218
 - alkalinity 67 380
 - ammonia 67 289 430 477
 - ammonium 467
 - Anacostia 78
 - Bay 67 173 380 419 467 495
 - benthic oxygen demand 80 221
 - bloom 80
 - BOD 1 99 221 283 342 477 495
 - California 477
 - carbon 220 221 342 377 449 495
 - carbon oxygen demand 80
 - Chesapeake 67 173 380 419 467 495
 - Chickahominy 173
 - chlorophyll 67 80 215 220 289 495
 - Chlorophyta* 430
 - COD 289
 - coliforms 1 183 221 380
 - CO₂ 220
 - Cyanophyta* 430
 - cycles 183 342 477
 - DC 1 283 380
 - Delaware 342 477
 - Delta 477
 - deterministic 419
 - diffusion 419 467
 - DIN 477
 - dispersion coefficient 283
 - distribution 377 449
 - DO 1 67 80 81 99 216 220 221 222 283 342 380 477 495
 - DOD 283
 - dye 1 78
 - economics 217
 - Estuary 1 53 67 78 80 81 99 173 183 214 215 216 217 218 219 220 221 222 223 255 283 289 341 342 377 380 419 430 449 467 477 478 495
 - flushing 218
 - flux 342
 - freshwater 219 222
 - FWQA Dynamic 78
 - Hudson 218
 - hydrology 183
 - indices 220
 - industry 380
 - isopleths 223
 - isotope 449
 - James 173 380 495
 - land development 216
 - linear regression 173
 - management 53 183 215 217
 - Maryland 380 430
 - microbes 183 216 220
 - model 1 78 80 99 183 223 255 283 341 342 419 467 477 478
 - nitrate 67 218 219 380 467
 - nitrite 67 219 477
 - nitrogen 67 80 183 342 377 477 478
 - nitrogen oxygen demand 80
 - nonpoint sources 223

nutrients 1 80 173 214 215 216
 217 218 220 221 222 223 289 341
 342 380 478 495
 one dimensional 255 419
 oxidation 477
 oxygen 377
 Patuxent 173 380 495
 pesticides 220 380
 pH 67 380
 phosphate 67 218 219 380 430
 phosphorus 80 223 289 342 478
 phytoplankton 1 67 80 221 341
 342 477 478
 point sources 218
 predictions 78 183
 primary 80
 processes 183 223
 productivity 67 80
 profiles 214
 Rappahannock 173 380 495
 reaeration 80
 real time 183
 resources 216 222
 respiration 80
 runoff 216 223
 Sacramento 341
 Sacramento San Joquin 477
 salinity 67
 seasons 173
 secondary 430
 sediments 219 289 380
 sewage 215 218 219 380 430
 spatial distribution 219 223
 stochastic 99 255 477
 Susquehanna 173 380 495
 symposium 341
 temperature 67
 temporal distribution 219 223
 Thomann 78
 tides 1 78 81 183
 time dependent 255
 TKN 219
 TOC 220
 trace metals 216 380
 Transient Water Quality Network
 183
 transport 223
 turbidity 67
 Virginia 380
 viruses 216
 wastes 81 216 218 220 221 222
 223 342 380
 watersheds 173 219 380
 weight 289
 York 173 380 495
 zooplankton 67 341 342 477
 power plant
 Bay 141
 Chesapeake 141
 dredging 498
 economics 498
 energy transfer 141
 Estuary 141
 fisheries 498
 heat 141
 hydrology 141
 industry 498
 management 498
 microbes 141
 nutrients 141 498
 organic 141
 Patuxent 141
 phytoplankton 141
 plants 141
 primary 141
 productivity 141
 public opinion 498
 resources 498
 symposium 498
 thermal 141
 predictions
 aerobic 183
 Anacostia 78
 Bay 433
 benthic 433
 BOD 284 541
 Bush 373
 carbon 27
 Clyde 284
 coliforms 183
 cycles 183
 DO 284 541
 dye 78
 Elizabeth 327
 Estuary 27 78 183 284 327 373
 Florida 433
 freshwater 284
 FWQA Dynamic 78
 Harbor 327
 Hillsborough 433

hydrology 183 284
 industry 284 327
 inorganic 27
 invertebrates 433
 James 27 327
 Little Creek 327
 Lynnhaven 327
 management 183 327
 microbes 27 183 541
 mixing depth 541
 model 27 78 183 327
 Nansemond 327
 nitrate 27
 nitrite 27
 nitrogen 183 541
 nonpoint sources 327 541
 organic 27 541
 Pagan 327
 phosphate 27
 phosphorus 541
 phytoplankton 27
 point sources 541
 Poquoson 327
 Potomac 78 183
 processes 27 183
 profiles 541
 real time 183
 runoff 541
 salinity 541
 Schofield 27
 sediments 433 541
 sewage 27 284 327 433
 soil erosion 541
 stochastic 27
 surface waters 541
 temperature 27 284 541
 tertiary 433
 thermal 541
 Thomann 78
 tides 78 183
 Transient Water Quality Network
 183
 turbidity 541
 Virginia 27
 wastes 284 327
 York 327
primary
 Aberdeen 453
 abundance 43 383
 Alaska 7
 Albemarle 43 450
 algae 140 236 343
 algae bluegreen 335
 algae colonial 152
 alkalinity 383
 amino acids 49
 ammonia 5 43 49 62 450 473 481
 ammonium 129 522
 animals 202
 ash 382
 assay 383
 ATP 465
 Australia 154
 autotrophic 86
 Baltic 335
 barnacles 507
 Baule Mitschlerlich 511
 Bay 22 40 64 86 91 140 141 238
 288 296 453 465 473
 Bayou 181
 benthic 5 137 335 410 511 542
 benthic oxygen demand 80 542
 Bermuda 24
 bibliography 124
 biomass 62 140 154 296 304 336
 445
 bloom 24 80 382 445 450
 Bothnia 137
 boundary layer 522
 Burrard 460
 C/N 62 450 465
 California 62 129 155 187 276
 441
 carbon 21 22 181 192 195 362 382
 473 522 542
 carbon oxygen demand 80
 carbon/chlorophyll 62
 Carter 21
 Chesapeake 22 91 140 141 296 473
 Chinhae 238
 chlorinated hydrocarbons 137
 chlorophyll 28 43 64 80 140 154
 155 174 288 296 382 391 403 453
 473 481
 Chowan 450
 Cochin 391
 coliforms 542
 Colville 7
 community structure 174 483
 Copepoda 195

Creek 21
 crustaceans 195
 ctenophores 362
 cycles 21 91 129 185 410 522
 C14 140 152 382 391 453
 deoxygenation 104 542
 detergent 335
 detritus 22 192 195
 diatoms 5 445
 DIC 473
 DIN 450
 disease 238
 dissolved solids 137
 distribution 155 383 460
 diurnal 62 93 129
 diversity 155
 DO 80 93 137 154 174 202 304 335
 441 542
 DOC 104 416 473
 DON 450
 Duwamish 481
 energy transfer 141 192 195 276
 335 362
 Estuary 7 80 93 104 124 141 154
 174 181 185 192 195 202 304 336
 367 391 403 450 481 507
Eurytemora affinis 195
 eutrophication 124
 factorial productivity 367
 fatty acids 382
 fauna 276
 fertilizer 202 238 361
 fiord 460
 fish 202 335 515 542
 fisheries 7 124 465
 Fladen Ground 453
 Florida 181
 flushing 155
 flux 22 187 362
 freshwater 86
 Grevelingen 336
 growth rates 236 522
 Gulf 137 155
 Harbor 460
 Hawaii 64
 heat 141 542
 heterotrophic 86
 hydrology 7 43 91 124 137 141
 154 174 441 515
 H3 154
 ice 542
 indicator species 335 383 481
 industry 86 202 361
 Inlet 460
 inorganic 181 416
 intertidal 276
 invertebrates 383
 iron 137
 Japan 445
 Kaneohe 64
 kelp 522
 Korea 238
 Ks 62 522
 laboratory culture 5
 Lagoon 155
 Lake 383
 land development 43
 light 24 174 336 542
 Little River 154
 macroalgae 335
Macrocystis 522
 macrofauna 137
 macrophytes 24 276 511
 management 515
 manganese 416
 marshes 21 22 192 390 507
 Maryland 93 192 195 304
 metabolism 86 276
 methods 152 296 465 483 542
 microbes 141 195 343 445
 microcosms 86 140 362
 microflagellates 174
 microplankton 403
 mining 202
 model 64 80 335 507 515 542
 morphology 522
 mucus 152
 mussels 507
 nanoplankton 174 288 296 403
 Netherlands 336
 New Jersey 390
 New York 410
 nitrate 5 64 129 382 473 481
 nitrification 410
 nitrite 5 473 481
 nitrogen 21 22 43 62 80 91 115
 129 181 185 187 202 362 522
 nitrogen fixation 49
 nitrogen oxygen demand 80
 North 453

- North Carolina 43 185 202 450
 North Inlet 507
 Norway 236
 Nova Scotia 382
 nutrients 7 24 28 62 80 86 104
 137 141 192 236 288 304 336 343
 362 383 391 410 416 441 445 465
 473 511 515 522 542
 N15 62 129
 oil 137
 organic 141
 organic matter 28 410
 organisms 335 410 542
 orthophosphate 5
 oysters 507
 P/N 441
 Pamlico 104 185 202
 Parramatta 403
 Patuxent 93 141 192 195 304
 PC 465
 Periphyton 481
 pesticides 137
 pH 383
 phaeophytin 473
 phosphate 64 181 202 361 481
 phosphorus 21 22 43 49 80 91 115
 137 154 181 187 236 304 382 473
 phytoplankton 28 43 62 64 80 86
 91 115 129 137 141 154 155 174
 187 202 288 296 304 361 367 382
 416 441 450 460 507 511 515 542
 plankton 202 288 383
 plants 141
 PN 465
 POC 104 453
 Pontchartrain 383
 populations mixed 367
 populations single 367
 Porphyra 238
 Potomac 80
 power plant 141
 processes 185 453 507
 productivity 5 7 21 22 24 28 40
 43 49 62 64 80 86 91 93 104 115
 124 129 137 140 141 152 154 155
 174 181 185 187 192 195 202 238
 276 288 296 304 335 336 343 361
 362 367 382 383 390 391 403 410
 416 441 445 450 453 460 465 473
 481 507 511 515 522 542
 Puget 515
 P32 154
 Raritan 40 288
 rate constants 542
 reaeration 80 542
 recipient analog 483
 red tide 361
 resources 7
 respiration 28 80 86 93 104 343
 382 441
 runoff 383 465
 salinity 43 154 174 202 383 441
Scottlana canadensis 195
 Sea 335 445 453
 seasons 276 391 441 450 453
 secchi disc 441
 secondary 236 343 483
 sediment water 21 181
 sediments 49 137 187 304 410
 sewage 62 64 93 115 129 140 202
 236 276 335 343 416 483
 silica 152 187 382
Skeletonema 367
 Sound 43 450 515
Spartina alterniflora 390
 spatial distribution 542
 St Lawrence 124
 St Margaret 465
 succession 367 460 515
 suspended solids 124 465
 symposium 137 335
 TDC 473
 temperature 43 154 174 202 391
 441
 temporal distribution 542
 tertiary 236 483
 Texar 181
 Texas 86
 thermal 141 304
 three dimensional 515
 tides 22 155 507
 TOC 104
 trace metals 115 124 137
 Trinity 86
 trophic levels 515
 turbidity 43 511
 uptake rates 129
 urea 62 129
 Vancouver 460
 Virginia 21

- Vm 62 522
 Ware 21
 Washington 481 515
 wastes 86 137 238 481
 water column 507
 water velocity 336 522
 wetlands 192 195
 winter 445
 York 174 367
 zooplankton 86 137 140 154 296
 335 391 542
Zostera marina 336
- processes**
 Aberdeen 453
 aerobic 183
 alkalinity 184
 amino acids 456
 ammonia 157 184
 anaerobic 358
 bacteria 456
 bacteria proteolytic 456
 barnacles 507
 Bay 184 224 354 427 453
 Bayou 315
 benthic 224 358
 biological 230
 Biscayne 427
 carbohydrates 456
 carbon 27
 chemical 230 427
 Chesapeake 184
 chlorine 184
 chlorophyll 184 453
 coliforms 183
 cycles 183 185 224
 C14 453 456
 dehydrogenase 358
 denitrification 157
 deposition 328
 detritus 328
 DO 184 315
 energy transfer 354
 Estuary 27 183 185 223 328 506
 507
 eutrophic 157
 fauna 456
 Fladen Ground 453
 Florida 427
 flux 315
 free surface 427
- fungus** 456
Georgia 386
heterotrophic 456
hydrology 183 224 354
indices 456
inorganic 27 506
interstitial 536
isopleths 223
James 27
Lake 358
macrophytes 157
management 183
marshes 507
metabolic heat release 358
metabolism 224 358 386
methods 456
microbes 27 183 328 456
microcalorimetry 358
model 27 157 183 223 244 354 386
 427 507 536
mussels 507
New Jersey 224
nitrate 27 157 224
nitrification 157
nitrite 27
nitrogen 157 183 185 506
nonadvection 244
nonpoint sources 223
North 453
North Carolina 185
North Inlet 507
nutrients 223 358
oil 456
organic 27 157 506
organic matter 157 358
organisms 358
orthophosphate 184
oxygen 358
oysters 507
Pamlico 185
pH 184 315
phosphate 27 184 224 315
phosphorus 223 386
phytoplankton 27 157 456 506 507
POC 453
Potomac 183 223
predictions 27 183
primary 185 453 507
productivity 185 453 507
Puget 358

pulp mill 456
 Rappahannock 328
 Raritan 224
 real time 183
 redox potential 315 328
 runoff 223
 salinity 184 315 328 456
 San Francisco 354
 Schofield 27
 Sea 453
 seasons 224 386 453 506
 sediment water 315 386
 sediments 328 358 427
 sewage 27 456
 silica 536
 Sound 358
 spatial distribution 223
 stabilization 230
 stochastic 27
 sulfate 184
 sulfide 184
 symposium 456
 temperature 27 184 315
 temporal distribution 223
 Texar 315
 thermal 456
 three dimensional 427
 tides 183 507
 time dependent 427
 trace metals 184 456
 Transient Water Quality Network
 183
 transport 223 244 354 427
 uptake rates 157
 Vellar 506
 vertical distribution 184
 Virginia 27
 Washington 358
 wastes 223 230
 water column 507
 wind 427
 zooplankton 157
 productivity
 Aberdeen 453
 abundance 43 383 499
 Alaska 7
 Albemarle 43 450
 algae 89 140 256 339 343
 algae bluegreen 335
 algae colonial 152
 alkalinity 67 383
 amino acids 49
 ammonia 5 43 49 62 67 450 473
 481
 ammonium 129 522
 animals 89 202
 ash 382
 assay 383
 ATP 465
 Australia 154
 autotrophic 86
 bacteria 256 339
 bacterioplankton 114
 Baltic 335
 barnacles 507
 Basin 381
 Baule Mitschlerlich 511
 Bay 22 40 64 67 86 91 140 141
 231 238 288 296 330 365 453 465
 473 499
 Bayou 102 181 313
 Bedford 381
 benthic 5 137 335 393 410 447
 511 542
 benthic oxygen demand 80 542
 Bermuda 24
 bibliography 124
 bioenhancement 447
 biomass 62 140 154 231 296 304
 336 339 445 447
 birds 256 339
 bloom 24 80 363 382 445 450
 Bothnia 137
 boundary layer 522
 buoys 37
 Burrard 460
 C/N 62 450 465
 Calanus pacificus 363
 calcium 339
 California 37 62 129 155 187 276
 441 447
 cannery 447
 carbon 21 22 181 192 195 256 339
 362 382 454 473 499 522 542
 carbon oxygen demand 80
 carbon/chlorophyll 62
 Carter 21
 ceramic panel substrates 37
 Chaetoceros 363
 chemical 102 428

- Chesapeake 22 67 91 140 141 296
 473
 Chinhae 238
 chlorinated hydrocarbons 37 137
 chlorophyll 28 43 64 67 80 102
 140 154 155 174 288 296 365 382
 391 403 453 454 473 481
 Chocolate 102
 Chowan 450
 Cochin 391
 coliforms 542
 Colville 7
 community structure 89 174 256
 Copepoda 195
 crabs 231
 Craiglin 393
 Creek 21
 crustaceans 195 256 339
 ctenophores 362
 cycles 21 91 129 185 410 428 499
 522
 C14 140 152 382 391 453
 density 393
 deoxygenation 104 542
 detergent 335
 detritus 22 192 195
 diatoms 5 445
 DIC 473
 DIN 450
 disease 238
 dispersion 37
 dissolved solids 137 313
 distribution 155 383 460
 diurnal 62 93 129
 diversity 102 155 364 447
 DO 67 80 93 102 137 154 174 194
 202 304 313 335 441 447 542
 DOC 104 416 473
 DON 450
 Duwamish 481
 economics 37
 energetics 365
 energy transfer 141 192 195 231
 276 335 362 534
 Estuary 7 67 80 89 93 104 124
 141 154 174 181 185 192 195 202
 304 336 367 391 403 450 481 507
Euphaussid furcilia 363
Eurytemora affinis 195
 eutrophication 124
 factorial productivity 367
 fatty acids 382
 fauna 276 393
 feeding rates 363
 fertilizer 202 238 361 393
 fiord 460
 fish 202 231 256 335 339 447 515
 534 542
 fisheries 7 124 465
 Fladen Ground 453
 Florida 181
 flushing 155
 flux 22 187 362
 foraminifera 256 339
 freshwater 86 231
 Galveston 231
 glucose 313
 Grevelingen 336
 growth rates 522 534
 Gulf 137 155
 Harbor 447 460
 Hawaii 64 330
 heat 89 141 542
 heterotrophic 86 256 339
Hydrobia ulvae 393
 hydrology 7 43 91 124 137 141
 154 174 441 515
 H3 154
 ice 542
 indicator species 335 383 481
 indices 102
 industry 86 202 361
 Inlet 460
 inorganic 181 416
 insects 256 339
 intertidal 276
 invertebrates 383
 iron 137
 Japan 445
 Kaneohe 64 330
 kelp 522
 kinetics 313
 Korea 238
 Ks 62 522
 laboratory culture 5
 Lagoon 155
 Lake 383
 land development 43
 light 24 174 336 542
 Little River 154

Loch 393 454
 Los Angeles 447
 macroalgae 335
Macrocystis 522
 macrofauna 137
 macrophytes 24 276 511
 Malpeque 499
 management 231 428 515
 manganese 416
 marshes 21 22 192 339 390 507
 Maryland 93 192 195 304
Massartia rotundata 365
 meiofauna 256 339
 metabolism 86 256 276 534
 methods 37 114 152 296 465 542
 microbes 141 195 313 343 445 499
 microcopepods 330
 microcosms 86 140 194 362 364
 microflagellates 174
 microplankton 403
 mining 202 463
 model 64 80 114 231 335 507 515
 542
 molluscs 256 339
 morphology 522
 mucus 152
 mussels 507
 nanoplankton 174 288 296 363 403
 Netherlands 336
 Nevis 454
 New Jersey 390
 New York 410
 nitrate 5 64 67 129 382 454 473
 481
 nitrification 410
 nitrite 5 67 473 481
 nitrogen 21 22 43 62 67 80 91
 115 129 181 185 187 194 202 256
 330 339 362 499 522
 nitrogen fixation 49
 nitrogen oxygen demand 80
 North 453 454
 North Carolina 43 89 185 202 450
 North Inlet 507
 Nova Scotia 381 382
 nutrients 7 24 28 62 80 86 89
 104 137 141 192 288 304 313 336
 343 362 364 383 391 410 416 428
 441 445 463 465 473 511 515 522
 542
 N15 62 129
Obelia dichotoma 37
 oil 137
 organic 141
 organic matter 28 410
 organisms 335 410 447 542
 orthophosphate 5
 oysters 499 507
 P/B 330 381
 P/N 441
 Pamlico 104 185 202
 Parramatta 403
 Patuxent 93 141 192 195 304
 PC 465
 Periphyton 481
 pesticides 137
 pH 67 383
 phaeophytin 473
 phosphate 64 67 181 202 313 361
 454 481
 phosphorus 21 22 43 49 80 91 115
 137 154 181 187 194 256 304 339
 382 463 473 499
 phytoplankton 28 43 62 64 67 80
 86 91 114 115 129 137 141 154
 155 174 187 194 202 256 288 296
 304 339 361 363 367 381 382 416
 441 450 460 507 511 515 542
 plankton 202 288 364 365 383 447
 plants 141
 PN 465
 POC 104 453 454
 pond experiment 89 256 339
 Pontchartrain 383
 populations mixed 367
 populations single 367
Porphyra 238
 Potomac 67 80
 power plant 141
 primary 5 7 21 22 24 28 40 43 49
 62 64 80 86 91 93 104 115 124
 129 137 140 141 152 154 155 174
 181 185 187 192 195 202 238 276
 288 296 304 335 336 343 361 362
 367 382 383 390 391 403 410 416
 441 445 450 453 460 465 473 481
 507 511 515 522 542
 processes 185 453 507
Pseudocalanus minutus 363
 Puget 515

- P32 154
 Raritan 40 288 365
 rate constants 542
 ratio 381
 reaeration 80 542
 red tide 361
 redox potential 313
 resources 7
 respiration 28 80 86 89 93 102
 104 343 365 382 441
 runoff 383 465
 salinity 43 67 154 174 202 231
 383 441
 Scotland 454
Scotlana canadensis 195
 Sea 335 445 453 454
 seasons 89 102 276 391 441 450
 453
 secchi disc 441
 secondary 231 330 343
 sediment water 21 181 313
 sediments 49 137 187 304 410
 sewage 37 62 64 89 93 115 129
 140 202 256 276 330 335 339 343
 416 447
 shrimp 231
 silica 152 187 382
Skeletonema 367
 Sound 43 450 515
 South Creek 89
Spartina alterniflora 390
 spatial component 381
 spatial distribution 542
 St Lawrence 124
 St Margaret 465
 stress 534
 succession 367 460 515
 suspended solids 124 465
 symposium 137 335
 Taylor 102
 TDC 473
 temperature 43 67 89 154 174 202
 391 441
 temporal distribution 542
 tertiary 339
 Texar 181
 Texas 86 102 231
 thermal 141 304
 three dimensional 515
 tides 22 155 507
- TOC 104
 trace metals 37 115 124 137
 Trinity 86
 trophic levels 515
 turbidity 43 67 511
 uptake rates 129
 urea 62 129
 Vancouver 460
 Virginia 21
 Vm 62 522
 Ware 21
 Washington 481 515
 wastes 86 102 137 238 447 481
 water column 507
 water velocity 336 522
 wetlands 192 195
 winter 445
 York 174 367
 zooplankton 67 86 102 137 140
 154 194 296 335 363 391 542
Zostera marina 336
- profiles
 BOD 541
 DO 541
 Estuary 214
 microbes 541
 mixing depth 541
 nitrogen 541
 nonpoint sources 541
 nutrients 214
 organic 541
 phosphorus 541
 point sources 541
 Potomac 214
 predictions 541
 runoff 541
 salinity 541
 sediments 541
 soil erosion 541
 surface waters 541
 temperature 541
 thermal 541
 turbidity 541
- Prorocentrum micans*
 Bay 287
 bloom 287
Massartia rotundata 287
 New York 287
Olisthodiscus luteus 287
 phytoflagellate 287

- salinity 287
- protein**
 - alkaline phosphatase 470
 - ammonia 69
 - ATP 295
 - Basin 295
 - Bay 470
 - Bedford 295
 - carbohydrates 295
 - carbon 295
 - Chlorella salina* 69
 - chlorophyll 470
 - distribution 470
 - DNA 470
 - enzymes 470
 - flagellates 295
 - indices 470
 - microbes 470
 - nitrate 69
 - particulate matter 295
 - phosphate 69
 - phosphorus 470
 - phytoplankton 295
 - salinity 69
 - seston 470
 - sewage 69
 - Tokyo 470
 - uptake rates 69
 - zooplankton 295
- Providence**
 - Bay 423
 - chlorophyll 423
 - Estuary 423
 - fatty acids 423
 - microbes 423
 - Narragansett 423
 - oil 423
 - sewage 423
 - suspended solids 423
 - Taunton 423
- Pseudocalanus minutus**
 - bloom 363
 - Calanus pacificus* 363
 - Chaetoceros* 363
 - Euphaussid furcilia* 363
 - feeding rates 363
 - nanoplankton 363
 - phytoplankton 363
 - productivity 363
 - zooplankton 363
- pS2**
 - pH 526
 - redox potential 526
 - sediments 526
- pteropods**
 - Bay 524
 - bloom 524
 - dinoflagellate 524
 - Fundy 524
 - Gonyaulax excavata* 524
 - herring 524
 - Limacina retroversa* 524
- public opinion**
 - agencies 61 159
 - Bay 61 429
 - benthic 508
 - Chesapeake 429
 - dredging 498
 - economics 498 508
 - fisheries 498
 - industry 498 508
 - local 61 159
 - management 61 159 429 498 508
 - nutrients 498
 - organisms 508
 - participation 61
 - pesticides 508
 - plants 508
 - power plant 498
 - recreation 508
 - resources 159 429 498
 - San Francisco 61
 - state 159
 - symposium 498
 - tertiary 508
 - wastes 508
- Puerto Rico**
 - algae bluegreen 243
 - algae mats 243
 - bacteria 243
 - Bay 243
 - Guayanilla 243
 - heterotrophic 243
 - nitrogen fixation 243
 - sediments 243
 - thermal 243
- Puget**
 - anaerobic 358
 - benthic 305 358
 - bibliography 84

dehydrogenase 358
 disease 305
 diversity 17
 DO 117
 ecosystem 84
 fish 17 305 515
 hydrology 515
 intertidal 17
 invertebrates 17
 Lake 358
 land development 84
 macrofauna 17
 management 515
 metabolic heat release 358
 metabolism 358
 microcalorimetry 358
 model 515
 nutrients 358 515
 organic matter 358
 organisms 358
 orthophosphate 117
 oxygen 358
 phytoplankton 515
 primary 515
 processes 358
 productivity 515
 sediments 17 358
 sewage 17 305
 Sound 17 84 117 305 358 515
 succession 515
 three dimensional 515
 trophic levels 515
 Washington 17 84 305 358 515
 wastes 117
 pulp mill
 amino acids 456
 annelids 370
 Apalachee 191 278
 bacteria 456
 bacteria proteolytic 456
 Bay 191 278 488
 benthic 191 370 409
 biomass 409
 BOD 136
 C/N 136
 carbohydrates 456
 Charleston 136
 crustaceans 370
 C14 456
 diversity 409
 DO 278
 England 370
 Estuary 98
 fauna 456
 fish 278 513
 fisheries 488
 Florida 191 278
 fucaceae 334
 fungus 456
 growth rates 459
 Harbor 136
 heterotrophic 456
 indicator species 191 370
 indices 456
 industry 136 488
 intertidal 334
 invertebrates 191
 Japan 488
 Laita 98
 Linnhe Eil 370
 Loch 370
 macrofauna 409
 methods 456
 microbes 456
 mining 513
 model 98
 molluscs 370
 mud flats 191
 Mytilus 334
 oil 456 513
 oyster reefs 191
 pesticides 513
 pH 302
 phytoplankton 456 459
 processes 456
 radioactivity 513
 runoff 513
 salinity 456
 salmonids 98 302
 seagrass 191
 sewage 136 456 488 513
 South Carolina 136
 Spain 334
 stress 334
 succession 370 409
 Suruga 488
 symposium 456
 thermal 456 513
 toxicity 302
 trace metals 456

Ulvales 334
 wastes 136 191 302 334 488 513
Pygospio elegans
Bathyporia sarsi 11
 Bay 11
 benthic 11
Capitella capitata 11
 community structure 11
 Kiel 11
 macrofauna 11
oligochaetes 11
 sewage 11
P32
 Australia 154
 Bay 469
 biomass 154
 bound 3
 Chesapeake 469
 chlorophyll 154
 clay 385
 dissolved 3
 DO 154
 Doboy 385
 DOP 469
 Estuary 154
 fertilizer 3
 flux 385
 Georgia 385
 hydrology 154
 H₃ 154
 inorganic 385
 K_s 469
 Little River 154
 microbes 385
 nitrate 3
 orthophosphate 469
 phosphate 385
 phosphorus 3 154
 phytoplankton 154 469
 polyphosphate 469
 pond experiment 3
 primary 154
 productivity 154
 salinity 154
 sediment water 385
 sediments 3
 Sound 385
 temperature 154
 turnover rates 469
 Vm 469

zooplankton 154
quasi linear
 Agnes 415
 Bay 415
 Chesapeake 415
 chlorophyll 415
 Estuary 415
 Hurricane 415
 Michaelis Menton 415
 model 415
 nitrogen 415
 phosphorus 415
 phytoplankton 415
 Susquehanna 415
 wastes 415
Quinte
 Bay 52
 biomass 52
 Canada 52
 macrophytes 52
 phosphate 52
 sewage 52
 tertiary 52
radioactivity
 Bay 345 346 402
 bibliography 4 345 346
 chemical 516
 Chesapeake 345 346
 chlorinated hydrocarbons 491
 dredging 4
 economics 4 491
 Estuary 402
 eutrophication 4 345 346
 fish 513 516
 Florida 402
 food processing 516
 freshwater 402
 hydrology 491
 industry 516
 Louisiana 402
 management 402 491
 Mediterranean 491
 microbes 491 516
 mining 513
 model 345 346
 North Carolina 402
 nutrients 402 491 516
 oil 4 491 513
 Oregon 516
 Palm 402

- pesticides 4 513
- pollution 4
- pulp mill 513
- resources 345 346 491 516
- runoff 402 513
- Santee 402
- Sea 491
- sediments 491
- sewage 513 516
- South Carolina 402
- Sphaerotilus* 516
- swamps 402
- thermal 4 513 516
- trace metals 4 491 516
- wastes 513
- wetlands 402
- rainfall**
 - ammonia 176
 - Bay 147 297
 - Chesapeake 297
 - Cladocera* 147
 - cycles 297
 - DON 176
 - Evadne tergestina* 147
 - Georgia 176
 - local 297
 - Malagasy Republic 147
 - microbes 297
 - nitrate 176
 - nitrite 176
 - nitrogen 297
 - Nosy Be 147
 - nutrients 297
 - Penilia avirostris* 147
 - pH 176
 - phosphorus 297
 - phytoplankton 147 297
 - seasons 147
 - sediments 297
 - symposium 297
 - tropical 147
 - uptake rates 297
 - vertical transport 297
 - zooplankton 147 297
- Rangia**
 - Estuary 90
 - hydrology 90
 - mining 90
 - North Carolina 90
 - Pamlico 90
- Rappahannock**
 - alkalinity 380
 - Bay 173 380 495
 - BOD 495
 - carbon 495
 - Chesapeake 173 380 495
 - Chickahominy 173
 - chlorophyll 495
 - coliforms 380
 - DC 380
 - deposition 328
 - detritus 328
 - DO 380 495
 - Estuary 173 328 380 495
 - industry 380
 - James 173 380 495
 - linear regression 173
 - Maryland 380
 - microbes 328
 - nitrate 380
 - nutrients 173 380 495
 - Patuxent 173 380 495
 - pesticides 380
 - pH 380
 - phosphate 380
 - Potomac 173 380 495
 - processes 328
 - redox potential 328
 - salinity 328
 - seasons 173
 - sediments 328 380
 - sewage 380
 - Susquehanna 173 380 495
 - trace metals 380
 - Virginia 380
 - wastes 380
 - watersheds 173 380
 - York 173 380 495
- Raritan**
 - Acartia* 227
 - Balanus* 227
 - Bay 40 224 226 227 288 365 366
 - benthic 224
 - bloom 227

chlorophyll 288 365
 cycles 224
 DO 226
 energetics 365
 Estuary 227 426
Eurytemora 227
 flux 366
 hydrology 224 226
 latitudinal gradients 227
Massartia rotundata 365
 metabolism 224
 methods 426
 model 366
 N/P 226
 nanoplankton 288
 Narragansett 227
 negentropy 366
 New Jersey 224 226 227 426
 New York 426
 nitrate 224 226
 nutrients 226 227 288
 organic matter 227
 phosphate 224 226
 phytoplankton 227 288
 plankton 226 288 365 366
 primary 40 288
 processes 224
 productivity 40 288 365
 respiration 365
 Rhode Island 227
 salinity 226 227
 seasons 224 226 227
 spatial distribution 426
 temperature 226
 temporal distribution 426
 trace metals 426
 Virginia 227
 wastes 227
 York 227
 zooplankton 227

rate constants
 benthic 542
 benthic oxygen demand 542
 carbon 542
 coliforms 542
 deoxygenation 542
 DO 542
 fish 542
 heat 542
 ice 542

light 542
 methods 542
 model 542
 nutrients 542
 organisms 542
 phytoplankton 542
 primary 542
 productivity 542
 reaeration 542
 spatial distribution 542
 temporal distribution 542
 zooplankton 542

ratio
 Basin 381
 Bedford 381
 Nova Scotia 381
 P/B 381
 phytoplankton 381
 productivity 381
 spatial component 381

reaeration
 benthic 542
 benthic oxygen demand 80 542
 bloom 80
 carbon 542
 carbon oxygen demand 80
 Channel 253
 chlorophyll 80
 coliforms 542
 deoxygenation 542
 DO 80 542
 Estuary 80
 fish 542
 heat 542
 Houston Ship 253
 hydrology 253
 ice 542
 light 542
 methods 542
 model 80 542
 nitrogen 80
 nitrogen oxygen demand 80
 nutrients 80 542
 organisms 542
 phosphorus 80
 phytoplankton 80 542
 Potomac 80
 primary 80 542
 productivity 80 542
 rate constants 542

respiration 80
spatial distribution 542
temporal distribution 542
zooplankton 542
real time
 aerobic 183
 ammonia 407
 BOD 212
 CBOD 407 408
 chlorophyll 407
 coliforms 183 407
 cycles 183
 DO 212 407 408
 Estuary 183 212 407 408
 hydrology 183 212 321
 inorganic 407
 management 183
 microbes 183
 model 183 212 321 407 408
 NBOD 408
 nitrate 407
 nitrite 407
 nitrogen 183 321 407
 one dimensional 407 408
 organic 407
 Pagan 407 408
 phosphorus 407
 phytoplankton 407
 Potomac 183
 predictions 183
 processes 183
 salinity 212 407 408
 tidal average 212
 tides 183
 Transient Water Quality Network
 183
 Virginia 212
 York 212
recipient analog
 community structure 483
 methods 483
 primary 483
 secondary 483
 sewage 483
 tertiary 483
records
 Estuary 158
 history 158
 marshes 158
 Pb210 158
 plutonium 158
 Savannah 158
 sediments 158
recovery
 benthic 371
 community structure 371
 ecocline 371
 gradient 371
 indicator species 371
 indices 371
 organic enrichment 371
 sediments 371
 succession 371
recreation
 agriculture 517
 Bay 94
 benthic 508
 coliforms 94
 diversity 94
 dredging 96
 economics 94 508
 Estuary 82
 fertilizer 517
 fisheries 94 96
 flood control 96 517
 Hawaii 94
 hydrology 517
 industry 508 517
 Kaneohe 94
 land development 96 517
 Louisiana 96
 management 96 508
 Massachusetts 82
 nitrate 82
 nitrogen 94
 North Carolina 517
 nutrients 82 96 517
 organisms 508
 pesticides 508 517
 phosphate 82
 phosphorus 94
 phytoplankton 82 96
 Pines 82
 plants 508
 public opinion 508
 resources 517
 runoff 96
 sewage 82 94 96
 soil erosion 96
 Suagus 82

tertiary 508
Ulva 82
wastes 508
watersheds 517
wetlands 96
recycle
 artificial recharge 138
 canal 138
 dissolved solids 138
 economics 138
 Estuary 138
 nitrification 138
 ozonization 138
 sewage 138
 Thames 138
 water supply 138
red tide
 aerobic 122
 benthic 10
 bloom 10
 coliforms 122
 cysts 10
 dinoflagellate 10
 fertilizer 361
 Gonyaulax 10
 industry 361
 Massachusetts 10
 microbes 122
 phosphate 361
 phytoplankton 361
 plankton 122
 primary 361
 productivity 361
 sewage 122
 spores 10
 toxicity 10
redox potential
 alkalinity 293
 ammonia 293
 anaerobic 127
 Bay 293
 Bayou 313 315
 Chesapeake 293
 chloride 293
 decomposition 299
 denitrification 127
 deposition 328
 detritus 328
 diffusion 127
 dissolved solids 313
distribution 293
 DO 126 313 315
 electron transfer 299
 energy transfer 299
 Estuary 328
 floodwaters 127
 flux 315
 glucose 313
 growth rates 299
 interstitial 293
 iron 293
 kinetics 313
 Louisiana 126 127
 manganese 293
 marshes 126
 microbes 299 313 328
 nitrate 126 127
 nutrients 313
 organic matter 299
 pH 293 315 526
 phosphate 293 313 315
 processes 315 328
 productivity 313
 pS2 526
 Rappahannock 328
 salinity 315 328
 seasons 293
 sediment water 313 315
 sediments 126 328 526
 silica 293
 steady state 299
 substrates 299
 sulfate 293
 temperature 315
 Texar 315
reduction
 acetylene 444
 ammonia 444
 Bay 252
 cycles 233
 denitrification 444
 Denmark 233
 Mangoku 252
 microbes 252
 nitrate 252 444
 nitrification 252
 N15 252
 Odawa 252
 oxidation 233
 sediments 233 252 444

sulphur 233
 turnover rates 233
 Ura 252
Zostera 252
regression analysis
 remote sensing 527
release
 salinity 405
 suspended solids 405
 trace metals 405
remote sensing
 alpha fluorescence 329
 ammonium 38
 Bay 318
 bibliography 211
 Chesapeake 318
 chlorophyll 329 350
Chrysaora quinquecirrha 38
 dredging 318
 dye 318
 Estuary 350
 eutrophication 211
 indices 350
 industry 211
 Maryland 350
 methods 350
 nitrate 38
 oil 211 318
 Patuxent 350
 pH 38
 phosphate 38
 phytoplankton 329
 polyp 38
 regression analysis 527
 resources 211
 sea nettle 38
 sewage 38 318
 suspended solids 350
 thermal 211
removal
 methods 271
 nutrients 271
 sewage 271
reproduction
 abundance 120
 algae 120
 Bay 392
 benthic 120
Chaetodon miliaris 392
 diversity 120
 fish 392
 Great Britian 120
 growth rates 392
 Hawaii 392
 Kaneohe 392
 long term 120
 seasons 120
 sewage 392
 wastes 120
 zooplankton 392
research
 global 490
 management 490
 monitoring 490
 resources 490
resources
 agencies 159
 agriculture 517
 Alaska 7
 algae 216
 Bay 345 346 429
 bibliography 56 57 211 345 346
 chemical 516
 Chesapeake 345 346 429
 chlorinated hydrocarbons 491
 Colville 7
 distribution 125
 DO 216 222
 dredging 498
 economics 491 494 498
 Estuary 7 209 216 222
 eutrophication 56 57 211 345 346
 fertilizer 517
 fish 516
 fisheries 7 398 494 498
 flood control 517
 food processing 516
 freshwater 222
 global 490
 Hudson 209
 hydrology 7 491 517
 indices 125
 industry 211 498 516 517
 land development 56 57 209 216
 517
 local 159
 management 159 209 398 429 490
 491 494 498
 Mediterranean 491
 microbes 216 491 516

Mississippi 125
 model 345 346
 monitoring 490
 nitrate 125
 North Carolina 517
 nutrients 7 125 216 222 491 494
 498 516 517
 oil 211 491
 Oregon 516
 pesticides 517
 phosphate 125
 Potomac 216 222
 power plant 498
 primary 7
 productivity 7
 public opinion 159 429 498
 radioactivity 345 346 491 516
 recreation 517
 remote sensing 211
 research 490
 runoff 216
 Sea 491
 sediments 491
 sewage 516
 Sound 125
Sphaerotilus 516
 state 159
 symposium 494 498
 thermal 211 516
 trace metals 216 491 516
 viruses 216
 wastes 216 222
 watersheds 517
respiration
 activated sludge 514
 algae 89 343
 ammonia 487
 animals 89
 ash 382
 autotrophic 86
 bacteria 440
 Bay 86 365 440
 Bayou 102
 benthic oxygen demand 80 440
 bloom 80 382
 BOD 487
 Buzzards 440
 California 441
 carbon 382
 carbon oxygen demand 80
 chemical 102
 chlorophyll 28 80 102 365 382
 Chocolate 102
 COD 440
 community structure 89
 C14 382
 denitrification 514
 deoxygenation 104
 diurnal 93
 diversity 102
 DO 80 93 102 441
 DOC 104
 energetics 365
 Estuary 80 89 93 104
 fatty acids 382
 freshwater 86
 heat 89
 heterotrophic 86
 hydrology 441
 indices 102
 industry 86
 Maryland 93
Massartia rotundata 365
 metabolism 86
 microbes 343 487
 microcosms 86
 model 80
 nitrate 382 487
 nitrification 487 514
 nitrite 487
Nitrobacter 487
 nitrogen 80
 nitrogen oxygen demand 80
Nitrosomona 487
 North Carolina 89
 Nova Scotia 382
 nutrients 28 80 86 89 104 343
 441
 organic matter 28
 P/N 441
 Pamlico 104
 Patuxent 93
 phosphorus 80 382
 phytoplankton 28 80 86 382 441
 plankton 365
 POC 104
 pond experiment 89
 Potomac 80
 primary 28 80 86 93 104 343 382
 441

- productivity 28 80 86 89 93 102
104 343 365 382 441
- Raritan 365
 - reaeration 80
 - salinity 441
 - seasons 89 102 441
 - secchi disc 441
 - secondary 343
 - sediments 440
 - sewage 89 93 343 440
 - silica 382
 - South Creek 89
 - Taylor 102
 - temperature 89 441
 - Texas 86 102
 - TOC 104
 - Trinity 86
 - wastes 86 102
 - zooplankton 86 102
- Rhode
 - algae 133
 - Bay 133
 - biomass 133
 - Chesapeake 133
 - Estuary 133
 - microbes 133
 - orthophosphate 133
 - uptake rates 133
- Rhode Island
 - Acartia 227
 - ammonia 178 387
 - Balanus 227
 - Bay 178 227 387
 - benthic 178
 - bloom 227
 - carbon 387
 - chambers 178
 - DO 387
 - Estuary 227
 - Eurytemora 227
 - flux 178 387
 - inorganic 178
 - latitudinal gradients 227
 - microcosms 387
 - Narragansett 178 227 387
 - New Jersey 227
 - nitrate 178
 - nitrite 178
 - nitrogen 387
 - nutrients 227 387
- organic matter 227
- phosphate 178
- phosphorus 387
- phytoplankton 227
- Raritan 227
- salinity 227
- seasons 227
- sediment water 178 387
- sediments 387
- temperature 178
- trace metals 387
- Virginia 227
- wastes 227
- York 227
- zooplankton 227
- Rockaway Point
 - abundance 113
 - ammonium 113
 - Bight 113
 - chlorophyll 113
 - distribution 113
 - freshwater 113
 - New Jersey 113
 - New York 113
 - nitrate 113
 - nitrite 113
 - phosphate 113
 - phytoplankton 113
 - salinity 113
 - silica 113
 - suspended solids 113
 - temperature 113
- Rogerstown
 - algae mats 130
 - Estuary 130
 - Ireland 130
 - mud flats 130
 - nutrients 130
 - organic 130
 - wastes 130
- runoff
 - abundance 383
 - agriculture 26 60
 - algae 216 442
 - algae mats 60
 - alkalinity 383
 - assay 383
 - ATP 465
 - Australia 60 424
 - Bay 402 465

benthic oxygen demand 420
 BOD 541
 C/N 150 465
 chlorophyll 424
 COD 442
 cycles 464
 Delaware 134
 detritus 424
 distribution 383
 DO 216 464 541
 DOC 150
 DON 150
 dredging 96
 economics 134
 Estuary 134 143 216 223 402
 fertilizer 464
 fish 513
 fisheries 96 465
 flood control 96
 Florida 402
 freshwater 402 420
 Georgia 150
 Hacking 424
 hydrology 420 424
 indicator species 383
 industry 134 205 442 464
 invertebrates 383
 isopleths 223
 Lagoon 60
 Lake 383
 land development 96 216
 light 420 424
 Louisiana 96 402 442
 management 96 205 402
 marshes 442
 methods 424 465
 microbes 216 442 541
 mining 464 513
 mixing depth 541
 model 205 223 420
 nitrate 143
 nitrogen 541
 nonpoint sources 223 541
 North Carolina 402
 nutrients 26 96 143 216 223 383
 402 442 465
 oil 513
 one dimensional 420
 organic 541
 Orielton 60
 Palm 402
 PC 465
 pesticides 513
 pH 383
 phosphate 143
 phosphorus 223 464 541
 phytoplankton 96 424
 plankton 383
 PN 465
 point sources 541
 Pontchartrain 383
 Port 424
 Potomac 216 223
 predictions 541
 primary 383 465
 processes 223
 productivity 383 465
 profiles 541
 pulp mill 513
 radioactivity 402 513
 recreation 96
 resources 216
 salinity 60 383 541
 salts 143
 Santee 402
 Savannah 150
 sediments 424 541
 sewage 60 96 134 442 464 513
 soil erosion 96 541
 Sound 150
 South Carolina 402
 spatial distribution 223
 St Margaret 465
 stochastic 205 420
 storm loading 134
 surface waters 541
 suspended solids 424 465
 swamps 402
 Tasmania 60
 temperature 60 420 541
 temporal distribution 223
 Thames 143
 thermal 513 541
 TOC 442
 trace metals 216
 transport 223
 turbidity 420 541
 United Kingdom 143
 viruses 216
 wastes 134 143 216 223 442 464

- 513
- wetlands 26 96 402
- Sacramento**
 - Estuary 341
 - model 341
 - nutrients 341
 - phytoplankton 341
 - Potomac 341
 - symposium 341
 - zooplankton 341
- Sacramento San Joquin**
 - ammonia 477
 - BOD 477
 - California 477
 - cycles 477
 - Delaware 477
 - Delta 477
 - DIN 477
 - DO 477
 - Estuary 477
 - model 477
 - nitrite 477
 - nitrogen 477
 - oxidation 477
 - phytoplankton 477
 - Potomac 477
 - stochastic 477
 - zooplankton 477
- Sado**
 - Estuary 474
 - organic matter 474
 - Portugal 474
 - Tagus 474
 - temperature 474
 - yeast 474
- Sagami**
 - Actinetobacter 431
 - bacteria 431
 - Bay 431
 - heterotrophic 431
 - nutrients 431
 - phytoplankton 431
 - Suruga 431
 - Tokyo 431
 - Vibrios 431
 - zooplankton 431
- Saldanha**
 - Bay 76
 - benthic 76
 - cannery 76
- macrofauna 76**
- South Africa 76**
- wastes 76**
- salinity**
 - abundance 43 113 383 389
 - Acartia 227
 - adsorption 259
 - agriculture 60
 - agrochemicals 455
 - Alaska 319
 - Albemarle 43
 - algae mats 33 60
 - alkalinity 47 67 184 383 455
 - amino acids 456
 - ammonia 43 44 50 67 69 184 204
311 388 407
 - ammonium 113
 - animals 202
 - arctic 319
 - assay 383
 - Australia 60 154 388
 - bacteria 456
 - bacteria proteolytic 456
 - Balanus 227
 - Barataria 95
 - Basin 95
 - Bay 67 71 184 198 226 227 231
287 353 388 389 422 455
 - Bayou 315
 - benthic 33 106 319 388 389
 - benthic oxygen demand 33
 - Bight 113
 - biomass 154 231 332
 - black necrosis 2
 - bloom 204 227 287
 - boat traffic 455
 - BOD 71 212 290 311 353 541
 - British Columbia 512
 - Broadkill 101
 - Burry Inlet 2
 - California 441
 - canal 512
 - carbohydrates 456
 - carbonate ion 308
 - CBOD 407 408
 - Chesapeake 67 184 422 455
 - Chlorella salina 69
 - chlorine 184 455
 - chlorophyll 43 47 67 101 113 154
174 184 407

clay 259 458
 coliforms 290 353 407
 community structure 174
 Cook 319
 crabs 231
Crangon crangon 2
 cycles 241
 C14 456
 Damariscotta 106
 Delaware 101
 density 198
 deposition 328
 detergent 2 270
 detritus 328
 disease 455
 distribution 50 71 113 383
 diversity 389
 DO 2 47 67 71 101 106 154 174
 184 202 212 226 241 270 290 311
 315 319 332 353 389 407 408 441
 541
 DOC 308 311
 DON 311
 dredging 455 512
 dye 68
 east coast 77
 energy transfer 231
 epiphytes 455
 Estuary 33 47 50 67 90 101 106
 154 174 202 204 212 227 328 389
 407 408 492
Eurytemora 227
 fauna 388 389 455 456
 fertilizer 202 204
 fish 44 106 202 231
 fisheries 77 95
 flushing 512
 flux 315 458
 freshwater 113 204 231
 fungus 456
 Galveston 231
 Great Britain 2
 growth rates 106
 Harbor 458
 heterotrophic 456
 Hobsons 389
 Hong Kong 458
 hydrology 43 71 90 154 174 198
 212 226 241 441
 H3 154
 indicator species 383
 indices 456
 industry 202
 Inlet 319
 inorganic 101 407
 interface salt fresh 311
 invertebrates 106 383
 iron 492
 Jamaica 353
 James 47
 juveniles 77
 laboratory culture 106
 Lagoon 60
 Lake 383
 land development 43 458
 larvae 106
 latitudinal gradients 227
 light 174
 Little River 154
 Louisiana 95
 Maine 106
 management 231 471
 Maryland 68
Massartia rotundata 287
 methods 456
 Michaelis Menton 71
 microbes 2 319 328 332 456 541
 microflagellates 174
 mining 90 202
 mixing depth 541
 model 33 71 198 212 231 353 407
 408
 molluscs 308
 Murderkill 101
 N/P 226
 nanoplankton 174
 Narragansett 198 227
 NBOD 408
 Neuse 204
 New Jersey 113 226 227
 New York 113 287 353
 nitrate 50 67 69 113 204 226 407
 nitrite 50 67 113 290 311 407
 nitrogen 43 50 67 101 202 319
 353 407 541
 nonpoint sources 541
 North Carolina 43 90 202 204 492
 NO₂ 47
 NO₃ 47
 nursery grounds 95

nutrients 50 71 95 101 226 227
 241 259 270 383 388 441 455 471
 512
 oil 455 456
Olisthodiscus luteus 287
 one dimensional 407 408
 Oregon 33
 organic 50 259 407 541
 organic matter 227 290 422
 organisms 319
 Orielton 60
 orthophosphate 184
 outfall diffuser 68
 oysters 471
 P/N 441
 Pagan 407 408
 Pamlico 90 202 492
 PC 270
 Penobscot 106
 pH 2 44 47 67 71 101 184 259 290
 308 311 315 319 332 383 455
 phosphate 50 67 69 113 184 202
 226 259 315 458 492
 phosphorus 43 47 90 101 154 204
 241 259 319 353 407 541
 phytoflagellate 287
 phytoplankton 43 47 67 71 90 113
 154 174 202 204 227 407 441 456
 plankton 202 226 270 319 383
 PN 47 270
 point sources 541
 poly B hydroxybutyrate 332
 Pontchartrain 383
 Port Phillip 388
 Potomac 67
 predictions 541
 primary 43 154 174 202 383 441
 processes 184 315 328 456
 productivity 43 67 154 174 202
 231 383 441
 profiles 541
Prorocentrum micans 287
 protein 69
 pulp mill 456
 P32 154
 Rangia 90
 Rappahannock 328
 Raritan 226 227
 real time 212 407 408
 redox potential 315 328
 release 405
 respiration 441
 Rhode Island 227
 Rockaway Point 113
 runoff 60 383 541
 San Francisco 71
 seasons 50 71 226 227 290 441
 secchi disc 422 441
 secondary 231
 sediment water 259 315
 sediments 33 90 106 328 332 388
 458 492 541
 seston 270
 settlement 106
 sewage 60 68 69 202 204 259 319
 388 456 471
 sewage treatment farm 388
 Sheepscot 106
 shellfish 290
 shrimp 231
 silica 113 319
 silicate 50
 soil erosion 541
 Sound 43
 specie key 455
 St Lawrence 50
 submerged vegetation 455
 sulfate 184
 sulfide 33 184
 surface waters 541
 suspended solids 113 405 422 492
 symposium 456
 Tasmania 60
 temperature 2 43 44 47 50 60 67
 68 71 77 106 113 154 174 184 202
 226 259 270 290 315 441 455 512
 541
 Texar 315
 Texas 231
Theora fragilis 389
 thermal 456 541
 three dimensional 198
 tidal average 212
 tides 33 101 512
 Tolo 458
 trace metals 2 184 311 405 455
 456
 turbidity 43 67 455 541
 two dimensional 353
 uptake rates 69 90 259

- urea 50
- vertical distribution 184
- Virginia 212 227 259
- wastes 90 204 227 512
- water velocity 455
- Werribee 388
- wetlands 95 101
- wind 422
- Yaquina 33
- Yarra 389
- York 174 212 227
- zooplankton 67 77 154 227
- salmonids**
 - Bay 8 401
 - California 8
 - DO 8 401
 - Estuary 98
 - fish kills 401
 - Galveston 401
 - gas bubbles 401
 - Humboldt 8
 - Laita 98
 - model 98
 - mucus 401
 - pH 8 302
 - pond experiment 8
 - pulp mill 98 302
 - saturation 401
 - sewage 8
 - Texas 401
 - toxicity 302
 - wastes 302
- salt wedge**
 - Duwamish 480
 - Estuary 480
 - nutrients 480
 - Washington 480
- Saltkallefjord**
 - benthic 352
 - Byfjorden 352
 - crustaceans 352
 - Estuary 352
 - Gothenburg 352
 - indicator species 352
 - Kungsbackafjorden 352
 - macrofauna 352
 - meiofauna 352
 - Sweden 352
 - zooplankton 352
- salts**
 - BOD 36
 - DO 36
 - Estuary 143
 - light 36
 - NaCl 36
 - nitrate 143
 - nutrients 143
 - phosphate 143
 - runoff 143
 - sediments 36
 - suspended solids 36
 - temperature 36
 - Thames 143
 - turbidity 36
 - United Kingdom 143
 - wastes 143
- sampling frequency**
 - Estuary 249
 - methods 249
 - nutrients 249
 - Squamish 249
- San Diego**
 - Bay 425
 - Meydenbauer 425
 - sewage 425
 - water craft 425
 - Wollochet 425
- San Francisco**
 - agencies 61
 - ammonium 228
 - Bay 61 71 228 354 378
 - BOD 71
 - distribution 71
 - DO 71
 - energy transfer 354
 - freshwater 378
 - hydrology 71 354 378
 - local 61
 - management 61
 - methods 228
 - Michaelis Menton 71
 - model 71 354 378
 - nitrate 228
 - nitrite 228
 - nitrogen 228
 - nutrients 71
 - orthophosphate 228
 - participation 61
 - pH 71
 - phosphorus 228

- phytoplankton 71
- processes 354
- public opinion 61
- salinity 71
- seasons 71
- silica 378
- temperature 71
- transport 354
- two dimensional 378
- sand**
 - Clyde 375
 - Enteromorpha* 375
 - Estuary 375
 - fauna 375
 - fisheries 375
 - molluscs 375
 - nutrients 375
 - Scotland 375
 - sediments 375
 - sewage 375
 - worms 375
- Santee**
 - Bay 402
 - Estuary 402
 - Florida 402
 - freshwater 402
 - Louisiana 402
 - management 402
 - North Carolina 402
 - nutrients 402
 - Palm 402
 - radioactivity 402
 - runoff 402
 - South Carolina 402
 - swamps 402
 - wetlands 402
- Saronic**
 - Cladocera* 245 310
 - Evdane* 310
 - Greece 245 310
 - Gulf 245 310
 - indicator species 245 310
 - industry 245
 - seasons 245 310
 - sewage 245 310
 - temperature 245 310
 - wastes 245
 - zooplankton* 245
- saturation**
 - Bay 401
- DO 401
- fish kills 401
- Galveston 401
- gas bubbles 401
- mucus 401
- salmonids 401
- Texas 401
- Savannah**
 - C/N 150
 - dissolved 131
 - DOC 150
 - DON 150
 - Estuary 131 158
 - Georgia 150
 - history 158
 - inorganic 131
 - marshes 158
 - Mississippi 131
 - Orinoco 131
 - Pb210 158
 - plumes 131
 - plutonium 158
 - records 158
 - runoff 150
 - sediments 158
 - silica 131
 - Sound 150
 - suspended solids 131
 - uptake rates 131
- Scheldt**
 - Belgium 376 535
 - bloom 376
 - clay 535
 - deposition 376
 - diatoms 376 535
 - dissolved 535
 - DO 376
 - Estuary 376 535
 - hydrology 376
 - interface salt fresh 376
 - nutrients 376
 - sediments 376 535
 - self purification 376
 - silica 535
 - suspended solids 376
 - trace metals 376
 - transport 376
- Schizothrix calicola***
 - algae bluegreen 254
 - Cyanophyta* 254

- fish kills 254
- hosts 254
- indicator species 254
- microbes 254
- viruses 254
- Schofield
 - carbon 27
 - Estuary 27
 - inorganic 27
 - James 27
 - microbes 27
 - model 27
 - nitrate 27
 - nitrite 27
 - organic 27
 - phosphate 27
 - phytoplankton 27
 - predictions 27
 - processes 27
 - sewage 27
 - stochastic 27
 - temperature 27
 - Virginia 27
- Scotland
 - carbon 454
 - chlorophyll 454
 - Clyde 375
 - Enteromorpha 375
 - Estuary 375
 - fauna 375
 - fisheries 375
 - Loch 454
 - management 83
 - molluscs 375
 - Nevis 454
 - nitrate 454
 - North 454
 - nutrients 375
 - phosphate 454
 - POC 454
 - productivity 454
 - sand 375
 - Sea 454
 - sediments 375
 - self purification 83
 - sewage 375
 - worms 375
- Scotlana canadensis*
 - carbon 195
 - Copepoda 195
- crustaceans 195
- detritus 195
- energy transfer 195
- Estuary 195
- Eurytemora affinis* 195
- Maryland 195
- microbes 195
- Patuxent 195
- primary 195
- productivity 195
- wetlands 195
- Sea
 - Aberdeen 453
 - algae bluegreen 335
 - Baltic 335
 - Bay 453
 - benthic 335 338
 - biomass 445
 - Black 303
 - bloom 445
 - carbon 454
 - Chaetoceros simplex* 303
 - chlorinated hydrocarbons 491
 - chlorophyll 453 454
 - COD 338
 - crustaceans 338
 - C14 453
 - Delaware 411
 - detergent 335
 - diatoms 153 445
 - distribution 153 309
 - DO 335
 - economics 491
 - energy transfer 335
 - Estuary 309 411
 - fish 335
 - fisheries 338 411
 - Fladen Ground 453
 - hydrology 491
 - indicator species 303 335
 - industry 232
 - interstitial 503
 - intertidal 309
 - Irish 309
 - Japan 338 445
 - kelp 232
 - Loch 454
 - long term 153
 - macroalgae 335
 - macrofauna 309

macroinvertebrates 232
 management 411 491
 mass transfer 503
 Mediterranean 491
 Mersey 309
 metals 232
 microbes 445 491
 model 335 338 411 503
 Nevis 454
 nitrate 303 454
 nitrogen 338
 North 153 232 411 453 454 503
 nutrients 445 491
 oil 338 491
 organic 309
 organic matter 338
 organisms 335
 phosphate 303 454
 phytoplankton 153 303 411
 POC 453 454
 primary 335 445 453
 processes 453
 productivity 335 445 453 454
 radioactivity 491
 resources 491
 Scotland 454
 seasons 309 453
 sediments 338 491
 Seto 338
 sewage 232 303 335 338
 silica 503
 succession 232 411
 sulfate 338
 sulfide 338
 symposium 335
 temperature 153
 trace metals 491
 two layer 503
 wastes 232 309
 winter 445
 zone 503
 zooplankton 153 335
sea nettle
 ammonium 38
Chrysaora quinquecirrha 38
 nitrate 38
 pH 38
 phosphate 38
 polyp 38
 remote sensing 38
 sewage 38
seagrass
 algae 438
 amino acids 528
 Apalachee 191
 Bay 191 355
 benthic 191 234 438 528
 Chesapeake 355
 clay 374
 Cockburn 63
 conference 528
 cycles 528
 detergent 234
 detritus 528
 fertilizer 355
 fish 528
 fisheries 528
 Florida 191
 France 234
 growth rates 63 355
 Gulf 234
 indicator species 191
 invertebrates 191 528
 management 528
 Marseilles 234
 microbes 528
 model 438
 mud flats 191
 nitrogen 528
 nutrients 355 528
 oil 528
 organisms 234 528
 oyster reefs 191
 pesticides 528
 phosphorus 528
Posidonia australis 63
Posidonia oceanica 234
 pulp mill 191
 seasons 63
 sediments 63
 sewage 234 374
 silica 528
 Sound 63
 stress 528
 Texas 438
 trace metals 438 528
 turbidity 374
 urea 528
 wastes 191
 wetlands 528

zooplankton 528
seasons
 Aberdeen 453
 abundance 120
 Acartia 227
 Albemarle 450
 algae 89 120 248 448
 alkaline phosphatase 142
 alkalinity 293
 ammonia 50 293 450
 ammonium 186
 analysis of variance 395
 animals 89 186
 argon 397
 assay 448
 ATP 135
 Balanus 227
 Bay 71 147 173 199 224 226 227
 293 300 397 406 448 453
 Bayou 102
 benthic 120 224 248 331 395
 bloom 227 450 521
 BOD 71 274 290
 Buzzards 406
 C/N 406 450
 California 276 441
 carbon 135
 chemical 102
 Chesapeake 173 293 397
 Chickahominy 173
 chloride 293
 chlorophyll 102 300 391 406 453
 Chocolate 102
 Chowan 450
 Cladocera 147 245 310
 cobalamin 509
 Cochin 391
 Cockburn 63
 coliforms 290
 Columbia 175
 community structure 89
 CO₂ 397
 cycles 186 224
 C₁₄ 391 453
 detritus 406
 DIN 199 450
 distribution 50 71 293 309
 diversity 102 120 300 395
 DO 71 102 226 290 441
 DOM 404
 DON 450
 DRP 199
 Duwamish 521
 energy transfer 276
 Estuary 50 89 103 135 173 175
 186 227 309 391 450 506 521
 Eurytemora 175 227
 Evadne 310
 Evadne tergestina 147
 fauna 276
 Firth of Forth 395
 Fladen Ground 453
 fungus 501
 Georgia 386
 Great Britian 120 199 274
 Greece 245 310
 growth rates 63
 Gulf 245 310
 heat 89
 hydrology 71 224 226 441 448 521
 indicator species 245 310 331
 indices 102 395
 industry 245
 inorganic 186 506
 interstitial 293
 intertidal 276 309 395
 invertebrates 331
 Irish 309
 iron 293
 James 173
 latitudinal gradients 227
 life cycles 248
 light 175 448 521
 linear regression 173 175
 Liverpool 199
 Long Island 404 509
 long term 120 199
 macrofauna 309 395
 macrophytes 103 276
 Malagasy Republic 147
 manganese 293
 Massachusetts 331 406
 Mersey 309
 metabolism 224 276 386
 methane 397
 methods 135
 Michaelis Menton 71
 microbes 135 142 404 501
 model 71 386
 N/P 226

nanoplankton 300 406
 Narragansett 227
 nematodes 331
 New Jersey 224 226 227 300
 Newark 300
 Newport 135
 nitrate 50 175 186 224 226
 nitrite 50 186 290
 nitrogen 50 186 199 397 506
 North 453
 North Carolina 89 135 186 450
 Nosy Be 147
 nutrients 50 71 89 142 173 186
 226 227 391 441 448 509 521
 Oregon 175 448
 organic 50 135 186 309 506
 organic aggregates 404
 organic matter 227 290
 orthophosphate 509
 Oslofjord 248
 P/N 441
 Pamlico 103 186
 Patuxent 173 .
 Penilia avirostris 147
 Periphyton 521
 pH 71 142 290 293
 phosphate 50 142 175 224 226 293
 phosphorus 199 386
 phytoplankton 71 147 175 227 274
 300 404 441 450 506 509 521
 plankton 226
 plants 186
 POC 406 453
 POM 404
 PON 406
 pond experiment 89
 Posidonia australis 63
 Potomac 173
 primary 276 391 441 450 453
 processes 224 386 453 506
 productivity 89 102 276 391 441
 450 453
 rainfall 147
 Rappahannock 173
 Raritan 224 226 227
 redox potential 293
 reproduction 120
 respiration 89 102 441
 Rhode Island 227
 salinity 50 71 226 227 290 441
 San Francisco 71
 Saronic 245 310
 Sea 309 453
 seagrass 63
 secchi disc 441
 sediment water 386
 sediments 63 135 186 397
 sewage 89 142 245 274 276 310
 331 448
 shellfish 290
 silica 175 293
 silicate 50
 Sound 63 404 450 509
 South Creek 89
 spatial distribution 248
 St Lawrence 50
 sulfate 293
 suspended solids 406
 Susquehanna 173
 synthesis 501
 Taylor 102
 temperature 50 71 89 226 245 290
 310 391 441 448
 temporal distribution 248
 Texas 102
 thiamine 509
 tropical 147
 urea 50 186
 Vellar 506
 Virginia 227
 vitamins 501
 wastes 102 120 227 245 309
 watersheds 173
 Woods Hole 331
 Yaquina 448
 yeast 501
 York 173 227
 zooplankton 102 147 175 227 245
 391 404 406
 seaweeds
 symposium 229
 secchi disc
 Aquaforde 145
 Bay 422
 California 441
 Canada 145
 Chesapeake 422
 DO 441
 euglenoid 145
 Harbor 145

- hydrology 441
- indicator species 145
- nanoplankton 145
- nutrients 441
- organic matter 422
- P/N 441
- phytoplankton 145 441
- primary 441
- productivity 441
- respiration 441
- salinity 422 441
- seasons 441
- sewage 145
- St Johns 145
- suspended solids 422
- temperature 441
- wind 422
- secondary**
- algae 236 343 430
- ammonia 123 273 430
- batch culture 144
- Bay 182 231 330
- biomass 144 231
- bloom 144
- BOD 348
- carbon 144
- Chlorophyta 144 430
- community structure 483
- continuous culture 144
- coral 182
- CO₂ 144
- crabs 231
- Cyanophyta 144 430
- denitrification 326
- energy transfer 231 348
- enterovirus 439
- Estuary 430
- exchange diffusion 123
- fertilizer 273
- Fiji Island 326
- fish 231
- freshwater 231
- Galveston 231
- growth rates 236
- Hawaii 182 330
- industry 348
- inorganic 326
- ion exchange 273
- Kaneohe 182 330
- management 231
- mangroves 326
- Maryland 430
- methods 118 123 483
- microbes 182 326 343
- microcopepods 330
- model 231 348
- nitrate 123
- nitrogen 144 326 330
- nitrogen fixation 144 182
- Norway 236
- nutrients 236 343
- N₁₄ 118
- N₁₅ 118
- P/B 330
- pesticides 348
- pH 144
- phosphate 123 273 430
- phosphorus 236
- phytoplankton 144
- Potomac 430
- primary 236 343 483
- productivity 231 330 343
- recipient analog 483
- respiration 343
- salinity 231
- sediments 182 326 439
- sewage 144 182 236 273 326 330 343 348 430 439 483
- shrimp 231
- succession 144
- tertiary 236 326 483
- Texas 231
- trace metals 348
- wastes 118 123 348
- sediment water**
- adsorption 259
- ammonia 178 387
- argon 396
- Bay 178 379 387 396
- Bayou 181 313 315
- benthic 178
- bubbles 396
- carbon 21 181 387
- Carter 21
- chambers 178
- chemical 179
- Chesapeake 396
- clay 259 385
- CO₂ 396
- Creek 21

- cycles 21
 dissolved solids 313
 DO 242 313 315 387
 Doboy 385
 Estuary 181
 Florida 181
 flux 178 315 379 385 387
 Georgia 385 386
 glucose 313
 H₂S 396
 inorganic 178 181 385
 kinetics 313
 marshes 21
 metabolism 386
 methane 396
 methods 179
 microbes 179 313 385
 microcosms 379 387
 model 386
 Narragansett 178 379 387
 nitrate 178
 nitrite 178
 nitrogen 21 181 242 387 396
 nutrients 259 313 387
 organic 259
 pH 259 315
 phosphate 178 181 259 313 315
 385
 phosphorus 21 181 242 259 379
 386 387
 primary 21 181
 processes 315 386
 productivity 21 181 313
 P32 385
 redox potential 313 315
 Rhode Island 178 387
 salinity 259 315
 seasons 386
 sediments 242 387
 sewage 259
 Sound 385
 temperature 178 259 315
 Texar 181 315
 trace metals 242 387
 uptake rates 259
 Virginia 21 259
 Ware 21
 sediments
 acetylene 25 444
 acid extraction 206
- aerobic 58 537
 Agnes 421
 Alabama 132
 algae 537
 algae bluegreen 243 247
 algae mats 33 243
 alkalinity 149 380
 amino acids 49
 ammonia 49 165 190 247 289 387
 388 444
 ammonium 186 210
 anaerobic 58 358
 animals 186
 argon 397
 assay 58
 ATP 135 206 275
 Australia 388 424
 bacteria 243 246 440
 Bay 132 182 190 208 243 252 297
 301 380 387 388 397 417 421 427
 433 440
 Belgium 376 504 535
 benthic 33 106 137 208 338 358
 371 388 410 433 539
 benthic oxygen demand 33 440
 Bight 189 275
 biomass 201 247 275 304 332 525
 537
 bioturbation 539
 Biscayne 427
 bloom 201 275 376 537
 BOD 36 539 541
 Bothnia 137
 bound 3
 British Columbia 247
 Buzzards 440
 cadmium 210 275
 calcium 461
 California 187
 cannery 25
 carbon 19 135 387
 Ceratium 275
 charcoal adsorption 206
 chemical 427
 Chesapeake 297 301 380 397 417
 421
 chlorinated hydrocarbons 137 491
 chlorophyll 289 424
 clay 458 535
 Clyde 375

- Cockburn 63
 COD 289 338 440
 coliforms 380
 community structure 371
 Connecticut 58
 Copps Brook 58
 coral 182
 CO₂ 397 537
 crustaceans 338
 cycles 186 233 247 297 410
 C₁₄ 537
 Damariscotta 106
 DC 380
 degradation 58
 dehydrogenase 358
 Delaware 539
 denitrification 190 326 444 504
 Denmark 233
 density 246 537
 deposition 328 376
 detritus 328 424 537
 diatoms 376 535
 dissolved 3 535
 dissolved solids 137
 distribution 417
 diversity 17 246
 DO 36 106 126 137 242 304 332
 376 380 387 541
 DOC 58
 DON 201
 ecocline 371
 economics 491
 Enteromorpha 375
 enterovirus 439
 enzymes 165
 Estuary 33 90 106 135 158 186
 201 219 289 304 328 375 376 380
 492 493 535 539
 fauna 375 388 539
 fertilizer 3
 Fiji Island 326
 fish 17 106
 fisheries 338 375
 Florida 427 433
 flushing 437
 flux 187 387 458
 free surface 427
 freshwater 219
 Galveston 208
 Georgia 59
 Giens 285
 gradient 371
 growth rates 63 106 285
 Guayanilla 243
 Gulf 137 285
 Hacking 424
 Harbor 458
 Hawaii 182
 heterotrophic 243 246
 Hillsborough 433
 history 158
 Hong Kong 458
 Hurricane 421
 hydrology 90 132 137 201 208 376
 424 491
 indicator species 208 371 417
 indices 189 208 371 437
 industry 208 275 301 380
 Inlet 25
 inorganic 186 201 326
 interface salt fresh 132 376
 interstitial 58 504
 intertidal 17 25
 invertebrates 17 106 433
 iron 137 492 493
 James 380
 Japan 190 338
 Kaneohe 182
Klebsiella pneumoniae 25
 laboratory culture 106
 Lake 358
 land development 458
 larvae 106
 light 36 424
Limnodrilus 539
 local 297
 Louisiana 126
 macrofauna 17 137
 macrophytes 247 537
 Maine 106
 management 491
 Mangoku 190 252
 mangroves 326
 marina 437
 marshes 59 126 149 158 210 461
 Maryland 304 380
 Mediterranean 491
 metabolic heat release 358
 metabolism 58 358 525
 methane 397

methods 135 165 206 424 493
 microbes 58 59 135 182 247 252
 275 297 326 328 332 417 491 525
 537 541
 microcalorimetry 358
 microcosms 387
 microstructure 538
 mining 90 201
 mixing depth 541
 Mobile 132
 model 33 58 132 338 427 437 504
 molluscs 375
 momentum transfer 132
 NaCl 36
 Narragansett 387
 New York 189 275 410
 New Zealand 25
 Newport 135
 nitrate 3 126 186 201 219 252
 380 444 504
 nitrification 252 410 504
 nitrite 186 219 504
 nitrogen 186 187 201 210 242 247
 297 326 338 387 397 461 541
 nitrogen fixation 25 49 182 243
 nomogram 437
 nonpoint sources 541
 North Carolina 90 135 186 492
 493
 nutrients 25 58 137 149 186 210
 289 297 304 358 375 376 380 387
 388 410 491
 N15 190 252
 Odawa 252
 oil 137 338 491
 oligochaetes 539
 Oregon 33
 organic 135 186 539 541
 organic enrichment 371
 organic matter 58 338 358 410
 504
 organisms 358 410
 oxidation 233
 oxygen 358
 Pamlico 90 186 201 492 493
 Patuxent 304 380
 Pb210 158
 Penobscot 106
 percolator 165
 pesticides 137 380
 pH 332 380 526
 PHB 525
 phosphate 219 247 380 458 492
 phosphorus 3 19 49 90 137 149
 187 201 210 242 247 289 297 304
 387 461 493 541
 phytoplankton 90 137 187 201 297
 304 424
 plants 186 461
 plutonium 158
 POC 58
 point sources 541
 poly B hydroxybutyrate 332 525
 POM 421
 PON 190
 pond experiment 3
 Port 424
 Port Phillip 388
 Posidonia australis 63
 Posidonia oceanica 285
 potassium 461
 Potomac 219 289 380
 predictions 433 541
 primary 49 137 187 304 410
 processes 328 358 427
 productivity 49 137 187 304 410
 profiles 541
 pS2 526
 Puerto Rico 243
 Puget 17 358
 P32 3
 radioactivity 491
 rainfall 297
 Rangia 90
 Rappahannock 328 380
 records 158
 recovery 371
 redox potential 126 328 526
 reduction 233 252 444
 resources 491
 respiration 440
 Rhode Island 387
 runoff 424 541
 salinity 33 90 106 328 332 388
 458 492 541
 salts 36
 sand 375
 Savannah 158
 Scheldt 376 535
 Scotland 375

- Sea 338 491
 seagrass 63
 seasons 63 135 186 397
 secondary 182 326 439
 sediment water 242 387
 self purification 246 376
 Seto 338
 settlement 106
 sewage 17 19 25 182 189 219 285
 301 326 338 375 380 388 417 421
 433 439 440
 sewage treatment farm 388
 Sheepscot 106
 silica 149 187 535
 Simoda 190
 slaughterhouse 25
 soil erosion 421 541
 Sound 17 63 358
 South Carolina 149
 spatial distribution 219
 steroids 189
 succession 201 371
 sulfate 165 338
 sulfide 33 338
 sulphur 233
 surface waters 541
 suspended solids 36 59 376 417
 421 424 492 538
 Susquehanna 380
 symposium 137 297
 Tar 201
 temperature 36 106 541
 temporal distribution 219
 tertiary 301 326 433
 tetrazolium salt 58
 Texas 208
 thermal 243 304 541
 three dimensional 132 427
 tides 19 33 210
 time dependent 132 427
 TKN 219
 Tokyo 190
 Tolo 458
 trace metals 137 149 196 210 242
 376 380 387 491
 transport 132 301 376 427
 tris extraction 206
 turbidity 36 541
 turnover rates 233 537
 uptake rates 90 297 537
- Ura 190 252
 urea 165 186
 vertical transport 297
 Virginia 380
 vitamin B12 59
 Vm 537
 Waimea 25
 Washington 17 358
 wastes 25 90 137 196 208 275 301
 380 539
 water column 196 417 537
 watersheds 58 219 380
 weight 289
 Werribee 388
 wind 427
 worms 375
 Yaquina 33
 York 380
 zinc 210
 zooplankton 137 297
 Zostera 252
- Seine**
- Aisne 35
 - carbon 35
 - Estuary 35
 - France 35
 - methods 35
 - nitrogen 35
 - oxidation rates 35
 - temperature 35
- self adaptation**
- feed forward 462
 - feedback 462
 - model 462
 - self organization 462
- self organization**
- feed forward 462
 - feedback 462
 - model 462
 - self adaptation 462
- self purification**
- bacteria 246
 - Belgium 376
 - bloom 376
 - BOD 349
 - COD 349
 - density 246
 - deoxygenation 349
 - deposition 376
 - diatoms 376

- diversity 246
- DO 376
- Estuary 376
- heterotrophic 246
- hydrology 376
- interface salt fresh 376
- Japan 349
- management 83
- nutrients 376
- Scheldt 376
- Scotland 83
- sediments 246 376
- suspended solids 376
- TOC 349
- TOD 349
- trace metals 376
- transport 376
- seminar**
 - indicator species 111
 - indices 111
- seston**
 - alkaline phosphatase 470
 - Bay 470
 - chlorophyll 470
 - detergent 270
 - distribution 470
 - DNA 470
 - DO 270
 - enzymes 470
 - indices 470
 - microbes 470
 - nutrients 270
 - PC 270
 - phosphorus 470
 - plankton 270
 - PN 270
 - protein 470
 - salinity 270
 - temperature 270
 - Tokyo 470
- Seto**
 - benthic 338
 - COD 338
 - crustaceans 338
 - fisheries 338
 - Japan 338
 - model 338
 - nitrogen 338
 - oil 338
 - organic matter 338
- Sea 338
- sediments 338
- sewage 338
- sulfate 338
- sulfide 338
- settlement**
 - benthic 106
 - Damariscotta 106
 - DO 106
 - Estuary 106
 - fish 106
 - growth rates 106
 - invertebrates 106
 - laboratory culture 106
 - larvae 106
 - Maine 106
 - Penobscot 106
 - salinity 106
 - sediments 106
 - Sheepscot 106
 - temperature 106
- Severn**
 - Bay 510
 - Chesapeake 510
 - dilution 510
 - Estuary 510
 - hydrology 510
 - model 510
 - sewage 510
- sewage**
 - abundance 167 472
 - acetylene 25
 - adsorption 259
 - aerobic 122 172
 - agencies 14
 - Agnes 421
 - agriculture 60 218 384
 - Alaska 319 320
 - algae 72 89 119 140 160 236 256
339 343 400 412 418 430 432 442
448
 - algae bluegreen 215 218 335
 - algae mats 60
 - alkaline phosphatase 142
 - alkalinity 380
 - amino acids 225 456
 - ammonia 62 69 204 273 388 430
520
 - ammonium 38 129 172 188
 - amphipods 12

- anaerobic 172
 animals 89 202
 annelids 167
 Aqaba 146
 aquaculture 360 412
 Aquaforte 145
 arctic 319
 artificial recharge 138
 assay 418 448
 ATP 172
 Australia 60 388
 bacteria 256 339 440 456
 bacteria proteolytic 456
 Baltic 335
 batch culture 144 418
Bathyphoria sarsi 11
 Bay 8 11 12 23 52 64 72 94 140
 182 188 301 318 330 380 388 392
 417 421 423 425 433 440 448 488
 510
 Bayou 251
 benthic 11 12 72 119 234 305 319
 331 335 338 356 388 400 433 447
 benthic oxygen demand 440
 bibliography 15
 Bight 172 189
 bioenhancement 447
 biomass 52 62 140 144 160 167
 339 447
 birds 256 339
 Black 303
 bloom 144 204 251 432 520
 BOD 136 274 284 320 324 348
 buoys 37
 Buzzards 440
 C/N 62 136 188 324
 calcium 146 339
 California 8 37 62 129 276 400
 447
 calorific content 172 277
 Canada 52 145
 canal 138 384
 cannery 25 447
Capitella capitata 11 12
 carbohydrates 225 456
 carbon 19 27 116 144 256 324 339
 carbon/chlorophyll 62
 ceramic panel substrates 37
Chaetoceros simplex 303
Chaetodon miliaris 392
 Charleston 136
 chemical 359 516
 Chesapeake 72 140 301 318 380
 417 421 510
Chlorella salina 69
 chlorinated hydrocarbons 37
 chlorophyll 64 140 215 423
Chlorophyta 144 430
Chrysaora quinquecirrha 38
Cladocera 245 310
 clams 225
 clay 259 374
 Clyde 284 375
 COD 338 440 442
 coliforms 23 94 122 163 380
 coliphage 505
 community structure 11 89 256
 483
 continuous culture 116 144 160
 Cook 319 320
 copper 505
 coral 182
 CO₂ 105 144 432
 crustaceans 256 338 339
Cyanophyta 144 430
 cycles 129 464
 C₁₄ 140 456
 DC 380
 decomposition 172
 Delaware 134
 denitrification 324 326
 detergent 148 234 335
 diatoms 197 479
 DIC 172
 Dickinson 251
 dilution 510
 dinoflagellate 479
 disease 305 356
 dispersion 37
 dissolved solids 138
 distribution 417
 diurnal 62 93 129
 diversity 17 94 167 197 447 472
 Dniester 384
 DO 8 72 93 105 148 202 251 284
 319 335 369 380 447 464
 DOC 172 416
 dredging 14 96 148 318
 Duwamish 520
 dye 68 318

- economics 37 94 134 138
 Elizabeth 327
 energy transfer 72 276 335 348
Enteromorpha 375
enterovirus 439 505
 Estuary 27 82 89 93 119 134 138
 148 167 202 204 215 218 219 284
 327 375 380 384 423 430 510 520
 euglenoid 145
 eutrophication 15
 Evadne 310
 fatty acids 423
 fauna 167 276 375 384 388 456
 feces 163
 fertilizer 202 204 273 464
 Fiji Island 326
 fish 17 202 256 305 335 339 356
 392 447 513 516
 fish kills 251
 fisheries 94 96 338 375 488
 flood control 96
 Florida 14 433
 flushing 218
 food processing 516
foraminifera 72 256 339
 France 234
 freshwater 204 219 284
 fungus 456
gastrotrichs 167
 Germany 166
 Giens 285
 glycine 225
 Grays 369
 Great Britain 23 119 167 197 274
 294
 Greece 245 310
 growth rates 188 236 285 360 392
 479
 Gulf 146 234 245 285 310
 gulls 163
 Harbor 136 145 327 369 400 447
 Hawaii 64 94 182 188 330 392
 heat 89
 heterotrophic 256 339 456
 Hillsborough 433
 Hudson 218
 Humboldt 8
 Hurricane 421
 hydrology 284 448 510 520
Hymeniacidon sanguinea 359
 indicator species 12 145 166 197
 245 303 310 331 335 359 400 417
 472
 indices 189 197 456
 industry 119 134 136 202 232 245
 284 301 327 348 359 380 384 442
 464 488 516
 Inlet 25 319 320
 inorganic 27 161 326 416
 insects 256 339
 intertidal 17 25 276
 invertebrates 12 17 331 433
 ion exchange 273
 Italy 359
 James 27 327 380
 Japan 338 488
 Jordan 146
 Kaneohe 64 94 182 188 330 392
 kelp 232
 Kiel 11 12
Klebsiella pneumoniae 25
 Ks 62
 Lagoon 60 105
 land development 96
 landfill 340
 Lebanon 472
 light 448
 Little Creek 327
 Liverpool 23
 local 14
 Los Angeles 400 447
 Louisiana 96 442
 Lynnhaven 327
 macroalgae 335
 macrofauna 11 17 72 356
 macroinvertebrates 232 277
 macrophytes 52 72 276 277
 management 96 215 327 471
 manganese 416
 mangroves 326
 Marseilles 234
 marshes 339 442
 Maryland 68 93 380 430
 Massachusetts 82 161 331
 meiofauna 256 339
Mercenaria 225
 metabolism 256 276
 metals 232
 methods 37 271 418 456 483
 Meydenbauer 425

- microbes 27 72 122 142 167 182
 319 326 343 417 423 442 456 516
 microscopepods 330
 microcosms 140
 mining 202 464 513
 Mississippi 356
 model 27 64 105 327 335 338 348
 510
 molluscs 256 339 375
Mytilus edulis 360
 myxobacteria 166
 N/P 160
 nanoplankton 145
 Nansemond 327
 Narragansett 423
 nematodes 167 331
 Neuse 204
 New York 172 189 340
 New Zealand 25
 nitrate 27 38 64 69 82 129 172
 188 204 218 219 303 380
 nitrification 138
 nitrite 27 172 219
 nitrogen 62 94 115 129 144 160
 161 163 202 256 319 326 330 338
 339 479
 nitrogen fixation 25 144 182
 nonpoint sources 327
 North 232
 North Carolina 89 202 204
 Norway 236
 nutrients 25 62 72 82 89 96 116
 142 160 215 218 236 259 271 343
 375 380 388 416 442 448 471 472
 516
 N15 62 129
Obelia dichotoma 37
 oil 225 318 338 340 400 423 456
 513
 oligochaetes 11 167 400
 Oregon 448 516
 organic 27 259
 organic matter 148 324 338
 organisms 234 319 335 447
 Orielton 60
 outfall diffuser 68
 oysters 412 471
 ozonization 138
 P/B 330
 Pagan 327
 Pamlico 202
 parasites 356
 pathogens 163
 Patuxent 93 380
 PC 172
 pesticides 348 356 380 513
 pH 8 38 105 142 144 259 319 380
 432
 phosphate 27 38 52 64 69 82 142
 146 202 218 219 259 273 303 380
 430 520
 phosphorus 19 94 115 163 204 236
 251 256 259 319 339 432 464
 physico chemical treatment 294
 phytoplankton 27 62 64 72 82 96
 115 116 129 144 145 161 188 202
 204 251 256 274 303 339 416 456
 472 479 520
 Pines 82
 plankton 122 202 319 447
 PN 172
 point sources 218
 polychaetes 12 167 400
 polyp 38
 POM 421
 pond experiment 8 89 161 256 339
 Poquoson 327
 Porifera 359
 Port Phillip 388
Posidonia oceanica 234 285
 Potomac 215 218 219 380 430
 predictions 27 284 327 433
 primary 62 64 93 115 129 140 202
 236 276 335 343 416 483
 processes 27 456
 productivity 37 62 64 89 93 115
 129 140 202 256 276 330 335 339
 343 416 447
 protein 69
 Providence 423
 Puget 17 305
 pulp mill 136 456 488 513
Pygospio elegans 11
 Quinte 52
 radioactivity 513 516
 Rappahannock 380
 recipient analog 483
 recreation 82 94 96
 recycle 138
 red tide 122

- remote sensing 38 318
 removal 271
 reproduction 392
 resources 516
 respiration 89 93 343 440
 runoff 60 96 134 442 464 513
 salinity 60 68 69 202 204 259
 319 388 456 471
 salmonids 8
 San Diego 425
 sand 375
 Saronic 245 310
 Schofield 27
 Scotland 375
 Sea 232 303 335 338
 sea nettle 38
 seagrass 234 374
 seasons 89 142 245 274 276 310
 331 448
 secchi disc 145
 secondary 144 182 236 273 326
 330 343 348 430 439 483
 sediment water 259
 sediments 17 19 25 182 189 219
 285 301 326 338 375 380 388 417
 421 433 439 440
 Seto 338
 Severn 510
 sewage treatment farm 388
 shellfish 505
 silica 319
 slaughterhouse 25
 soil erosion 96 421
 Sound 17 305
 South Carolina 136
 South Creek 89
 spatial distribution 219
Sphaerotilus 516
 St Johns 145
 stabilization 105
 state 14
 steroids 189
 stochastic 27
 storm loading 134
 stress 225
Suagus 82
 succession 116 144 232
 sulfate 338
 sulfide 338
 Suruga 488
 suspended solids 417 421 423
 Susquehanna 380
 symposium 335 456
 Tasmania 60
 Taunton 423
 taurine 225
 Tees 119 167
 temperature 27 60 68 89 105 202
 245 259 284 310 320 369 448
 temporal distribution 219
 tertiary 52 161 236 301 326 339
 433 483
 Thames 138 148
 thermal 456 513 516
 tides 19
 TKN 219
 TOC 442
 toxicity 116
 trace metals 37 72 115 348 356
 380 456 479 516
 tracer 23
 transport 301
 turbidity 374
 Tyne 119
 Ulva 82
 United Kingdom 15
 uptake rates 69 129 188 259
 upwelling 369
 urea 62 129 188
 Virginia 27 259 380
 Vm 62
 Waimea 25
 Washington 17 305 369 520
 wastes 25 105 119 134 136 204
 218 232 245 284 301 327 348 359
 380 384 400 442 447 464 488 513
 water column 417
 water craft 425
 water supply 138
 watersheds 219 380
 Wear 119
 Werribee 388
 wetlands 14 96
 Wollochet 425
 Woods Hole 331
 worms 375
 Yaquina 448
 York 327 380
 zooplankton 72 140 245 335 384
 392

sewage treatment farm
 ammonia 388
 Australia 388
 Bay 388
 benthic 388
 fauna 388
 nutrients 388
 Port Phillip 388
 salinity 388
 sediments 388
 sewage 388
 Werribee 388
sexual maturity
 Craiglin 171
 DO 171
 fertilizer 171
 fish 171
 flounder 171
 growth rates 171
 Loch 171
Shannons Index
 benthic 9
 diversity 9
 Lagoon 9
 macrofauna 9
 molluscs 9
Shark
 Broad River 292
 detritus 292
 Estuary 292
 fertilizer 292
 Florida 292
 leaves 292
 mangroves 292
 pesticides 292
 trace metals 292
Sheepscot
 benthic 106
 Damariscotta 106
 DO 106
 Estuary 106
 fish 106
 growth rates 106
 invertebrates 106
 laboratory culture 106
 larvae 106
 Maine 106
 Penobscot 106
 salinity 106
 sediments 106
settlement 106
temperature 106
shellfish
 BOD 290
 coliforms 290
 coliphage 505
 copper 505
 DO 290
 enterovirus 505
 nitrite 290
 organic matter 290
 pH 290
 salinity 290
 seasons 290
 sewage 505
 temperature 290
shrimp
 Bay 231
 biomass 231
 crabs 231
 energy transfer 231
 fish 231
 freshwater 231
 Galveston 231
 management 231
 model 231
 productivity 231
 salinity 231
 secondary 231
 Texas 231
silica
 abundance 113
 Alaska 319
 algae colonial 152
 alkalinity 149 293
 amino acids 528
 ammonia 293
 ammonium 113
 arctic 319
 ash 382
 assay 414
 Bay 293 378
 Belgium 535
 benthic 319 528
 Bight 113
 bloom 382 414
 California 187
 carbon 382
 Chesapeake 293
 chloride 293

chlorophyll 113 382
 clay 535
 Columbia 175
 conference 528
 Cook 319
 cycles 528
 Cl₄ 152 382
 detritus 528
 diagenesis 502
 diatoms 347 414 535
 dissolved 131 535
 distribution 113 293
 DO 319
 Estuary 131 175 535
Eurytemora 175
 fatty acids 382
 filter feeders 347
 fish 528
 fisheries 528
 flagellates 347
 flux 187
 freshwater 113 378
 hydrology 378 414
 Inlet 319
 inorganic 131
 interstitial 293 503 536
 invertebrates 528
 iron 293
 light 175
 linear regression 175
 management 528
 manganese 293
 marshes 149
 mass transfer 503
 methods 152
 Michaelis-Menten 347
 microbes 319 502 528
 Mississippi 131
 model 347 378 502 503 536
 mucus 152
 N/P 414
 New Jersey 113
 New York 113
 nitrate 113 175 382 414
 nitrite 113
 nitrogen 187 319 502 528
 North 503
 Norway 414
 Nova Scotia 382
 nutrients 149 528
 oil 528
 Oregon 175
 organisms 319 528
 Orinoco 131
 orthophosphate 414
 pesticides 528
 pH 293 319
 phosphate 113 175 293
 phosphorus 149 187 319 382 528
 phytoplankton 113 175 187 382
 414
 plankton 319
 plumes 131
 primary 152 187 382
 processes 536
 productivity 152 187 382
 redox potential 293
 respiration 382
 Rockaway Point 113
 salinity 113 319
 San Francisco 378
 Savannah 131
 Scheldt 535
 Sea 503
 seagrass 528
 seasons 175 293
 sediments 149 187 535
 sewage 319
 South Carolina 149
 stress 528
 sulfate 293
 suspended solids 113 131
 temperature 113
 time constants 347
 trace metals 149 414 528
 Trondheimsfjord 414
 two dimensional 378
 two layer 503
 uptake rates 131
 urea 528
 wetlands 528
 zone 503
 zooplankton 175 347 528
silicate
 ammonia 50
 distribution 50
 Estuary 50
 nitrate 50
 nitrite 50
 nitrogen 50

nutrients 50
 organic 50
 phosphate 50
 salinity 50
 seasons 50
 St Lawrence 50
 temperature 50
 urea 50
Simoda
 ammonia 190
 Bay 190
 denitrification 190
 Japan 190
 Mangoku 190
 N15 190
 PON 190
 sediments 190
 Tokyo 190
 Ura 190
size composition
 Bay 200
 biomass 200
 Hawaii 200
 Kaneohe 200
 PN 200
 succession 200
 zooplankton 200
size dependent
 ammonia 466
 Bay 466
 biomass 466
 DON 466
 DPO 466
 excretion rates 466
 Hawaii 466
 Kaneohe 466
 metabolism 466
 phosphate 466
 zooplankton 466
Skeletonema
 ammonium 31
 Chlorophyta 31
 Estuary 31 367
 factorial productivity 367
 Hudson 31
 light 31
 nitrate 31
 phytoplankton 31 367
 populations mixed 367
 populations single 367
 primary 367
 productivity 367
 succession 367
 uptake rates 31
 York 367
slack water
 dispersion coefficient 170
 Estuary 170
 model 170
 Oregon 170
 Yaquina 170
slaughterhouse
 acetylene 25
 cannery 25
 Inlet 25
 intertidal 25
Klebsiella pneumoniae 25
 New Zealand 25
 nitrogen fixation 25
 nutrients 25
 sediments 25
 sewage 25
 Waimea 25
 wastes 25
soil erosion
 Agnes 421
 Bay 421
 BOD 541
 Chesapeake 421
 DO 541
 dredging 96
 fisheries 96
 flood control 96
 Hurricane 421
 land development 96
 Louisiana 96
 management 96
 microbes 541
 mixing depth 541
 nitrogen 541
 nonpoint sources 541
 nutrients 96
 organic 541
 phosphorus 541
 phytoplankton 96
 point sources 541
 POM 421
 predictions 541
 profiles 541
 recreation 96

- runoff 96 541
- salinity 541
- sediments 421 541
- sewage 96 421
- surface waters 541
- suspended solids 421
- temperature 541
- thermal 541
- turbidity 541
- wetlands 96
- Sound**
 - abundance 43
 - Albemarle 43 450
 - ammonia 43 450
 - anaerobic 358
 - benthic 305 358
 - bibliography 84
 - bloom 450
 - C/N 150 450
 - chlorophyll 43
 - Chowan 450
 - clay 385
 - cobalamin 509
 - Cockburn 63
 - dehydrogenase 358
 - DIN 450
 - disease 305
 - distribution 125
 - diversity 17
 - DO 117
 - Doboy 385
 - DOC 150
 - DOM 404
 - DON 150 450
 - ecosystem 84
 - Estuary 450
 - fish 17 305 515
 - flux 385
 - Georgia 150 385
 - growth rates 63
 - hydrology 43 515
 - indices 125
 - inorganic 385
 - intertidal 17
 - invertebrates 17
 - Lake 358
 - land development 43 84
 - Long Island 404 509
 - macrofauna 17
 - management 515
 - metabolic heat release 358
 - metabolism 358
 - microbes 385 404
 - microcalorimetry 358
 - Mississippi 125
 - model 515
 - nitrate 125
 - nitrogen 43
 - North Carolina 43 450
 - nutrients 125 358 509 515
 - organic aggregates 404
 - organic matter 358
 - organisms 358
 - orthophosphate 117 509
 - oxygen 358
 - phosphate 125 385
 - phosphorus 43
 - phytoplankton 43 404 450 509 515
 - POM 404
 - Posidonia australis* 63
 - primary 43 450 515
 - processes 358
 - productivity 43 450 515
 - Puget 17 84 117 305 358 515
 - P32 385
 - resources 125
 - runoff 150
 - salinity 43
 - Savannah 150
 - seagrass 63
 - seasons 63 404 450 509
 - sediment water 385
 - sediments 17 63 358
 - sewage 17 305
 - succession 515
 - temperature 43
 - thiamine 509
 - three dimensional 515
 - trophic levels 515
 - turbidity 43
 - Washington 17 84 305 358 515
 - wastes 117
 - zooplankton 404
- South Africa**
 - Bay 76
 - benthic 76
 - cannery 76
 - macrofauna 76
 - Saldanha 76
 - wastes 76

- South Carolina**
 - alkalinity 149
 - Bay 402
 - BOD 136
 - C/N 136
 - Charleston 136
 - Estuary 402
 - Florida 402
 - freshwater 402
 - Harbor 136
 - industry 136
 - Louisiana 402
 - management 402
 - marshes 149
 - North Carolina 402
 - nutrients 149 402
 - Palm 402
 - phosphorus 149
 - pulp mill 136
 - radioactivity 402
 - runoff 402
 - Santee 402
 - sediments 149
 - sewage 136
 - silica 149
 - swamps 402
 - trace metals 149
 - wastes 136
 - wetlands 402
- South Creek**
 - algae 89
 - animals 89
 - community structure 89
 - Estuary 89
 - heat 89
 - North Carolina 89
 - nutrients 89
 - pond experiment 89
 - productivity 89
 - respiration 89
 - seasons 89
 - sewage 89
 - temperature 89
- Southampton**
 - ammonium 394
 - carbon 394
 - DO 394
 - nitrate 394
 - nutrients 394
 - organic matter 394
- phosphate** 394
- phytoplankton** 394
- temperature** 394
- trace metals** 394
- turnover rates** 394
- zooplankton** 394
- Spain**
 - benthic 333
 - C/N 333
 - fucaceae 334
 - intertidal 334
 - macrophytes 333
 - Mytilus* 334
 - Phaeophyta* 333
 - pulp mill 334
 - stress 334
 - Ulvales* 334
 - wastes 334
- Spartina**
 - detritus 75
 - energy transfer 75
 - marshes 75
 - microbes 75
 - model 75
 - nutrients 75
- Spartina alterniflora**
 - marshes 390
 - New Jersey 390
 - primary 390
 - productivity 390
- spatial component**
 - Basin 381
 - Bedford 381
 - Nova Scotia 381
 - P/B 381
 - phytoplankton 381
 - productivity 381
 - ratio 381
- spatial distribution**
 - algae 248
 - benthic 248 542
 - benthic oxygen demand 542
 - carbon 542
 - coliforms 542
 - deoxygenation 542
 - DO 542
 - Estuary 219 223 426
 - fish 542
 - freshwater 219
 - heat 542

- ice 542
- isopleths 223
- life cycles 248
- light 542
- methods 426 542
- model 223 542
- New Jersey 426
- New York 426
- nitrate 219
- nitrite 219
- nonpoint sources 223
- nutrients 223 542
- organisms 542
- Oslofjord 248
- phosphate 219
- phosphorus 223
- phytoplankton 542
- Potomac 219 223
- primary 542
- processes 223
- productivity 542
- Raritan 426
- rate constants 542
- reaeration 542
- runoff 223
- seasons 248
- sediments 219
- sewage 219
- temporal distribution 219 223
- 248 426 542
- TKN 219
- trace metals 426
- transport 223
- wastes 223
- watersheds 219
- zooplankton 542
- specie key**
- agrochemicals 455
- algae mats 357
- alkalinity 455
- Bay 455
- boat traffic 455
- Chesapeake 455
- chlorine 455
- Columbia 357
- disease 455
- dredging 455
- epiphytes 455
- Estuary 357
- fauna 455
- indicator species 357
- nutrients 455
- oil 455
- pH 455
- salinity 455
- submerged vegetation 455
- temperature 455
- trace metals 455
- turbidity 455
- water velocity 455
- specified time**
- density homogeneous 258
- model 258
- two dimensional 258
- unsteady flow 258
- Sphaerotilus**
- chemical 516
- fish 516
- food processing 516
- industry 516
- microbes 516
- nutrients 516
- Oregon 516
- radioactivity 516
- resources 516
- sewage 516
- thermal 516
- trace metals 516
- spores**
- benthic 10
- bloom 10
- cysts 10
- dinoflagellate 10
- Gonyaulax 10
- Massachusetts 10
- red tide 10
- toxicity 10
- Squamish**
- Estuary 249
- methods 249
- nutrients 249
- sampling frequency 249
- St Johns**
- Aquaforte 145
- Canada 145
- euglenoid 145
- Harbor 145
- indicator species 145
- nanoplankton 145
- phytoplankton 145

secchi disc 145
 sewage 145
St Lawrence
 ammonia 50
 ATP 434
 bibliography 124
 biomass 434
 carbon/chlorophyll 434
 distribution 50
 Estuary 50 124 434
 eutrophication 124
 fisheries 124
 hydrology 124
 nitrate 50
 nitrite 50
 nitrogen 50
 nutrients 50
 organic 50
 phosphate 50
 phytoplankton 434
 primary 124
 productivity 124
 salinity 50
 seasons 50
 silicate 50
 suspended solids 124
 temperature 50
 trace metals 124
 urea 50
St Margaret
 ATP 465
 Bay 465
 C/N 465
 fisheries 465
 methods 465
 nutrients 465
 PC 465
 PN 465
 primary 465
 productivity 465
 runoff 465
 suspended solids 465
stabilization
 biological 230
 chemical 230
 CO₂ 105
 DO 105
 Lagoon 105
 model 105
 pH 105
 processes 230
 sewage 105
 temperature 105
 wastes 105 230
state
 agencies 14 159
 dredging 14
 federal 484
 Florida 14
 local 14 159 484
 management 159 484
 public opinion 159
 resources 159
 sewage 14
 wetlands 14
steady state
 Bay 207
 Chesapeake 207
 decomposition 299
 dissolved 207
 electron transfer 299
 energy transfer 299
 growth rates 299
 interstitial 207
 manganese 207
 microbes 299
 model 207
 organic matter 299
 pH 207
 redox potential 299
 substrates 299
steroids
 Bight 189
 indices 189
 New York 189
 sediments 189
 sewage 189
stochastic
 ammonia 477
 benthic oxygen demand 420
 BOD 99 477
 California 477
 carbon 27
 cycles 477
 Delaware 477
 Delta 477
 DIN 477
 DO 99 477
 Estuary 27 99 255 477
 freshwater 420

hydrology 420
industry 205
inorganic 27
James 27
light 420
management 205
microbes 27
model 27 99 205 255 420 477
nitrate 27
nitrite 27 477
nitrogen 477
one dimensional 255 420
organic 27
oxidation 477
phosphate 27
phytoplankton 27 477
Potomac 99 255 477
predictions 27
processes 27
runoff 205 420
Sacramento San Joquin 477
Schofield 27
sewage 27
temperature 27 420
time dependent 255
turbidity 420
Virginia 27
zooplankton 477
Stockholm
 N/P 239
 nitrogen 239
 phosphorus 239
 phytoplankton 239
storm loading
 BOD 523
 Delaware 134 523
 economics 134
 Estuary 134 523
 industry 134
 model 523
 nonpoint sources 523
 runoff 134
 sewage 134
 wastes 134
stratification
 density 280
 DO 307
 Etang de Berre 307
 hydrology 280
 model 280
nutrients 307
 O/P 307
 three layer 280
stress
 amino acids 225 528
 benthic 528
 carbohydrates 225
 clams 225
 community structure 88
 conference 528
 cycles 528
 detritus 528
 diversity 88
 energy transfer 534
 fish 88 528 534
 fisheries 528
 fucaceae 334
 glycine 225
 growth rates 534
 industry 452
 intertidal 334
 invertebrates 528
 management 528
Mercenaria 225
 metabolism 88 452 534
 microbes 528
Mytilus 334
 nitrogen 528
 nutrients 88 528
 oil 225 528
 organisms 528
 pesticides 528
 phosphorus 528
 populations single 452
 productivity 534
 pulp mill 334
 seagrass 528
 sewage 225
 silica 528
 Spain 334
 taurine 225
 Texas 88
 TLM 452
 trace metals 528
Ulvales 334
 urea 528
 wastes 334 452
 wetlands 528
 zooplankton 88 528
Suagus

Estuary 82
Massachusetts 82
 nitrate 82
 nutrients 82
 phosphate 82
 phytoplankton 82
Pines 82
 recreation 82
 sewage 82
Ulva 82
submerged vegetation
 agrochemicals 455
 alkalinity 455
Bay 455
 boat traffic 455
Chesapeake 455
 chlorine 455
 disease 455
 dredging 455
 epiphytes 455
 fauna 455
 nutrients 455
 oil 455
 pH 455
 salinity 455
 specie key 455
 temperature 455
 trace metals 455
 turbidity 455
 water velocity 455
substrates
 decomposition 299
 electron transfer 299
 energy transfer 299
 growth rates 299
 microbes 299
 organic matter 299
 redox potential 299
 steady state 299
succession
 annelids 370
 batch culture 144
Bay 200
 benthic 370 371 409
 biomass 110 144 200 201 409
 bloom 144 201
Burrard 460
 carbon 110 116 144
Chlorophyta 144
community structure 371
 continuous culture 116 144
 CO₂ 144
 crustaceans 370
Cyanophyta 144
Delaware 411
distribution 460
diversity 409
DON 201
ecocline 371
England 370
Estuary 201 367 411
factorial productivity 367
fiord 460
 fish 515
fisheries 411
gradient 371
Harbor 460
Hawaii 200
hydrology 201 515
indicator species 370 371
indices 371
industry 232
Inlet 460
inorganic 201
Kaneohe 200
kelp 232
Linnhe Eil 370
Loch 370
macrofauna 409
macroinvertebrates 232
management 411 515
 metals 232
 mining 201
 model 411 515
 molluscs 370
 nitrate 201
 nitrogen 110 144 201
 nitrogen fixation 144
North 232 411
 nutrients 116 515
 organic enrichment 371
Pamlico 201
 pH 144
phosphorus 110 201
phytoplankton 110 116 144 201
 367 411 460 515
PN 200
 pond experiment 110
 populations mixed 367
 populations single 367

primary 367 460 515
 productivity 367 460 515
 Puget 515
 pulp mill 370 409
 recovery 371
 Sea 232 411
 secondary 144
 sediments 201 371
 sewage 116 144 232
 size composition 200
Skeletonema 367
 Sound 515
 Tar 201
 three dimensional 515
 toxicity 116
 trophic levels 515
 Vancouver 460
 Washington 515
 wastes 232
 York 367
 zooplankton 200

sulfate
 alkalinity 184 293
 ammonia 165 184 293
 Bay 184 293
 benthic 338
Chesapeake 184 293
 chloride 293
 chlorine 184
 chlorophyll 184
 COD 338
 crustaceans 338
 distribution 293
 DO 184
 enzymes 165
 fisheries 338
 interstitial 293
 iron 293
 Japan 338
 manganese 293
 methods 165
 model 338
 nitrogen 338
 oil 338
 organic matter 338
 orthophosphate 184
 percolator 165
 pH 184 293
 phosphate 184 293
 processes 184

redox potential 293
 salinity 184
 Sea 338
 seasons 293
 sediments 165 338
 Seto 338
 sewage 338
 silica 293
 sulfide 184 338
 temperature 184
 trace metals 184
 urea 165
 vertical distribution 184

sulfide
 algae mats 33
 alkalinity 184
 ammonia 184
 Bay 184
 benthic 33 338
 benthic oxygen demand 33
Chesapeake 184
 chlorine 184
 chlorophyll 184
 COD 338
 crustaceans 338
 DO 184
 Estuary 33
 fisheries 338
 Japan 338
 model 33 338
 nitrogen 338
 oil 338
 Oregon 33
 organic matter 338
 orthophosphate 184
 pH 184
 phosphate 184
 processes 184
 salinity 33 184
 Sea 338
 sediments 33 338
 Seto 338
 sewage 338
 sulfate 184 338
 temperature 184
 tides 33
 trace metals 184
 vertical distribution 184

Yaquina 33

sulphur

- cycles 233
- Denmark 233
- oxidation 233
- reduction 233
- sediments 233
- turnover rates 233
- surface waters**
 - BOD 541
 - DO 541
 - microbes 541
 - mixing depth 541
 - nitrogen 541
 - nonpoint sources 541
 - organic 541
 - phosphorus 541
 - point sources 541
 - predictions 541
 - profiles 541
 - runoff 541
 - salinity 541
 - sediments 541
 - soil erosion 541
 - temperature 541
 - thermal 541
 - turbidity 541
- Suruga**
 - Actinetobacter 431
 - bacteria 431
 - Bay 431 488
 - fisheries 488
 - heterotrophic 431
 - industry 488
 - Japan 488
 - nutrients 431
 - phytoplankton 431
 - pulp mill 488
 - Sagami 431
 - sewage 488
 - Tokyo 431
 - Vibrios 431
 - wastes 488
 - zooplankton 431
- survival**
 - model 237
 - populations mixed 237
 - zooplankton 237
- suspended solids**
 - abundance 113
 - Agnes 421
 - ammonium 113
- ATP** 465
- Australia** 424
- bacteria attached 164
- bacteria free 164
- Bay 406 417 421 422 423 465
- Belgium 376
- bibliography 124
- Bight 113
- bloom 376
- BOD 36
- Buzzards 406
- C/N 406 465
- Chesapeake 417 421 422
- chlorophyll 113 350 406 423 424
- deposition 376
- detritus 406 424
- diatoms 376
- dissolved 131
- distribution 113 417
- DO 36 376
- dry weight 489
- Estuary 124 131 164 350 376 423 492
- eutrophication 124
- fatty acids 423
- fisheries 124 465
- freshwater 113
- Georgia 59
- glucose 164
- Hacking 424
- Humber 164
- Hurricane 421
- hydrology 124 376 424
- indicator species 417
- indices 350
- inorganic 131
- interface salt fresh 376
- iron 492
- light 36 424
- marshes 59
- Maryland 350
- Massachusetts 406
- methods 350 424 465 489
- microbes 59 417 423
- microstructure 538
- mineralization 164
- Mississippi 131
- NaCl 36
- nanoplankton 406
- Narragansett 423

New Jersey 113
 New York 113
 nitrate 113
 nitrite 113
 North Carolina 492
 nutrients 376 465
 oil 423
 organic matter 164 422
 Orinoco 131
 Pamlico 492
 Patuxent 350
 PC 465
 phosphate 113 492
 phytoplankton 113 424
 plumes 131
 PN 465
 POC 406
 POM 421
 PON 406
 Port 424
 primary 124 465
 productivity 124 465
 Providence 423
 release 405
 remote sensing 350
 Rockaway Point 113
 runoff 424 465
 salinity 113 405 422 492
 salts 36
 Savannah 131
 Scheldt 376
 seasons 406
 secchi disc 422
 sediments 36 59 376 417 421 424
 492 538
 self purification 376
 sewage 417 421 423
 silica 113 131
 soil erosion 421
 St Lawrence 124
 St Margaret 465
 Taunton 423
 temperature 36 113
 trace metals 124 376 405
 transport 376
 turbidity 36
 uptake rates 131
 vitamin B12 59
 water column 417
 wind 422

zooplankton 406
Susquehanna
 Agnes 415
 alkalinity 380
 Bay 79 173 380 415 495
 BOD 495
 carbon 495
 Chesapeake 79 173 380 415 495
 Chickahominy 173
 chlorophyll 79 415 495
 coliforms 380
 DC 380
 DO 380 495
 Estuary 79 173 380 415 495
 Hurricane 415
 industry 380
 James 173 380 495
 linear regression 173
 Maryland 380
 Michaelis Menton 415
 model 415
 nitrate 380
 nitrogen 79 415
 nutrients 79 173 380 495
 Patuxent 173 380 495
 pesticides 380
 pH 380
 phosphate 380
 phosphorus 79 415
 phytoplankton 79 415
 Potomac 173 380 495
 quasi linear 415
 Rappahannock 173 380 495
 seasons 173
 sediments 380
 sewage 380
 trace metals 380
 Virginia 380
 wastes 380 415
 watersheds 173 380
 York 173 380 495

swamps
 Bay 402
 Estuary 402
 Florida 402
 freshwater 402
 Louisiana 402
 management 402
 North Carolina 402
 nutrients 402

- Palm 402
- radioactivity 402
- runoff 402
- Santee 402
- South Carolina 402
- wetlands 402
- Sweden**
 - benthic 352
 - Byfjorden 352
 - crustaceans 352
 - Estuary 352
 - Gothenburg 352
 - indicator species 352
 - Kungsbackafjorden 352
 - macrofauna 352
 - meiofauna 352
 - Saltkallefjord 352
 - zooplankton 352
- symposium**
 - algae bluegreen 335
 - amino acids 456
 - bacteria 456
 - bacteria proteolytic 456
 - Baltic 335
 - Bay 297
 - benthic 137 335
 - Bothnia 137
 - carbohydrates 456
 - Chesapeake 297
 - chlorinated hydrocarbons 137
 - cycles 297
 - C14 456
 - detergent 335
 - dissolved solids 137
 - DO 137 335
 - dredging 498
 - economics 494 498
 - energy transfer 335
 - Estuary 341
 - fauna 456
 - fish 335
 - fisheries 494 498
 - fungus 456
 - Gulf 137
 - heterotrophic 456
 - hydrology 137 337
 - indicator species 335
 - indices 456
 - industry 498
 - international 281
 - iron 137
 - local 297
 - macroalgae 335
 - macrofauna 137
 - management 494 498
 - marine pollution 281
 - methods 456
 - microbes 297 456
 - model 335 341
 - nitrogen 297
 - nutrients 137 297 341 494 498
 - oil 137 456
 - organisms 335
 - pesticides 137
 - phosphorus 137 297
 - phytoplankton 137 297 341 456
 - Potomac 341
 - power plant 498
 - primary 137 335
 - processes 456
 - productivity 137 335
 - public opinion 498
 - pulp mill 456
 - rainfall 297
 - resources 494 498
 - Sacramento 341
 - salinity 456
 - Sea 335
 - seaweeds 229
 - sediments 137 297
 - sewage 335 456
 - thermal 456
 - trace metals 137 456
 - uptake rates 297
 - vertical transport 297
 - wastes 137
 - zooplankton 137 297 335 341
- synthesis**
 - fungus 501
 - microbes 501
 - seasons 501
 - vitamins 501
 - yeast 501
- Tagus**
 - Estuary 474
 - organic matter 474
 - Portugal 474
 - Sado 474
 - temperature 474
 - yeast 474

- Tar**
 - biomass 201
 - bloom 201
 - DON 201
 - Estuary 201
 - hydrology 201
 - inorganic 201
 - mining 201
 - nitrate 201
 - nitrogen 201
 - Pamlico 201
 - phosphorus 201
 - phytoplankton 201
 - sediments 201
 - succession 201
- Tasmania**
 - agriculture 60
 - algae mats 60
 - Australia 60
 - Lagoon 60
 - Orielton 60
 - runoff 60
 - salinity 60
 - sewage 60
 - temperature 60
- Taunton**
 - Bay 423
 - chlorophyll 423
 - Estuary 423
 - fatty acids 423
 - microbes 423
 - Narragansett 423
 - oil 423
 - Providence 423
 - sewage 423
 - suspended solids 423
- taurine**
 - amino acids 225
 - carbohydrates 225
 - clams 225
 - glycine 225
 - Mercenaria 225
 - oil 225
 - sewage 225
 - stress 225
- Taylor**
 - Bayou 102
 - chemical 102
 - chlorophyll 102
 - Chocolate 102
- TDC**
 - ammonia 473
 - Bay 473
 - carbon 473
 - Chesapeake 473
 - chlorophyll 473
 - DIC 473
 - DOC 473
 - nitrate 473
 - nitrite 473
 - nutrients 473
 - phaeophytin 473
 - phosphorus 473
 - primary 473
 - productivity 473
- Tees**
 - abundance 167
 - algae 119
 - annelids 167
 - benthic 119
 - biomass 167
 - diversity 167
 - Estuary 119 167
 - fauna 167
 - gastrotrichs 167
 - Great Britian 119 167
 - industry 119
 - microbes 167
 - nematodes 167
 - oligochaetes 167
 - polychaetes 167
 - sewage 119 167
 - Tyne 119
 - wastes 119
 - Wear 119
- temperature**
 - abundance 43 113
 - adsorption 259
 - agriculture 60
 - agrochemicals 455
 - Aisne 35

Alaska 320
 Albemarle 43
 algae 89 448
 algae mats 60
 alkalinity 47 67 184 455
 ammonia 43 44 50 67 178 184
 ammonium 113 394
 animals 89 202
 assay 448
 Australia 60 154
 Bay 67 71 178 184 226 448 455
 Bayou 315
 benthic 106 178
 benthic oxygen demand 420
 Bight 113
 biomass 128 154 519
 black necrosis 2
 bloom 519
 boat traffic 455
 BOD 36 71 284 290 320 519 541
 British Columbia 512
 Burry Inlet 2
 California 128 441
 canal 512
 carbon 27 35 394
 chambers 178
 Chesapeake 67 184 455
 chlorine 184 455
 chlorophyll 43 47 67 113 128 154
 174 184 391 519
 Cladocera 245 310
 clay 259
 Clyde 284
 Cochin 391
 coliforms 290
 community structure 89 174
 Cook 320
 CO₂ 105
 Crangon crangon 2
 C₁₄ 391
 Damariscotta 106
 detergent 2 270
 diatoms 153
 disease 455
 distribution 50 71 113 128 153
 DO 2 36 47 67 71 105 106 154 174
 184 202 226 270 284 290 315 369
 394 441 519 541
 dredging 455 512
 Duwamish 519
 dye 68
 east coast 77
 epiphytes 455
 Estuary 27 35 47 50 67 89 106
 154 174 202 284 391 474 519
 Evadne 310
 fauna 455
 fertilizer 202
 fish 44 106 202
 fisheries 77
 flushing 512
 flux 178 315
 France 35
 freshwater 113 284 420 519
 Grays 369
 Great Britian 2
 Greece 245 310
 growth rates 106
 Gulf 245 310
 Harbor 369
 heat 89
 hydrology 43 71 154 174 226 284
 420 441 448
 H₃ 154
 indicator species 245 310
 industry 202 245 284
 Inlet 320
 inorganic 27 178
 invertebrates 106
 James 27 47
 juveniles 77
 laboratory culture 106
 Lagoon 60 105
 land development 43
 larvae 106
 light 36 174 420 448
 Little River 154
 long term 153
 Maine 106
 Maryland 68
 methods 35
 Michaelis Menton 71
 microbes 2 27 541
 microflagellates 174
 mining 202
 mixing depth 541
 model 27 71 105 420
 N/P 226
 NaCl 36
 nanoplankton 174

Narragansett 178
 New Jersey 113 226
 New York 113
 nitrate 27 50 67 113 128 178 226
 394
 nitrite 27 50 67 113 178 290
 nitrogen 35 43 50 67 202 541
 nonpoint sources 541
 North 153
 North Carolina 43 89 202
 NO₂ 47
 NO₃ 47
 nutrients 50 71 89 128 226 259
 270 391 394 441 448 455 512
 oil 455
 one dimensional 420
 Oregon 448
 organic 27 50 259 541
 organic matter 290 394 474
 Orielton 60
 orthophosphate 184
 outfall diffuser 68
 oxidation rates 35
 P/N 441
 Pamlico 202
 PC 270
 Penobscot 106
 pH 2 44 47 67 71 105 184 259 290
 315 455
 phosphate 27 50 67 113 178 184
 202 226 259 315 394
 phosphorus 43 47 154 259 541
 phytoplankton 27 43 47 67 71 113
 128 153 154 174 202 394 441 519
 plankton 202 226 270
 PN 47 270
 point sources 541
 pond experiment 89
 Portugal 474
 Potomac 67
 predictions 27 284 541
 primary 43 154 174 202 391 441
 processes 27 184 315
 productivity 43 67 89 154 174
 202 391 441
 profiles 541
 P32 154
 Raritan 226
 redox potential 315
 respiration 89 441
 Rhode Island 178
 Rockaway Point 113
 runoff 60 420 541
 Sado 474
 salinity 2 43 44 47 50 60 67 68
 71 77 106 113 154 174 184 202
 226 259 270 290 315 441 455 512
 541
 salts 36
 San Francisco 71
 Saronic 245 310
 Schofield 27
 Sea 153
 seasons 50 71 89 226 245 290 310
 391 441 448
 secchi disc 441
 sediment water 178 259 315
 sediments 36 106 541
 Seine 35
 seston 270
 settlement 106
 sewage 27 60 68 89 105 202 245
 259 284 310 320 369 448
 Sheepscot 106
 shellfish 290
 silica 113
 silicate 50
 soil erosion 541
 Sound 43
 South Creek 89
 Southampton 394
 specie key 455
 St Lawrence 50
 stabilization 105
 stochastic 27 420
 submerged vegetation 455
 sulfate 184
 sulfide 184
 surface waters 541
 suspended solids 36 113
 Tagus 474
 Tasmania 60
 Texar 315
 thermal 541
 tides 512 519
 trace metals 2 184 394 455
 turbidity 36 43 67 420 455 541
 turnover rates 394
 uptake rates 259
 upwelling 369

- urea 50
- vertical distribution 184
- Virginia 27 259
- Washington 369
- wastes 105 245 284 512
- water velocity 455
- Yaquina 448
- yeast 474
- York 174
- zooplankton 67 77 153 154 245
391 394
- temporal distribution
 - algae 248
 - benthic 248 542
 - benthic oxygen demand 542
 - carbon 542
 - coliforms 542
 - deoxygenation 542
 - DO 542
 - Estuary 219 223 426
 - fish 542
 - freshwater 219
 - heat 542
 - ice 542
 - isopleths 223
 - life cycles 248
 - light 542
 - methods 426 542
 - model 223 542
 - New Jersey 426
 - New York 426
 - nitrate 219
 - nitrite 219
 - nonpoint sources 223
 - nutrients 223 542
 - organisms 542
 - Oslofjord 248
 - phosphate 219
 - phosphorus 223
 - phytoplankton 542
 - Potomac 219 223
 - primary 542
 - processes 223
 - productivity 542
 - Raritan 426
 - rate constants 542
 - reaeration 542
 - runoff 223
 - seasons 248
 - sediments 219
- sewage 219
- spatial distribution 219 223 248
426 542
- TKN 219
- trace metals 426
- transport 223
- wastes 223
- watersheds 219
- zooplankton 542
- Tenholloway
 - benthic 540
 - Econfina 540
 - Estuary 540
 - macrophytes 540
- tertiary
 - algae 236 339
 - bacteria 339
 - Bay 52 301 433
 - benthic 433 508
 - biomass 52 339
 - birds 339
 - calcium 339
 - Canada 52
 - carbon 339
 - Chesapeake 301
 - community structure 483
 - crustaceans 339
 - denitrification 326
 - economics 508
 - Fiji Island 326
 - fish 339
 - Florida 433
 - foraminifera 339
 - growth rates 236
 - heterotrophic 339
 - Hillsborough 433
 - industry 301 508
 - inorganic 161 326
 - insects 339
 - invertebrates 433
 - macrophytes 52
 - management 508
 - mangroves 326
 - marshes 339
 - Massachusetts 161
 - meiofauna 339
 - methods 483
 - microbes 326
 - molluscs 339
 - nitrogen 161 326 339

- Norway** 236
nutrients 236
organisms 508
pesticides 508
phosphate 52
phosphorus 236 339
phytoplankton 161 339
plants 508
pond experiment 161 339
predictions 433
primary 236 483
productivity 339
public opinion 508
Quinte 52
recipient analog 483
recreation 508
secondary 236 326 483
sediments 301 326 433
sewage 52 161 236 301 326 339
 433 483
transport 301
wastes 301 508
tetrazolium salt
 aerobic 58
 anaerobic 58
 assay 58
 Connecticut 58
 Copps Brook 58
 degradation 58
 DOC 58
 interstitial 58
 metabolism 58
 microbes 58
 model 58
 nutrients 58
 organic matter 58
 POC 58
 sediments 58
 watersheds 58
- Texas**
 ammonia 314
 Bayou 181 314 315 316 317
 bloom 317
 budget 316
 carbon 181
 DO 314 315 317
 Estuary 181
 fish 317
 Florida 181 314 316 317
 flux 315
- Gymnodinium** 317
inorganic 181
macroinvertebrates 314
nitrate 314
nitrogen 181 316
pH 315
phosphate 181 314 315
phosphorus 181 316
phytoplankton 314 317
primary 181
processes 315
productivity 181
redox potential 315
salinity 315
sediment water 181 315
temperature 315
TOC 314
toxicity 317
wastes 317
zooplankton 314
- Texas**
 abundance 32
 algae 438
Anchoa mitchilli 32
 autotrophic 86
 Bay 32 86 208 231 372 401
 Bayou 102
 benthic 208 438
 biomass 32 231
 chemical 102
 chlorophyll 102
 Chocolate 102
 community structure 88
Corpus Christi 372
 crabs 231
 diversity 32 88 102
 DO 102 401
 energy transfer 231
 fish 32 88 231
 fish kills 401
 freshwater 86 231
 Galveston 32 208 231 401
 gas bubbles 401
 heterotrophic 86
 hydrology 208
 indicator species 32 208
 indices 32 102 208
 industry 86 208
 management 231
 matrix 372

- metabolism 86 88
- microcosms 86
- model 231 372 438
- mucus 401
- nitrogen 372
- nutrients 86 88
- phytoplankton 86
- primary 86
- productivity 86 102 231
- respiration 86 102
- salinity 231
- salmonids 401
- saturation 401
- seagrass 438
- seasons 102
- secondary 231
- sediments 208
- shrimp 231
- stress 88
- Taylor 102
- toxicity 32
- trace metals 438
- Trinity 86
- wastes 32 86 102 208
- zooplankton 86 88 102
- Thames**
 - ammonia 29
 - artificial recharge 138
 - canal 138
 - detergent 148
 - dissolved solids 138
 - DO 29 148
 - dredging 148
 - economics 138
 - Estuary 29 138 143 148
 - model 29
 - nitrate 143
 - nitrification 138
 - nitrogen 29
 - nutrients 143
 - organic matter 148
 - ozonization 138
 - phosphate 143
 - recycle 138
 - runoff 143
 - salts 143
 - sewage 138 148
 - United Kingdom 143
 - wastes 143
 - water supply 138
- Theora fragilis**
 - abundance 389
 - Bay 389
 - benthic 389
 - diversity 389
 - DO 389
 - Estuary 389
 - fauna 389
 - Hobsons 389
 - salinity 389
 - Yarra 389
- thermal**
 - algae bluegreen 243
 - algae mats 243
 - amino acids 456
 - bacteria 243 456
 - bacteria proteolytic 456
 - Bay 141 243
 - bibliography 4 211 213 250 263 264 265 266 267 268 344 435
 - biomass 304
 - BOD 541
 - carbohydrates 456
 - chemical 516
 - Chesapeake 141
 - C14 456
 - DO 213 304 541
 - dredging 4
 - economics 4
 - energy transfer 141
 - Estuary 141 304
 - eutrophication 4 211 213 250 263 264 265 266 267 268 344 435
 - fauna 456
 - fish 513 516
 - food processing 516
 - fungus 456
 - Guayanilla 243
 - heat 141
 - heterotrophic 243 456
 - hydrology 141 250 263 264 265 266 267 268
 - indices 456
 - industry 211 516
 - management 435
 - Maryland 304
 - methods 213 435 456
 - microbes 141 456 516 541
 - mining 513
 - mixing depth 541

model 250 263 264 265 266 267
 268
 nitrogen 541
 nitrogen fixation 243
 nonpoint sources 541
 nutrients 141 304 516
 oil 4 211 344 456 513
 Oregon 516
 organic 141 541
 Patuxent 141 304
 pesticides 4 344 435 513
 phosphorus 304 541
 phytoplankton 141 304 456
 plants 141
 point sources 541
 pollution 4
 power plant 141
 predictions 541
 primary 141 304
 processes 456
 productivity 141 304
 profiles 541
 Puerto Rico 243
 pulp mill 456 513
 radioactivity 4 513 516
 remote sensing 211
 resources 211 516
 runoff 513 541
 salinity 456 541
 sediments 243 304 541
 sewage 456 513 516
 soil erosion 541
Sphaerotilus 516
 surface waters 541
 symposium 456
 temperature 541
 trace metals 4 213 435 456 516
 turbidity 541
 wastes 513
thiamine
 cobalamin 509
 Long Island 509
 nutrients 509
 orthophosphate 509
 phytoplankton 509
 seasons 509
 Sound 509
Thomann
Anacostia 78
 dye 78
 Estuary 78
 FWQA Dynamic 78
 model 78
 Potomac 78
 predictions 78
 tides 78
three dimensional
 Alabama 132
 Bay 132 198 427
 Biscayne 427
 chemical 427
 density 198
 fish 515
 Florida 427
 free surface 427
 hydrology 132 198 515
 interface salt fresh 132
 management 515
 Mobile 132
 model 132 198 427 515
 momentum transfer 132
 Narragansett 198
 nutrients 515
 phytoplankton 515
 primary 515
 processes 427
 productivity 515
 Puget 515
 salinity 198
 sediments 132 427
 Sound 515
 succession 515
 time dependent 132 427
 transport 132 427
 trophic levels 515
 Washington 515
 wind 427
three layer
 density 280
 hydrology 280
 model 280
 stratification 280
tidal average
 BOD 212
 DO 212
 Estuary 212
 hydrology 212
 model 212
 real time 212
 salinity 212

Virginia 212
 York 212
 tidal creek
 ammonia 177
 DON 177
 Georgia 177
 marshes 177
 nitrate 177
 nitrite 177
 PON 177
 pools 177
 tides
 aerobic 183
 algae 81
 algae mats 33
 ammonia 518
 ammonium 210
 Anacostia 78
 animals 518
 barnacles 507
 Bay 22
 benthic 33
 benthic oxygen demand 33
 biomass 519
 bloom 519
 BOD 1 519
 British Columbia 512
 Broadkill 101
 cadmium 210
 California 155
 canal 512
 carbon 19 22
 Chesapeake 22
 chlorophyll 101 155 519
 coliforms 1 183
 cycles 183
 DC 1
 Delaware 101
 detritus 22
 distribution 155
 diversity 155
 DO 1 81 101 518 519
 dredging 512
 Duwamish 519
 dye 1 78
 Estuary 1 33 78 81 101 183 507
 518 519
 flushing 155 512
 flux 22
 freshwater 519
 FWQA Dynamic 78
 Gulf 155
 hydrology 183
 inorganic 101
 Lagoon 155
 management 183
 marshes 22 210 507
 microbes 183
 model 1 33 78 183 507
 Murderkill 101
 mussels 507
 nitrogen 22 101 183 210
 North Inlet 507
 nutrients 1 101 210 512 518
 Oregon 33
 oysters 507
 pH 101
 phosphate 518
 phosphorus 19 22 101 210
 phytoplankton 1 155 507 519
 Potomac 1 78 81 183
 predictions 78 183
 primary 22 155 507
 processes 183 507
 productivity 22 155 507
 real time 183
 salinity 33 101 512
 sediments 19 33 210
 sewage 19
 sulfide 33
 temperature 512 519
 Thomann 78
 trace metals 210
 Transient Water Quality Network
 183
 Virginia 518
 wastes 81 512
 water column 507
 wetlands 101
 Yaquina 33
 York 518
 zinc 210
 time constants
 diatoms 347
 filter feeders 347
 flagellates 347
 Michaelis Menton 347
 model 347
 silica 347
 zooplankton 347

time dependent
 Alabama 132
 Bay 132 427
 Biscayne 427
 chemical 427
 Estuary 255
 Florida 427
 free surface 427
 hydrology 132
 interface salt fresh 132
 Mobile 132
 model 132 255 427
 momentum transfer 132
 one dimensional 255
 Potomac 255
 processes 427
 sediments 132 427
 stochastic 255
 three dimensional 132 427
 transport 132 427
 wind 427

TKN
 Estuary 219
 freshwater 219
 nitrate 219
 nitrite 219
 phosphate 219
 Potomac 219
 sediments 219
 sewage 219
 spatial distribution 219
 temporal distribution 219
 watersheds 219

TLM
 industry 452
 metabolism 452
 populations single 452
 stress 452
 wastes 452

TOC
 algae 442
 ammonia 314
 Bayou 314
 BOD 349
 carbon 220
 chlorophyll 220
 COD 349 442
 CO₂ 220
 deoxygenation 104 349
 DO 220 314

DOC 104
Estuary 104 220
Florida 314
indices 220
industry 442
Japan 349
Louisiana 442
macroinvertebrates 314
marshes 442
microbes 220 442
nitrate 314
nutrients 104 220 442
Pamlico 104
pesticides 220
phosphate 314
phytoplankton 314
POC 104
Potomac 220
primary 104
productivity 104
respiration 104
runoff 442
self purification 349
sewage 442
Texas 314
TOD 349
wastes 220 442
zooplankton 314

TOD
 BOD 349
 COD 349
 deoxygenation 349
 Japan 349
 self purification 349
 TOC 349

Tokyo
Actinetobacter 431
 alkaline phosphatase 470
 ammonia 190
 bacteria 431
 Bay 190 431 470
 chlorophyll 470
 denitrification 190
 distribution 470
 DNA 470
 enzymes 470
 heterotrophic 431
 indices 470
 Japan 190
Mangoku 190

- microbes 470
- nutrients 431
- N15 190
- phosphorus 470
- phytoplankton 431
- PON 190
- protein 470
- Sagami 431
- sediments 190
- seston 470
- Simoda 190
- Suruga 431
- Ura 190
- Vibrios 431
- zooplankton 431
- Tolo**
 - clay 458
 - flux 458
 - Harbor 458
 - Hong Kong 458
 - land development 458
 - phosphate 458
 - salinity 458
 - sediments 458
- toxicity**
 - abundance 32
 - Anchoa mitchilli 32
 - Bay 32
 - Bayou 317
 - benthic 10
 - biomass 32
 - bloom 10 317
 - carbon 116
 - continuous culture 116
 - cysts 10
 - dinoflagellate 6 10
 - diversity 32
 - DO 317
 - dredging 107
 - fish 32 317
 - Florida 317
 - Galveston 32
 - Gonyaulax 6 10
 - Gymnodinium 317
 - indicator species 32
 - indices 32
 - larvae 107
 - Massachusetts 10
 - nutrients 116
 - pH 302
 - phytoplankton 116 317
 - pulp mill 302
 - red tide 10
 - salmonids 302
 - sewage 116
 - spores 10
 - succession 116
 - Texar 317
 - Texas 32
 - wastes 32 302 317
 - zooplankton 107
- trace metals**
 - agrochemicals 455
 - algae 72 216 438
 - alkalinity 149 184 380 455
 - amino acids 456 528
 - ammonia 184 311 387
 - ammonium 210 394
 - assay 414
 - bacteria 456
 - bacteria proteolytic 456
 - Bay 72 184 380 387 455
 - Belgium 376
 - benthic 72 137 356 438 528
 - bibliography 4 124 213 435 436
 - black necrosis 2
 - bloom 376 414
 - boat traffic 455
 - BOD 311 348
 - Bothnia 137
 - Broad River 292
 - buoys 37
 - Burry Inlet 2
 - cadmium 210
 - California 37
 - carbohydrates 456
 - carbon 387 394
 - ceramic panel substrates 37
 - chemical 516
 - Chesapeake 72 184 380 455
 - chlorinated hydrocarbons 37 137 491
 - chlorine 184 455
 - chlorophyll 184
 - coliforms 380
 - conference 528
 - Crangon crangon 2
 - cycles 528
 - C14 456
 - DC 380

deposition 376
 detergent 2 436
 detritus 292 528
 diatoms 376 414 479
 dinoflagellate 479
 disease 356 455
 dispersion 37
 dissolved solids 137
 DO 2 72 137 184 213 216 242 311
 376 380 387 394
 DOC 311
 DON 311
 dredging 4 455
 economics 4 37 491
 energy transfer 72 348
 epiphytes 455
 Estuary 124 216 292 376 380 426
 eutrophication 4 124 213 435
 fauna 455 456
 fertilizer 292
 fish 356 516 528
 fisheries 124 528
 Florida 292
 flux 387
 food processing 516
 foraminifera 72
 fungus 456
 Great Britian 2
 growth rates 479
 Gulf 137
 heterotrophic 456
 hydrology 124 137 376 414 491
 indices 456
 industry 348 380 516
 instruments 436
 interface salt fresh 311 376
 invertebrates 528
 iron 137
 James 380
 land development 216
 leaves 292
 macrofauna 72 137 356
 macrophytes 72
 management 435 491 528
 mangroves 292
 marshes 149 210
 Maryland 380
 Mediterranean 491
 methods 37 213 426 435 436 456
 microbes 2 72 216 456 491 516
 528
 microcosms 387
 Mississippi 356
 model 348 436 438
 N/P 414
 Narragansett 387
 New Jersey 426
 New York 426
 nitrate 380 394 414
 nitrite 311
 nitrogen 115 210 242 387 479 528
 Norway 414
 nutrients 72 137 149 210 216 376
 380 387 394 436 455 491 516 528
Obelia dichotoma 37
 oil 4 137 436 455 456 491 528
 Oregon 516
 organic matter 394
 organisms 528
 orthophosphate 184 414
 parasites 356
 Patuxent 380
 pesticides 4 137 292 348 356 380
 435 436 528
 pH 2 184 311 380 455
 phosphate 184 380 394
 phosphorus 115 137 149 210 242
 387 528
 phytoplankton 72 115 137 394 414
 456 479
 pollution 4
 Potomac 216 380
 primary 115 124 137
 processes 184 456
 productivity 37 115 124 137
 pulp mill 456
 radioactivity 4 491 516
 Rappahannock 380
 Raritan 426
 release 405
 resources 216 491 516
 Rhode Island 387
 runoff 216
 salinity 2 184 311 405 455 456
 Scheldt 376
 Sea 491
 seagrass 438 528
 secondary 348
 sediment water 242 387
 sediments 137 149 196 210 242

- 376 380 387 491
self purification 376
sewage 37 72 115 348 356 380 456
 479 516
Shark 292
silica 149 414 528
South Carolina 149
Southampton 394
spatial distribution 426
specie key 455
Sphaerotilus 516
St Lawrence 124
stress 528
submerged vegetation 455
sulfate 184
sulfide 184
suspended solids 124 376 405
Susquehanna 380
symposium 137 456
temperature 2 184 394 455
temporal distribution 426
Texas 438
thermal 4 213 435 456 516
tides 210
transport 376
Trondheimsfjord 414
turbidity 455
turnover rates 394
urea 528
vertical distribution 184
Virginia 380
viruses 216
wastes 137 196 216 348 380
water column 196
water velocity 455
watersheds 380
wetlands 528
York 380
zinc 210
zooplankton 72 137 394 528
- tracer**
 Bay 23
coliforms 23
 Great Britian 23
 Liverpool 23
 sewage 23
- Transient Water Quality Network**
 aerobic 183
coliforms 183
 cycles 183
- Estuary** 183
hydrology 183
management 183
microbes 183
model 183
nitrogen 183
Potomac 183
predictions 183
processes 183
real time 183
tides 183
- transport**
 Alabama 132
 Bay 132 262 301 354 427
 Belgium 376
 Biscayne 427
 bloom 376
 chemical 427
 Chesapeake 301
 deposition 376
 diatoms 376
 DO 376
 energy transfer 354
 Estuary 223 376
 Florida 427
 free surface 427
 hydrology 100 132 262 354 376
 industry 301
 interface salt fresh 132 376
 intracellular 100
 isopleths 223
 Jamaica 262
 Mobile 132
 model 100 132 223 244 262 354
 427
 momentum transfer 132
 New York 262
 nitrogen 100
 nonadvection 244
 nonpoint sources 223
 nutrients 100 223 376
 phosphorus 100 223
 Potomac 223
 processes 223 244 354 427
 runoff 223
 San Francisco 354
 Scheldt 376
 sediments 132 301 376 427
self purification 376
 sewage 301

- spatial distribution 223
- suspended solids 376
- temporal distribution 223
- tertiary 301
- three dimensional 132 427
- time dependent 132 427
- trace metals 376
- two dimensional 262
- wastes 223 301
- wind 427
- Trinity**
 - autotrophic 86
 - Bay 86
 - freshwater 86
 - heterotrophic 86
 - industry 86
 - metabolism 86
 - microcosms 86
 - nutrients 86
 - phytoplankton 86
 - primary 86
 - productivity 86
 - respiration 86
 - Texas 86
 - wastes 86
 - zooplankton 86
- tris extraction**
 - acid extraction 206
 - ATP 206
 - charcoal adsorption 206
 - methods 206
 - sediments 206
- Trondheimsfjord**
 - assay 414
 - bloom 414
 - diatoms 414
 - hydrology 414
 - N/P 414
 - nitrate 414
 - Norway 414
 - orthophosphate 414
 - phytoplankton 414
 - silica 414
 - trace metals 414
- trophic levels**
 - fish 515
 - hydrology 515
 - management 515
 - model 515
 - nutrients 515
- phytoplankton** 515
- primary** 515
- productivity** 515
- Puget Sound 515
- succession 515
- three dimensional 515
- Washington 515
- tropical**
 - Bay 147
 - Cladocera* 147
 - Evadne tergestina* 147
 - Malagasy Republic 147
 - Nosy Be 147
 - Penilia avirostris* 147
 - phytoplankton 147
 - rainfall 147
 - seasons 147
 - zooplankton 147
- turbidity**
 - abundance 43
 - agrochemicals 455
 - Albemarle 43
 - alkalinity 67 455
 - ammonia 43 67
 - Baule Mitschlerlich 511
 - Bay 67 455
 - benthic 511
 - benthic oxygen demand 420
 - boat traffic 455
 - BOD 36 541
 - Chesapeake 67 455
 - chlorine 455
 - chlorophyll 43 67
 - clay 374
 - disease 455
 - DO 36 67 541
 - dredging 455
 - epiphytes 455
 - Estuary 67
 - fauna 455
 - freshwater 420
 - hydrology 43 420
 - land development 43
 - light 36 420
 - macrophytes 511
 - microbes 541
 - mixing depth 541
 - model 420
 - NaCl 36

nitrate 67
 nitrite 67
 nitrogen 43 67 541
 nonpoint sources 541
 North Carolina 43
 nutrients 455 511
 oil 455
 one dimensional 420
 organic 541
 pH 67 455
 phosphate 67
 phosphorus 43 541
 phytoplankton 43 67 511
 point sources 541
 Potomac 67
 predictions 541
 primary 43 511
 productivity 43 67 511
 profiles 541
 runoff 420 541
 salinity 43 67 455 541
 salts 36
 seagrass 374
 sediments 36 541
 sewage 374
 soil erosion 541
 Sound 43
 specie key 455
 stochastic 420
 submerged vegetation 455
 surface waters 541
 suspended solids 36
 temperature 36 43 67 420 455 541
 thermal 541
 trace metals 455
 water velocity 455
 zooplankton 67
turnover rates
 aerobic 537
 algae 537
 ammonium 394
 Bay 469
 biomass 537
 bloom 537
 carbon 394
 Chesapeake 469
 CO₂ 537
 cycles 233
 C₁₄ 537
 Denmark 233
 density 537
 detritus 537
 DO 394
 DOP 469
 K_s 469
 macrophytes 537
 microbes 537
 nitrate 394
 nutrients 394
 organic matter 394
 orthophosphate 469
 oxidation 233
 phosphate 394
 phytoplankton 394 469
 polyphosphate 469
 P32 469
 reduction 233
 sediments 233 537
 Southampton 394
 sulphur 233
 temperature 394
 trace metals 394
 uptake rates 537
 V_m 469 537
 water column 537
 zooplankton 394
two dimensional
 advection 42
 Bay 41 42 262 353 378
 BOD 353
 Chesapeake 41 42
 coliforms 353
 Coriolis 42
 density homogeneous 258
 DO 353
 finite difference 41
 freshwater 378
 hydrology 41 42 262 378
 Jamaica 262 353
 model 41 42 258 262 353 378
 New York 262 353
 nitrogen 353
 phosphorus 353
 salinity 353
 San Francisco 378
 silica 378
 specified time 258
 transport 262
 unsteady flow 258
two layer

- interstitial 503
- mass transfer 503
- model 503
 - North 503
 - Sea 503
 - silica 503
 - zone 503
- Tyne**
 - algae 119
 - benthic 119
 - Estuary 119
 - Great Britain 119
 - industry 119
 - sewage 119
 - Tees 119
 - wastes 119
 - Wear 119
- Ulva**
 - Estuary 82
 - Massachusetts 82
 - nitrate 82
 - nutrients 82
 - phosphate 82
 - phytoplankton 82
 - Pines 82
 - recreation 82
 - sewage 82
 - Suagus 82
- Ulvales**
 - fucaceae 334
 - intertidal 334
 - Mytilus 334
 - pulp mill 334
 - Spain 334
 - stress 334
 - wastes 334
- United Kingdom**
 - bibliography 15 51
 - Estuary 143
 - eutrophication 15 51
 - nitrate 143
 - nutrients 143
 - phosphate 143
 - runoff 143
 - salts 143
 - sewage 15
 - Thames 143
 - wastes 143
- unsteady flow
 - density homogeneous 258
- model 258
 - specified time 258
 - two dimensional 258
- uptake rates
 - adsorption 259
 - aerobic 537
 - algae 133 537
 - algae bluegreen 533
 - alkaline phosphatase 482
 - ammonia 69 157
 - ammonium 31 129 188 482
 - Bay 133 188 297
 - biomass 133 533 537
 - bloom 533 537
 - C/N 188 482
 - California 129
 - carbon 482
 - Chesapeake 133 297
 - Chlorella salina 69
 - chlorophyll 482
 - Chlorophyta 31
 - Chowan 533
 - clay 259
 - CO₂ 537
 - cycles 129 297
 - C₁₄ 537
 - denitrification 157
 - density 537
 - detritus 537
 - dissolved 131
 - diurnal 129 482
 - diversity 533
 - Estuary 31 90 131 133 533
 - eutrophic 157
 - growth rates 188
 - Hawaii 188
 - Hudson 31
 - hydrology 90
 - inorganic 131
 - Kaneohe 188
 - Ks 482
 - light 31
 - local 297
 - macrophytes 157 537
 - microbes 133 297 533 537
 - mining 90
 - Mississippi 131
 - model 157
 - nitrate 31 69 129 157 188 482
 - nitrification 157

- nitrogen 129 157 297 482
- North Carolina 90 533
- nutrients 259 297
- N15 129
- Olisthodiscus luteus* 482
- organic 157 259
- organic matter 157
- Orinoco 131
- orthophosphate 133
- Pamlico 90
- pH 259
- phosphate 69 259
- phosphorus 90 259 297 482 533
- phytoplankton 31 90 129 157 188 297 533
- plumes 131
- primary 129
- processes 157
- productivity 129
- protein 69
- rainfall 297
- Rangia 90
- Rhode 133
- salinity 69 90 259
- Savannah 131
- sediment water 259
- sediments 90 297 537
- sewage 69 129 188 259
- silica 131
- Skeletonema* 31
- suspended solids 131
- symposium 297
- temperature 259
- turnover rates 537
- urea 129 188
- vertical transport 297
- Virginia 259
- Vm 537
- wastes 90
- water column 537
- zooplankton 157 297
- upwelling
 - DO 369
 - Grays 369
 - Harbor 369
 - sewage 369
 - temperature 369
 - Washington 369
- Ura
 - ammonia 190
- Bay 190 252
- denitrification 190
- Japan 190
- Mangoku 190 252
- microbes 252
- nitrate 252
- nitrification 252
- N15 190 252
- Odawa 252
- PON 190
- reduction 252
- sediments 190 252
- Simoda 190
- Tokyo 190
- Zostera 252
- Uranouchi
 - Bay 322
 - chlorophyll 322
 - Japan 322
 - nutrients 322
 - phytoplankton 322
 - wastes 322
- urea
 - amino acids 528
 - ammonia 50 62 165
 - ammonium 129 186 188 298
 - animals 186
 - Bay 188 298
 - benthic 528
 - biomass 62
 - biosorption 543
 - C/N 62 188
 - California 62 129
 - carbon/chlorophyll 62
 - Chesapeake 298
 - conference 528
 - cycles 129 186 528
 - C14 543
 - detritus 528
 - distribution 50
 - diurnal 62 129
 - enzymes 165
 - Estuary 50 186
 - fish 528 543
 - fisheries 528
 - growth rates 188
 - Hawaii 188
 - inorganic 186
 - invertebrates 528
 - Kaneohe 188

- Ks 62
- management 528
- methianine 543
- methods 165
- microbes 528
- nitrate 50 129 186 188 298
- nitrite 50 186 298
- nitrogen 50 62 129 186 528
- North Carolina 186
- nutrients 50 62 186 528
- N15 62 129
- oil 528
- organic 50 186
- organisms 528
- Pamlico 186
- percolator 165
- pesticides 528
- phosphate 50
- phosphorus 528
- phytoplankton 62 129 188 298
- plants 186
- primary 62 129
- productivity 62 129
- salinity 50
- seagrass 528
- seasons 50 186
- sediments 165 186
- sewage 62 129 188
- silica 528
- silicate 50
- St Lawrence 50
- stress 528
- sulfate 165
- temperature 50
- trace metals 528
- uptake rates 129 188
- Vm 62
- wetlands 528
- zooplankton 528
- USSR**
- metabolism 162
- mussels 162
- nitrogen 162
- nutrients 162
- organic 162
- phosphate 162
- uv/resin**
- interference 54
- methods 54
- nitrate 54
- Vancouver**
- Burrard 460
- distribution 460
- fiord 460
- Harbor 460
- Inlet 460
- phytoplankton 460
- primary 460
- productivity 460
- succession 460
- Vellar**
- Estuary 506
- inorganic 506
- nitrogen 506
- organic 506
- phytoplankton 506
- processes 506
- seasons 506
- vertical distribution**
- alkalinity 184
- ammonia 184
- Bay 184
- Chesapeake 184
- chlorine 184
- chlorophyll 184
- DO 184
- orthophosphate 184
- pH 184
- phosphate 184
- processes 184
- salinity 184
- sulfate 184
- sulfide 184
- temperature 184
- trace metals 184
- vertical shear**
- density 530
- dispersion 530
- dye 530
- Estuary 530
- hydrology 530
- longitudinal 530
- mixing 530
- model 530
- point sources 530
- York 530
- vertical transport**
- Bay 297
- Chesapeake 297
- cycles 297

local 297
 microbes 297
 nitrogen 297
 nutrients 297
 phosphorus 297
 phytoplankton 297
 rainfall 297
 sediments 297
 symposium 297
 uptake rates 297
 zooplankton 297
Vibrios
Actinetobacter 431
 bacteria 431
 Bay 431
 heterotrophic 431
 nutrients 431
 phytoplankton 431
Sagami 431
Suruga 431
Tokyo 431
 zooplankton 431
Virginia
Acartia 227
 adsorption 259
 alkalinity 380
 ammonia 518
 animals 518
Balanus 227
 Bay 156 227 380 475
 bibliography 156 475
 bloom 227
 BOD 212
 carbon 21 27
 Carter 21
 Chesapeake 156 380 475
 clay 259
 coliforms 380
 Creek 21
 cycles 21
 DC 380
 DO 212 380 518
 Estuary 27 212 227 380 518
Eurytemora 227
 hydrology 212
 industry 380
 inorganic 27
 James 27 380
 latitudinal gradients 227
 marshes 21
 Maryland 380
 microbes 27
 model 27 212
 Narragansett 227
 New Jersey 227
 nitrate 27 380
 nitrite 27
 nitrogen 21
 nutrients 227 259 380 518
 organic 27 259
 organic matter 227
 Patuxent 380
 pesticides 380
 pH 259 380
 phosphate 27 259 380 518
 phosphorus 21 259
 phytoplankton 27 227
 Potomac 380
 predictions 27
 primary 21
 processes 27
 productivity 21
 Rappahannock 380
 Raritan 227
 real time 212
 Rhode Island 227
 salinity 212 227 259
 Schofield 27
 seasons 227
 sediment water 21 259
 sediments 380
 sewage 27 259 380
 stochastic 27
 Susquehanna 380
 temperature 27 259
 tidal average 212
 tides 518
 trace metals 380
 uptake rates 259
 Ware 21
 wastes 227 380
 watersheds 380
 York 212 227 380 518
 zooplankton 227
viruses
 algae 216
 algae bluegreen 254
Cyanophyta 254
 DO 216
 Estuary 216

- fish kills 254
- hosts 254
- indicator species 254
- land development 216
- microbes 216 254
- nutrients 216
- Potomac 216
- resources 216
- runoff 216
- Schizothrix calicola* 254
- trace metals 216
- wastes 216
- vitamin B12**
 - Georgia 59
 - marshes 59
 - microbes 59
 - sediments 59
 - suspended solids 59
- vitamins**
 - fungus 501
 - microbes 501
 - seasons 501
 - synthesis 501
 - yeast 501
- Vm**
 - aerobic 537
 - algae 537
 - alkaline phosphatase 468
 - ammonia 62
 - ammonium 522
 - Bay 468 469
 - biomass 62 537
 - bloom 537
 - boundary layer 522
 - C/N 62
 - California 62
 - carbon 522
 - carbon/chlorophyll 62
 - Chesapeake 468 469
 - CO₂ 537
 - cycles 522
 - C¹⁴ 537
 - density 537
 - detritus 537
 - diurnal 62
 - DOP 469
 - growth rates 522
 - kelp 522
 - K_s 62 468 469 522
 - Macrocystis* 522
 - macrophytes 537
 - microbes 537
 - morphology 522
 - nitrogen 62 522
 - nutrients 62 522
 - N₁₅ 62
 - orthophosphate 469
 - phosphomonoester 468
 - phosphorus 468
 - phytoplankton 62 468 469
 - polyphosphate 469
 - primary 62 522
 - productivity 62 522
 - P₃₂ 469
 - sediments 537
 - sewage 62
 - turnover rates 469 537
 - uptake rates 537
 - urea 62
 - water column 537
 - water velocity 522
- Waimea**
 - acetylene 25
 - cannery 25
 - Inlet 25
 - intertidal 25
 - Klebsiella pneumoniae* 25
 - New Zealand 25
 - nitrogen fixation 25
 - nutrients 25
 - sediments 25
 - sewage 25
 - slaughterhouse 25
 - wastes 25
- Ware**
 - carbon 21
 - Carter 21
 - Creek 21
 - cycles 21
 - marshes 21
 - nitrogen 21
 - phosphorus 21
 - primary 21
 - productivity 21
 - sediment water 21
 - Virginia 21
- Washington**
 - ammonia 481 520
 - anaerobic 358
 - benthic 305 358

- bibliography 84 112
 bloom 520
 chlorophyll 481
 dehydrogenase 358
 disease 305
 diversity 17
 DO 369
 Duwamish 480 481 520
 ecosystem 84
 Estuary 480 481 520
 fish 17 305 515
 Grays 369
 Harbor 369
 hydrology 515 520
 indicator species 481
 intertidal 17
 invertebrates 17
 Lake 358
 land development 84
 macrofauna 17
 management 515
 metabolic heat release 358
 metabolism 358
 microcalorimetry 358
 model 515
 nitrate 481
 nitrite 481
 nutrients 358 480 515
 organic matter 358
 organisms 358
 oxygen 358
 Periphyton 481
 phosphate 481 520
 phytoplankton 515 520
 primary 481 515
 processes 358
 productivity 481 515
 Puget 17 84 305 358 515
 salt wedge 480
 sediments 17 358
 sewage 17 305 369 520
 Sound 17 84 305 358 515
 succession 515
 temperature 369
 three dimensional 515
 trophic levels 515
 upwelling 369
 wastes 481
 wastes
 abundance 32 120
- Acartia 227
 acetylene 25
 Agnes 415
 agriculture 218 282 384
 algae 81 119 120 216 400 442
 algae bluegreen 66 218
 algae mats 130
 alkalinity 380
 ammonia 123 204 481
 Anchoa mitchilli 32
 animals 399
 Apalachee 191
 assay 399
 ATP 275
 autotrophic 86
 Balanus 227
 Bay 32 76 86 191 208 227 238 301
 322 380 415 488
 Bayou 102 317
 benthic 76 119 120 137 191 208
 400 447 508 539
 benthic oxygen demand 221
 Bight 275
 bioenhancement 447
 biological 230
 biomass 32 66 275 447
 bioturbation 539
 bloom 204 227 275 317
 BOD 109 136 221 284 342 348 539
 Bothnia 137
 British Columbia 512
 C/N 136
 cadmium 275
 California 400 447
 canal 384 512
 cannery 25 76 447
 carbon 220 221 342
 Ceratium 275
 Charleston 136
 chemical 20 102 109 230 359
 Chesapeake 301 380 415
 Chinhae 238
 chlorinated hydrocarbons 137
 chlorophyll 102 220 322 415 481
 Chocolate 102
 Cladocera 245
 Clyde 284
 COD 442
 coliforms 221 380
 CO₂ 105 220

- cycles 342 464
 DC 380
 Delaware 109 134 342 539
 detergent 413
 disease 238
 dissolved solids 137
 distribution 309
 diversity 32 102 120 447
 Dniester 384
 DO 81 102 105 117 137 216 220
 221 222 284 317 342 380 447 464
 dredging 512
 Duwamish 481
 economics 134 508
 Elizabeth 327
 energy transfer 348
 Estuary 66 81 90 109 119 130 134
 143 204 216 218 220 221 222 223
 227 284 309 327 342 380 384 415
 481 539
 Eurytemora 227
 eutrophic 20
 exchange diffusion 123
 fauna 384 539
 fertilizer 204 238 282 464
 fish 32 317 447 513
 fisheries 488
 Florida 191 317
 flushing 218 512
 flux 342
 freshwater 86 204 222 284
 fucaceae 334
 Galveston 32 208
 Great Britain 119 120
 Greece 245
 Gulf 137 245
 Gymnodinium 317
 Harbor 20 136 327 400 447
 heterotrophic 86
 heterotrophic potential 500
 Hudson 218
 Hurricane 415
 hydrology 20 90 137 208 284 399
Hymeniacidon sanguinea 359
 indicator species 32 191 208 245
 359 399 400 481
 indices 32 102 208 220
 industry 86 109 119 134 136 208
 232 245 275 284 301 327 348 359
 380 384 442 452 464 488 508
 Inlet 25
 inorganic 413
 intertidal 25 309 334
 invertebrates 191
 Ireland 130
 Irish 309
 iron 137
 isopleths 223
 Italy 359
 James 327 380
 Japan 322 488
 kelp 232
Klebsiella pneumoniae 25
 Korea 238
 Lagoon 105
 land development 216
 latitudinal gradients 227
Limnodrilus 539
 Little Creek 327
 long term 120
 Los Angeles 400 447
 Louisiana 442
 Lynnhaven 327
 macrofauna 76 137 309
 macroinvertebrates 232
 management 109 327 508
 marshes 442
 Maryland 380
 Mersey 309
 metabolism 86 452
 metals 232
 methods 118 123 399
 Michaelis Menton 415
 microbes 20 216 220 275 399 442
 500
 microcosms 86
 mining 66 90 464 513
 model 105 109 223 327 342 348
 415
 mud flats 130 191
 municipal 109 413
Mytilus 334
 N/P 413
 Nansemond 327
 Narragansett 227
 Neuse 204
 New Jersey 227
 New York 275
 New Zealand 25
 nitrate 123 143 204 218 380 481

nitrite 481
 nitrogen 66 342 413 415
 nitrogen fixation 25
 nonpoint sources 223 327
 North 232
 North Carolina 90 204
 nutrients 25 86 130 137 143 216
 218 220 221 222 223 227 282 322
 342 380 442 512
 N14 118
 N15 118
 oil 137 399 400 513
 oligochaetes 400 539
 organic 130 309 500 539
 organic matter 227 413
 organisms 447 508
 orthophosphate 117
 oyster reefs 191
 Pagan 327
 Pamlico 66 90
 Patuxent 380
 Periphyton 481
 pesticides 137 220 348 380 508
 513
 pH 105 302 380
 phosphate 123 143 218 380 481
 phosphorus 66 90 137 204 223 342
 413 415 464
 phytoplankton 66 86 90 137 204
 221 227 317 322 342 413 415
 plankton 20 447
 plants 508
 point sources 218
 polychaetes 400
 pool experiment 66
 populations mixed 500
 populations single 452
 Poquoson 327
 Porifera 359
 Porphyra 238
 Potomac 81 216 218 220 221 222
 223 342 380
 predictions 284 327
 primary 86 137 238 481
 processes 223 230
 productivity 86 102 137 238 447
 481
 public opinion 508
 Puget 117
 pulp mill 136 191 302 334 488
 513
 quasi linear 415
 radioactivity 513
 Rangia 90
 Rappahannock 380
 Raritan 227
 recreation 508
 reproduction 120
 resources 216 222
 respiration 86 102
 Rhode Island 227
 Rogerstown 130
 runoff 134 143 216 223 442 464
 513
 Saldanha 76
 salinity 90 204 227 512
 salmonids 302
 salts 143
 Saronic 245
 Sea 232 309
 seagrass 191
 seasons 102 120 227 245 309
 secondary 118 123 348
 sediments 25 90 137 196 208 275
 301 380 539
 sewage 25 105 119 134 136 204
 218 232 245 284 301 327 348 359
 380 384 400 442 447 464 488 513
 slaughterhouse 25
 Sound 117
 South Africa 76
 South Carolina 136
 Spain 334
 spatial distribution 223
 stabilization 105 230
 storm loading 134
 stress 334 452
 succession 232
 Suruga 488
 Susquehanna 380 415
 symposium 137
 Taylor 102
 Tees 119
 temperature 105 245 284 512
 temporal distribution 223
 tertiary 301 508
 Texar 317
 Texas 32 86 102 208
 Thames 143
 thermal 513

tides 81 512
TLM 452
TOC 220 442
toxicity 32 302 317
trace metals 137 196 216 348 380
transport 223 301
Trinity 86
Tyne 119
Ulvales 334
United Kingdom 143
uptake rates 90
Uranouchi 322
Virginia 227 380
viruses 216
Waimea 25
Washington 481
water column 196
watersheds 380
Wear 119
York 227 327 380
zooplankton 86 102 137 227 245
 342 384
water column
 aerobic 537
 algae 537
 barnacles 507
 Bay 417
 biomass 537
 bloom 537
 Chesapeake 417
 CO₂ 537
 C₁₄ 537
 density 537
 detritus 537
 distribution 417
 Estuary 507
 indicator species 417
 macrophytes 537
 marshes 507
 microbes 417 537
 model 507
 mussels 507
 North Inlet 507
 oysters 507
 phytoplankton 507
 primary 507
 processes 507
 productivity 507
 sediments 196 417 537
 sewage 417
 suspended solids 417
 tides 507
 trace metals 196
 turnover rates 537
 uptake rates 537
 Vm 537
 wastes 196
water craft
 Bay 425
 Meydenbauer 425
 San Diego 425
 sewage 425
 Wollochet 425
water quality
 DO 97
 hydrology 97
 model 97
water supply
 artificial recharge 138
 canal 138
 dissolved solids 138
 economics 138
 Estuary 138
 nitrification 138
 ozonization 138
 recycle 138
 sewage 138
 Thames 138
water velocity
 agrochemicals 455
 alkalinity 455
 ammonium 522
 Bay 455
 biomass 336
 boat traffic 455
 boundary layer 522
 carbon 522
 Chesapeake 455
 chlorine 455
 cycles 522
 disease 455
 dredging 455
 epiphytes 455
 Estuary 336
 fauna 455
 Grevelingen 336
 growth rates 522
 kelp 522
 Ks 522
 light 336

- Macrocystis** 522
- morphology** 522
- Netherlands** 336
- nitrogen** 522
- nutrients** 336 455 522
- oil** 455
- pH** 455
- primary** 336 522
- productivity** 336 522
- salinity** 455
- specie key** 455
- submerged vegetation** 455
- temperature** 455
- trace metals** 455
- turbidity** 455
- Vm** 522
- Zostera marina** 336
- watersheds**
 - aerobic** 58
 - agriculture** 517
 - alkalinity** 380
 - anaerobic** 58
 - assay** 58
 - Bay** 92 173 380
 - Chesapeake** 92 173 380
 - Chickahominy** 173
 - coliforms** 380
 - Connecticut** 58
 - Cops Brook** 58
 - DC** 380
 - degradation** 58
 - DO** 380
 - DOC** 58
 - Estuary** 173 219 380
 - fertilizer** 517
 - flood control** 517
 - freshwater** 219
 - hydrology** 517
 - indices** 92
 - industry** 380 517
 - interstitial** 58
 - James** 173 380
 - land development** 92 517
 - linear regression** 173
 - Maryland** 380
 - metabolism** 58
 - microbes** 58
 - model** 58
 - nitrate** 219 380
 - nitrite** 219
 - North Carolina** 517
 - nutrients** 58 92 173 380 517
 - organic matter** 58
 - Patuxent** 173 380
 - pesticides** 380 517
 - pH** 380
 - phosphate** 219 380
 - POC** 58
 - Potomac** 173 219 380
 - Rappahannock** 173 380
 - recreation** 517
 - resources** 517
 - seasons** 173
 - sediments** 58 219 380
 - sewage** 219 380
 - spatial distribution** 219
 - Susquehanna** 173 380
 - temporal distribution** 219
 - tetrazolium salt** 58
 - TKN** 219
 - trace metals** 380
 - Virginia** 380
 - wastes** 380
 - York** 173 380
- Wear**
 - algae** 119
 - benthic** 119
 - Estuary** 119
 - Great Britian** 119
 - industry** 119
 - sewage** 119
 - Tees** 119
 - Tyne** 119
 - wastes** 119
- weight**
 - ammonia** 289
 - chlorophyll** 289
 - COD** 289
 - Estuary** 289
 - nutrients** 289
 - phosphorus** 289
 - Potomac** 289
 - sediments** 289
- Werribee**
 - ammonia** 388
 - Australia** 388
 - Bay** 388
 - benthic** 388
 - fauna** 388
 - nutrients** 388

- Port Phillip 388
 salinity 388
 sediments 388
 sewage 388
 sewage treatment farm 388
wetlands
 agencies 14
 agriculture 26
 amino acids 528
 Barataria 95
 Basin 95
 Bay 402
 benthic 528
 Broadkill 101
 carbon 192 195
 chlorophyll 101
 conference 528
 Copepoda 195
 crustaceans 195
 cycles 528
 Delaware 101
 detritus 192 195 528
 disposal 531
 DO 101
 dredging 14 96 531
 energy transfer 192 195
 Estuary 101 192 195 402
 Eurytemora affinis 195
 fish 528
 fisheries 95 96 528
 flood control 96
 Florida 14 402
 freshwater 402
 inorganic 101
 invertebrates 528
 land development 96
 local 14
 Louisiana 95 96 402
 management 96 402 528
 marshes 192
 Maryland 192 195
 microbes 195 528
 Murderkill 101
 nitrogen 101 528
 North Carolina 402
 nursery grounds 95
 nutrients 26 95 96 101 192 402
 528
 oil 528
 organisms 528
 Palm 402
 Patuxent 192 195
 pesticides 528
 pH 101
 phosphorus 101 528
 phytoplankton 96
 primary 192 195
 productivity 192 195
 radioactivity 402
 recreation 96
 runoff 26 96 402
 salinity 95 101
 Santee 402
Scottlana canadensis 195
 seagrass 528
 sewage 14 96
 silica 528
 soil erosion 96
 South Carolina 402
 state 14
 stress 528
 swamps 402
 tides 101
 trace metals 528
 urea 528
 zooplankton 528
wind
 Bay 422 427
 Biscayne 427
 chemical 427
 Chesapeake 422
 Florida 427
 free surface 427
 model 427
 organic matter 422
 processes 427
 salinity 422
 secchi disc 422
 sediments 427
 suspended solids 422
 three dimensional 427
 time dependent 427
 transport 427
winter
 biomass 445
 bloom 445
 diatoms 445
 Japan 445
 microbes 445
 nutrients 445

- primary 445
- productivity 445
- Sea 445
- Wollochet**
 - Bay 425
 - Meydenbauer 425
 - San Diego 425
 - sewage 425
 - water craft 425
- Woods Hole**
 - benthic 331
 - indicator species 331
 - invertebrates 331
 - Massachusetts 331
 - nematodes 331
 - seasons 331
 - sewage 331
- worms**
 - Clyde 375
 - Enteromorpha 375
 - Estuary 375
 - fauna 375
 - fisheries 375
 - molluscs 375
 - nutrients 375
 - sand 375
 - Scotland 375
 - sediments 375
 - sewage 375
- Yaquina**
 - algae 448
 - algae mats 33
 - assay 448
 - Bay 448
 - benthic 33
 - benthic oxygen demand 33
 - dispersion coefficient 170
 - Estuary 33 170
 - hydrology 448
 - light 448
 - model 33 170
 - nutrients 448
 - Oregon 33 170 448
 - salinity 33
 - seasons 448
 - sediments 33
 - sewage 448
 - slack water 170
 - sulfide 33
 - temperature 448
- tides** 33
- Yarra**
 - abundance 389
 - Bay 389
 - benthic 389
 - diversity 389
 - DO 389
 - Estuary 389
 - fauna 389
 - Hobsons 389
 - salinity 389
 - Theora fragilis* 389
- yeast**
 - Estuary 474
 - fungus 501
 - microbes 501
 - organic matter 474
 - Portugal 474
 - Sado 474
 - seasons 501
 - synthesis 501
 - Tagus 474
 - temperature 474
 - vitamins 501
- York**
 - Acartia* 227
 - alkalinity 380
 - ammonia 518
 - animals 518
 - Balanus* 227
 - Bay 173 227 380 495
 - bloom 227
 - BOD 212 495
 - carbon 495
 - Chesapeake 173 380 495
 - Chickahominy 173
 - chlorophyll 174 495
 - coliforms 380
 - community structure 174
 - DC 380
 - density 530
 - dispersion 530
 - DO 174 212 380 495 518
 - dye 530
 - Elizabeth 327
 - Estuary 173 174 212 227 327 367
 - 380 495 518 530
 - Eurytemora* 227
 - factorial productivity 367
 - Harbor 327

hydrology 174 212 530
 industry 327 380
 James 173 327 380 495
 latitudinal gradients 227
 light 174
 linear regression 173
 Little Creek 327
 longitudinal 530
 Lynnhaven 327
 management 327
 Maryland 380
 microflagellates 174
 mixing 530
 model 212 327 530
 nanoplankton 174
 Nansemond 327
 Narragansett 227
 New Jersey 227
 nitrate 380
 nonpoint sources 327
 nutrients 173 227 380 495 518
 organic matter 227
 Pagan 327
 Patuxent 173 380 495
 pesticides 380
 pH 380
 phosphate 380 518
 phytoplankton 174 227 367
 point sources 530
 populations mixed 367
 populations single 367
 Poquoson 327
 Potomac 173 380 495
 predictions 327
 primary 174 367
 productivity 174 367
 Rappahannock 173 380 495
 Raritan 227
 real time 212
 Rhode Island 227
 salinity 174 212 227
 seasons 173 227
 sediments 380
 sewage 327 380
 Skeletonema 367
 succession 367
 Susquehanna 173 380 495
 temperature 174
 tidal average 212
 tides 518
 trace metals 380
 vertical shear 530
 Virginia 212 227 380 518
 wastes 227 327 380
 watersheds 173 380
 zooplankton 227
zinc
 ammonium 210
 cadmium 210
 marshes 210
 nitrogen 210
 nutrients 210
 phosphorus 210
 sediments 210
 tides 210
 trace metals 210
zone
 interstitial 503
 mass transfer 503
 model 503
 North 503
 Sea 503
 silica 503
 two layer 503

- zooplankton**
 Acartia 227
 Actinobacter 431
 agriculture 384
 algae 72 87 140
 algae bluegreen 335
 alkalinity 67
 amino acids 528
 ammonia 67 157 314 466 477
 ammonium 394
 ATP 295
 Australia 154
 autotrophic 86
 bacteria 431
Balanus 227
 Baltic 335
 Basin 295
 Bay 67 72 86 140 147 200 227 296
 297 392 406 431 466
 Bayou 102 314
 Bedford 295
 benthic 72 87 137 335 352 528
 542
 benthic oxygen demand 542
 biomass 140 154 200 296 466
 bloom 227 363
 BOD 342 477
 Bothnia 137
 Buzzards 406
 Byfjorden 352
 C/N 406
Calanus pacificus 363
 California 477
 canal 384
 carbohydrates 295
 carbon 295 342 394 542
Chaetoceros 363
Chaetodon miliaris 392
 chemical 102
 Chesapeake 67 72 140 296 297
 chlorinated hydrocarbons 137
 chlorophyll 67 102 140 154 296
 391 406
 Chocolate 102
 Cladocera 147 245
 Cochin 391
 coliforms 542
 Columbia 175
 community structure 88
 conference 528
crustaceans 352
 cycles 297 342 477 528
 C14 140 391
 Delaware 342 477
 Delta 477
 denitrification 157
 deoxygenation 542
 detergent 335
 detritus 406 528
 diatoms 153 347
 DIN 477
 dissolved solids 137
 distribution 153
 diversity 88 102
 Dniester 384
 DO 67 72 102 137 154 194 314 335
 342 394 477 542
 DOM 404
 DON 466
 DPO 466
 dredging 107
 east coast 77
 energy transfer 72 335
 Estuary 67 87 154 175 227 341
 342 352 384 391 477
Euphaussid furcilia 363
Eurytemora 175 227
 eutrophic 157
Evadne tergestina 147
 excretion rates 466
 fauna 87 384
 feeding rates 363
 filter feeders 347
 fish 88 335 392 528 542
 fisheries 77 528
 flagellates 295 347
 Florida 314
 flux 342
 foraminifera 72
 freshwater 86
 Gothenburg 352
 Greece 245
 growth rates 392
 Gulf 137 245
 Hawaii 200 392 466
 heat 542
 heterotrophic 86 431
 hydrology 87 137 154
 H3 154
 ice 542

- indicator species 245 335 352
- indices 102
- industry 86 245 384
- invertebrates 528
- iron 137
- juveniles 77
- Kaneohe 200 392 466
- Kungsbackafjorden 352
- larvae 107
- latitudinal gradients 227
- light 175 542
- linear regression 175
- Little River 154
- local 297
- Long Island 404
- long term 153
- macroalgae 335
- macrofauna 72 137 352
- macroinvertebrates 314
- macrophytes 72 157
- Malagasy Republic 147
- management 528
- Massachusetts 406
- meiofauna 352
- metabolism 86 88 466
- methods 296 542
- Michaelis Menton 347
- microbes 72 297 404 528
- microcosms 86 140 194
- mining 87
- model 157 237 335 341 342 347
477 542
- nanoplankton 296 363 406
- Narragansett 227
- New Jersey 227
- nitrate 67 157 175 314 394
- nitrification 157
- nitrite 67 477
- nitrogen 67 87 157 194 297 342
477 528
- North 153
- Nosy Be 147
- nutrients 72 86 88 137 227 297
341 342 391 394 431 528 542
- oil 137 528
- Oregon 175
- organic 157
- organic aggregates 404
- organic matter 157 227 394
- organisms 335 528 542
- oxidation 477
- Pamlico 87
- particulate matter 295
- Penilia avirostris 147
- pesticides 137 528
- pH 67
- phosphate 67 175 314 394 466
- phosphorus 87 137 154 194 297
342 528
- phytoplankton 67 72 86 87 137
147 153 154 157 175 194 227 295
296 297 314 341 342 363 394 404
431 477 542
- PN 200
- POC 406
- POM 404
- PON 406
- populations mixed 237
- Potomac 67 341 342 477
- primary 86 137 140 154 296 335
391 542
- processes 157
- productivity 67 86 102 137 140
154 194 296 335 363 391 542
- protein 295
- Pseudocalanus minutus 363
- P32 154
- rainfall 147 297
- Raritan 227
- rate constants 542
- reaeration 542
- reproduction 392
- respiration 86 102
- Rhode Island 227
- Sacramento 341
- Sacramento San Joquin 477
- Sagami 431
- salinity 67 77 154 227
- Saltkallefjord 352
- Saronic 245
- Sea 153 335
- seagrass 528
- seasons 102 147 175 227 245 391
404 406
- sediments 137 297
- sewage 72 140 245 335 384 392
- silica 175 347 528
- size composition 200
- size dependent 466
- Sound 404

- Southampton 394
- spatial distribution 542
- stochastic 477
- stress 88 528
- succession 200
- Suruga 431
- survival 237
- suspended solids 406
- Sweden 352
- symposium 137 297 335 341
- Taylor 102
- temperature 67 77 153 154 245
391 394
- temporal distribution 542
- Texar 314
- Texas 86 88 102
- time constants 347
- TOC 314
- Tokyo 431
- toxicity 107
- trace metals 72 137 394 528
- Trinity 86
- tropical 147
- turbidity 67
- turnover rates 394
- uptake rates 157 297
- urea 528
- vertical transport 297
- Vibrios 431
- Virginia 227
- wastes 86 102 137 227 245 342
384
- wetlands 528
- York 227
- Zostera*
 - Ray 252
 - Mangoku 252
 - microbes 252
 - nitrate 252
 - nitrification 252
 - N15 252
 - Odawa 252
 - reduction 252
 - sediments 252
 - Ura 252
- Zostera marina*
 - biomass 336
 - Estuary 336
 - Grevelingen 336
 - light 336