EPA 903/9-78-024

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Philadelphia, PA 19107

APPENDIX IV

EUTROPHICATION

A Report
under EPA Contract No. 68-01-3994

August 1978

Chesapeake Research Consortium, Incorporated

prepared by

University of Maryland,
Center for Environmental and Estuarine Studies

and

Virginia Institute of Marine Science

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Region III Information Resource
Center (3PM52)
841 Chestnut Street
Philadelphia, PA 19107

CHESAPEAKE BAY BASELINE DATA ACQUISITION

EUTROPHICATION

Contract No. 68-01-3994

between

U. S. Environmental Protection Agency

and

Chesapeake Research Consortium, Incorporated

August 1978

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1419 Forest Drive, Suite 207
Annapolis, Maryland 21403
(301) 263-0884

The Johns Hopkins University
University of Maryland
Smithsonian Institution
Virginia Institute of Marine Science

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INTRODUCTION

This report forms one of several appendices which are the body of the Chesapeake Bay Baseline Data Acquisition Final Report. These appendices are as follows:

Appendix I. A Chesapeake Bay Directory

Appendix II. Submerged Aquatic Vegetation

Appendix III. Toxics in the Cheasapeake Bay

Appendix IV. Eutrophication

Appendix V. Shellfish Bed Closures

Appendix VI. Dredging and Spoil Disposal

Appendix VII. Modification of Fisheries

Appendix VIII. Hydrologic Modifications

Appendix IX. Wetlands Alteration

Appendix X. Effects of Boating and Shipping on Water Quality

Appendix XI. Shoreline Erosion

This report comprises three sections as follows:

Annex I. contains scientists presently engaged in research in this field.

Annex II. is an indexed listing of data files pertinent to the Chesapeake Bay and adjacent coastal states.

Annex III. summarizes the monitoring efforts as derived from Annex II.

The source material for appendices IV-XI includes minimal material based on interviews, field work and verification. Efforts were directed to determining researchers and their activities from "A Chesapeake Bay Directory" only. For each of the eight subject areas, a key word list was also formulated and the respective pertinent data files compiled from the Environmental Data Base Directory. These files served as the primary source for the monitoring programs section.

ANNEX I

Directory of Researchers

Eutrophication

This "Directory of Researchers" contains a listing of scientists who are presently working in this field, their affiliations and their specific research activities. The information was compiled from "A Chesapeake Bay Directory" by A. McErlean et al. which was published as a partial fulfillment of this contract.

For researchers and research activities in other national and international areas the reader is referred to the "International Directory of Marine Scientists," issued by the Food and Agriculture Organization of the United Nations in 1977. Copies of this directory are available at the following locations:

EPA Region III
Chesapeake Bay Program Office
Curtis Building
6th and Walnut Streets
Philadelphia, PA 19106

Chesapeake Research Consortium
1419 Forest Drive
Suite 207
Annapolis, MD 21403

University of Maryland, Center for Environmental and Estuarine Studies
ATTN: Karen Rutledge
P. O. Box 775
Horn Point Rd.
Cambridge, MD 21613

Virginia Institute of Marine Science
ATTN: Thomas Lochen
Gloucester Point, VA 23062

ANNEX I

Directory of Researchers

Eutrophication

Alden, R. W. Old Dominion University	Pollution ecology, zooplankton.
Allan, J. D. University of Maryland	Zooplankton ecology.
Ayars, J. University of Maryland	Non-point source pollution.
Beaven, M. L. Chesapeake Biological Laboratory, University of Maryland	Nuclear power plant impacts on primary production - Chesapeake Bay.
Bender, M. E. Virginia Institute of Marine Science	Eutrophication, algal ecology - Chesapeake Bay.
Benfield, E. F. Virginia Polytechnic Institute and State University	Aquatic ecology, pollution effects.
Bishop, J. W. University of Richmond	Systems analyses of primary production.
Boesch, D. F. Virginia Institute of Marine Science	Pollution ecology.
Boicourt, W. C. Chesapeake Bay Institute, The Johns Hopkins University	Physical oceanography, circulation and mixing - Chesapeake Bay.
Boyton, W. R. Chesapeake Biological Laboratory, University of Maryland	Phytoplankton production and nutrient cycling - Chesapeake Bay.
Bradford, R. H., Jr. Chesapeake Biological Laboratory, University of Maryland	Pollution ecology - Chesapeake Bay.

Brodie, H. University of Maryland	Agricultural waste disposal.
Brusch, L. M. The Johns Hopkins University	Nutrient loading, water quality management.
Buikema, A. L., Jr. Virginia Polytechnic Institute and State University	Aquatic ecology, pollution effects.
Cairns, J., Jr. Virginia Polytechnic Institute and State University	Water quality studies.
Carpenter, J. H. University of Miami	Eutrophication and nutrient cycling.
Chamberlin, C. The Johns Hopkins University	Water quality management, wastewater loading.
Champ, M. American University	Eutrophication and water pollution - Chesapeake Bay.
Chen, H. S. Virginia Institute of Marine Science	Water wave mechanics.
Clark, L. J. Environmental Protection Agency, Annapolis Field Office	Nutrient enrichment, nutrient transport and control requirements - Chesapeake Bay.
Cockey, R. R. Marine Products Laboratory, University of Maryland	Public health aspects of pollution, marine microbiological processes - Chesapeake Bay.
Cohen, J. The Johns Hopkins University	Water quality modeling.
Correll, D. L. Chesapeake Bay Center for Environmental Studies, Smithsonian Institution	Eutrophication and non-point source pollution - Chesapeake Bay.
Cronin, W. B. Chesapeake Bay Institute, The Johns Hopkins University	Productivity - Chesapeake Bay.

Day, G. E. Virginia Polytechnic Institute and State University	Land use policy and non-point discharges.
D'Elia, C. Chesapeake Biological Laboratory, University of Maryland	Nutrient dynamics and energetics of marine ecosystems, phytoplankton - Chesapeake Bay.
Dickson, K. L. Virginia Polytechnic Institute and State University	Water quality studies of inland tributaries.
Drewry, W. A. Old Dominion University	Water and wastewater treatment.
Ellison, R. University of Virginia	Marsh and estuarine ecology.
Engel, W. T. Charles County Community College	Nutrient research - Chesapeake Bay.
Fang, C. S. Virginia Institute of Marine Science	Estuarine and coastal hydromechanics.
Ferri, K. Chesapeake Bay Institute, The Johns Hopkins University	Analytical chemistry of seawater - Chesapeake Bay.
Fisher, J. University of Virginia	Beach processes and estuarine circulation.
Fisher, T. R. Horn Point Environmental Laboratories, University of Maryland	Nutrient dynamics - Chesapeake Bay.
Flemer, D. Environmental Protection Agency, Washington, D. C.	Primary production - Chesapeake Bay.
Giles, R. H. Virginia Polytechnic Institute and State University	Watershed models.
Grant, G. C. Virginia Institute of Marine Science	Taxonomy and ecology of marine zooplankton.

Gross, M. G. Chesapeake Bay Institute, The Johns Hopkins University	Sediments, wastes and urban effects in coastal environments - Chesapeake Bay.
Gupta, G. University of Maryland	Water sampling and monitoring.
Haas, L. W. Virginia Institute of Marine Science	Ecology and phytoplankton dynamics.
Harris, R. Virginia Institute of Marine Science	Water quality.
Heinbokel, J. Chesapeake Bay Institute, The Johns Hopkins University	Zooplankton - Chesapeake Bay.
Heinle, D. Chesapeake Biological Laboratory, University of Maryland	Ecology of zooplankton energy transfer - Chesapeake Bay.
Hendricks, A. C. Virginia Polytechnic Institute and State University	Aquatic ecology, pollution effects.
Ho, G. C. S. Virginia Institute of Marine Science	Water qualtiy management.
Hopkins, T. University of Maryland	Water sampling and monitoring.
Huggett, R. J. Virginia Institute of Marine Science	Water quality criteria, heavy metals, pesticides, oil pollution - Chesapeake Bay.
Hyer, P. V. Virginia Institute of Marine Science	Geophysical fluid dynamics, estuarine oceanography.
Jaworski, N. A. Environmental Protection Agency, Annapolis Field Office	Nutrient management - Chesapeake Bay.
Johnson, R. E. Old Dominion University	Generation and distribution of water masses, oceanic circulation.

Jones, P. W. Chesapeake Biological Laboratory, University of Maryland	Productivity, water quality - Chesapeake Bay.
Jordan, R. A. Virginia Institute of Marine Science	Eutrophication, algal ecology - Chesapeake Bay.
Karlander, E. P. University of Maryland	Physiological ecology of algae.
Kemp, M. W. Horn Point Environmental Laboratories, University of Maryland	Systems ecology - Chesapeake Bay.
Kuo, A. Y. Virginia Institute of Marine Science	Estuarine hydrodynamics, turbulence.
Kuo, C. Y. Old Dominion University	Coastal hydraulics.
Lear, D. W., Jr. Environmental Protection Agency, Annapolis Field Office	Nutrient management - Chesapeake Bay.
Lomax, K. M. Horn Point Environmental Laboratories, University of Maryland	Wastewater treatment and disposal, diffuse sources of pollution - Chesapeake Bay.
MacIntyre, W. G. Virginia Institute of Marine Science	Chemical oceanography, data processing.
Marshall, H. G. Old Dominion University	Marine and freshwater plankton ecology and systematics.
Martens, D. C. Virginia Polytechnic Institute and State University	Wastes from livestock lagoons.
McCarthy, J. Harvard University	Eutrophication - Chesapeake Bay.

McErlean, A. J. Horn Point Environmental Laboratories, University of Maryland	Eutrophication, estuarine pollution ecology - Chesapeake Bay.
Mihursky, J. A. Chesapeake Biological Laboratory, University of Maryland	Pollution ecology, estuaine community dynamics - Chesapeake Bay.
Mountford, K. Benedict Laboratory, Academy of Natural Sciences of Philadelphia	Plankton dymanics - Chesapeake Bay.
Mulford, R. A. Benedict Laboratory, Academy of Natural Sciences of Philadelphia	Ecology of estuarine plankton - Chesapeake Bay.
Mullen, R. S. Benedict Laboratory, Academy of Natural Sciences of Philadelphia	Productivity of phytoplankton - Chesapeake Bay.
Munday, J. C., Jr. Virginia Institute of Marine Science	Remote sensing of environmental water quality, coastal circulation.
Neilson, B. J. Virginia Institute of Marine Science	Eutrophication - Chesapeake Bay.
Odum, W. University of Virginia	Marsh and estuarine ecology.
Oglesby, D. M. Old Dominion University	Marine chemistry.
Osborne, C. G. Chesapeake Biological Laboratory, University of Maryland	Pollution biology - Chesapeake Bay.
Pagoria, P. S. Old Dominion University	Water quality modeling.
Pheifer, T. Environmental Protection Agency, Annapolis Field Office	Nutrient management - Chesapeake Bay.

Price, D. Horn Point Environmental Laboratories, University of Maryland	Diffuse sources of pollution - Chesapeake Bay.
Pritchard, D. Chesapeake Bay Institute, The Johns Hopkins University	Eutrophication - Chesapeake Bay.
Randall, C. Virginia Polytechnic Institute and State University	Water quality analysis.
Reneau, R. B., Jr. Virginia Polytechnic Institute and State University	Movement of bacteria and nutrients from septic systems.
ReVelle, C. The Johns Hopkins University	Water quality modeling.
Schubel, J. R. State University of New York, Stony Brook, New York	Eutrophication - Chesapeake Bay.
Seigel, F. George Washington University	Algae blooms.
Seliger, H. The Johns Hopkins University	Phytoplankton production.
Shanholtz, V. O. Virginia Polytechnic Institute and State University	Watershed modeling.
Shelton, D. G. Chesapeake Biological Laboratory, University of Maryland	Pollution ecology - Chesapeake Bay.
Simmons, G. M., Jr. Virginia Polytechnic Institute and State University	Aquatic ecology, pollution effects.
Sladen, W. J. L. The Johns Hopkins University	Winter waterfowl populations.
Smith, R. Western Maryland College	Water quality, nutrient export with regard to land use.

Smolen, M. Virginia Polytechnic Institute and State University	Water quality of freshwater tributaries.
Southwick, C. The Johns Hopkins University	Fish and water quality - Chesapeake Bay.
Spoon, D. M. Georgetown University	Water quality data - Chesapeake Bay.
Stevenson, J. C. Horn Point Environmental Laboratories, University of Maryland	Nutrient cycling, productivity and population dynamics - Chesapeake Bay.
Taft, J. L. Chesapeake Bay Institute, The Johns Hopkins University	Phytoplankton physiology, phosphorus distribution - Chesapeake Bay.
Taylor, W. R. Chesapeake Bay Institute, The Johns Hopkins University	Eutrophication - Chesapeake Bay.
Tyler, M. Chesapeake Bay Institute, The Johns Hopkins University	Phytoplankton - Chesapeake Bay.
Ulanowicz, R. E. Chesapeake Biological Laboratory, University of Maryland	Hydrographic modeling applied to impact of electrical generating facilities - Chesapeake Bay.
Umari, A. Old Dominion University	Water resources management.
Villa, O., Jr. Environmental Protection Agency, Annapolis Field Office	Nutrient enrichment, nutrient transport and nutrient loading - Chesapeake Bay.
Wahely, R. Chesapeake Bay Institute, The Johns Hopkins University	Current meter observations - Chesapeake Bay.
Wang, D. Chesapeake Bay Institute, The Johns Hopkins University	Mathematical modeling of estuarine and oceanographic processes - Chesapeake Bay.

Webb, K. L. Virginia Institute of Marine Science	Plant physiology and ecology - Chesapeake Bay.
Wetzel, R. L. Virginia Institute of Marine Science	Ecosystem modeling, energetics.
Whaley, R. C. Hydrocon, Edgewater, Maryland	Eutrophication and nutrient cycling.
White, H. H. Old Dominion University	Plankton ecology and physiology.
Wolman, M. G. The Johns Hopkins University	Water quality, urban and land runoff.
Woodson, B. R., Jr. Virginia State College	Algal systematics and productivity.
Wutoh, J. G. Marine Products Laboratory, University of Maryland	Toxic algae bloom monitoring - Chesapeake Bay.
Yongue, W. H., Jr. Virginia Polytechnic Institute and State University	Aquatic ecology, pollution effects.

ANNEX II

Data Files

Eutrophication

ANNEX II

Data Files

Part A

Data Files

Eutrophication

The data files included in this section are arranged by EDBD accession number. This number should be used in inquiries to EDBD or in specific citations of files. However, for the purposes of this report, these files were assigned unique page numbers.

Files of areas adjacent to the Chesapeake Bay such as North Carolina, Delaware, New Jersey and Pennsylvania have been included when encountered.

ENDEX SYSTEM. ITS PURPOSE IS TO GUIDE USERS WITH REQUIREMENTS FOR HISTORICAL ENVIRONMENTAL DATA TO HOLDERS OF THESE DATA.

THIS OUTPUT WAS SELECTED FROM THE ENTIRE FILE BASED ON CERTAIN CRITERIA SPECIFIED BY THE USER. THESE CRITERIA ARE REPEATED BELOW:

EDBD

THE OUTPUT IS IN TWO PARTS. FIRST IS A LISTING OF ALL THE EDBD'S SELECTED, PRINTED IN ID NUMBER ORDER. AT THE BACK OF EACH OUTPUT MAY BE A CROSS-INDEX, LISTING SUCH THINGS AS WHICH FILE DESCRIPTIONS DESCRIBE DATA COLLECTED ON EACH PLATFORM TYPE, OR WHICH FILE DESCRIPTIONS HAVE DATA IN EACH GRID LOCATOR. THIS SECTION WILL VARY DEPENDING ON THE REQUIREMENTS OF THE USER. THE ID NUMBER IS IN THE UPPER LEFT CORNER OF EACH FILE DESCRIPTION. THE FOLLOWING IS AN EXPLANATION OF FIELDS ON EACH PAGE.

FILE NAME -- TOP CENTER OF PAGE. IDENTIFIED BY DATA HOLDER. ALSO, TIME RANGE OF DATA COLLECTION.

PROJECTS -- LIST OF PROJECTS UNDER WHICH DATA CONTAINED IN FILES MAY HAVE BEEN COLLECTED.

GENERAL GEOGRAPHIC AREA -- BEGINS WITH CONTINENT OR OCEAN IN WHICH DATA WERE COLLECTED AND DESCRIBES SMALLER AND SMALLER AREAS TO GIVE USER A GENERAL AREA OF DATA COLLECTION.

ABSTRACT -- CONTAINS GENERAL INFORMATION ABOUT WHY THE DATA WERE COLLECTED AND WHERE, METHODS OF ANALYSIS AND PERTINENT CONCLUSIONS.

DATA AVAILABILITY -- CONTAINS RESTRICTIONS ON DATA USE. IF BLANK IT MEANS THERE ARE NO KNOWN RESTRICTIONS.

PLATFORM TYPES -- LIST OF TYPES OF PLATFORMS (IF ANY) USED TO COLLECT DATA.

ARCHIVE MEDIA -- MEDIA ON WHICH DATA ARE STORED AND A ROUGH ESTIMATE OF THE SIZE OF THE FILE.

FUNDING -- ORGANIZATION FUNDING THE DATA COLLECTION (IF KNOWN).

INVENTORY -- WHEN DETAILED INFORMATION ON STATION LOCATIONS, COUNTS OF OBSERVATIONS/SAMPLES, ETC. ARE AVAILABLE, IT WILL BE DENOTED HERE.

PUBLICATIONS -- PUBLICATIONS RESULTING FROM THIS DATA SET (LIST IS SOMETIMES CONDENSED).

CONTACT -- NAME, ADDRESS AND PHONE NUMBER OF PERSON TO CONTACT TO OBTAIN FURTHER INFORMATION OR ACTUAL COPIES OF DATA.

GRID LOCATOR -- A SERIES OF NUMBERS USED TO MAKE GEOGRAPHIC RETRIEVAL POSSIBLE ON A COMPUTER. LATITUDE AND LONGITUDE ARE COMBINED INTO A SINGLE NUMBER. THE WORLD METEOROLOGICAL ORGANIZATION (WMO) CODE IS USED TO IDENTIFY AREAS WHERE DATA WERE COLLECTED. THIS MAY BE A 4,6,8, OR 10 DIGIT NUMBER DEPENDING ON WHETHER THE DATA HOLDER CHOSE TO IDENTIFY AREAS DOWN TO 10-DEGREE SQUARES OF LATITUDE AND LONGITUDE OR TO 1-DEGREE, 10-MINUTE, OR 1-MINUTE SQUARES.

FOR A 4-DIGIT GRID LOCATOR THE NUMBERS ARE AS FOLLOWS:

DIGIT 1 -- QUADRANT OF WORLD: 1=NE, 3=SE, 5=SW, 7=NW.

DIGIT 2 -- TENS DIGIT OF LATITUDE.

DIGITS 3/4 -- HUNDREDS AND TENS DIGITS OF LONGITUDE.

THUS 7408 WOULD BE THE 10-DEGREE SQUARE OF WHICH THE POINT 40N AND 080W IS THE LOWER RIGHT HAND CORNER.

FOR A SIX DIGIT NUBMER, DIGITS 5 AND 6 REPRESENT THE UNITS DIGITS OF LATITUDE AND LONGITUDE. THUS 740825 WOULD IDENTIFY THE 1-DEGREE SQUARE OF 42N AND 085W.

WITH AN 8-DIGIT NUMBER, 74082534 REPRESENTS THE SQUARE AT 42-DEGREES, 30-MINUTES NORTH AND 085-DEGREES, 40-MINUTES WEST, OR 10-MINUTE SQUARE.

THE SMALLEST AREA IDENTIFIED IN THE SYSTEM IS A 1-MINUTE SQUARE, OR A 10-DIGIT GRID LOCATOR (E.G., 7408253415 IS 42-DEGRESS 31-MINUTES NORTH AND 085-DEGRESS, 45-MINUTES WEST).

PARAMETER IDENTIFICATION SECTION -- THIS PORTION OF THE FILE DESCRIPTION CONTAINS A LIST OF PARAMETERS MEASURED, THE SPHERE IT WAS MEASURED IN, THE METHODS USED AND THE UNITS OF MEASUREMENT. IN ADDITION, SUCH INFORMATION AS THE NUMBER OF MEASUREMENTS OF EACH PARAMETER AND THE FREQUENCY (IF REGULARLY SPACED) ARE REPORTED. A SPECIALIZED ENDEX VOCABULARY IS AVAILABLE DEFINING THE PARAMETER, SPHERE, AND METHOD TERMS USED.

QUESTIONS CONCERNING THIS OUTPUT SHOULD BE RELAYED TO THE NODC OCEANOGRAPHIC SERVICES BRANCH (202) 634-7500 OR TO THE DATA INDEX BRANCH (202) 634-7298.

DATA COLLECTED: AUGUST 1971 TO PRESENT
RECEIVED: JANUARY 01, 1976

PROJECTS:
RHODE RIVER ESTUARY STUDY

GENERAL GEOGRAPHIC AREA:
. .S, COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, MARYLAND, RHODE RIVER

ABSTRACT:
EXTENSIVE BASELINE NUTRIENT STUDIES ON THE RHODE RIVER ECOSYSTEM INCLUDING HYDROGRAPHIC DATA. PHOSPHOROUS METABOLISM OF PLANKTON AND PERIPHYTON. PRIMARY PRODUCTIVITY OF PERIPHYTON, UPLAND PLANTS, AND MARSH PLANTS. NEW TECHNIQUES FOR PHOSPHORUS METABOLISM STUDY IN PLANKTON AND PERIPHYTON.

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
DATA SHEETS
28 PARAMETERS, 2000-5000 ENTRIES PER PARAMETER

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
DAVID L CORRELL 301 798 4424
SMITHSONIAN INSTITUTION, CHESAPEAKE BAY CENTER FOR ENVIRONMENTAL STUDIES
ROUTE 4, BOX 622
EDGEWATER MARYLAND USA 21037

GRID LOCATOR (LAT):
730786

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	18	STATIONS	VARIABLE		
TIME	EARTH	SAMPLING TIME	YMDHML	18	STATIONS	VARIABLE		EACH STATION SAMPLED FROM 10 TO 100 TIMES
HETEROTROPHIC RATE	WATER	PHOSPHORUS-32	MICROGRAMS P PER MIN PER LITER PER COMPOUND	6	OBS		ONE METER	NEW TECHNIQUE CONTINUOUS FLOW PULSE LABELING, LIQUID COLUMN CHROMATOGRAPHY
HETEROTROPHIC	WATER	PHOSPHORUS-32	MICROGRAMS P	48	OBS		BOTTOM	NEW TECHNIQUE,

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
RATE			PER MIN PER LITER PER COMPOUND					UPTAKE ON ARTIFICIAL SUBSTRATES, LIQUID COLUMN CHROMATOGRAPHY, SEVERAL RUNS OVER A YEAR'S TIME
HETEROTROPHIC RATE	WATER	PHOSPHORUS-32	MICROGRAMS P PER HR PER M SQ	48	OBS	1 OBS AT 2 STATIONS PER MONTH	BOTTOM	ARTIFICIAL SUBSTRATES
HETEROTROPHIC RATE	WATER	PHOSPHORUS-32	MICROGRAMS P PER HR PER GM ASH FREE DRY WT	48	OBS	1 OBS AT 2 STATIONS PER MONTH	BOTTOM	ARTIFICIAL SUBSTRATES
HETEROTROPHIC RATE	WATER	PHOSPHORUS-32	MICROGRAMS P PER MIN PER LITER	24	OBS	1 OBS PER MONTH	ONE METER	KINETICS OF P CYCLING
PHOTOSYNTHETIC RATE	WATER	CARBON-14 UPTAKE	MG C PER HR PER MSQ AND MG C PER HR PER GM ASH FREE DRY WT	48	OBS	1 OBS AT 2 STATIONS PER MONTH	BOTTOM	PERIPHYTON STUDIED IN FIELD ON ARTIFICIAL SUBSTRATES
PHOTOSYNTHETIC RATE	WATER	CARBON-14 UPTAKE	MG C PER HR PER GM DRY WT	48	OBS	1 OBS AT 2 STATIONS PER MONTH	SHALLOW	HIGHER AQUATIC PLANTS, 6 SPECIES STUDIED
HETEROTROPHIC RATE	LAND	PHOSPHORUS-32	MICROGRAM P PER DAY PER GM DRY WT	2000	OBS		SHALLOW	P FLUX BY KINETICS IN UPLANDS AND TIDAL MARSHES, SAMPLING AT 4 STATIONS OVER SEVERAL YEARS
ORTHOPHOSPHATE	WATER	SPECTROPHOTOMETRY	MICROGRAMS P PER LITER	4000	OBS	WEEKLY	SURFACE AND BOTTOM	DISSOLVED FRACTION, 10 TO 15 STATIONS PER INTERVAL
ORTHOPHOSPHATE	WATER	SPECTROPHOTOMETRY	MICROGRAMS P PER LITER	4000	OBS	WEEKLY	SURFACE AND BOTTOM	TOTAL ORTHOPHOSPHATE, 10 TO 15 STATIONS PER INTERVAL
PHOSPHORUS	WATER	SPECTROPHOTOMETRY	MICROGRAMS P PER LITER	4000	OBS	WEEKLY	SURFACE AND BOTTOM	10 TO 15 STATIONS PER INTERVAL
PHOSPHORUS	WATER	SPECTROPHOTOMETRY	MICROGRAMS P PER LITER	4000	OBS	WEEKLY	SURFACE AND BOTTOM	DISSOLVED FRACTION, 10 TO 15 STATIONS PER INTERVAL
NITRATE	WATER	COLORIMETRY	MICROGRAMS N PER LITER	3000	OBS	BIWEEKLY	SURFACE AND BOTTOM	10 TO 15 STATIONS PER INTERVAL

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
AMMONIA	WATER	COLORIMETRY	MICROGRAMS N PER LITER	2000	OBS	BIWEEKLY	SURFACE AND BOTTOM	10 TO 15 STATIONS PER INTERVAL
LIGHT ATTENUATION	WATER	SPECTROPHOTOMETRY	JACKSON CANDLE UNITS	5000	OBS	WEEKLY	SURFACE AND BOTTOM	15 STATIONS
PH	WATER	COLORIMETRY	PH	2500	OBS	WEEKLY	SURFACE AND BOTTOM	15 STATIONS
PH	WATER	SPECIFIC ION ELECTRODE	PH	2500	OBS	WEEKLY	SURFACE AND BOTTOM	15 STATIONS
DISSOLVED OXYGEN GAS	WATER	TITRATION	PARTS PER MILLION	2000	OBS	WEEKLY	SURFACE AND BOTTOM	WINKLER METHOD, 15 STATIONS
DISSOLVED OXYGEN GAS	WATER	SPECIFIC ION ELECTRODE	PARTS PER MILLION	2000	OBS	WEEKLY	SURFACE AND BOTTOM	15 STATIONS
TEMPERATURE	WATER	THERMISTOR	DEG C	5000	OBS	WEEKLY	SURFACE AND BOTTOM	15 STATIONS
HARDNESS	WATER	EDTA TITRATION	PARTS PER MILLION CA	2000	OBS	WEEKLY		1 YR DATA ON 6 STATIONS IN FRESH WATER CREEKS
REACTIVE SILICATE	WATER	COLORIMETRY	MILLIGRAMS SI PER LITER	2000	OBS	BIWEEKLY	SURFACE	14 STATIONS, 1 YR OF DATA
IRON	WATER	COLORIMETRY	MICROGRAMS FE PER LITER	1000	OBS	BIWEEKLY	SURFACE	14 STATIONS, 1 YR OF DATA, TOTAL IRON
IRON	WATER	COLORIMETRY	MICROGRAMS FE PER LITER	1000	OBS	BIWEEKLY	SURFACE	14 STATIONS, 1 YR OF DATA, SOLUBLE IRON .KJELDAHL NITROGEN S-WATER M-COLORIMETRY U-MICROGRAMS N PER LITER T-OBS Q-300 F-WEEKLY H-SURFACE AND BOTTOM R-15 STATIONS, ORGANIC NITROGEN
SALINITY	WATER	TITRATION	MOLARITY NACL	2500	OBS	WEEKLY	SURFACE AND BOTTOM	15 STATIONS
SALINITY	WATER	CONDUCTIVITY	MOLARITY NACL	2500	OBS	WEEKLY	SURFACE AND BOTTOM	15 STATIONS
CARBONATE ALKALINITY	WATER	TITRATION	PARTS PER MILLION CARBONATE	5000	OBS	WEEKLY	SURFACE	15 STATIONS

DATA COLLECTED: JULY 1949 TO PRESENT
RECEIVED: OCTOBER 05,. 1973

PROJECTS:
CHESAPEAKE BAY INSTITUTE DATA BANK

GENERAL GEOGRAPHIC AREA:
U.S., NORTH ATLANTIC, COASTAL, CHESAPEAKE BAY

ABSTRACT:
THE CHESAPEAKE BAY DATA BANK SYSTEM AT CBI INCLUDES WATER CHEMISTRY AND NUTRIENT DATA COLLECTED BY CBI PERSONNEL SINCE 1949. TEMPERATURE, SALINITY, DISSOLVED OXYGEN, CHLOROPHYLL, PH, ORTHOPHOSPHATE, TOTAL PHOSPHATE, AND OTHER LESS COMMONLY ASSAYED PARAMETERS ARE INCLUDED. DATA COVERS THE ENTIRE CHESAPEAKE BAY AND ALL TRIBUTARIES. GOAL IS TO MAKE DATA AVAILABLE FOR SECONDARY USERS. ONGOING ACCESSION PROCEDURE.

DATA AVAILABILITY:

PLATFORM TYPES:

ARCHIVE MEDIA:
MAGNETIC TAPE DIGITAL
7384 RETRIEVABLE STATIONS IN CHESAPEAKE BAY PROPER, 12937 RETRIEVABLE STATIONS IN TRIBUTARIES. MULTI DEPTHS PER STATION, SEVERAL PARAMETERS PER DEPTH.

FUNDING:

INVENTORY:

PUBLICATIONS:
2 DATA BANK REPORTS: 1) DATA BANK INVENTORY, VOL 1, CHESAPEAKE BAY TRIBUTARIES, EDITION 1,1949 THRU 1969, REFERENCE 72-4, DATA BANK REPORT 1; 2) DATA BANK INVERTORY, VOL 2, EDITION 1, 1949 THRU 1970, REFERENCE 73-5, DATA BANK REPORT 2

CONTACT:
CAROL FEISTER 207 781 2330
MAINE AUDUBON SOCIETY
GILSLAND FARM
FALMOUTH MAINE USA 04105

GRID LOCATOR (LAT):
730765 730766 730775 730776 730777 730785 730786 730787 730795 730796 730797

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP	20000 STATIONS			DATA FILE INCLUDES 7384 RETRIEVABLE OBSERVATIONS IN CHESAPEAKE BAY AND 12937 IN BAY TRIBUTARIES, EACH OBSERVATIO N MAY INCLUDE

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
							SEVERAL DEPTH SAMPLINGS AND PARAMETERS, DATA ON CONTINENTAL SHELF NOT INCLUDED IN SYSTEM AS OF JULY 1973
TIME	EARTH	STATION TIME	YMDHML	20000	STATIONS		DATA FILE INCLUDES 7384 RETRIEVABLE OBSERVATIONS IN CHESAPEAKE BAY AND 12937 IN BAY TRIBUTARIES, EACH OBSERVATIO N MAY INCLUDE SEVERAL DEPTH SAMPLINGS AND PARAMETERS, DATA ON CONTINENTAL SHELF NOT INCLUDED IN SYSTEM AS OF JULY 1973
TEMPERATURE	WATER	VARIOUS	DEG C	20000	OBS		FILES CONTAIN DATA COLLECTED BY CBI SINCE 1949, MUCH DATA PRESENTED IN THE CBI DATA REPORT SERIES FOR CRUISES, THE MASTER FILE IS ACCESSIBLE BY CRUISE, PARAMETER, TRIBUTARY, BAY PROPER, GRID LOCATION WITHIN TRIBUTARY OR BAY, ONLY PRIMARY WATER PARAMETERS LISTED IN THIS FILE, OTHER PARAMETERS WITH FEWER OBS

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
SALINITY	WATER	VARIOUS	PARTS PER THOUSAND	20000 OBS			ARE ACCESSIBLE IN SYSTEM FILES CONTAIN DATA COLLECTED BY CBI SINCE 1949, MUCH DATA PRESENTED IN THE CBI DATA REPORT SERIES FOR CRUISES, THE MASTER FILE IS ACCESSIBLE BY CRUISE, PARAMETER, TRIBUTARY, BAY PROPER, GRID LOCATION WITHIN TRIBUTARY OR BAY, ONLY PRIMARY WATER PARAMETERS LISTED IN THIS FILE, OTHER PARAMETERS WITH FEWER OBS ARE ACCESSIBLE IN SYSTEM
TOTAL CHLOROPHYL L	WATER	VARIOUS	MICROGRAMS PER LITER	20000 OBS			FILES CONTAIN DATA COLLECTED BY CBI SINCE 1949, MUCH DATA PRESENTED IN THE CBI DATA REPORT SERIES FOR CRUISES, THE MASTER FILE IS ACCESSIBLE BY CRUISE, PARAMETER, TRIBUTARY, BAY PROPER, GRID LOCATION WITHIN TRIBUTARY OR BAY, ONLY PRIMARY WATER PARAMETERS LISTED IN THIS FILE, OTHER PARAMETERS

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
DISSOLVED OXYGEN GAS	WATER	TITRATION	PARTS PER MILLION	20000 OBS			WITH FEWER OBS ARE ACCESSIBLE IN SYSTEM FILES CONTAIN DATA COLLECTED BY CBI SINCE 1949, MUCH DATA PRESENTED IN THE CBI DATA REPORT SERIES FOR CRUISES, THE MASTER FILE IS ACCESSIBLE BY CRUISE, PARAMETER, TRIBUTARY, BAY PROPER, GRID LOCATION WITHIN TRIBUTARY OR BAY, ONLY PRIMARY WATER PARAMETERS LISTED IN THIS FILE, OTHER PARAMETERS WITH FEWER OBS ARE ACCESSIBLE IN SYSTEM
PH	WATER	SPECIFIC ION ELECTRODE	PH UNITS	20000 OBS			FILES CONTAIN DATA COLLECTED BY CBI SINCE 1949, MUCH DATA PRESENTED IN THE CBI DATA REPORT SERIES FOR CRUISES, THE MASTER FILE IS ACCESSIBLE BY CRUISE, PARAMETER, TRIBUTARY, BAY PROPER, GRID LOCATION WITHIN TRIBUTARY OR BAY, ONLY PRIMARY WATER PARAMETERS LISTED IN THIS FILE, OTHER

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
ORTHOPHOSPHATE	WATER	SPECTROPHOTOMETRY	MICROGRAMS PER LITER	20000	OBS		PARAMETERS WITH FEWER OBS ARE ACCESSIBLE IN SYSTEM FILES CONTAIN DATA COLLECTED BY CBI SINCE 1949, MUCH DATA PRESENTED IN THE CBI DATA REPORT SERIES FOR CRUISES, THE MASTER FILE IS ACCESSIBLE BY CRUISE, PARAMETER, TRIBUTARY, BAY PROPER, GRID LOCATION WITHIN TRIBUTARY OR BAY, ONLY PRIMARY WATER PARAMETERS LISTED IN THIS FILE, OTHER PARAMETERS WITH FEWER OBS ARE ACCESSIBLE IN SYSTEM FILES CONTAIN DATA COLLECTED BY CBI SINCE 1949, MUCH DATA PRESENTED IN THE CBI DATA REPORT SERIES FOR CRUISES, THE MASTER FILE IS ACCESSIBLE BY CRUISE, PARAMETER, TRIBUTARY, BAY PROPER, GRID LOCATION WITHIN TRIBUTARY OR BAY, ONLY PRIMARY WATER PARAMETERS LISTED IN THIS
PHOSPHATE	WATER	SPECTROPHOTOMETRY	MICROGRAMS PER LITER	20000	OBS		

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
							FILE, OTHER PARAMETERS WITH FEWER OBS ARE ACCESSIBLE IN SYSTEM

DATA COLLECTED: APRIL 1955 TO PRESENT
RECEIVED: OCTOBER 05, 1973

PROJECTS:
CHESAPEAKE BAY INSTITUTE DATA BANK

GENERAL GEOGRAPHIC AREA:
U.S., NORTH ATLANTIC, CHESAPEAKE BAY, COASTAL, BACK RIVER, MARYLAND

ABSTRACT:
HYDRO DATA AND NUTRIENTS FOR BACK RIVER, MARYLAND ON CBI DATA BANK FROM APRIL 1955 THROUGH DECEMBER 1965, SEVEN GRIDS WITH DATA
(SUMMARY FROM CBI DATA BANK REPORT)

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
MAGNETIC TAPE DIGITAL
8 PARAMETERS, UP TO 74 OBS PER PARAMETER

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
CAROL FEISTER 207 781 2330
MAINE AUDUBON SOCIETY
GILSLAND FARM
FALMOUTH MAINE USA 04105

GRID LOCATOR (LAT):
730796

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP	74	STATIONS			
TIME	EARTH	STATION TIME	YM	74	STATIONS			
DEPTH	WATER	WIRE LENGTH	FEET	74	OBS		BOTTOM	INFORMATION FROM CBI DATA BANK REPORT 1
TEMPERATURE	WATER	THERMISTOR	DEG C	74	OBS		SURFACE TO BOTTOM	INFORMATION FROM CBI DATA BANK REPORT 1
SALINITY	WATER	CONDUCTIVITY	PARTS PER THOUSAND	74	OBS		SURFACE TO BOTTOM	INFORMATION FROM CBI DATA BANK REPORT 1
PH	WATER	SPECIFIC ION ELECTRODE	PH UNITS	59	OBS		SURFACE TO BOTTOM	INFORMATION FROM CBI DATA

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
DISSOLVED OXYGEN GAS	WATER	TITRATION	PARTS PER MILLION	59	OBS		SURFACE TO BOTTOM	BANK REPORT 1 INFORMATION FROM CBI DATA
ORTHOPHOSPHATE	WATER	SPECTROPHOTOMETRY	MICROGRAMS PER LITER	43	OBS		SURFACE TO BOTTOM	BANK REPORT 1 INFORMATION FROM CBI DATA
PHOSPHATE	WATER	SPECTROPHOTOMETRY	MICROGRAMS PER LITER	43	OBS		SURFACE TO BOTTOM	BANK REPORT 1 INFORMATION FROM CBI DATA
TOTAL CHLOROPHYL L	WATER	SPECTROPHOTOMETRY	MICROGRAMS PER LITER	43	OBS		SURFACE TO BOTTOM	BANK REPORT 1 INFORMATION FROM CBI DATA

DATA COLLECTED: JULY 1973 TO PRESENT
RECEIVED: NOVEMBER 07, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., CHESAPEAKE BAY, CHESTER RIVER MARYLAND

ABSTRACT:
MONTHLY WATER SAMPLES ARE OBTAINED FROM CHESTER RIVER BY CITIZENS OF CHESTERTOWN, MARYLAND REGION AND ARE MEASURED FOR WATER QUALITY BY USE OF A TEST KIT.

DATA AVAILABILITY:

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
DATA SHEETS
ONE FOLDER OF DATA SHEETS.

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
NANCY G DIMSDALE 301-268-8816
CHESAPEAKE BAY FOUNDATION
PRINCE GEORGE AND EAST STREETS
ANNAPOLIS MARYLAND USA 21404

GRID LOCATOR (LAT):
730796 730795

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP	6.	STATIONS		SHORELINE	
TIME	EARTH	STATION TIME	YMD	17	OBS	MONTHLY		
TEMPERATURE	AIR	MERCURY THERMOMETER	DEG F	17	OBS	MONTHLY		
TEMPERATURE	WATER	NON-REVERSING THERMOMETER	DEG F	17	OBS	MONTHLY		
PH	WATER	COLORIMETRY	PH UNITS	17	OBS	MONTHLY		
DISSOLVED OXYGEN GAS	WATER	TITRATION	MG O2 PER LITER	17	OBS	MONTHLY		
SALINITY	WATER	HYDROMETER	PARTS PER THOUSAND	17	OBS	MONTHLY		
ORTHOPHOSPHATE	WATER	COLORIMETRY	PARTS PER MILLION	17	OBS	MONTHLY		
NITRATE	WATER	COLORIMETRY	PARTS PER MILLION	17	OBS	MONTHLY		

DATA COLLECTED: APRIL 1972 TO NOVEMBER 1972
RECEIVED: NOVEMBER 07, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., CHESAPEAKE BAY, SPA CREEK, ANNAPOLIS, MARYLAND

ABSTRACT:
WATER QUALITY PARAMETERS WERE MEASURED IN SPA CREEK DURING 1972. AN ATTEMPT WAS MADE TO IDENTIFY THE TYPES AND, SOURCES OF POLLUTANTS AND TO QUANTIFY THE CONTRIBUTION FROM EACH SOURCE.
(DATA SUMMARIZED IN FINAL REPORT JULY 1973)

DATA AVAILABILITY:

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
DATA SHEETS
ONE FILE OF DATA SHEETS: ALSO FINAL REPORT.

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
NANCY G DIMSDALE 301-268-8816
CHESAPEAKE BAY FOUNDATION
PRINCE GEORGE AND EAST STREETS
ANNAPOLIS MARYLAND USA 21404

GRID LOCATOR (LAT):
730786

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP	10	STATIONS		SURFACE	FIVE STATIONS WERE IN CREEK, FIVE STATIONS AT STORM WATER DRAINAGE PIPES
TIME	EARTH	STATION TIME	YMD	410	OBS	TWICE A WEEK		
COUNT OF MICROBIOTA	WATER	VISUAL	CULTURE GROWTH (MPN)	510	OBS	TWICE A WEEK	SURFACE	TOTAL COLIFORM, FECAL COLIFORM
SALINITY	WATER	TITRATION	PARTS PER THOUSAND	410	OBS	TWICE A WEEK	SURFACE	
PH	WATER	COLORIMETRY	PH UNITS	410	OBS	TWICE A WEEK	SURFACE	
DISSOLVED OXYGEN GAS	WATER	TITRATION	PARTS PER MILLION	410	OBS	TWICE A WEEK	SURFACE	
NITRATE	WATER	COLORIMETRY	PARTS PER	230	OBS	TWICE A WEEK	SURFACE	HACH CHEMICAL

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
			MILLION					COLORIMETRIC FIELD UNIT; ANALYSES MADE ONLY FROM JULY THROUGH SEPT
NITRITE	WATER	COLORIMETRY	PARTS PER MILLION	230	OBS	TWICE A WEEK	SURFACE	HACH CHEMICAL COLORIMETRIC FIELD UNIT; ANALYSES MADE ONLY FROM JULY THROUGH SEPT
ORTHOPHOSPHATE	WATER	COLORIMETRY	PARTS PER MILLION	230	OBS	TWICE A WEEK	SURFACE	HACH CHEMICAL COLORIMETRIC FIELD UNIT; ANALYSES MADE ONLY FROM JULY THROUGH SEPT
UNREACTIVE PHOSPHATE	WATER	COLORIMETRY	PARTS PER MILLION	230	OBS	TWICE A WEEK	SURFACE	HACH CHEMICAL COLORIMETRIC FIELD UNIT; ANALYSES MADE ONLY FROM JULY THROUGH SEPT
PRECIPITATION AMOUNT	AIR	DIRECT	INCH	51	OBS	TWICE A WEEK		
RECREATION	WATER	BOATING	NUMBER	51	OBS	TWICE A WEEK		DIVIDED INTO SIZE CLASSES AND AREAS ALONG CREEK

DATA COLLECTED: JULY 1967 TO JUNE 1970
RECEIVED: NOVEMBER 14, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., CHESAPEAKE BAY, VIRGINIA

ABSTRACT:
EXTENSIVE HYDROGRAPHIC CHARACTERIZATION OF VIRGINIA ESTUARIES, NUTRIENT LEVELS, MINOR BIOLOGICAL CHARACTER DESCRIPTION. INTEREST IN LEVELS AND TRANSITION OF FACTORS IN VARIOUS SALINITIES WITHIN AN ESTUARY. COMPARISON OF WATER AND SEDIMENT PHASE IN TRANSPORT AND SINKS FOR NUTRIENTS.
(PROJECT NO. B 003 VA TO M L BREHMER)

DATA AVAILABILITY:
COST OF DUPLICATION

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
PUNCHED CARDS; REPORTS
1 3 DRAWER FILE CABINET, 60 PAGE SUMMARY REPORT

FUNDING:
OFFICE OF WATER RESOURCES RESEARCH

INVENTORY:

PUBLICATIONS:

CONTACT:
LIBRARIAN 804-642-2111
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT VIRGINIA USA 23062

GRID LOCATOR (LAT):
730766 730776

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	120	STATIONS			
TIME	EARTH	SAMPLING TIME	YMDHML	650	STATIONS			
DEPTH	WATER	WIRE LENGTH	METERS	650	OBS	MONTHLY	DISCRETE DEPTHS	DEPTHS FOR SAMPLING AND TOTAL DEPTH
SECCHI DISC DEPTH	WATER	AVERAGE DEPTH	METERS	650	OBS	MONTHLY		20 CENTIMETER DISC
TEMPERATURE	WATER	NON-REVERSING THERMOMETER	DEG C	3000	OBS	MONTHLY	2 METER INTERVALS SURFACE TO BOTTOM	
SALINITY	WATER	CONDUCTIVITY	PARTS PER	3000	OBS	MONTHLY	2 METER	BECKMAN RS 7 B

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
			THOUSAND				INTERVALS SURFACE TO BOTTOM	INDUCTION SALINOMETER
TOTAL ALKALINITY	WATER	TITRATION	PARTS PER MILLION CALCIUM CARBONATE	3000	OBS	MONTHLY	2 METER INTERVALS SURFACE TO BOTTOM	
PH	WATER	SPECIFIC ION ELECTRODE	PH UNITS	3000	OBS	MONTHLY	2 METER INTERVALS SURFACE TO BOTTOM	
DISSOLVED OXYGEN GAS	WATER	TITRATION	PARTS PER MILLION	1300	OBS	MONTHLY	1 METER AND BOTTOM MINUS 1 METER.	AZIDE MODIFICATION OF WINKLER METHOD
ORGANIC NITROGEN	DISSOLVED	SPECTROPHOTOMETRY	MICROGRAM ATOM PER LITER	288	OBS	MONTHLY	1 METER AND BOTTOM MINUS 1 METER	
ORGANIC NITROGEN	SUSPENDED	SPECTROPHOTOMETRY	MICROGRAM ATOM PER LITER	288	OBS	MONTHLY	1 METER AND BOTTOM MINUS 1 METER	
AMMONIA	WATER	SPECTROPHOTOMETRY	MICROGRAM ATOM PER LITER	288	OBS	MONTHLY	1 METER AND BOTTOM MINUS 1 METER	
NITRITE	WATER	SPECTROPHOTOMETRY	MICROGRAM ATOM PER LITER	288	OBS	MONTHLY	1 METER AND BOTTOM MINUS 1 METER	
NITRATE	WATER	SPECTROPHOTOMETRY	MICROGRAM ATOM PER LITER	288	OBS	MONTHLY	1 METER AND BOTTOM MINUS 1 METER	
REACTIVE PHOSPHATE	WATER	SPECTROPHOTOMETRY	MICROGRAM ATOM PER LITER	288	OBS	MONTHLY	1 METER AND BOTTOM MINUS 1 METER	SOLUBLE, PARTICULATE, AND TOTAL VALUES REPORTED
UNREACTIVE PHOSPHATE	WATER	SPECTROPHOTOMETRY	MICROGRAM ATOM PER LITER	288	OBS	MONTHLY	1 METER AND BOTTOM MINUS 1 METER	SOLUBLE, PARTICULATE, AND TOTAL VALUES REPORTED
PHOSPHORUS	WATER	SPECTROPHOTOMETRY	MICROGRAM ATOM PER LITER	288	OBS	MONTHLY	1 METER AND BOTTOM MINUS 1 METER	SOLUBLE, PARTICULATE, AND TOTAL VALUES REPORTED
AMMONIA	SEDIMENT	SPECTROPHOTOMETRY	MICROGRAM N PER GRAM	72	OBS	1 TIME	BOTTOM	3 SAMPLES PER 5 MILE INTERVAL, TOP 1 CENTIMETER
ORGANIC NITROGEN	SEDIMENT	SPECTROPHOTOMETRY	MICROGRAM N PER GRAM	72	OBS	1 TIME	BOTTOM	
NITRITE	SEDIMENT	SPECTROPHOTOMETRY	MICROGRAM N PER GRAM	72	OBS	1 TIME	BOTTOM	
NITRATE	SEDIMENT	SPECTROPHOTOMETRY	MICROGRAM N PER	72	OBS	1 TIME	BOTTOM	

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
PHOSPHORUS	SEDIMENT	SPECTROPHOTOMETRY	GRAM MICROGRAM P PER GRAM	72	OBS	1 TIME	BOTTOM	
ORGANIC CARBON	SEDIMENT	ASH WEIGHT	MICROGRAM C PER GRAM	24	OBS	1 TIME	BOTTOM	600 DEGREES C IGNITION
CHLOROPHYLL A	WATER	FLUOROMETRY	MICROGRAMS CHL A PER LITER	120	OBS	QUARTERLY	1 METER DEPTH	ACETONE EXTRACTION
COMMUNITY STRUCTURE ANALYSIS	WATER	CALCULATED	RANK ABUNDANCE COMMUNITY TYPE BY LIST OF DOMINANT ALGAE	120	OBS	QUARTERLY	1 METER DEPTH	RANK ABUNDANCE OF DIATOMS, CRYPTOMONAS DINOFLAGELLATES IN 120 ML LUGOL PRESERVED SAMPLE
COUNT OF PHYTOPLANKTON	WATER	MICROSCOPE	NUMBER PER GENUS PER SAMPLE, NUMBER INDIVIDUALS IN SAMPLE	120	OBS	QUARTERLY	1 METER DEPTH	
TAXONOMIC LIST OF PHYTOPLANKTON	WATER	KEY	GENERA LIST BY STATION AND SEASONAL	120	OBS	QUARTERLY	1 METER DEPTH	

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., CHESAPEAKE BAY

ABSTRACT:
167 SITES WERE INVESTIGATED FOR WATER QUALITY AT 8 UPPER CHESAPEAKE BAY SITES, 64 ESTUARIES AND 95 ESTUARINE TRIBUTARIES IN BALTIMORE, HARFORD, KENT, CECIL COUNTIES, MARYLAND DURING MAY AND JUNE 1972.

DATA AVAILABILITY:
ALSO AS SUMMARY REPORT

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
DATA SHEETS; MAGNETIC DISC
DATA IS MACHINE STORED ON SEVERAL COMPUTER TAPES AND RETRIEVABLE AS DATA SHEET PRINTOUT OR SUMMARY REPORT

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
C JAY O'DELL 301-267-5361
DEPARTMENT OF NATURAL RESOURCES, FISHERIES ADMINISTRATION
TAWES STATE OFFICE BUILDING
ANNAPOLIS MARYLAND USA 21401

GRID LOCATOR (LAT):
730796 730795

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	167	STATIONS			
TIME	EARTH	STATION TIME	YMD	167	OBS			8 CHESAPEAKE BAY, 64 ESTUARIES, 95 ESTUARINE TRIBUTARY SITES
DISSOLVED OXYGEN GAS	WATER	TITRATION	PARTS PER MILLION	167	OBS			
PH	WATER	SPECIFIC ION ELECTRODE	PH UNITS	167	OBS			
TOTAL ALKALINITY	WATER	TITRATION	MG PER LITER	167	OBS			
ELECTRICAL CONDUCTIVITY	WATER	LAB CONDUCTIVITY CELL	UMHOS/CM	167	OBS			

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
SALINITY	WATER	CONDUCTIVITY	PARTS PER THOUSAND	167	OBS			
LIGHT ATTENUATION	WATER	SPECTROPHOTOMETRY	PARTS PER MILLION	167	OBS			
TOTAL SOLIDS	WATER	DRY WEIGHT	PARTS PER MILLION	167	OBS			
BIOCHEMICAL OXYGEN DEMAND	WATER	TITRATION	MG PER LITER	167	OBS			
TEMPERATURE	WATER	THERMISTOR	DEG F	167	OBS			

DATA COLLECTED: DECEMBER 1970 TO DECEMBER 1970 RECEIVED: JANUARY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., CHESAPEAKE BAY, VIRGINIA, VIRGINIA BEACH, LYNNHAVEN

ABSTRACT:
MISSION W37, FLT. 1, DEC. 7, 1970, WITH WALLOPS STATION CHARTERED HELICOPTER EQUIPPED WITH 4 T-11 AERIAL CAMERAS IN COOPERATION WITH VA. BEACH HEALTH DEPT. OBJECTIVE - TO UTILIZE MULTI-CHANNEL PHOTOGRAPHY TO INVESTIGATE EFFECTS OF SEWAGE DISPOSAL IN ESTUARINE SYSTEMS. FLIGHT IN CLEAR WEATHER, SCATTERED CLOUDS, AIR TEMP. 8 DEG. C AT 4000 FT, MSL WITH WIND OF 25 KNOTS FROM 330 DEG.
(MISSION NO W37, FLT 1)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
152 9" X 9" FRAMES

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
PAUL ALFONSI 804-824-3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
730766

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	1	STATIONS			2 FLIGHT LINES
TIME	EARTH	SAMPLING TIME	YMDHML	2	STATIONS			
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PHOTOGRAPHS	152	OBS		4000 FT	6 INCH FOCAL LENGTH

DATA COLLECTED: MARCH 1969 TO MAY 1969

RECEIVED: NOVEMBER 19, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., CHESAPEAKE BAY, PATUXENT DRAINAGE

ABSTRACT:
80 STATIONS WERE INVESTIGATED IN 48 STREAMS WITHIN THE PATUXENT RIVER DRAINAGE TO DETERMINE USE BY FISH SPECIES DIVERSITY AND RELATIVE ABUNDANCE, AND WATER QUALITY.
(FISH OBSERVATIONS RECORDED DURING EPA WATER QUALITY SURVEY DATA AVAILABLE IN SUMMARY REPORT)

DATA AVAILABILITY:

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
DATA SHEETS
SEVERAL SMALL FILES OF DATA SHEETS. AVAILABLE ALSO IN SUMMARY REPORT.

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
C JAY O'DELL 301-267-5361
DEPARTMENT OF NATURAL RESOURCES, FISHERIES ADMINISTRATION
TAWES STATE OFFICE BUILDING
ANNAPOLIS MARYLAND USA 21401

GRID LOCATOR (LAT):
730796 730786

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	80	STATIONS			48 STREAMS IN PATUXENT DRAINAGE
TIME	EARTH	STATION TIME	YMD	200	STATIONS	MONTHLY		
SPECIES DETERMINATION OF PELAGIC FISH	WATER	KEY	SPECIES NAME	9	OBS			SMALL EXPLOSIVES USED SOMETIMES TO STUN FISH FOR VISUAL OBSERVATIONS
SPECIES DETERMINATION OF DEMERSAL FISH	WATER	KEY	SPECIES NAME	49	OBS			SMALL EXPLOSIVES USED SOMETIMES TO STUN FISH FOR VISUAL

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
								OBSERVATIONS
TEMPERATURE	WATER	THERMISTOR	DEG F	200	OBS			
PH	WATER	SPECIFIC ION ELECTRODE	PH UNITS	200	OBS			
ELECTRICAL CONDUCTIVITY	WATER	IN SITU CONDUCTIVITY CELL	UMHOS/CM	200	OBS			
SALINITY	WATER	CONDUCTIVITY	PARTS PER THOUSAND	200	OBS			
LIGHT ATTENUATION	WATER	SPECTROPHOTOMETRY	PARTS PER MILLION	200	OBS			
DISSOLVED OXYGEN GAS	WATER	TITRATION	PARTS PER MILLION	200	OBS			

DATA COLLECTED: MARCH 1969 TO MAY 1969

RECEIVED: NOVEMBER 19, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., CHESAPEAKE BAY, MARYLAND DRAINAGES

ABSTRACT:
456 STREAMS IN FORTY-THREE DRAINAGE SYSTEMS IN EIGHTEEN TIDEWATER, MARYLAND. COUNTIES WERE INVESTIGATED FOR WATER QUALITY AND SPAWNING USE BY ANADROMOUS FISH SPECIES.
(DATA AVAILABLE IN SUMMARY REPORT; STATE-WIDE DRAINAGES ACCESSIBLE TO TIDEWATER WERE STUDIED)

DATA AVAILABILITY:

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
DATA SHEETS
SEVERAL NOTEBOOKS OF DATA SHEETS AND A SUMMARY REPORT.

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
C JAY O'DELL 301-267-5361
DEPARTMENT OF NATURAL RESOURCES, FISHERIES ADMINISTRATION
TAWES STATE OFFICE BUILDING
ANNAPOLIS MARYLAND USA 21401

GRID LOCATOR (LAT):
730796 730786 730785 730795

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	456	STATIONS			43 DRAINAGE SYSTEMS IN 18 TIDEWATER MARYLAND COUNTIES
TIME	EARTH	STATION TIME	YMD	1941	OBS			952 INVESTIGATIONS IN THE PATUXENT RIVER SYSTEM
SPECIES DETERMINATION OF PELAGIC FISH	WATER	KEY	NUMBER OF SPECIES	9	OBS			SMALL EXPLOSIVES USED SOMETIMES TO STUN FISH FOR VISUAL

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
SPECIES DETERMINATION OF DEMERSAL FISH	WATER	KEY	NUMBER OF SPECIES	49	OBS			OBSERVATIONS SMALL EXPLOSIVES USED SOMETIMES TO STUN FISH FOR VISUAL OBSERVATIONS
TEMPERATURE	WATER	THERMISTOR	DEG F	1941	OBS			
PH	WATER	SPECIFIC ION ELECTRODE	PH UNITS	1941	OBS			
ELECTRICAL CONDUCTIVITY	WATER	IN SITU CONDUCTIVITY CELL	UMHOS/CM	1941	OBS			
SALINITY	WATER	CONDUCTIVITY	PARTS PER THOUSAND	1941	OBS			
LIGHT ATTENUATION	WATER	SPECTROPHOTOMETRY	PARTS PER MILLION	1941	OBS			
DISSOLVED OXYGEN GAS	WATER	TITRATION	PARTS PER MILLION	1941	OBS			
BIOCHEMICAL OXYGEN DEMAND	WATER	TITRATION	PARTS PER MILLION	1941	OBS			

DATA COLLECTED: MARCH 1970 TO JUNE 1970

RECEIVED: NOVEMBER 19, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., CHESAPEAKE BAY

ABSTRACT:
180 STREAMS IN THIRTY MARYLAND RIVER SYSTEMS WERE INVESTIGATED FOR WATER QUALITY AND SPAWNING USE BY ANADROMOUS FISH SPECIES. (STATE-WIDE DRAINAGES ACCESSIBLE TO TIDEWATER WERE STUDIED; DATA AVAILABLE IN SUMMARY REPORT)

DATA AVAILABILITY:

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
DATA SHEETS
SEVERAL NOTEBOOKS OF DATA SHEETS AND A SUMMARY REPORT.

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
C JAY O'DELL 301-267-5361
DEPARTMENT OF NATURAL RESOURCES, FISHERIES ADMINISTRATION
TAWES STATE OFFICE BUILDING
ANNAPOLIS MARYLAND USA 21401

GRID LOCATOR (LAT):
730796 730795 730786 730785

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	180	STATIONS			30 RIVER SYSTEMS
TIME	EARTH	STATION TIME	YMD	1860	OBS			DIVIDED INTO 3 REGIONS
SPECIES DETERMINATION OF PELAGIC FISH	WATER	KEY	NUMBER OF SPECIES	9	OBS			WIRE FISH TRAPS USED TO CAPTURE FISH
SPECIES DETERMINATION OF DEMERSAL FISH	WATER	KEY	NUMBER OF SPECIES	49	OBS			WIRE FISH TRAPS USED TO CAPTURE FISH
TEMPERATURE	WATER	THERMISTOR	DEG F	1860	OBS			
PH	WATER	SPECIFIC ION	PH UNITS	1860	OBS			

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
ELECTRICAL CONDUCTIVITY	WATER	ELECTRODE IN SITU CONDUCTIVITY CELL	UMHOS/CM	1860	OBS			
SALINITY	WATER	CONDUCTIVITY	PARTS PER THOUSAND	1860	OBS			
LIGHT ATTENUATION	WATER	SPECTROPHOTOMETRY	PARTS PER MILLION	1860	OBS			
DISSOLVED OXYGEN GAS	WATER	TITRATION	PARTS PER MILLION	1860	OBS			
BIOCHEMICAL OXYGEN DEMAND	WATER	TITRATION	PARTS PER MILLION	1860	OBS			

WATER QUALITY

DATA COLLECTED: AUGUST 1968 TO OCTOBER 1968

RECEIVED: NOVEMBER 19, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., CHESAPEAKE BAY, CHESTER RIVER DRAINAGE

ABSTRACT:
WATER QUALITY DATA WAS OBTAINED FOR 141 SITES WITHIN THE CHESTER RIVER DRAINAGE, IN MARYLAND, CHOSEN AS A PILOT STUDY AREA. (PILOT STUDY AREA FOR AFC-3; DATA AVAILABLE IN SUMMARY REPORT)

DATA AVAILABILITY:

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
DATA SHEETS
ONE NOTEBOOK OF DATA SHEETS AND A SUMMARY REPORT.

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
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TAWES STATE OFFICE BUILDING
ANNAPOLIS MARYLAND USA 21401

GRID LOCATOR (LAT):
730796 730795 730786

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	141	STATIONS			62 STREAMS COMPRISING 18 DRAINAGES PRIMARY TO CHESTER RIVER
TIME	EARTH	STATION TIME	YMD	141	OBS			AVERAGE STREAM WIDTHS AND MIDDLE DEPTHS TAKEN AT SAMPLING SITES
TEMPERATURE	WATER	RESISTANCE THERMOMETER	DEG F	141	OBS			
DISSOLVED OXYGEN GAS	WATER	TITRATION	PARTS PER MILLION	141	OBS			

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
PH	WATER	COLORIMETRY	PH UNITS	141	OBS			
LIGHT ATTENUATION	WATER	SPECTROPHOTOMETRY	PARTS PER MILLION	141	OBS			
TOTAL ALKALINITY	WATER	TITRATION	PARTS PER MILLION	141	OBS			
ELECTRICAL CONDUCTIVITY	WATER	IN SITU CONDUCTIVITY CELL	UHOS/CM	141	OBS			
SALINITY	WATER	CONDUCTIVITY	PARTS PER THOUSAND	141	OBS			

POTOMAC RIVER

DATA COLLECTED: JANUARY 1971 TO JUNE 1971

RECEIVED: NOVEMBER 19, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., CHESAPEAKE, POTOMAC RIVER

ABSTRACT:
SURFACE AND SUBSURFACE WATER SAMPLES WERE TAKEN AT 27 STATIONS ALONG THE POTOMAC RIVER FROM JANUARY TO JUNE 1971, AND ANALYSED FOR VARIOUS WATER QUALITY PARAMETERS.
(ALSO IN A SUMMARY REPORT)

DATA AVAILABILITY:

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
DATA SHEETS; MAGNETIC DISC
SEVERAL FILES OF DATA SHEETS ARE CURRENTLY BEING TRANSFERRED TO COMPUTER TAPES. ALSO AVAILABLE AS A SUMMARY REPORT.

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
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TAWES STATE OFFICE BUILDING
ANNAPOLIS MARYLAND USA 21401

GRID LOCATOR (LAT):
730787 730786 730776

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	27	STATIONS			
TIME	EARTH	STATION TIME	YMD	189	OBS			SAMPLING FREQUENCY VARIES WITH EACH STATION; SURFACE AND SUBSURFACE
TEMPERATURE	WATER	THERMISTOR	DEG C	189	OBS			
CHLOROPHYLL A	WATER	FLUOROMETRY	MG/L	189	OBS			
SALINITY	WATER	TITRATION	PARTS PER THOUSAND	189	OBS			
SECCHI DISC DEPTH	WATER	DISAPPEARING DEPTH	INCHES	189	OBS			

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
PHOSPHATE	WATER	SPECTROPHOTOMETRY	MG/L	189	OBS			
ORTHOPHOSPHATE	WATER	SPECTROPHOTOMETRY	MG/L	189	OBS			.KJELDAHL NITROGEN S-WATER M-TITRATION U-MG/L T-OBS Q-189 F- H- R-
NITRATE PLUS NITRITE	WATER	SPECTROPHOTOMETRY	MG/L	189	OBS			
AMMONIA	WATER	SPECTROPHOTOMETRY	MG/L	189	OBS			
DISSOLVED OXYGEN GAS	WATER	TITRATION	MG/L	189	OBS			
ORGANIC CARBON	WATER	WET COMBUSTION/ INFRARED SPECTROMETRY	MG/L	189	OBS			

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RIVER TRIBUTARIES

DATA COLLECTED: MAY 1971 TO MAY 1971

RECEIVED: NOVEMBER 19, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., CHESAPEAKE BAY, POTOMAC RIVER

ABSTRACT:
SURFACE WATER SAMPLES WERE TAKEN FROM 136 SITES ALONG 85 TRIBUTARIES IN THE POTOMAC RIVER DRAINAGE, DURING MAY, 1971, TO ACCESS WATER QUALITY CHARACTERISTICS WHICH MIGHT AFFECT SPAWNING ACTIVITIES.
(ALSO IN SUMMARY REPORT)

DATA AVAILABILITY:

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
DATA SHEETS; MAGNETIC DISC
ONE FILE OF DATA SHEETS ARE CURRENTLY BEING TRANSFERRED TO COMPUTER TAPE. ALSO AVAILABLE AS SUMMARY REPORT.

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
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ANNAPOLIS MARYLAND USA 21401

GRID LOCATOR (LAT):
730787 730786 730776

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	135	STATIONS			
TIME	EARTH	STATION TIME	YMD	136	OBS			
PH	WATER	SPECIFIC ION ELECTRODE	PH UNITS	136	OBS			
TEMPERATURE	WATER	THERMISTOR	DEG C	136	OBS			
ELECTRICAL CONDUCTIVITY	WATER	LAB CONDUCTIVITY CELL	UMHOS/CM	136	OBS			
SALINITY	WATER	CONDUCTIVITY	PARTS PER THOUSAND	136	OBS			
DISSOLVED OXYGEN GAS	WATER	TITRATION	PARTS PER MILLION	136	OBS			
LIGHT ATTENUATION	WATER	SPECTROPHOTOMETRY	PARTS PER MILLION	136	OBS			

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
TOTAL SOLIDS	WATER	DRY WEIGHT	PARTS PER MILLION	136	OBS			

DATA COLLECTED: MAY 1973 TO JUNE 1973

RECEIVED: NOVEMBER 19, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., CHESAPEAKE BAY, MARYLAND

ABSTRACT:
300 SITES WITHIN 100 STREAMS OF THE MAGOTHY, PATAPSCO, BACK, MIDDLE RIVER DRAINAGES, MARYLAND, WERE INVESTIGATED FOR WATER QUALITY.
(ALSO IN SUMMARY REPORT)

DATA AVAILABILITY:

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
MAGNETIC DISC
SEVERAL NOTEBOOKS OF DATA FORMS ARE STORED ON COMPUTER TAPE.

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
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DEPARTMENT OF NATURAL RESOURCES, FISHERIES ADMINISTRATION
TAWES STATE OFFICE BUILDING
ANNAPOLIS MARYLAND USA 21401

GRID LOCATOR (LAT):
730796

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	300	STATIONS			100 STREAMS, THREE SITES PER STREAM
TIME	EARTH	STATION TIME	YMD	300	STATIONS			
TEMPERATURE	WATER	THERMISTOR	DEG C	300	OBS			
ELECTRICAL CONDUCTIVITY	WATER	IN SITU CONDUCTIVITY CELL	UMHOS/CM	300	OBS			
SALINITY	WATER	CONDUCTIVITY	PARTS PER THOUSAND	300	OBS			
DISSOLVED OXYGEN GAS	WATER	TITRATION	MG PER LITER	300	OBS			
PH	WATER	SPECIFIC ION	PH UNITS	300	OBS			

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
TOTAL ALKALINITY	WATER	ELECTRODE TITRATION	MG PER LITER	300	OBS			
TOTAL SOLIDS	WATER	DRY WEIGHT	PH	300	OBS			
BIOCHEMICAL OXYGEN DEMAND	WATER	TITRATION	MG PER LITER	300	OBS			
LIGHT ATTENUATION	WATER	SPECTROPHOTOMETRY	MG PER LITER	300	OBS			

DATA COLLECTED: JANUARY 1965 TO PRESENT
RECEIVED: MAY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., CHESAPEAKE BAY, MARYLAND

ABSTRACT:
REPORTED FISH KILLS IN MARYLAND WATERS, WATER ANALYSIS, ANALYSIS OF FISH FOR CAUSE OF DEATH, DATA FROM 221 KILLS, 72 IN 1973 THROUGH OCTOBER 11. COUNTS, SIZES, SPECIES LISTS, VALUES FOR FISHES INVOLVED.
(SUMMARY SHEETS BY YEAR WITH DATE, LOCATION, SPECIES, PROBABLE CAUSE OF KILL)

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
DATA SHEETS; REPORTS
1 FILE CABINET DRAWER

FUNDING:
MD DEPT NAT RES

INVENTORY:

PUBLICATIONS:

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TAWES STATE OFFICE BUILDING
ANNAPOLIS MARYLAND USA 21401

GRID LOCATOR (LAT):
730785 730787 730795 730797

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP	221 STATIONS			
TIME	EARTH	STATION TIME	YMDHML	221 STATIONS			
TEMPERATURE	WATER	THERMISTOR	DEG C	500 OBS			USUALLY SURFACE, SOME PROFILES
TEMPERATURE	WATER	NON-REVERSING THERMOMETER	DEG C	500 OBS			USUALLY SURFACE, SOME PROFILES
DISSOLVED OXYGEN GAS	WATER	SPECIFIC ION ELECTRODE	PARTS PER MILLION	1000 OBS			YSI PROBE MODEL 51, PROFILE READINGS
DISSOLVED OXYGEN GAS	WATER	TITRATION	PARTS PER MILLION	1000 OBS		AZIDE MODIFICATION	PROFILES MADE

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PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
							WINKLER, PROFILE READINGS .N- SALINITY S- WATER M- CONDUCTIVITY U-PARTS PER THOUSAND T- OBS Q-1000 F- H-	
SALINITY	WATER	HYDROMETER	PARTS PER THOUSAND	100	OBS			PROFILES MADE
PH	WATER	SPECIFIC ION ELECTRODE	PH UNITS	1000	OBS			WATER RESOURCES ADMINISTRATION OF DEPARTMENT RUNS ANALYSES FOR PH, TOTAL ALKALINITY, HARDNESS, CYANIDE, PHENOLS, AMMONIA, METALS, PESTICIDES; SOME ANALYSES BY EPA LABORATORY
TOTAL ALKALINITY	WATER	TITRATION	PARTS PER MILLION	1000	OBS			
HARDNESS	WATER	EDTA TITRATION	PARTS PER MILLION	1000	OBS			
CYANIDE	WATER	TITRATION	COLORIMETRY	100	OBS			
PHENOLS	WATER	COLORIMETRY	COLORIMETRY	100	OBS			
AMMONIA	WATER	SPECTROPHOTOMETRY	COLORIMETRY	100	OBS			
ZINC	WATER	ATOMIC ABSORPTION SPECTROMETRY	COLORIMETRY	100	OBS			
NICKEL	WATER	ATOMIC ABSORPTION SPECTROMETRY	COLORIMETRY	100	OBS			
CADMIUM	WATER	ATOMIC ABSORPTION SPECTROMETRY	COLORIMETRY	100	OBS			
CHROMIUM	WATER	ATOMIC ABSORPTION SPECTROMETRY	COLORIMETRY	100	OBS			
COPPER	WATER	ATOMIC ABSORPTION SPECTROMETRY	COLORIMETRY	100	OBS			
IRON	WATER	ATOMIC ABSORPTION SPECTROMETRY	COLORIMETRY	100	OBS			
MERCURY	WATER	ATOMIC ABSORPTION SPECTROMETRY	COLORIMETRY	30	OBS			SPECIAL REQUEST IF SUSPECTED POLLUTANT
POLYCHLORINATED BIPHENYLS	WATER	GAS CHROMATOGRAPHY	PARTS PER BILLION	30	OBS			SPECIAL REQUEST IF SUSPECTED POLLUTANT
DDT	WATER	GAS CHROMATOGRAPH	PARTS PER	30	OBS			SPECIAL REQUEST

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
		Y	BILLION					IF SUSPECTED POLLUTANT
DDD	WATER	GAS CHROMATOGRAPH Y	PARTS PER BILLION	30	OBS			SPECIAL REQUEST IF SUSPECTED POLLUTANT
DDE	WATER	GAS CHROMATOGRAPH Y	PARTS PER BILLION	30	OBS			SPECIAL REQUEST IF SUSPECTED POLLUTANT
DIELDRIN	WATER	GAS CHROMATOGRAPH Y	PARTS PER BILLION	30	OBS			SPECIAL REQUEST IF SUSPECTED POLLUTANT
ALDRIN	WATER	GAS CHROMATOGRAPH Y	PARTS PER BILLION	30	OBS			SPECIAL REQUEST IF SUSPECTED POLLUTANT
CHLORDANE	WATER	GAS CHROMATOGRAPH Y	PARTS PER BILLION	30	OBS			SPECIAL REQUEST IF SUSPECTED POLLUTANT
HEPTACHLOR	WATER	GAS CHROMATOGRAPH Y	PARTS PER BILLION	30	OBS			SPECIAL REQUEST IF SUSPECTED POLLUTANT
COUNT OF PELAGIC FISH	WATER	VISUAL	TOTAL NUMBER, NUMBER PER SPECIES	221	OBS			COUNT ALL FISH IN AN AREA, EXPANDED TO TOTAL AREA OF KILL, SHORELINE AND WATER SURFACE COUNT
COUNT OF DEMERSAL FISH	WATER	VISUAL	TOTAL NUMBER, NUMBER PER SPECIES	221	OBS			COUNT ALL FISH IN AN AREA, EXPANDED TO TOTAL AREA OF KILL, SHORELINE AND WATER SURFACE COUNT
SPECIES DETERMINATION OF PELAGIC FISH	WATER	KEY	NUMBER OF SPECIES IN KILL	221	OBS			
SPECIES DETERMINATION OF DEMERSAL FISH	WATER	KEY	NUMBER OF SPECIES IN KILL	221	OBS			
LENGTH OF PELAGIC FISH	WATER	TOTAL LENGTH	ONE-TENTH INCH	221	OBS			SUMMARIZED IN 2 INCH GROUPS FOR VALUE ESTIMATE
LENGTH OF DEMERSAL FISH	WATER	TOTAL LENGTH	ONE-TENTH INCH	221	OBS			SUMMARIZED IN 2 INCH GROUPS FOR VALUE ESTIMATE
CYANIDE IN BIO MATERIAL	WATER	TITRATION	PARTS PER MILLION	30	OBS			GILLS, VISCERA, AND MUSCLE OF DEAD AND

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
								MORIBUND FISH
PHENOLS IN BIO MATERIAL	WATER	COLORIMETRY	PARTS PER MILLION	30	OBS			
ZINC IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	30	OBS			
CADMIUM IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	30	OBS			
CHROMIUM IN BIO MATERIAL	WATER	GAMMA RAY SPECTROMETRY	PARTS PER MILLION	30	OBS			
IRON IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	30	OBS			
COPPER IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	30	OBS			
MERCURY IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	30	OBS			
DDD IN BIO MATERIAL	WATER	GAS CHROMATOGRAPHY	PARTS PER BILLION	30	OBS			
DDE IN BIO MATERIAL	WATER	GAS CHROMATOGRAPHY	PARTS PER BILLION	30	OBS			
DDT IN BIO MATERIAL	WATER	GAS CHROMATOGRAPHY	PARTS PER BILLION	30	OBS			
DIELDRIN IN BIO MATERIAL	WATER	GAS CHROMATOGRAPHY	PARTS PER BILLION	30	OBS			
ALDRIN IN BIO MATERIAL	WATER	GAS CHROMATOGRAPHY	PARTS PER BILLION	30	OBS			
CHLORDANE IN BIO MATERIAL	WATER	GAS CHROMATOGRAPHY	PARTS PER BILLION	30	OBS			
HEPTACHLOR IN BIO MATERIAL	WATER	GAS CHROMATOGRAPHY	PARTS PER BILLION	30	OBS			

PROJECTS:
FISH COMMUNITIES OF SUSQUEHANNA RIVER

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, U.S., CHESAPEAKE BAY, MARYLAND, COASTAL, SUSQUEHANNA RIVER

ABSTRACT:
PHYSICAL AND CHEMICAL DATA FROM 17 STATIONS OVER A 2 YEAR PERIOD IN THE SUSQUEHANNA RIVER AND SUSQUEHANNA FLATS. DATA RELATED TO FISH POPULATIONS AND DISTRIBUTIONS. COLLECTIONS AT 2 WEEK INTERVALS REPORTED AS MONTHLY AVERAGE FOR EACH STATION.

DATA AVAILABILITY:
COST OF DUPLICATION

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
MAGNETIC TAPE DIGITAL; REPORTS
1 MAGNETIC TAPE REEL

FUNDING:
NMFS DEPARTMENT OF COMMERCE, BSFW DEPARTMENT OF INTERIOR, AND MARYLAND DNR

INVENTORY:

PUBLICATIONS:
ANNUAL PROJECT PROGRESS REPORTS MARYLAND AFCS 1-1,2,3

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TAWES STATE OFFICE BUILDING
ANNAPOLIS MARYLAND USA 21401

GRID LOCATOR (LAT):
730795 730796

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP	408	STATIONS			
TIME	EARTH	STATION TIME	YMDHL	408	STATIONS			
TEMPERATURE	WATER	THERMISTOR	DEG C	408	OBS	2 WEEK INTERVALS	SURFACE AND BOTTOM	YSI MODEL 54
DISSOLVED OXYGEN GAS	WATER	SPECIFIC ION ELECTRODE	PARTS PER MILLION	408	OBS	2 WEEK INTERVALS	SURFACE AND BOTTOM	YSI MODEL 54
ELECTRICAL CONDUCTIVITY	WATER	IN SITU CONDUCTIVITY CELL/TEMPERATURE CORRECTED	MICROMHO	408	OBS	2 WEEK INTERVALS	SURFACE AND BOTTOM	BECKMAN RS 5
SULFATE	WATER	COLORIMETRY	PARTS PER	408	OBS	2 WEEK	SURFACE AND	HACH KIT TEST

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PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
			MILLION			INTERVALS	BOTTOM	
PH	WATER	SPECIFIC ION ELECTRODE	PH UNITS	408	OBS	2 WEEK INTERVALS	SURFACE AND BOTTOM	BECKMAN LAB MODEL
PHOSPHATE	WATER	COLORIMETRY	PARTS PER BILLION	408	OBS	2 WEEK INTERVALS	SURFACE AND BOTTOM	HACH KIT TEST
HARDNESS	WATER	EDTA TITRATION	PARTS PER MILLION	408	OBS	2 WEEK INTERVALS	SURFACE AND BOTTOM	HACH KIT TEST
TOTAL ALKALINITY	WATER	TITRATION	PARTS PER MILLION	408	OBS	2 WEEK INTERVALS	SURFACE AND BOTTOM	HACH KIT TEST
LIGHT ATTENUATIO N	WATER	SPECTROPHOTOMETRY	JACKSON CANDLE UNITS	408	OBS	2 WEEK INTERVALS	SURFACE AND BOTTOM	HELLIGE MACHINE
SECCHI DISC DEPTH	WATER	AVERAGE DEPTH	0 PT 1 METERS	408	OBS	2 WEEK INTERVALS		
DEPTH	WATER	UNCORRECTED SOUNDING DEPTH BASED ON 4800 FT/SEC	FEET	408	OBS	2 WEEK INTERVALS	BOTTOM	
BOTTOM TYPE	BOTTOM	VISUAL	MUD, SAND, SHELL, MIXED	408	OBS	2 WEEK INTERVALS	BOTTOM	

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DATA COLLECTED: JUNE 1971 TO NOVEMBER 1972 RECEIVED: JANUARY 01, 1976

PROJECTS:
FISH POPULATIONS AND WETLAND TYPES

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, U.S., CHESAPEAKE BAY, MARYLAND, COASTAL, CHOPTANK RIVER

ABSTRACT:
PHYSICAL AND CHEMICAL DATA FOR 4 STATIONS AT 2 WEEK INTERVALS BETWEEN JUNE AND NOVEMBER OF 1971 AND 1972 IN THE CHOPTANK RIVER SYSTEM, MARYLAND. DATA BASE FILED AND CROSS INDEX WITH FISH COMMUNITY DATA. REPORTED AS MONTHLY AVERAGE FOR EACH PARAMETER

DATA AVAILABILITY:
COST OF DUPLICATION

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
MAGNETIC TAPE DIGITAL; REPORTS
1 REEL MAGNETIC TAPE

FUNDING:
BSFW BOSTON OFFICE DEPARTMENT OF INTERIOR AND MARYLAND DNR

INVENTORY:

PUBLICATIONS:
ANNUAL PROJECT PROGRESS REPORT MD AFS 7-

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ANNAPOLIS MARYLAND USA 21401

GRID LOCATOR (LAT):
730785 730786

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP	96	STATIONS			
TIME	EARTH	STATION TIME	YMDHL	96	STATIONS			
TEMPERATURE	WATER	THERMISTOR	DEG C	192	OBS	2 TIMES PER MONTH	SURFACE AND BOTTOM	BECKMAN RS5
SALINITY	WATER	CONDUCTIVITY	PARTS PER THOUSAND	192	OBS	2 TIMES PER MONTH	SURFACE AND BOTTOM	BECKMAN RS5
DISSOLVED OXYGEN GAS	WATER	SPECIFIC ION ELECTRODE	PARTS PER MILLION	192	OBS	2 TIMES PER MONTH	SURFACE AND BOTTOM	YSI MODEL 54
SULFATE	WATER	COLORIMETRY	PARTS PER MILLION	192	OBS	2 TIMES PER MONTH	SURFACE AND BOTTOM	HACH KIT TEST
PH	WATER	SPECIFIC ION	PH UNITS	192	OBS	2 TIMES PER	SURFACE AND	BECKMAN LAB

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
PHOSPHATE	WATER	ELECTRODE COLORIMETRY	PARTS PER BILLION	192	OBS	MONTH 2 TIMES PER MONTH	BOTTOM SURFACE AND BOTTOM	MODEL HACH KIT TEST
HARDNESS	WATER	EDTA TITRATION	PARTS PER MILLION	192	OBS	2 TIMES PER MONTH	SURFACE AND BOTTOM	
TOTAL ALKALINITY	WATER	TITRATION	PARTS PER MILLION	192	OBS	2 TIMES PER MONTH	SURFACE AND BOTTOM	
LIGHT ATTENUATION	WATER	SPECTROPHOTOMETRY	PARTS PER MILLION AS SILICON DIOXIDE	192	OBS	2 TIMES PER MONTH	SURFACE AND BOTTOM	HELLIGE
SECCHI DISC DEPTH	WATER	AVERAGE DEPTH	0 PT 1 METERS	192	OBS	2 TIMES PER MONTH		
DEPTH	WATER	UNCORRECTED SOUNDING DEPTH BASED ON 4800 FT/SEC	FEET	192	OBS	2 TIMES PER MONTH	BOTTOM	
BOTTOM TYPE	BOTTOM	VISUAL	SAND, MUD, SHELL, MIXED	192	OBS	2 TIMES PER MONTH	BOTTOM	

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PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, U.S., CHESAPEAKE BAY, COASTAL, MARYLAND, EASTERN SHORE

ABSTRACT:
EXTENSIVE DATA BASE ON 19 CHANNELIZED STREAMS INCLUDING WATER CHEMISTRY, BENTHOS, AND FISHES. COMPARISONS ACROSS STREAMS BASED UPON TIME SINCE CHANNELIZED. DETERMINATION OF RECOVERY TIME AND SEQUENCE OF BIOTA AND CHEMICAL FACTORS.

DATA AVAILABILITY:
WITH REQUEST AND COST OF DUPLICATION

PLATFORM TYPES:

ARCHIVE MEDIA:
DATA SHEETS
2 STANDARD FILE DRAWERS

FUNDING:
BSFW DINGELL-JOHNSON ACT AND MARYLAND DNR, PROJECT MD F 24 R

INVENTORY:

PUBLICATIONS:

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MARYLAND DEPARTMENT OF NATURAL RESOURCES
TAWES STATE OFFICE BUILDING
ANNAPOLIS MARYLAND USA 21401

GRID LOCATOR (LAT):
730785 730786 730796

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP	648	STATIONS			
TIME	EARTH	STATION TIME	YMDHL	648	STATIONS			
TEMPERATURE	WATER	THERMISTOR	DEG C	1296	OBS	2 TIMES PER MONTH	SURFACE AND BOTTOM	BECKMAN RS-5
SALINITY	WATER	CONDUCTIVITY	PARTS PER THOUSAND	1296	OBS	2 TIMES PER MONTH	SURFACE AND BOTTOM	BECKMAN RS-5
DISSOLVED OXYGEN GAS	WATER	SPECIFIC ION ELECTRODE	PARTS PER MILLION	1296	OBS	2 TIMES PER MONTH	SURFACE AND BOTTOM	YSI MODEL 54
SULFATE	WATER	COLORIMETRY	PARTS PER MILLION	1296	OBS	2 TIMES PER MONTH	SURFACE AND BOTTOM	HACH KIT TEST
PH	WATER	SPECIFIC ION ELECTRODE	PH UNITS	1296	OBS	2 TIMES PER MONTH	SURFACE AND BOTTOM	BECKMAN LAB MODEL
PHOSPHATE	WATER	COLORIMETRY	PARTS PER MILLION	1296	OBS	2 TIMES PER MONTH	SURFACE AND BOTTOM	HACH KIT TEST

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PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
HARDNESS	WATER	EDTA TITRATION	PARTS PER MILLION	1296	OBS	2 TIMES PER MONTH	SURFACE AND BOTTOM	
TOTAL ALKALINITY	WATER	TITRATION	PARTS PER MILLION	1296	OBS	2 TIMES PER MONTH	SURFACE AND BOTTOM	
LIGHT ATTENUATION	WATER	SPECTROPHOTOMETRY	PARTS PER MILLION AS SILICON DIOXIDE	1296	OBS	2 TIMES PER MONTH	SURFACE AND BOTTOM	HELLIGE
SECCHI DISC DEPTH	WATER	AVERAGE DEPTH	0 PT 1 METERS	1296	OBS	2 TIMES PER MONTH		
DEPTH	WATER	WIRE LENGTH	FEET	1296	OBS	2 TIMES PER MONTH	BOTTOM	
BOTTOM TYPE	BOTTOM	VISUAL	SAND, MUD, SHELL, MIXED	1296	OBS	2 TIMES PER MONTH	BOTTOM	
BATHYMETRY	WATER	LEAD LINE	CROSS SECTION AREA IN SQ FT	540	OBS			STREAM PROFILE
WEIGHT OF BENTHIC PLANTS	BOTTOM	WET WEIGHT	PER SQ FT PER TRANSECT	540	OBS	2 TIMES		SAMPLE EVERY THIRD FOOT ON TRANSECT
COUNT OF BENTHIC PLANTS	BOTTOM	VISUAL	INTERCEPTED INCHES ON TRANSECT	540	OBS	2 TIMES	BOTTOM	10 TRANSECTS ON 27 STREAMS
CURRENT SPEED	WATER	IMPELLOR METER	FT PER SECOND	540	OBS	2 TIMES		SEASONAL READINGS
COUNT OF BENTHIC ANIMALS	BOTTOM	VISUAL	AVERAGE NUMBER PER AREA	540	OBS	2 TIMES		SMALL PETERSEN GRAB, 1 SAMPLE PER TRANSECT
TAXONOMIC LIST OF BENTHIC ANIMALS	BOTTOM	KEY	NUMBER PER GENUS	540	OBS	2 TIMES		SMALL PETERSEN GRAB, 1 SAMPLE PER TRANSECT
COMMUNITY STRUCTURE ANALYSIS	BOTTOM	CALCULATED	RANK ANALYSIS	54	OBS			BENTHIC ANIMALS
SPECIES DETERMINATION OF DEMERSAL FISH	WATER	KEY	NUMBER PER SPECIES PER AREA, SPECIES LIST	27	OBS			100 FOOT ROTENONE SAMPLE
SPECIES DETERMINATION OF PELAGIC FISH	WATER	KEY	NUMBER PER SPECIES PER AREA, SPECIES LIST	27	OBS			100 FOOT ROTENONE SAMPLE
COUNT OF DEMERSAL FISH	WATER	VISUAL	AVERAGE NUMBER PER AREA	27	OBS			
COUNT OF PELAGIC FISH	WATER	VISUAL	AVERAGE NUMBER PER AREA	27	OBS			
COMMUNITY STRUCTURE ANALYSIS	WATER	CALCULATED	RANK ANALYSIS	27	OBS			FISH COMMUNITY
LENGTH OF DEMERSAL FISH	WATER	TOTAL LENGTH	MILLIMETERS	5000	OBS			ALL GAME FISHES
WEIGHT OF DEMERSAL FISH	WATER	WET WEIGHT	GRAMS	5000	OBS			ALL GAME FISHES
AGE DATING OF	WATER	SCALES	YEARS	5000	OBS			ALL GAME FISHES

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
DEMERSAL FISH							

CHARACTERIZATION OF COASTAL AND ESTUARINE FISH NURSERY GROUNDS AS NATURAL COMMUNITIES

DATA COLLECTED: NOVEMBER 1965 TO AUGUST 1967

RECEIVED: JANUARY 15, 1974

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, U.S., COASTAL, CHESAPEAKE BAY, YORK RIVER, PAMUNKEY RIVER, WACHAPREAGUE

ABSTRACT:
THE YORK-PAMUNKEY RIVER SYSTEM IN VIRGINIA WAS SAMPLED MONTHLY FOR ONE YEAR FOR FISH, PHYTOPLANKTON, ZOOPLANKTON BENTHOS. HISTORICAL TRAWL DATA FOR THIS AREA AS WELL AS WACHAPREAGUE AREA WAS ORGANIZED, KEYPUNCHED AND COMBINED WITH THE RECENTLY ACQUIRED DATA TO ESTIMATE THE UTILIZATIONOF THESE AREAS AS NURSERY AREAS
(SUMMARIES IN THREE QUARTERLY, ONE ANNUAL, ONE FINAL REPORTS. STUDY ALSO INCLUDES COMPILATION AND ANALYSIS OF PREVIOUSLY OBTAINED BIOLOGICAL AND HYDROLOGICAL DATA OF THE YORK AND PAMUNKEY RIVERS FROM JAN 1963 TO OCT 1965)

DATA AVAILABILITY:

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
PUNCHED CARDS; REPORTS; DATA SHEETS
SEVERAL FILES OF PUNCHED CARDS, DATA SHEETS, SEVEN REPORTS

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
W A VAN ENGLE 804 642 2111
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT VIRGINIA USA 23062

GRID LOCATOR (LAT):
730776 730775

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	11	STATIONS			
TIME	EARTH	STATION TIME	YMDH	700	OBS	MONTHLY AND SEVERAL 24 HR STATIONS		566 YORK & PAMUNKEY HISTORICAL STATIONS; 121 YORK & PAMUNKEY STUDY STATIONS, 3 WACHAPREAGUE HISTORCIAL STATIONS; 11 YORK &

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
								PAMUNKEY 24 HR STATIONS
TEMPERATURE	WATER	NON-REVERSING THERMOMETER	DEG C	3100	OBS	MONTHLY, HOURLY	SURFACE & BOTTOM	HISTORICAL & CURRENT YORK & PAMUNKEY DATA, HISTORICAL WACHAPREAGUE DATA
TEMPERATURE	WATER	THERMISTOR	DEG C	3100	OBS	MONTHLY, HOURLY	SURFACE & BOTTOM	HISTORICAL & CURRENT YORK & PAMUNKEY DATA, HISTORICAL WACHAPREAGUE DATA
SALINITY	WATER	TITRATION	PARTS PER THOUSAND	3100	OBS	MONTHLY, HOURLY	SURFACE & BOTTOM	HISTORICAL & CURRENT YORK & PAMUNKEY DATA, HISTORICAL WACHAPREAGUE DATA
SALINITY	WATER	CONDUCTIVITY	PARTS PER THOUSAND	3100	OBS	MONTHLY, HOURLY	SURFACE & BOTTOM	HISTORICAL & CURRENT YORK & PAMUNKEY DATA, HISTORICAL WACHAPREAGUE DATA
DISSOLVED OXYGEN GAS	WATER	TITRATION	MG PER LITER	300	OBS	MONTHLY, HOURLY	SURFACE & BOTTOM	CURRENT YORK & PAMUNKEY AND HISTORICAL WACHAPREAGUE DATA
TIDAL CURRENT SPEED	WATER	SAVONIUS ROTOR METER	KNOTS	500	OBS	MONTHLY	SURFACE & BOTTOM	CURRENT TRAWL STATIONS YORK & PAMUNKEY
PH	WATER	SPECIFIC ION ELECTRODE	PH UNITS	121	OBS	MONTHLY	SURFACE	CURRENT TRAWL STATIONS YORK & PAMUNKEY
SECCHI DISC DEPTH	WATER	AVERAGE DEPTH	METERS	121	OBS	MONTHLY		CURRENT TRAWL STATIONS YORK & PAMUNKEY
TOTAL SOLIDS	WATER	DRY WEIGHT	MG PER LITER	121	OBS	MONTHLY		CURRENT TRAWL STATIONS YORK & PAMUNKEY
WIND SPEED	AIR	VISUAL	MILES PER HOUR	121	OBS	MONTHLY		CURRENT TRAWL STATIONS YORK & PAMUNKEY
COUNT OF BENTHIC ANIMALS	BOTTOM	VISUAL	NUMBER OF INDIVIDUALS	16	OBS	TWICE IN ONE YEAR		EIGHT STATIONS
SPECIES DETERMINATION OF BENTHIC	BOTTOM	KEY	SPECIES	16	OBS	TWICE IN ONE YEAR		EIGHT STATIONS

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
ANIMALS								
STOMACH CONTENT ANALYSIS OF PELAGIC FISH	WATER	VISUAL	VOLUME AND NUMBER OF FOOD ITEMS	1150	OBS			
COUNT OF PELAGIC FISH	WATER	VISUAL	NUMBER OF INDIVIDUALS	654	OBS	MONTHLY		CURRENT AND HISTORICAL TRAWL DATA
SPECIES DETERMINATION OF PELAGIC FISH	WATER	KEY	SPECIES	654	OBS	MONTHLY		CURRENT AND HISTORICAL TRAWL DATA
COUNT OF DEMERSAL FISH	WATER	VISUAL	NUMBER OF INDIVIDUALS	654	OBS	MONTHLY		CURRENT AND HISTORICAL TRAWL DATA
SPECIES DETERMINATION OF DEMERSAL FISH	WATER	KEY	SPECIES	654	OBS	MONTHLY		CURRENT AND HISTORICAL TRAWL DATA
BIOMASS OF PELAGIC FISH	WATER	WET WEIGHT	GRAMS PER TOW	654	OBS	MONTHLY		CURRENT AND HISTORICAL TRAWL DATA
BIOMASS OF DEMERSAL FISH	WATER	WET WEIGHT	GRAMS PER TOW	654	OBS	MONTHLY		CURRENT AND HISTORICAL TRAWL DATA
COUNT OF BENTHIC ANIMALS	BOTTOM	VISUAL	NUMBER OF INDIVIDUALS	845	OBS	MONTHLY		HISTORICAL TRAWL DATA OF BLUE CRABS 1956 TO 1967
BIOMASS OF BENTHIC ANIMALS	BOTTOM	WET WEIGHT	GRAMS PER TOW	845	OBS	MONTHLY		HISTORICAL TRAWL DATA OF BLUE CRABS 1956 TO 1967
COUNT OF ZOOPLANKTON	WATER	VISUAL	NUMBER OF INDIVIDUALS	250	OBS	MONTHLY		
SPECIES DETERMINATION OF ZOOPLANKTON	WATER	KEY	SPECIES	250	OBS	MONTHLY		
COUNT OF PHYTOPLANKTON	WATER	VISUAL	NUMBER OF INDIVIDUALS	250	OBS	MONTHLY		

PROJECTS:
ECOLOGICAL EFFECTS OF NUCLEAR STEAM

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, U.S., CHESAPEAKE BAY

ABSTRACT:
PHYTOPLANKTON AND WATER QUALITY SAMPLES ARE OBTAINED AT BIWEEKLY INTERVALS FROM SEVEN STATIONS IN THE VICINITY OF THE CALVERT CLIFFS NUCLEAR S.E.S. SITE ON THE WESTERN SHORE OF THE CHESAPEAKE BAY. DATA WILL BE USED FOR PRE AND POST-OPERATIVE ASSESSMENT OF POWER PLANT'S ENVIRONMENTAL INFLUENCE.
(PROGRESS REPORTS TO U S ATOMIC ENERGY COMMISSION)

DATA AVAILABILITY:

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS; DATA SHEETS
SEVERAL REPORTS AND SEVERAL NOTEBOOKS OF DATA SHEETS

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
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SOLOMONS MARYLAND USA 20688

GRID LOCATOR (LAT):
730786

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	7	STATIONS			CALVERT CLIFFS NUCLEAR S.E.S. SITE
TIME	EARTH	STATION TIME	YMD	100	OBS	BIWEEKLY, MONTHLY DURING WINTER		PERIODIC 24 HR SAMPLING ROUTINES AT ONE STATION
TEMPERATURE	WATER	THERMISTOR	DEG C	300	OBS	BIWEEKLY, MONTHLY DURING WINTER	SURFACE, MIDWATER, BOTTOM	PERIODIC 24 HR SAMPLING ROUTINES AT ONE STATION
SALINITY	WATER	TITRATION	PARTS PER THOUSAND	300	OBS	BIWEEKLY, MONTHLY	SURFACE, MIDWATER,	PERIODIC 24 HR SAMPLING

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
						DURING WINTER	BOTTOM	ROUTINES AT ONE STATION
SALINITY	WATER	INDEX OF REFRACTION	PARTS PER THOUSAND	300	OBS	BIWEEKLY, MONTHLY DURING WINTER	SURFACE, MIDWATER, BOTTOM	PERIODIC 24 HR SAMPLING ROUTINES AT ONE STATION
ORGANIC CARBON	SUSPENDED	DRY COMBUSTION/ INFRARED SPECTROMETRY	MG PER LITER	200	OBS	BIWEEKLY, MONTHLY DURING WINTER	SURFACE AND BOTTOM	PERIODIC 24 HR SAMPLING ROUTINES AT ONE STATION
CHLOROPHYLL A	WATER	FLUOROMETRY	UG PER LITER	200	OBS	BIWEEKLY, MONTHLY DURING WINTER	SURFACE AND BOTTOM	PERIODIC 24 HR SAMPLING ROUTINES AT ONE STATION
ORGANIC NITROGEN	SUSPENDED	SPECTROPHOTOMETRY	MG PER LITER	200	OBS	BIWEEKLY, MONTHLY DURING WINTER	SURFACE AND BOTTOM	PERIODIC 24 HR SAMPLING ROUTINES AT ONE STATION
NITRITE	WATER	SPECTROPHOTOMETRY	MG PER LITER	200	OBS	BIWEEKLY, MONTHLY DURING WINTER	SURFACE AND BOTTOM	PERIODIC 24 HR SAMPLING ROUTINES AT ONE STATION
NITRATE	WATER	SPECTROPHOTOMETRY	MG PER LITER	200	OBS	BIWEEKLY, MONTHLY DURING WINTER	SURFACE AND BOTTOM	PERIODIC 24 HR SAMPLING ROUTINES AT ONE STATION
AMMONIA	WATER	SPECTROPHOTOMETRY	MG PER LITER	200	OBS	BIWEEKLY, MONTHLY DURING WINTER	SURFACE AND BOTTOM	PERIODIC 24 HR SAMPLING ROUTINES AT ONE STATION
ORGANIC NITROGEN	DISSOLVED	SPECTROPHOTOMETRY	MG PER LITER	200	OBS	BIWEEKLY, MONTHLY DURING WINTER	SURFACE AND BOTTOM	PERIODIC 24 HR SAMPLING ROUTINES AT ONE STATION
PHOSPHORUS	WATER	SPECTROPHOTOMETRY	MG PER LITER	200	OBS	BIWEEKLY, MONTHLY DURING WINTER	SURFACE AND BOTTOM	PERIODIC 24 HR SAMPLING ROUTINES AT ONE STATION
PHOSPHORUS	DISSOLVED	SPECTROPHOTOMETRY	MG PER LITER	200	OBS	BIWEEKLY, MONTHLY DURING WINTER	SURFACE AND BOTTOM	PERIODIC 24 HR SAMPLING ROUTINES AT ONE STATION
ORTHOPHOSPHATE	WATER	SPECTROPHOTOMETRY	MG PER LITER	200	OBS	BIWEEKLY, MONTHLY DURING WINTER	SURFACE AND BOTTOM	PERIODIC 24 HR SAMPLING ROUTINES AT ONE STATION
NITROGEN	WATER	AUTOANALYZER	MG PER LITER	200	OBS	BIWEEKLY, MONTHLY DURING WINTER	SURFACE AND BOTTOM	PERIODIC 24 HR SAMPLING ROUTINES AT ONE STATION
PHOTOSYNTHETIC RATE	WATER	CARBON-14 UPTAKE	MG C PER M2 PER HOUR	100	OBS	BIWEEKLY, MONTHLY DURING	SURFACE	PERIODIC 24 HR SAMPLING ROUTINES AT

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
COUNT OF PHYTOPLANKTON	WATER	VISUAL	NUMBER OF INDIVIDUALS	200	OBS	WINTER BIWEEKLY, MONTHLY DURING WINTER	SURFACE AND BOTTOM	ONE STATION PERIODIC 24 HR SAMPLING ROUTINES AT ONE STATION
SPECIES DETERMINATION OF PHYTOPLANKTON	WATER	KEY	SPECIES	200	OBS	WINTER BIWEEKLY, MONTHLY DURING WINTER	SURFACE AND BOTTOM	SELECTED SERIES OF STATIONS FOR IDENTIFICATION REMAINING SAMPLES STORED

DATA COLLECTED: JANUARY 1960 TO DECEMBER 1968 RECEIVED: JANUARY 15, 1974

PROJECTS:
SPOIL DISPOSAL IN UPPER CHESAPEAKE BAY

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, U.S., CHESAPEAKE BAY

ABSTRACT:
TO DETERMINE THE EFFECTS ON THE BENTHOS OF CHANNEL DREDGING AND OVERBOARD SPOIL DISPOSAL. STATIONS IN THE UPPER CHESAPEAKE BAY WERE BOTTOM SAMPLED FOR BENTHIC ANIMALS AND SEDIMENT.
(DATA AVIALABLE IN REPORTS TO BUREAU OF SPORT FISHERIES AND WILDLIFE, U S DEPARTMENT OF THE INTERIOR. SPECIES DIVERSITY, BIOMASS, CALCULATIONS PRESENTED IN FINAL REPORT)

DATA AVAILABILITY:

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS; DATA SHEETS
SEVERAL REPORTS AND SEVERAL FILES OF DATA SHEETS

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
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SOLOMONS MARYLAND USA 20688

GRID LOCATOR (LAT):
730796

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	69	STATIONS			29 UPPER BAY STATIONS, 30 DREDGE DISPOSAL AREA STATIONS
TIME	EARTH	STATION TIME	YMD	710	OBS			UPPER BAY STATIONS SAMPLED QUARTERLY BEGINNING JAN 1966; DISPOSAL AREA STATIONS SAMPLED

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
								BIMONTHLY BEGINNING SEPT 1966
SIZE ANALYSIS	SEDIMENT	SIEVE	PERCENT SAND, SILT AND CLAY	120	OBS			SEDIMENT SAMPLES TAKEN AT SELECTED DISPOSAL AREA STATIONS BEFORE AND AFTER DREDGING OPERATION
COUNT OF BENTHIC ANIMALS	BOTTOM	VISUAL	NUMBER OF INDIVIDUALS	710	OBS	QUARTERLY OR BIMONTHLY		
SPECIES DETERMINATION OF BENTHIC ANIMALS	BOTTOM	KEY	SPECIES	710	OBS	QUARTERLY OR BIMONTHLY		
ORGANIC CARBON	SEDIMENT	ASH WEIGHT	PERCENT ORGANIC CARBON	13	OBS			SAMPLES OF FIRST FIVE CENTIMETERS OF SEDIMENT WERE TAKEN AT SELECTED STATIONS
SALINITY	WATER	CONDUCTIVITY	PARTS PER THOUSAND	500	OBS		SURFACE	SELECTED STATIONS
TEMPERATURE	WATER	THERMISTOR	DEGREES CENTIGRADE	500	OBS		SURFACE	SELECTED STATIONS

DATA COLLECTED: NOVEMBER 1966 TO NOVEMBER 1967

RECEIVED: JANUARY 15, 1974

PROJECTS:
SPOIL DISPOSAL IN UPPER CHESAPEAKE BAY

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, U.S., CHESAPEAKE BAY

ABSTRACT:
PHYTOPLANKTON PRODUCTIVITY, CHLOROPHYLL A, AND LIGHT TRANSPARENCY WERE MEASURED AT 29 STATIONS IN THE UPPER CHESAPEAKE BAY FOR TWO YEARS. OBJECTIVES WERE TO ASCERTAIN ANY DIRECT GROSS EFFECTS OF DREDGING AND SPOIL DISPOSAL ON PHYTOPLANKTON AND TO PROVIDE BACKGROUND DATA FOR PREDICTION OF EFFECTS OF FUTURE DISPOSAL.
(DATA AVAILABLE IN NUMEROUS REPORTS TO BUREAU OF SPORT FISHERIES AND WILDLIFE, U S DEPARTMENT OF THE INTERIOR)

DATA AVAILABILITY:

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS; DATA SHEETS
SEVERAL REPORTS AND SEVERAL FILES OF DATA SHEETS

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
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SOLOMONS MARYLAND USA 20688

GRID LOCATOR (LAT):
730796

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	29	STATIONS			
TIME	EARTH	STATION TIME	YMD	2400	OBS	BIWEEKLY		
LIGHT ATTENUATION	WATER	IN SITU TRANSMISSOMETER	EXTINCTION COEFFICIENTS	2400	OBS	BIWEEKLY		SUBMARINE PHOTOMETER USED
SECCHI DISC DEPTH	WATER	AVERAGE DEPTH	METERS	2400	OBS	BIWEEKLY		COMPARED TO PHOTOMETER VALUES
PHOTOSYNTHETIC RATE	WATER	OXYGEN DETERMINATION	MG C PER M3 PER HOUR	500	OBS	BIWEEKLY		ONE SHALLOW WATER AND CHANNEL STATION IN EACH TRANSECT

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
CHLOROPHYLL A	WATER	FLUOROMETRY	MG PER M3	5000	OBS	BIWEEKLY	SURFACE TO BOTTOM	FROM APRIL 1966 TO AUGUST 1967 SURFACE AND THREE METER INTERVALS TO BOTTOM

DATA COLLECTED: JUNE 1961 TO AUGUST 1962

RECEIVED: MARCH 10, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, VIRGINIA, LOWER YORK RIVER

ABSTRACT:
CHLORINITY, LIGHT EXTINCTION, DISSOLVED OXYGEN, PARTICULATE ORGANIC CARBON, PARTICULATE INORGANIC MATTER, AND PHOTOSYNTHETIC RATE WERE MEASURED IN WATER SAMPLES COLLECTED IN THE LOWER YORK RIVER, VIRGINIA OVER A 15 MONTH PERIOD BEGINNING JUNE 1961. THE DATA ARE AVAILABLE IN THE FORM OF REPORTS FROM VIMS AT COST OF REPRODUCTION AND HANDLING. THE RESULTS OF THE STUDY HAVE BEEN PUBLISHED IN THE VIMS SPECIAL SCIENTIFIC REPORT NO. 45.

DATA AVAILABILITY:
COST OF REPRODUCTION AND HANDLING CHARGE

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS
812 OBS IN A VIMS SPECIAL SCIENTIFIC REPORT NO.45

FUNDING:

INVENTORY:

PUBLICATIONS:
VIMS SPECIAL SCIENTIFIC REPORT NO 45

CONTACT:
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VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT VIRGINIA USA 23062

GRID LOCATOR (LAT):
7307761340

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	DM	1	STATIONS			
TIME	EARTH	STATION TIME	YMDL	22	STATIONS			
TEMPERATURE	WATER	THERMISTOR	DEG C 0 PT 2	116	OBS		SURFACE TO BOTTOM PROFILE	
CHLORINITY	WATER	TITRATION	PARTS PER THOUSAND	116	OBS		SURFACE TO BOTTOM PROFILE	MOHR TITRATION
LIGHT EXTINCTION	WATER	UNKNOWN	LOG OF RATIO	116	OBS		SURFACE TO BOTTOM PROFILE	

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
DISSOLVED OXYGEN GAS	WATER	TITRATION	MG PER LITER	116	OBS		SURFACE TO BOTTOM PROFILE	WINKLER
ORGANIC CARBON	SUSPENDED	DRY COMBUSTION/ GAS DISPLACEMENT	MG PER LITER	116	OBS		SURFACE TO BOTTOM PROFILE	MEMBRANE FILTRATION
PARTICULATE INORGANIC MATTER	WATER	ASH WEIGHT	MG PER LITER	116	OBS		SURFACE TO BOTTOM PROFILE	MEMBRANE FILTRATION
PHOTOSYNTHETIC RATE	WATER	OXYGEN DETERMINAT ION	G CAL PER SQ CM	116	OBS		SURFACE TO BOTTOM PROFILE	GROSS PRODUCTION , NET PRODUCTIO N AND RESPIRATI ON RATE COMPUTED

DATA COLLECTED: JUNE 1971 TO PRESENT
RECEIVED: MARCH 11, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, VIRGINIA, YORK RIVER, WARE AND CARTER CREEKS

ABSTRACT:
LEVELS OF ORGANIC AND INORGANIC CARBON, ADENOSINE TRIPHOSPHATE, OXYGEN AND SALINITY HAVE BEEN MEASURED ON WATER SAMPLES COLLECTED MONTHLY AT A DEPTH OF 6 INCHES IN THE CHESAPEAKE BAY, BEGINNING JUNE 1971 AND CONTINUING TO THE PRESENT.

DATA AVAILABILITY:
THE DATA ARE AVAILABLE IN THE FORM OF REPORTS FROM VIMS. THE RESULTS OF THE STUDY HAVE BEEN PUBLISHED IN A VIMS THESIS

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS
8000 OBS

FUNDING:

INVENTORY:

PUBLICATIONS:
VIMS THESIS

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GLOUCESTER POINT VIRGINIA USA 23062

GRID LOCATOR (LAT):
730776

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	2 STATIONS	MONTHLY, A TWENTY FOUR HOUR TIDAL CYCLE SAMPLED HOURLY		
TIME	EARTH	STATION TIME	YMDHL	22 STATIONS	MONTHLY, A TWENTY FOUR HOUR TIDAL CYCLE SAMPLED HOURLY		
SALINITY	WATER	CONDUCTIVITY	PARTS PER THOUSAND	1000 OBS	MONTHLY, A TWENTY FOUR	6 INCHES	

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
						HOUR TIDAL CYCLE SAMPLED HOURLY		
DISSOLVED OXYGEN GAS	WATER	TITRATION	MILLIGRAMS PER LITER	1000	OBS	MONTHLY, A TWENTY FOUR HOUR TIDAL CYCLE SAMPLED HOURLY	6 INCHES	WINKLER
ADENOSINE TRIPHOSPHATE	WATER	BIO-ASSAY	MG ATP PER LITER, MG CARBON PER LITER	1000	OBS	MONTHLY, A TWENTY FOUR HOUR TIDAL CYCLE SAMPLED HOURLY	6 INCHES	LUCIFERIN-LUCIFERASE BETA SCINTILLATION
CARBON	WATER	WET COMBUSTION/ INFRARED SPECTROMETRY	MILLIGRAMS PER LITER	1000	OBS	MONTHLY, A TWENTY FOUR HOUR TIDAL CYCLE SAMPLED HOURLY	6 INCHES	
ORGANIC CARBON	WATER	WET COMBUSTION/ INFRARED SPECTROMETRY	MILLIGRAMS PER LITER	1000	OBS	MONTHLY, A TWENTY FOUR HOUR TIDAL CYCLE SAMPLED HOURLY	6 INCHES	
ORGANIC CARBON	DISSOLVED	WET COMBUSTION/ INFRARED SPECTROMETRY	MILLIGRAMS PER LITER	1000	OBS	MONTHLY, A TWENTY FOUR HOUR TIDAL CYCLE SAMPLED HOURLY	6 INCHES	
INORGANIC CARBON	DISSOLVED	WET COMBUSTION/ INFRARED SPECTROMETRY	MILLIGRAMS PER LITER	1000	OBS	MONTHLY, A TWENTY FOUR HOUR TIDAL CYCLE SAMPLED HOURLY	6 INCHES	
ORGANIC CARBON	SUSPENDED	WET COMBUSTION/ INFRARED SPECTROMETRY	MILLIGRAMS PER LITER	1000	OBS	MONTHLY, A TWENTY FOUR HOUR TIDAL CYCLE SAMPLED HOURLY	6 INCHES	

DATA COLLECTED: JULY 1972 TO AUGUST 1972
RECEIVED: JANUARY 01, 1976

PROJECTS:
OPERATION AGNES

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, MOUTH OF CHESAPEAKE BAY, VIRGINIA, MOUTH OF POTOMAC RIVER

ABSTRACT:
FLUX MEASUREMENTS FOR 9 STATIONS FOR THE MOUTH OF THE POTOMAC RIVER AND CHESAPEAKE BAY WERE TAKEN FOR FOUR 24 HOUR PERIODS SAMPLED HOURLY AT 5 SAMPLE DEPTHS, SURFACE TO THE BOTTOM TO STUDY THE EFFECTS OF HURRICANE AGNES. DATA IS INCLUDED IN VIMS MASTER FILE

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
DATA SHEETS
DATA SHEETS FOR 9 STATIONS TAKEN AT 24 HOUR PERIODS SAMPLED HOURLY AT FOUR SAMPLE DEPTHS

FUNDING:

INVENTORY:

PUBLICATIONS:
DATA TO BE INCLUDED ON VIMS MASTER FILE

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GRID LOCATOR (LAT):
730786 730776 730775

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	DM	9	STATIONS	FOUR 24 HOUR PERIODS SAMPLED HOURLY		
TIME	EARTH	STATION TIME	YMDHL	36	STATIONS	FOUR 24 HOUR PERIODS SAMPLED HOURLY		
PHOSPHORUS	WATER	SPECTROPHOTOMETRY	MICROGRAM ATOMS PER LITER	2600	OBS	FOUR 24 HOUR PERIODS SAMPLED HOURLY	FOUR DEPTHS, SURFACE TO BOTTOM	MOLYBDATE
REACTIVE	WATER	SPECTROPHOTOMETRY	MICROGRAM ATOMS	2600	OBS	FOUR 24 HOUR	FOUR DEPTHS,	MOLYBDATE

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
PHOSPHATE			PER LITER			PERIODS SAMPLED HOURLY	SURFACE TO BOTTOM	
NITRATE	WATER	SPECTROPHOTOMETRY	MICROGRAM ATOMS PER LITER	2600	OBS	FOUR 24 HOUR PERIODS SAMPLED HOURLY	FOUR DEPTHS, SURFACE TO BOTTOM	CADMIUM REDUCTION
NITRITE	WATER	SPECTROPHOTOMETRY	MICROGRAM ATOMS PER LITER	2600	OBS	FOUR 24 HOUR PERIODS SAMPLED HOURLY	FOUR DEPTHS, SURFACE TO BOTTOM	DIAZOITATION
PARTICULATE MATTER	WATER	MEMBRANE FILTRATION	MILLIGRAMS PER LITER	2600	OBS	FOUR 24 HOUR PERIODS SAMPLED HOURLY	FOUR DEPTHS, SURFACE TO BOTTOM	
SALINITY	WATER	CONDUCTIVITY	PARTS PER THOUSAND	2600	OBS	FOUR 24 HOUR PERIODS SAMPLED HOURLY	FOUR DEPTHS, SURFACE TO BOTTOM	

990

PROJECTS:
OPERATION AGNES

GENERAL GEOGRAPHIC AREA:.
U.S., COASTAL, NORTH ATLANTIC, OREGON INLET, NORTH CAROLINA TO CAPE CHARLES, VIRGINIA CONTINENTAL SHELF

ABSTRACT:
SALINITY, NITROGEN AND PHOSPHORUS WERE MEASURED AT 83 STATIONS ON THE VIRGINIA CONTINENTAL SHELF AT THE SURFACE, MID-DEPTH AND BOTTOM. DATA IS INCLUDED IN VIMS MASTER FILE

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
DATA SHEETS
DATA SHEETS FOR 83 DAILY STATIONS FOR 3 DEPTHS

FUNDING:

INVENTORY:

PUBLICATIONS:
DATA TO BE INCLUDED ON VIMS MASTER FILE

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PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	LONG RANGE NAVIGATIONAL NET	DM	83	STATIONS			
TIME	EARTH	STATION TIME	YMDHL	83	STATIONS			
PHOSPHORUS	WATER	SPECTROPHOTOMETRY	MICROGRAM ATOMS PER LITER	250	OBS		SURFACE, MID-DEPTH AND BOTTOM	MOLYBDATE
NITRATE	WATER	SPECTROPHOTOMETRY	MICROGRAM ATOMS PER LITER	250	OBS		SURFACE, MID-DEPTH AND BOTTOM	CADMIUM REDUCTION
NITRITE	WATER	SPECTROPHOTOMETRY	MICROGRAM ATOMS PER LITER	250	OBS		SURFACE, MID-DEPTH AND BOTTOM	DIAZOITATION
ORGANIC	WATER	SPECTROPHOTOMETRY	MICROGRAM ATOMS	250	OBS		SURFACE, MID-	KJELDAHL

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
NITROGEN			PER LITER				DEPTH AND BOTTOM	
SALINITY	WATER	CONDUCTIVITY	PARTS PER THOUSAND	250	OBS		SURFACE, MID-DEPTH AND BOTTOM	

DATA COLLECTED: APRIL 1972 TO PRESENT
RECEIVED: MAY 16, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, VIRGINIA, LOWER YORK RIVER

ABSTRACT:
A CONTINUING ECOLOGICAL STUDY OF THE VEPCO YORKTOWN POWER STATION IN THE YORK RIVER CONSISTING OF 4 STATIONS SAMPLED MONTHLY FROM THE SURFACE TO THE BOTTOM AT 2 METER INTERVAL. PHYSICAL AND CHEMICAL PARAMETERS ARE STRESSED

DATA AVAILABILITY:
WITH APPROVAL FROM VEPCO

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
DATA SHEETS
DATA SHEETS FOR 13 PARAMETERS MEASURED MONTHLY AT 4 STATIONS FROM 1972 TO THE PRESENT

FUNDING:

INVENTORY:

PUBLICATIONS:

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GRID LOCATOR (LAT):
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PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	DM	4	STATIONS	MONTHLY		
TIME	EARTH	STATION TIME	YMDHL	50	STATIONS	4 STATIONS/ MONTH		
TEMPERATURE	WATER	THERMISTOR	DEG C	300	OBS	4 STATIONS/ MONTH	SURFACE TO BOTTOM AT 2 METER INTERVALS	
SALINITY	WATER	CONDUCTIVITY	PARTS PER THOUSAND	300	OBS	4 STATIONS/ MONTH	SURFACE TO BOTTOM AT 2 METER INTERVALS	
DISSOLVED OXYGEN GAS	WATER	TITRATION	MILLIGRAMS PER LITER	300	OBS	4 STATIONS/ MONTH	SURFACE TO BOTTOM AT 2 METER INTERVALS	WINKLER

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
PH	WATER	SPECIFIC ION ELECTRODE	PH UNITS	100	OBS	4 STATIONS/ MONTH	SURFACE AND BOTTOM	
TOTAL ALKALINITY	WATER	SPECIFIC ION ELECTRODE	MILLIEQUIVALENTS PER LITER	100	OBS	4 STATIONS/ MONTH	SURFACE AND BOTTOM	
AMMONIA	WATER	TITRATION	MICROGRAM ATOMS PER LITER	100	OBS	4 STATIONS/ MONTH	SURFACE AND BOTTOM	DISTILLATION
NITRATE	WATER	SPECTROPHOTOMETRY	MICROGRAM ATOMS PER LITER	100	OBS	4 STATIONS/ MONTH	SURFACE AND BOTTOM	CADMIUM REDUCTION
NITRITE	WATER	SPECTROPHOTOMETRY	MICROGRAM ATOMS PER LITER	100	OBS	4 STATIONS/ MONTH	SURFACE AND BOTTOM	DIAZOITATION
ORGANIC NITROGEN	WATER	SPECTROPHOTOMETRY	MILLIGRAMS PER LITER	100	OBS	4 STATIONS/ MONTH	SURFACE AND BOTTOM	KJELDAHL
ORGANIC NITROGEN	DISSOLVED	SPECTROPHOTOMETRY	MILLIGRAMS PER LITER	100	OBS	4 STATIONS/ MONTH	SURFACE AND BOTTOM	KJELDAHL
ORTHOPHOSPHATE	WATER	SPECTROPHOTOMETRY	MICROGRAM ATOMS PER LITER	100	OBS	4 STATIONS/ MONTH	SURFACE AND BOTTOM	MOLYBDATE
PHOSPHORUS	DISSOLVED	SPECTROPHOTOMETRY	MICROGRAM ATOMS PER LITER	100	OBS	4 STATIONS/ MONTH	SURFACE AND BOTTOM	MOLYBDATE
CHLOROPHYLL A	WATER	FLUOROMETRY	MICROGRAMS PER LITER	100	OBS	4 STATIONS/ MONTH	SURFACE AND BOTTOM	

DATA COLLECTED: JUNE 1971 TO PRESENT

RECEIVED: MAY 16, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, VIRGINIA, YORK RIVER, WARE AND CARTER CREEKS

ABSTRACT:
PHOSPHORUS, NITROGEN AND DETRITUS DYNAMICS OF COASTAL ESTUARIES IN THE LOWER YORK RIVER. 2 STATIONS WERE SAMPLED EVERY MONTH AT HOURLY INTERVALS OVER A 24 HOUR TIDAL CYCLE FROM 1971 TO THE PRESENT. DATA IS PART OF A DISSERTATION

DATA AVAILABILITY:

PLATFORM TYPES:
FIXED STATION .

ARCHIVE MEDIA:
REPORTS
VIMS DISSERTATION OF 12 PARAMETERS MEASURED AT 2 STATIONS SAMPLED MONTHLY OVER A 24 HOUR TIDAL CYCLE AT HOURLY INTERVALS FROM 1971 TO THE PRESENT

FUNDING:

INVENTORY:

PUBLICATIONS:
VIMS DISSERTATION

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PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	2	STATIONS	MONTHLY, A TWENTY FOUR HOUR TIDAL CYCLE SAMPLED HOURLY		
TIME	EARTH	STATION TIME	YMDHL	22	STATIONS	MONTHLY, A TWENTY FOUR HOUR TIDAL CYCLE SAMPLED HOURLY		
SALINITY	WATER	CONDUCTIVITY	PARTS PER	1000	OBS	MONTHLY, A	SIX INCHES	

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
			THOUSAND			TWENTY FOUR HOUR TIDAL CYCLE SAMPLED HOURLY		
DISSOLVED OXYGEN GAS	WATER	TITRATION	MG PER LITER	1000	OBS	MONTHLY, A TWENTY FOUR HOUR TIDAL CYCLE SAMPLED HOURLY	SIX INCHES	WINKLER
TEMPERATURE	WATER	NON-REVERSING THERMOMETER	DEG C	1000	OBS	MONTHLY, A TWENTY FOUR HOUR TIDAL CYCLE SAMPLED HOURLY	SIX INCHES	
NITRITE	WATER	SPECTROPHOTOMETRY	MICROGRAM ATOMS PER LITER	1000	OBS	MONTHLY, A TWENTY FOUR HOUR TIDAL CYCLE SAMPLED HOURLY	SIX INCHES	DIAZOITATION
NITRATE	WATER	SPECTROPHOTOMETRY	MICROGRAM ATOMS PER LITER	1000	OBS	MONTHLY, A TWENTY FOUR HOUR TIDAL CYCLE SAMPLED HOURLY	SIX INCHES	CADMIUM REDUCTION, DIAZOITATION
AMMONIA	WATER	TITRATION	MG PER LITER	1000	OBS	MONTHLY, A TWENTY FOUR HOUR TIDAL CYCLE SAMPLED HOURLY	SIX INCHES	DISTILLATION
ORGANIC NITROGEN	DISSOLVED	SPECTROPHOTOMETRY	MG PER LITER	1000	OBS	MONTHLY, A TWENTY FOUR HOUR TIDAL CYCLE SAMPLED HOURLY	SIX INCHES	KJELDHAL
ORTHOPHOSPHATE	WATER	SPECTROPHOTOMETRY	MICROGRAM ATOMS PER LITER	1000	OBS	MONTHLY, A TWENTY FOUR HOUR TIDAL CYCLE SAMPLED HOURLY	SIX INCHES	MOLYBDATE
PHOSPHORUS	DISSOLVED	SPECTROPHOTOMETRY	MICROGRAM ATOMS PER LITER	1000	OBS	MONTHLY, A TWENTY FOUR HOUR TIDAL CYCLE SAMPLED	SIX INCHES	MOLYBDATE

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
PHOSPHORUS	WATER	SPECTROPHOTOMETRY	MICROGRAM ATOMS PER LITER	1000	OBS	HOURLY MONTHLY, A TWENTY FOUR HOUR TIDAL CYCLE SAMPLED HOURLY	SIX INCHES	MOLYBDATE
CHLOROPHYLL A	WATER	FLUOROMETRY	MICROGRAMS PER LITER	1000	OBS	HOURLY MONTHLY, A TWENTY FOUR HOUR TIDAL CYCLE SAMPLED HOURLY	SIX INCHES	
PHOTOSYNTHETIC RATE	WATER	CARBON-14 UPTAKE	MILLIGRAM CARBON FIXED PER LITER PER HOUR	1000	OBS	HOURLY MONTHLY, A TWENTY FOUR HOUR TIDAL CYCLE SAMPLED HOURLY	SIX INCHES	

DATA COLLECTED: JULY 1972 TO SEPTEMBER 1972 RECEIVED: MAY 16, 1973

PROJECTS:
OPERATION AGNES

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, LOWER CHESAPEAKE BAY, VIRGINIA

ABSTRACT:
HYDROGRAPHIC AND ZOOPLANKTON BIOLOGICAL MEASUREMENTS WERE TAKEN AT 40 STATIONS IN THE LOWER CHESAPEAKE BAY FOR 7 WEEKS AT 13 OF THE STATIONS EACH WEEK TO DETERMINE THE EFFECTS OF HURRICANE AGNES. THE WEEKLY BIOLOGICAL MEASUREMENTS WERE TAKEN FROM OBLIQUE SURFACE TO BOTTOM TOWS

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
DATA SHEETS
DATA SHEETS FOR 17 PARAMETERS MEASURED AT 13 STATIONS TAKEN WEEKLY FOR 7 WEEKS

FUNDING:

INVENTORY:

PUBLICATIONS:
WATER RESEARCH 1973 VOL 7, 451-460

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PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	DM	40 STATIONS	13 STATIONS/ WEEK		13 OF 40 STATION CHOICES SAMPLED WEEKLY
TIME	EARTH	STATION TIME	YMDHL	91 STATIONS	13 STATIONS/ WEEK		
TEMPERATURE	WATER	NON-REVERSING THERMOMETER	DEG C	240 OBS	13 STATIONS/ WEEK	SURFACE TO BOTTOM AT TWO METER INTERVALS	
SALINITY	WATER	CONDUCTIVITY	PARTS PER THOUSAND	240 OBS	13 STATIONS/ WEEK	SURFACE TO BOTTOM AT TWO METER	

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
DISSOLVED OXYGEN GAS	WATER	TITRATION	MILLIGRAMS PER LITER	240	OBS	13 STATIONS/ WEEK	INTERVALS SURFACE TO BOTTOM AT TWO METER INTERVALS	WINKLER
WIND DIRECTION	AIR	DIRECTION VANE	COMPASS POINTS	91	OBS	13 STATIONS/ WEEK	SEA LEVEL	
WIND SPEED	AIR	VISUAL	KNOTS	91	OBS	13 STATIONS/ WEEK	SEA LEVEL	
LIGHT ATTENUATION	WATER	IN SITU TRANSMISSOMETER	METERS	91	OBS	13 STATIONS/ WEEK	SEA LEVEL	
NITRATE	WATER	SPECTROPHOTOMETRY	MICROGRAM ATOMS PER LITER	80	OBS	13 STATIONS/ WEEK	SURFACE AND SIX METERS	CADMIUM REDUCTION
NITRITE	WATER	SPECTROPHOTOMETRY	MICROGRAM ATOMS PER LITER	80	OBS	13 STATIONS/ WEEK	SURFACE AND SIX METERS	DIAZOITATION
PHOSPHORUS	WATER	SPECTROPHOTOMETRY	MICROGRAM ATOMS PER LITER	80	OBS	13 STATIONS/ WEEK	SURFACE AND SIX METERS	MOLYBDATE
COUNT OF ZOOPLANKTON	WATER	FIXED, UNSTAINED, ALIQUOT	NUMBER OF INDIVIDUALS PER CUBIC METER	91	OBS	13 STATIONS/ WEEK	OBLIQUE SURFACE TO BOTTOM TOWS	EIGHT INCH BONGO NET
SPECIES DETERMINATION OF ZOOPLANKTON	WATER	KEY	NUMBER OF SPECIES PER CUBIC METER	91	OBS	13 STATIONS/ WEEK	OBLIQUE SURFACE TO BOTTOM TOWS	EIGHT INCH BONGO NET
BIOMASS OF ZOOPLANKTON	WATER	DRY WEIGHT	MILLIGRAMS PER CUBIC METER	91	OBS	13 STATIONS/ WEEK	OBLIQUE SURFACE TO BOTTOM TOWS	FREEZE DRIED
BIOMASS OF ZOOPLANKTON	WATER	ASH WEIGHT	MILLIGRAMS PER CUBIC METER	91	OBS	13 STATIONS/ WEEK	OBLIQUE SURFACE TO BOTTOM TOWS	
PROTEIN IN BIO MATERIAL	WATER	SPECTROPHOTOMETRY	PERCENT OF ASH WEIGHT	80	OBS	13 STATIONS/ WEEK	OBLIQUE SURFACE TO BOTTOM TOWS	ZOOPLANKTON LOWRY
LIPIDS IN BIO MATERIAL	WATER	SPECTROPHOTOMETRY	PERCENT OF ASH WEIGHT	80	OBS	13 STATIONS/ WEEK	OBLIQUE SURFACE TO BOTTOM TOWS	ZOOPLANKTON, BLIGH AND DYER EXTRACTION
FATTY ACIDS IN BIO MATERIAL	WATER	GAS CHROMATOGRAPHY	PERCENT OF ASH WEIGHT	80	OBS	13 STATIONS/ WEEK	OBLIQUE SURFACE TO BOTTOM TOWS	ZOOPLANKTON
SECCHI DISC DEPTH	WATER	AVERAGE DEPTH	METERS	80	OBS	13 STATIONS/ WEEK		

DATA COLLECTED: AUGUST 1971 TO JULY 1973 RECEIVED: MAY 16, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, LOWER CHESAPEAKE BAY, VIRGINIA

ABSTRACT:
ZOOPLANKTON MEASUREMENTS FROM 25 MONTHLY STATIONS FOR 2 YEARS IN THE LOWER CHESAPEAKE BAY. AN 8 IN. BONGO NET WAS USED ON AN OBLIQUE SURFACE TO BOTTOM TOW. ACCOMPANYING HYDROGRAPHIC DATA WERE ALSO TAKEN

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
DATA SHEETS
DATA SHEETS FOR 18 PARAMETERS AT 25 MONTHLY STATIONS FOR 2 YEARS

FUNDING:

INVENTORY:

PUBLICATIONS:
DATA TO BE INCLUDED IN REPORTS TO: NATIONAL SCIENCE FOUNDATION AS RANN REPORTS

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PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	DM	25	STATIONS	MONTHLY		
TIME	EARTH	STATION TIME	YMDHL	600	STATIONS	25 STATIONS/ MONTH		
TEMPERATURE	WATER	NON-REVERSING THERMOMETER	DEG C	1800	OBS	25 STATIONS/ MONTH	SURFACE TO BOTTOM AT 2 METER INTERVALS	
SALINITY	WATER	CONDUCTIVITY	PARTS PER THOUSAND	1800	OBS	25 STATIONS/ MONTH	SURFACE TO BOTTOM AT 2 METER INTERVALS	
DISSOLVED OXYGEN GAS	WATER	TITRATION	MILLIGRAMS PER LITER	1800	OBS	25 STATIONS/ MONTH	SURFACE TO BOTTOM AT 2 METER INTERVALS	WINKLER

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
WIND DIRECTION	AIR	DIRECTION VANE	COMPASS POINTS	625	OBS	25 STATIONS/ MONTH	SEA LEVEL	
WIND SPEED	AIR	VISUAL	KNOTS	625	OBS	25 STATIONS/ MONTH	SEA LEVEL	
TEMPERATURE	AIR	MERCURY THERMOMETER	DEG C	625	OBS	25 STATIONS/ MONTH	SEA LEVEL	
LIGHT ATTENUATION	WATER	IN SITU TRANSMISSOMETER	METERS	625	OBS	25 STATIONS/ MONTH	SEA LEVEL	
NITRATE	WATER	SPECTROPHOTOMETRY	MICROGRAM ATOMS PER LITER	800	OBS	25 STATIONS/ MONTH	SURFACE AND SIX METERS	CADMIUM REDUCTION
NITRITE	WATER	SPECTROPHOTOMETRY	MICROGRAM ATOMS PER LITER	800	OBS	25 STATIONS/ MONTH	SURFACE AND SIX METERS	DIAZOITATION
PHOSPHORUS	WATER	SPECTROPHOTOMETRY	MICROGRAM ATOMS PER LITER	800	OBS	25 STATIONS/ MONTH	SURFACE AND SIX METERS	MOLYBDATE
COUNT OF ZOOPLANKTON	WATER	FIXED, UNSTAINED, ALIQUOT	NUMBERS OF INDIVIDUALS PER CUBIC METER	625	OBS	25 STATIONS/ MONTH	OBLIQUE SURFACE TO BOTTOM TOWS	EIGHT INCH BONGO NETS
SPECIES DETERMINATION OF ZOOPLANKTON	WATER	KEY	NUMBER OF SPECIES PER CUBIC METER	625	OBS	25 STATIONS/ MONTH	OBLIQUE SURFACE TO BOTTOM TOWS	EIGHT INCH BONGO NETS
BIOMASS OF ZOOPLANKTON	WATER	DRY WEIGHT	MILLIGRAMS PER CUBIC METER	625	OBS	25 STATIONS/ MONTH	OBLIQUE SURFACE TO BOTTOM TOWS	FREEZE-DRIED, ASHING
PROTEIN IN BIO MATERIAL	WATER	SPECTROPHOTOMETRY	PERCENT OF ASH DRY WEIGHT	384	OBS	25 STATIONS/ MONTH	OBLIQUE SURFACE TO BOTTOM TOWS	ZOOPLANKTON LOWERY
LIPIDS IN BIO MATERIAL	WATER	SPECTROPHOTOMETRY	PERCENT OF ASH DRY WEIGHT	384	OBS	25 STATIONS/ MONTH	OBLIQUE SURFACE TO BOTTOM TOWS	ZOOPLANKTON, BLIGH AND DYER EXTRACTION
FATTY ACIDS IN BIO MATERIAL	WATER	GAS CHROMATOGRAPHY	PERCENT OF ASH DRY WEIGHT	384	OBS	25 STATIONS/ MONTH	OBLIQUE SURFACE TO BOTTOM TOWS	ZOOPLANKTON
SECCHI DISC DEPTH	WATER	AVERAGE DEPTH	METERS	384	OBS	25 STATIONS/ MONTH		

DATA COLLECTED: JUNE 1961 TO JULY 1962 RECEIVED: MAY 16, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, VIRGINIA, LOWER YORK RIVER

ABSTRACT:
8 PARAMETERS WERE MEASURED AT A FIXED STATION IN THE LOWER YORK RIVER 15 TIMES IN A YEAR TO STUDY THE DISTRIBUTIONAL PATTERNS OF PARTICULATE MATTER IN THE WATER COLUMN AND ITS EFFECT ON PHOTOSYNTHESIS. DATA APPEARS IN THE VIMS SPECIAL SCIENTIFIC REPORT NO 44

DATA AVAILABILITY:

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS
VIMS SPECIAL SCIENTIFIC REPORT NO 44 FOR 1 STATION MEASURED 15 TIMES IN A YEAR

FUNDING:

INVENTORY:

PUBLICATIONS:
VIMS SPECIAL SCIENTIFIC REPORT NO 44

CONTACT:
LIBRARIAN 703-642-2111 X19
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT VIRGINIA USA 23062

GRID LOCATOR (LAT):
7307761340

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	DM	1	STATIONS			
TIME	EARTH	STATION TIME	YMDHL	15	STATIONS			
TEMPERATURE	WATER	THERMISTOR	DEG C	15	OBS		SURFACE TO BOTTOM PROFILE	
CHLORINITY	WATER	TITRATION	PARTS PER THOUSAND	150	OBS		SURFACE TO BOTTOM PROFILE	MOHR
LIGHT EXTINCTION	WATER	UNKNOWN	LOG OF RATIO	150	OBS		SURFACE TO BOTTOM PROFILE	
DISSOLVED OXYGEN GAS	WATER	TITRATION	MG PER LITER	150	OBS		SURFACE TO BOTTOM PROFILE	WINKLER

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
PARTICULATE MATTER	WATER	MEMBRANE FILTRATION	MG PER LITER	120	OBS		SURFACE TO BOTTOM PROFILE	
PARTICULATE INORGANIC MATTER FLUX	WATER	DRY COMBUSTION/ GAS DISPLACEMENT	MG PER LITER	120	OBS		SURFACE TO BOTTOM PROFILE	MEMBRANE FILTRATION
PARTICULATE INORGANIC MATTER	WATER	ASH WEIGHT	MG PER LITER	120	OBS		SURFACE TO BOTTOM PROFILE	MEMBRANE FILTRATION
PHOTOSYNTHETIC RATE	WATER	OXYGEN DETERMINATION	GRAM CAL PER SQUARE CM PER DAY	111	OBS		2, 6 AND 10 FEET	NET PRODUCTION, GROSS PRODUCTION AND RESPIRATION RATES COMPUTED

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, LOWER CHESAPEAKE BAY, VIRGINIA, YORK RIVER

ABSTRACT:
LIGHT AND DARK BOTTLE STUDIES AT 4 STATIONS MEASURED WEEKLY FOR 3 MONTHS IN THE LOWER YORK RIVER. DATA APPEARS IN VIMS SPECIAL SCIENTIFIC REPORT NO 39. PHOTOSYNTHETIC RATE BASED ON 20 FOOT WATER COLUMN; DISSOLVED OXYGEN ON SURFACE TO BOTTOM PROFILE

DATA AVAILABILITY:
COST OF REPRODUCTION AND HANDLING COST

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
VIMS SPECIAL SCIENTIFIC REPORT NO 39- 4 STATIONS MEASURED WEEKLY FOR 3 MONTHS

FUNDING:

INVENTORY:

PUBLICATIONS:
VIMS SPECIAL SCIENTIFIC REPORT NO 39

CONTACT:
LIBRARIAN 703-642-2111
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT VIRGINIA USA 23062

080

GRID LOCATOR (LAT):
730776

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	DM	4	STATIONS	WEEKLY	MEAN LOW WATER DEPTH	
TIME	EARTH	STATION TIME	YMDL	8	STATIONS	WEEKLY		
PHOTOSYNTHETIC RATE	WATER	OXYGEN DETERMINATION	G CAL PER SQ CM PER DAY	200	OBS	WEEKLY	BASED ON TWENTY FOOT WATER COLUMN	GROSS PRODUCTION, NET PRODUCTION RESPIRATION COMPUTED
TEMPERATURE	WATER	THERMISTOR	DEG C	450	OBS	WEEKLY	SURFACE TO BOTTOM PROFILE	
CHLORINITY	WATER	TITRATION	PARTS PER THOUSAND	450	OBS	WEEKLY	SURFACE TO BOTTOM PROFILE	MOHR
DISSOLVED	WATER	TITRATION	MG PER LITER	450	OBS	WEEKLY	SURFACE TO	WINKLER

000788 STUDY OF CHANNEL SED[illegible]TS IN THE JAMES RIVER FILE 01
DATA COLLECTED: OCTOBER 1972 TO NOVEMBER 1972 RECEIVED: MAY 16, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, VIRGINIA, JAMES RIVER

ABSTRACT:
CHEMICAL ANALYSIS OF 50 CORES IN THE CHANNEL OF THE JAMES RIVER.

DATA AVAILABILITY:
COST OF REPRODUCTION AND SMALL HANDLING CHARGE

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
DATA SHEETS
50 CORES

FUNDING:

INVENTORY:

PUBLICATIONS:
VIMS SPECIAL SCIENTIFIC REPORT NO 42

CONTACT:
ROBERT HUGGETT 703-642-2111
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT VIRGINIA USA 23062

GRID LOCATOR (LAT):
730776 730766

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION, RIVER MILES	50	STATIONS			CENTER OF CHANNEL RED MARKER, BLACK MARKER
TIME	EARTH	STATION TIME	YMDL	148	STATIONS			
TOTAL SOLIDS	SEDIMENT	DRY WEIGHT	PER CENT	148	OBS		TOP TO 15 FEET DEPENDIN G ON WATER DEPTH AND CORE RECOVERY	
VOLATILE TOTAL SOLIDS	SEDIMENT	ASH WEIGHT	PER CENT	148	OBS		TOP TO 15 FEET DEPENDIN G ON WATER DEPTH AND CORE RECOVERY	

780

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
CHEMICAL OXYGEN DEMAND	SEDIMENT	DIGESTION	PER CENT	148	OBS		TOP TO 15 FEET DEPENDING ON WATER DEPTH AND CORE RECOVERY	
CHEMICAL OXYGEN DEMAND	SEDIMENT	TITRATION	PER CENT	148	OBS		TOP TO 15 FEET DEPENDING ON WATER DEPTH AND CORE RECOVERY	
ORGANIC NITROGEN	SEDIMENT	SPECTROPHOTOMETRY	PARTS PER MILLION	148	OBS		TOP TO 15 FEET DEPENDING ON WATER DEPTH AND CORE RECOVERY	KJELDAHL
PHOSPHORUS	SEDIMENT	SPECTROPHOTOMETRY	PARTS PER MILLION	148	OBS		TOP TO 15 FEET DEPENDING ON WATER DEPTH AND CORE RECOVERY	MOLYBDATE
COPPER	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	148	OBS		TOP TO 15 FEET DEPENDING ON WATER DEPTH AND CORE RECOVERY	NITRIC ACID DIGESTION
ZINC	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	148	OBS		TOP TO 15 FEET DEPENDING ON WATER DEPTH AND CORE RECOVERY	NITRIC ACID DIGESTION
LEAD	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	148	OBS		TOP TO 15 FEET DEPENDING ON WATER DEPTH AND CORE RECOVERY	NITRIC ACID DIGESTION
MERCURY	SEDIMENT	TITRATION	PARTS PER MILLION	148	OBS		TOP TO 15 FEET DEPENDING ON WATER DEPTH AND CORE RECOVERY	SULFURIC ACID DIGESTION

FREE AMINO ACIDS IN YORK RIVER
DATA COLLECTED: JULY 1965 TO DECEMBER 1967

RECEIVED: MAY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, VIRGINIA, YORK RIVER

ABSTRACT:
2.5 YEARS OF AUTOMATED MARINE CHEMISTRY AT A FIXED STATION IN THE YORK RIVER. TOTAL CHLOROPHYLL WAS MEASURED WITH A FLOUROMETER AND AMINO ACIDS WERE MEASURED BY ION EXCHANGE CHROMATOGRAPHY USING AN AUTOANALYZER EACH WEEK FOR 130 WEEKS. 6 MONTHS OF THE DATA IS PUBLISHED; THE REMAINDER IS ON DATA SHEETS.
(6 MONTHS OF DATA PUBLISHED, REMAINDER ON DATA SHEETS)

DATA AVAILABILITY:

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS; DATA SHEETS
A REPORT OF 4 PARAMETERS AT 1 STATION- 130 OBS/PARAMETER

FUNDING:

INVENTORY:

PUBLICATIONS:
AUTOMATION IN ANALYTICAL CHEM, 1966 SYMPOSIUM, MEDIAD PUBL, WHITE PLAINS, N Y

CONTACT:
KENNETH L WEBB 703-642-2111
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT VIRGINIA USA 23062

GRID LOCATOR (LAT):
7307761340

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	DM	1	STATIONS			
TIME	EARTH	STATION TIME	YMDHL	130	STATIONS	1 OBS/WEEK		
SALINITY	WATER	CONDUCTIVITY	PARTS PER THOUSAND	130	OBS	1 OBS/WEEK	SURFACE	
TEMPERATURE	WATER	NON-REVERSING THERMOMETER	DEG C	130	OBS	1 OBS/WEEK	SURFACE	
TOTAL CHLOROPHYL L	WATER	FLUOROMETRY	MICRO GRAMS PER LITER	130	OBS	1 OBS/WEEK	SURFACE	ACETONE EXTRACTION
AMINO ACIDS	WATER	COLUMN CHROMATOGRAPHY	NANOMOLES PER LITER	130	OBS	1 OBS/WEEK	SURFACE	AUTOANALYZER, NINHYDRIN, SPECTROPHOTOMETRY, ION EXCHANGE

084

DATA COLLECTED: FEBRUARY 1961 TO APRIL 1961
RECEIVED: MAY 16, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, VIRGINIA, LOWER YORK RIVER

ABSTRACT:
A REPORT OF 12 WEEKS AT SIX STATIONS IN THE LOWER YORK RIVER. SURFACE TO BOTTOM WATER SAMPLES WERE TESTED FOR TEMPERATURE, CHLORINITY, LIGHT EXTINCTION, NITRATE AND AMMONIA TO STUDY THE AMMONIA-NITROGEN DISTRIBUTION.

DATA AVAILABILITY:
COST OF REPRODUCTION

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
A REPORT OF 72 STATIONS

FUNDING:

INVENTORY:

PUBLICATIONS:
VIMS SPECIAL SCIENTIFIC REPORT NO 25

CONTACT:
LIBRARIAN 703-642-2111 X19
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT VIRGINIA USA 23062

GRID LOCATOR (LAT):
730776

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	DMS	6	STATIONS	WEEKLY		
TIME	EARTH	STATION TIME	YMDL	72	STATIONS	6 STN/WEEK		
TEMPERATURE	WATER	THERMISTOR	DEG C	144	OBS	6 STN/WEEK	SURFACE AND BOTTOM	
LIGHT EXTINCTION	WATER	UNKNOWN	LOG OF RATIO	144	OBS	6 STN/WEEK	SURFACE AND BOTTOM	
CHLORINITY	WATER	TITRATION	PARTS PER THOUSAND	144	OBS	6 STN/WEEK	SURFACE AND BOTTOM	MOHR
NITRATE	WATER	SPECTROPHOTOMETRY	MICRO GRAM ATOMS PER LITER	144	OBS	6 STN/WEEK	SURFACE AND BOTTOM	STRYCHNIDINE
AMMONIA	WATER	SPECTROPHOTOMETRY	MICRO GRAM ATOMS PER LITER	144	OBS	6 STN/WEEK	SURFACE AND BOTTOM	NESSLERIZATION

980

DATA COLLECTED: JANUARY 1960 TO JANUARY 1961

RECEIVED: MAY 16, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, LOWER CHESAPEAKE BAY, VIRGINIA, LOWER YORK RIVER

ABSTRACT:
A REPORT OF HYDROGRAPHIC, NUTRIENT, CHLOROPHYLL, SESTON AND CELL COUNT DATA COLLECTED AT 5 STATIONS IN THE CHESAPEAKE BAY VISITED BIWEEKLY FOR A YEAR.

DATA AVAILABILITY:
OPEN FILE, COST OF REPRODUCTION

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
A REPORT OF 120 STATIONS

FUNDING:

INVENTORY:

PUBLICATIONS:
VIMS SPECIAL SCIENTIFIC REPORT NO 20

CONTACT:
LIBRARIAN 703-642-2111 X16
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT VIRGINIA USA 23062

GRID LOCATOR (LAT):
730776

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	DMS	5	STATIONS			
TIME	EARTH	STATION TIME	YMDH	24	STATIONS	5 STN EVERY 2 WEEKS		
TEMPERATURE	WATER	THERMISTOR	DEG C	250	OBS	5 STN EVERY 2 WEEKS	SURFACE AND BOTTOM	
CHLORINITY	WATER	TITRATION	PARTS PER THOUSAND	250	OBS	5 STN EVERY 2 WEEKS	SURFACE AND BOTTOM	MOHR TITRATION
DISSOLVED OXYGEN GAS	WATER	TITRATION	MILLIGRAMS PER LITER	250	OBS	5 STN EVERY 2 WEEKS	SURFACE AND BOTTOM	WINKLER TITRATION
LIGHT EXTINCTION	WATER	UNKNOWN	LOG OF RATIO	250	OBS	5 STN EVERY 2 WEEKS	SURFACE AND BOTTOM	
NITRATE	WATER	SPECTROPHOTOMETRY	MICROGRAM ATOMS PER LITER	250	OBS	5 STN EVERY 2 WEEKS	SURFACE AND BOTTOM	STRYCHNIDINE

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
ORTHOPHOSPHATE	WATER	SPECTROPHOTOMETRY	MICROGRAM ATOMS PER LITER	250	OBS	5 STN EVERY 2 WEEKS	SURFACE AND BOTTOM	MOLYBDATE
ORGANIC PHOSPHORUS	WATER	SPECTROPHOTOMETRY	MICROGRAM ATOMS PER LITER	250	OBS	5 STN EVERY 2 WEEKS	SURFACE AND BOTTOM	MOLYBDATE
TOTAL CHLOROPHYL L	WATER	FLUOROMETRY	MILLIGRAMS PER LITER	250	OBS	5 STN EVERY 2 WEEKS	SURFACE AND BOTTOM	
ORGANIC CARBON	SUSPENDED	DRY COMBUSTION/ GAS DISPLACEMENT	MILLIGRAMS PER LITER	125	OBS	5 STN EVERY 2 WEEKS	SURFACE	MEMBRANE FILTRATION
PARTICULATE INORGANIC MATTER	WATER	ASH WEIGHT	MILLIGRAMS PER LITER	125	OBS	5 STN EVERY 2 WEEKS	SURFACE	MEMBRANE FILTRATION
COUNT OF PHYTOPLANKTON	WATER	COUNTING CHAMBER	NUMBERS OF INDIVIDUALS PER MILLILITER	250	OBS	5 STN EVERY 2 WEEKS	SURFACE AND BOTTOM	SEDGWICK-RAFTER MOUNTS
SPECIES DETERMINATION OF PHYTOPLANKTO N	WATER	KEY	NUMBER OF SPECIES PER STATION	250	OBS	5 STN EVERY 2 WEEKS	SURFACE AND BOTTOM	SEDGWICK-RAFTER MOUNTS

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, VIRGINIA, EASTERN SHORE, MACHAPREAGUE MARSH YORK RIVER, WARE AND CARTER CREEK MARSHES

ABSTRACT:
DATA ON THE EDAPHIC FACTORS AND PRODUCTIVITY OF 3 ESTUARINE MARSHES OF THE EASTERN SHORE OF VIRGINIA WERE COLLECTED AT 2 STATIONS MONTHLY FOR 10 MONTHS DURING 1972.

DATA AVAILABILITY:
COST OF REPRODUCTION

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
DATA SHEETS
2 STATIONS SAMPLED MONTHLY FOR 10 MONTHS

FUNDING:

INVENTORY:

PUBLICATIONS:
VIRGINIA INSTITUTE OF MARINE SCIENCE THESIS

CONTACT:
LIBRARIAN 703-642-2111
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT VIRGINIA USA 23062

GRID LOCATOR (LAT):
730776 730775

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	2	STATIONS	MONTHLY		
TIME	EARTH	STATION TIME	YMDL	20	STATIONS	2 STN/MO		
ORGANIC NITROGEN	SEDIMENT	SPECTROPHOTOMETRY	PARTS PER MILLION	400	OBS	2 STN/MO	0 TO 8 CM INTEGRAL	KJELDAHL
PHOSPHORUS	SEDIMENT	SPECTROPHOTOMETRY	PARTS PER MILLION	400	OBS	2 STN/MO	0 TO 8 CM INTEGRAL	MOLYBDATE BLUE
CALCIUM	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	400	OBS	2 STN/MO	0 TO 8 CM INTEGRAL	
MAGNESIUM	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	400	OBS	2 STN/MO	0 TO 8 CM INTEGRAL	
POTASSIUM	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	400	OBS	2 STN/MO	0 TO 8 CM INTEGRAL	
PH	INTERSTITIAL	SPECIFIC ION ELECTRODE	PH UNITS	400	OBS	2 STN/MO	0 TO 8 CM INTEGRAL	

090

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
SALINITY	INTERSTITIAL	CONDUCTIVITY	PARTS PER THOUSAND	400	OBS	2 STN/MO	0 TO 8 CM INTEGRAL	
ORGANIC NITROGEN IN BIO MATERIAL	LAND	SPECTROPHOTOMETRY	MICROGRAMS PER GRAM DRY WEIGHT	400	OBS	2 STN/MO		KJELDAHL, MARSH GRASS
PHOSPHORUS IN BIO MATERIAL	LAND	SPECTROPHOTOMETRY	MICROGRAMS PER GRAM DRY WEIGHT	400	OBS	2 STN/MO		MOLYBDATE BLUE, MARSH GRASS
BIOMASS OF BENTHIC PLANTS	LAND	CROPPING	GRAMS PER METER SQUARE PER YEAR PER SPECIES	13	OBS	2 STN/MO		MARSH GRASS
COUNT OF BENTHIC PLANTS	LAND	VISUAL	STEMS PER SQUARE METER AREA	13	OBS	2 STN/MO		MOLYBDATE BLUE, MARSH GRASS

DATA COLLECTED: MARCH 1951 TO OCTOBER 1951
RECEIVED: MAY 16, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, VIRGINIA, RAPPAHANNOCK RIVER

ABSTRACT:
A REPORT OF 16 STATIONS IN THE RAPPAHANNOCK RIVER STUDIED EACH MONTH FOR 8 MONTHS IN 1951. AT EACH STATION THE FISH AND PLANKTON POPULATION WERE SURVEYED AND SOME OF THE PHYSICAL/CHEMICAL FACTORS OF THE WATER ENVIRONMENT WERE MEASURED. DATA BASE CONTAINS COMPARATIVE DATA FOR PAMUNKEY AND MATTAPONI RIVERS.
(16 STATIONS 22 CRUISES, DATA BASE CONTAINS COMPARATIVE DATA FOR PAMUNKEY AND MATTAPONI RIVERS, VA)

DATA AVAILABILITY:
OPEN FILE, COST OF REPRODUCTION

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
16 STATIONS REPEATED FOR 8 MONTHS IN ONE REPORT

FUNDING:

INVENTORY:

PUBLICATIONS:
VIMS SPECIAL SCIENTIFIC REPORT NO 6

CONTACT:
LIBRARIAN 703-642-2111
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT VIRGINIA USA 23062

GRID LOCATOR (LAT):
730776 730787

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	DMS	16	STATIONS	MONTHLY		
TIME	EARTH	STATION TIME	YMDHL	128	STATIONS	16 STN/MO		
SPECIES DETERMINATION OF PELAGIC FISH	WATER	KEY	NUMBER OF SPECIES PER STATION BY MONTH, NUMBER OF INDIVIDUALS PER SPECIES BY MONTH	128	OBS	16 STN/MO		
SPECIES DETERMINATION OF DEMERSAL	WATER	KEY	NUMBER OF SPECIES PER STATION BY	128	OBS	16 STN/MO		

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
FISH			MONTH, NUMBER OF INDIVIDUALS PER SPECIES BY MONTH					
COUNT OF PELAGIC FISH	WATER	VISUAL	NUMBERS OF INDIVIDUALS PER STATION	128	OBS	16 STN/MO		
COUNT OF DEMERSAL FISH	WATER	VISUAL	NUMBERS OF INDIVIDUALS PER STATION	128	OBS	16 STN/MO		
SPECIES DETERMINATION OF ZOOPLANKTON	WATER	KEY	NUMBER OF SPECIES PER STATION BY MONTH, NUMBER OF INDIVIDUALS PER SPECIES BY MONTH	128	OBS	16 STN/MO		
SPECIES DETERMINATION OF PHYTOPLANKTON	WATER	KEY	NUMBER OF SPECIES PER STATION BY MONTH, NUMBER OF INDIVIDUALS PER SPECIES BY MONTH	128	OBS	16 STN/MO		
DISSOLVED OXYGEN GAS	WATER	TITRATION	MILLIGRAMS PER LITER	700	OBS	16 STN/MO	SURFACE AND BOTTOM	WINKLER TITRATION
PH	WATER	SPECIFIC ION ELECTRODE	PH UNITS	700	OBS	16 STN/MO	SURFACE AND BOTTOM	
SALINITY	WATER	TITRATION	PARTS PER THOUSAND	700	OBS	16 STN/MO	SURFACE AND BOTTOM	MOHR TITRATION
SULFATE	WATER	NEPHELOMETRY	PARTS PER MILLION	700	OBS	16 STN/MO	SURFACE AND BOTTOM	HELIGE TURBIDIMETER
TEMPERATURE	WATER	REVERSING THERMOMETER	DEG C	700	OBS	16 STN/MO	SURFACE AND BOTTOM	
SECCHI DISC DEPTH	WATER	AVERAGE DEPTH	CENTIMETERS	128	OBS	16 STN/MO		

DATA COLLECTED: JUNE 1971 TO AUGUST 1971
RECEIVED: MAY 30, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, VIRGINIA, JAMES AND ELIZABETH RIVERS

ABSTRACT:
9 CHEMICAL ANALYSES WERE PERFORMED ON SEDIMENT SAMPLES TAKEN IN 15 FT CORES AT 227 MID CHANNEL LOCATIONS ALONG THE JAMES AND ELIZABETH RIVERS, FROM JUNE THROUGH AUGUST 1971. THE RESULTS OF THE STUDY ARE AVAILABLE IN THE FORM OF REPORTS FROM VIMS, AND HAVE BEEN PUBLISHED IN THE CORPS OF ENGINEERS REPORT, CONTRACT NO. DACW 65-71-C-0047.

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
5400 OBS

FUNDING:
CORP OF ENGINEERS REPORT CONTRACT NO. DACW 65-71-C-0047

INVENTORY:

PUBLICATIONS:

CONTACT:
ROBERT HUGGETT 703-642-2111 X83
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT VIRGINIA USA 23062

GRID LOCATOR (LAT):
730776 730766

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION, RIVER MILES	227	STATIONS			CENTER OF CHANNEL, BLACK MARKER, RED MARKER
TIME	EARTH	STATION TIME	YMDL	227	STATIONS			
TOTAL SOLIDS	SEDIMENT	DRY WEIGHT	PERCENT	600	OBS		TOP TO 15 FEET DEPENDIN G ON WATER DEPTH AND CORE RECOVERY	
VOLATILE TOTAL SOLIDS	SEDIMENT	ASH WEIGHT	PERCENT	600	OBS		TOP TO 15 FEET DEPENDIN G ON WATER DEPTH AND	

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PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
CHEMICAL OXYGEN DEMAND	SEDIMENT	DIGESTION	PERCENT	600	OBS		CORE RECOVERY TOP TO 15 FEET DEPENDIN G ON WATER DEPTH AND CORE RECOVERY	
ORGANIC NITROGEN	SEDIMENT	SPECTROPHOTOMETRY	PARTS PER MILLION	600	OBS		TOP TO 15 FEET DEPENDIN G ON WATER DEPTH AND CORE RECOVERY	KJELDAHL
PHOSPHORUS	SEDIMENT	SPECTROPHOTOMETRY	PARTS PER MILLION	600	OBS		TOP TO 15 FEET DEPENDIN G ON WATER DEPTH AND CORE RECOVERY	MOLYBDATE
COPPER	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	600	OBS		TOP TO 15 FEET DEPENDIN G ON WATER DEPTH AND CORE RECOVERY	NITRIC ACID DIGESTION
ZINC	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	600	OBS		TOP TO 15 FEET DEPENDIN G ON WATER DEPTH AND CORE RECOVERY	NITRIC ACID DIGESTION
LEAD	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	600	OBS		TOP TO 15 FEET DEPENDIN G ON WATER DEPTH AND CORE RECOVERY	NITRIC ACID DIGESTION
MERCURY	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	600	OBS		TOP TO 15 FEET DEPENDIN G ON WATER DEPTH AND CORE RECOVERY	SULFURIC ACID DIGESTION

DATA COLLECTED: OCTOBER 1972 TO OCTOBER 1972
RECEIVED: MAY 30, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, VIRGINIA, YORK RIVER, TASKINAS CREEK

ABSTRACT:
BIOMASS AND ANNUAL YIELD PER ACRE, SPECIES DETERMINATION AND BODY LENGTH WERE RECORDED FOR BENTHIC PLANTS IN THE TASKINAS CREEK, VIRGINIA DURING OCTOBER 1972. WATER SAMPLES WERE ANALYZED FOR SALINITY AND TOTAL ORGANIC CARBON, AND THE WATER TRANSPORT RATE OF THE CREEK WAS MEASURED. THE RESULTS OF THE STUDY ARE AVAILABLE ON DATA SHEETS FROM VIMS, ALONG WITH COMMENTS ON WILDLIFE USEAGE.
(DATA CONTAINS COMMENTS ON WILDLIFE USAGE)

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
DATA SHEETS
62 OBS

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
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VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT VIRGINIA USA 23062

GRID LOCATOR (LAT):
730776

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	1	STATIONS			
TIME	EARTH	STATION TIME	YMDL	1	STATIONS			
SPECIES DETERMINATION OF BENTHIC PLANTS	LAND	KEY	NUMBER OF SPECIES PER MARSHLAND AREA	1	OBS			MARSH PLANTS
BIOMASS OF BENTHIC PLANTS	LAND	DRY WEIGHT	TONS PER ACRE	1	OBS			MARSH PLANTS
YIELD OF BENTHIC PLANTS	LAND	CROPPING	TONS PER ACRE PER YEAR	1	OBS			MARSH PLANTS
LENGTH OF BENTHIC PLANTS	LAND	DIRECT	METERS	1	OBS			MARSH PLANTS
ORGANIC CARBON	WATER	WET COMBUSTION/	MG PER LITER	28	OBS		FOURTEEN	TWO TIDAL

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
		INFRARED SPECTROMETRY				HOURLY SAMPLES PER TIDAL CYCLE	CYCLES SAMPLED
SALINITY	WATER	CONDUCTIVITY	PARTS PER THOUSAND	28 OBS		FOURTEEN HOURLY SAMPLES PER TIDAL CYCLE	TWO TIDAL CYCLES SAMPLED
WATER TRANSPORT	WATER	IMPELLOR METER	CUBIC METERS PER TIDAL CYCLE	2 OBS			TWO TIDAL CYCLES SAMPLED

DATA COLLECTED: MAY 1972 TO SEPTEMBER 1972
RECEIVED: MAY 01, 1976

PROJECTS:
ANADROMOUS ALOSIDS

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, VIRGINIA, JAMES RIVER

ABSTRACT:
THE PRODUCTIVITY AND NUTRIENT ANALYSIS OF THE JAMES RIVER NURSERY GROUNDS WERE STUDIED AT THE SURFACE, MID-DEPTH, AND BOTTOM FOR 5 MONTHS. AT 5 LOCATIONS SAMPLED WEEKLY TO BIWEEKLY. THE STUDY WAS PART OF THE PROGRAM FOR BIOLOGY AND UTILIZATION OF ANADROMOUS ALOSIDS. PHYSICAL/CHEMICAL PARAMETERS WERE MEASURED AT EACH STATION. COBB NETS, PLANKTON NETS AND JUDAY FIXED VOLUME TRAPS WERE USED FOR BIOLOGY SAMPLING.

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
DATA SHEETS
DATA SHEETS FOR 20 PARAMETERS AT 5 STATIONS MEASURED WEEKLY TO BIWEEKLY FOR 5 MONTHS

FUNDING:

INVENTORY:

PUBLICATIONS:
ANNUAL REPORTS SENT TO NATIONAL MARINE FISHERIES SERVICE, DEPT OF INTERIOR, VIRGINIA MARINE RESOURCES COMMISSION VIMS LIBRARY

CONTACT:
WALTER HOAGMAN 703-642-2111
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT VIRGINIA USA 23062

GRID LOCATOR (LAT):
730776 730766

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION, RIVER MILE	5	STATIONS			
TIME	EARTH	STATION TIME	YMDHL	243	STATIONS	WEEKLY TO BIWEEKLY		
SALINITY	WATER	CONDUCTIVITY	PARTS PER THOUSAND	243	OBS	WEEKLY TO BIWEEKLY	SURFACE, MID DEPTH, BOTTOM	
BATHYMETRY	WATER	UNCORRECTED SOUNDING DEPTH BASED ON 4800 FT/SEC	METERS	5	OBS			
DISSOLVED	WATER	TITRATION	MILLIGRAMS PER	243	OBS	WEEKLY TO	SURFACE, MID	WINKLER

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
OXYGEN GAS			LITER			BIWEEKLY	DEPTH, BOTTOM	
PHOTOSYNTHETIC RATE	WATER	CARBON-14 UPTAKE	MILLIGRAMS PER LITER, FIXED PER CUBIC METER PER HOUR	80	OBS	WEEKLY TO BIWEEKLY	SURFACE	
TEMPERATURE	WATER	NON-REVERSING THERMOMETER	DEG C	243	OBS	WEEKLY TO BIWEEKLY	SURFACE, MID DEPTH, BOTTOM	
CHLOROPHYLL A	WATER	FLUOROMETRY	MILLIGRAMS PER LITER	160	OBS	WEEKLY TO BIWEEKLY	SURFACE, BOTTOM	
TOTAL ALKALINITY	WATER	TITRATION	PARTS PER MILLION	160	OBS	WEEKLY TO BIWEEKLY	SURFACE, BOTTOM	
AMMONIA	WATER	SPECTROPHOTOMETRY	MILLIGRAMS PER LITER	160	OBS	WEEKLY TO BIWEEKLY	SURFACE, BOTTOM	
ORGANIC NITROGEN	DISSOLVED	SPECTROPHOTOMETRY	MILLIGRAMS PER LITER	160	OBS	WEEKLY TO BIWEEKLY	SURFACE, BOTTOM	KJELDAHL
NITRATE	WATER	AUTOANALYZER	MICROGRAMS ATOMS/LITER	160	OBS	WEEKLY TO BIWEEKLY	SURFACE, BOTTOM	CADMIUM REDUCTION
NITRITE	WATER	AUTOANALYZER	MICROGRAMS ATOMS/LITER	160	OBS	WEEKLY TO BIWEEKLY	SURFACE, BOTTOM	CADMIUM REDUCTION
PHOSPHATE	WATER	AUTOANALYZER	MICROGRAMS ATOMS/LITER	160	OBS	WEEKLY TO BIWEEKLY	SURFACE, BOTTOM	
ORTHOPHOSPHATE	WATER	AUTOANALYZER	MICROGRAMS ATOMS/LITER	160	OBS	WEEKLY TO BIWEEKLY	SURFACE, BOTTOM	
ORGANIC CARBON	DISSOLVED	WET COMBUSTION/ INFRARED SPECTROMETRY	PARTS PER MILLION	160	OBS	WEEKLY TO BIWEEKLY	SURFACE, BOTTOM	
INORGANIC CARBON	DISSOLVED	WET COMBUSTION/ INFRARED SPECTROMETRY	PARTS PER MILLION	160	OBS	WEEKLY TO BIWEEKLY	SURFACE, BOTTOM	
SPECIES DETERMINATION OF PELAGIC FISH	WATER	KEY	NUMBER OF SPECIES PER TRAWL, NUMBER OF INDIVIDUALS PER SPECIES PER TRAWL	180	OBS	WEEKLY TO BIWEEKLY	SURFACE AND MID WATER	5 BY 5 FOOT COBB NET
COUNT OF PELAGIC FISH	WATER	VISUAL	NUMBER OF INDIVIDUALS PER TRAWL	300	OBS	WEEKLY TO BIWEEKLY	SURFACE AND MID WATER	180 OBSERVATIONS USED 5 BY 5 FOOT COBB NETS, 60 OBSERVATIONS CAPTURED LARVAL ALOSIDS WITH A ONE METER 376 MICRON MESH PLANKTON NET AND 60 OBSERVATIONS USED A JUDAY FIXED VOLUME TRAP

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
LENGTH OF PELAGIC FISH	WATER	FORK LENGTH	MILLIMETERS	180	OBS	WEEKLY TO BIWEEKLY	SURFACE AND MID WATER	UP TO 50 OF EACH SPECIES PER TRAWL
SECCHI DISC DEPTH	WATER	AVERAGE DEPTH	METERS	80	OBS	WEEKLY TO BIWEEKLY		
LIGHT EXTINCTION	WATER	TRANSMISSOMETER LOWERING	PERCENT OF TRANSMISSION	80	OBS	WEEKLY TO BIWEEKLY		

DATA COLLECTED: MAY 1971 TO OCTOBER 1971
RECEIVED: MAY 01, 1976

PROJECTS:
ANADROMOUS ALOSIDS

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, VIRGINIA, JAMES RIVER, POTOMAC RIVER, RAPPAHANNOCK RIVER, PAMUNKEY RIVER, MATTAPONI RIVER

ABSTRACT:
THE COMMUNITY STRUCTURE AND TROPHIC DYNAMICS OF ALOSID NURSERIES WERE STUDIED AT THE SURFACE AND BOTTOM IN THE LOWER RIVERS IN THE CHESAPEAKE BAY FOR 6 MONTHS. THE STUDY WAS PART OF THE PROGRAM OF BIOLOGY AND UTILIZATION OF ANADRAMOUS FISH. PHYSICAL/CHEMICAL PARAMETERS WERE ALSO STRESSED.

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
PUNCHED CARDS
PUNCHED CARDS FOR 15 STATIONS SAMPLED FOR 6 MONTHS

FUNDING:

INVENTORY:

PUBLICATIONS:
REPORTS SENT TO NATIONAL MARINE FISHERIES SERVICE, VIRGINIA MARINE FISHERIES COMMISSION, VIMS LIBRARY

CONTACT:
WALTER HOAGMAN 703-642-2111
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT VIRGINIA USA 23062

GRID LOCATOR (LAT):
730767 730776 730787 730786

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATIONS	15	STATIONS	MONTHLY		EACH STATION OCCUPIED 6 TIMES
TIME	EARTH	STATION TIME	YMDHL	90	STATIONS	MONTHLY		
TEMPERATURE	WATER	NON-REVERSING THERMOMETER	DEG C	270	OBS	MONTHLY	SURFACE MID DEPTH AND BOTTOM	
BATHYMETRY	WATER	UNCORRECTED SOUNDING DEPTH BASED ON 4800 FT/SEC	METERS	90	OBS	MONTHLY		
DISSOLVED	WATER	TITRATION	MG PER LITER	270	OBS	MONTHLY	SURFACE MID	WINKLER

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
OXYGEN GAS							DEPTH AND BOTTOM	
SECCHI DISC DEPTH	WATER	AVERAGE DEPTH	METERS	90	OBS	MONTHLY		
LIGHT EXTINCTION	WATER	TRANSMISSOMETER LOWERING	PER CENT TRANSMISSION	90	OBS	MONTHLY		
PHOTOSYNTHETIC RATE	WATER	CARBON-14 UPTAKE	MG CARBON FIXED PER CUBIC METER PER HOUR	90	OBS	MONTHLY	SURFACE	
PHOSPHATE	WATER	SPECTROPHOTOMETRY	MICROGRAMS PER LITER	180	OBS	MONTHLY	SURFACE AND BOTTOM	MOLYBDATE
NITRATE	WATER	SPECTROPHOTOMETRY	MICROGRAMS PER LITER	180	OBS	MONTHLY	SURFACE AND BOTTOM	CADMIUM REDUCTION
CHLOROPHYLL A	WATER	FLUOROMETRY	MG PER LITER	180	OBS	MONTHLY	SURFACE AND BOTTOM	ACETONE EXTRACTION
COUNT OF PELAGIC FISH	WATER	VISUAL	NUMBER OF INDIVIDUALS PER TRAWL	270	OBS	MONTHLY	SURFACE MID. DEPTH AND BOTTOM	90 OBSERVATIONS FOR EACH DEPTH STRATA, 5 X 5 FT COBB NET FOR SURFACE AND MIDWATER, 30 FOOT OTTER TRAWL 1/2 IN MESH LINER FOR BOTTOM SAMPLING
COUNT OF DEMERSAL FISH	WATER	VISUAL	NUMBER OF INDIVIDUALS PER TRAWL	270	OBS	MONTHLY	SURFACE MID DEPTH AND BOTTOM	90 OBSERVATIONS FOR EACH DEPTH STRATA, 5 X 5 FT COBB NET FOR SURFACE AND MIDWATER, 30 FOOT OTTER TRAWL 1/2 IN MESH LINER FOR BOTTOM SAMPLING
SPECIES DETERMINATION OF PELAGIC FISH	WATER	KEY	NUMBER OF SPECIES PER TRAWL PER STATION PER DEPTH STRATA, NUMBER OF INDIVIDUALS PER SPECIES PER SAMPLING EFFORT	270	OBS	MONTHLY	SURFACE MID DEPTH AND BOTTOM	90 OBSERVATIONS FOR EACH DEPTH STRATA, 5 X 5 FT COBB NET FOR SURFACE AND MIDWATER, 30 FOOT OTTER TRAWL 1/2 IN MESH LINER FOR BOTTOM SAMPLING
SPECIES DETERMINATION OF DEMERSAL FISH	WATER	KEY	NUMBER OF SPECIES PER TRAWL PER STATION PER DEPTH STRATA,	270	OBS	MONTHLY	SURFACE MID DEPTH AND BOTTOM	90 OBSERVATIONS FOR EACH DEPTH STRATA, 5 X 5 FT COBB NET FOR SURFACE

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
			NUMBER OF INDIVIDUALS PER SPECIES PER SAMPLING EFFORT					AND MIDWATER, 30 FOOT OTTER TRAWL 1/2 IN MESH LINER FOR BOTTOM SAMPLING
LENGTH OF PELAGIC FISH	WATER	FORK LENGTH	MILLIMETERS	270	OBS	MONTHLY	SURFACE MID DEPTH AND BOTTOM	UP TO 50 INDIVIDUALS SAMPLED OF EACH SPECIES PER TRAWL
LENGTH OF DEMERSAL FISH	WATER	FORK LENGTH	MILLIMETERS	270	OBS	MONTHLY	SURFACE MID DEPTH AND BOTTOM	UP TO 50 INDIVIDUALS SAMPLED OF EACH SPECIES PER TRAWL
STOMACH CONTENT ANALYSIS OF PELAGIC FISH	WATER	VISUAL	PERCENT SPECIES COMPOSITION OF INGESTED ZOOPLANKTON	270	OBS	MONTHLY	SURFACE MID DEPTH AND BOTTOM	UP TO 10 INDIVIDUALS SAMPLED PER TRAWL OF EACH ALOSA SP, DATA AVAILABLE ON APPROX 500 ALOSIDS
COUNT OF ZOOPLANKTON	WATER	FIXED, UNSTAINED, WHOLE	NUMBER OF ZOOPLANKTERS PER CUBIC METER AND NUMBER OF ZOOPLANKTERS PER TRAWL	180	OBS	MONTHLY	0 TO 10 FT	1 METER DIAMETER CONE SHAPED NET, 376 MICRON MESH, 5 MIN TRAWL AND WATER PUMPED INTO SLEEVE NETS, 202 MICRON MESH, 35 MICRON MESH AT EACH STATION

DATA COLLECTED: JUNE 1971 TO AUGUST 1971 RECEIVED: MAY 30, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, VIRGINIA THIMBLE SHOAL CHANNEL, NEWPORT NEWS CHANNEL, NORFOLK HARBOR CHANNEL, RAPPAHANNOCK RIVER CHANNEL, CAPE HENRY SHOAL CHANNEL, YORK RIVER SPIT CHANNEL, YORK RIVER ENTRANCE CHANNEL

ABSTRACT:
A STUDY OF CHANNEL SEDIMENTS IN 7 LOWER CHESAPEAKE BAY RIVERS WAS MADE FROM THE SURFACE TO FIFTEEN FEET DEPENDING ON DEPTH OF WATER AND CORE RECOVERY AND SENT IN A REPORT TO THE CORPS OF ENGINEERS.

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
A REPORT OF 9 PARAMETERS AT 7 STATIONS - 200 OBS/PARAMETER

FUNDING:

INVENTORY:

PUBLICATIONS:
REPORT TO CORPS OF ENGINEERS

CONTACT:
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VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT VIRGINIA USA 23062

GRID LOCATOR (LAT):
730776 730766

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP POSITIONS	7	STATIONS			
TIME	EARTH	STATION TIME	YMDL	7	STATIONS			
TOTAL SOLIDS	SEDIMENT	DRY WEIGHT	PERCENT	200	OBS		SURFACE TO FIFTEEN FEET DEPENDING ON DEPTH OF WATER AND CORE RECOVERY	
VOLATILE TOTAL SOLIDS	SEDIMENT	ASH WEIGHT	PERCENT	200	OBS		SURFACE TO FIFTEEN FEET DEPENDING ON DEPTH OF WATER AND CORE RECOVERY	

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
CHEMICAL OXYGEN DEMAND	SEDIMENT	DIGESTION	PERCENT	200	OBS		SURFACE TO FIFTEEN FEET DEPENDING ON DEPTH OF WATER AND CORE RECOVERY	
ORGANIC NITROGEN	SEDIMENT	SPECTROPHOTOMETRY	PARTS PER MILLION	200	OBS		SURFACE TO FIFTEEN FEET DEPENDING ON DEPTH OF WATER AND CORE RECOVERY	KJELDAHL
PHOSPHORUS	SEDIMENT	SPECTROPHOTOMETRY	PARTS PER MILLION	200	OBS		SURFACE TO FIFTEEN FEET DEPENDING ON DEPTH OF WATER AND CORE RECOVERY	MOLYBDATE
COPPER	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	200	OBS		SURFACE TO FIFTEEN FEET DEPENDING ON DEPTH OF WATER AND CORE RECOVERY	NITRIC ACID DIGESTION
ZINC	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	200	OBS		SURFACE TO FIFTEEN FEET DEPENDING ON DEPTH OF WATER AND CORE RECOVERY	NITRIC ACID DIGESTION
LEAD	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	200	OBS		SURFACE TO FIFTEEN FEET DEPENDING ON DEPTH OF WATER AND CORE RECOVERY	NITRIC ACID DIGESTION
MERCURY	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	200	OBS		SURFACE TO FIFTEEN FEET DEPENDING ON DEPTH OF WATER AND CORE RECOVERY	SULFURIC ACID DIGESTION

DISTRIBUTION AND STRUCTURE OF BENTHIC COMMUNITIES ALONG AN ESTUARINE GRADIENT, THE CHESAPEAKE-YORK-PAMUNKEY ESTUARY

DATA COLLECTED: AUGUST 1969 TO MAY 1970

RECEIVED: JULY 06, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, VIRGINIA, YORK RIVER, PAMUNKEY RIVER

ABSTRACT:
STUDIES OF THE BENTHIC COMMUNITIES IN AN ESTUARY IN RELATION TO THE SALINITY GRADIENT, DISSOLVED OXYGEN LEVELS, TEMPERATURE AND SEDIEMENT. BENTHIC COMMUNITY STRUCTURE ANALYSIS BY USE OF COMPUTER ORDINATION AND CLA SIFICATION.

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
PUNCHED CARDS
10 STATIONS SAMPLED AT 3 MONTH INTERVALS FOR ONE YEAR. THREE REPLICATES AT EACH STATION, APPROX 150 SAMPLES ANALYZED.

FUNDING:

INVENTORY:

PUBLICATIONS:
VIMS DISSERTATION

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GRID LOCATOR (LAT):
730776

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	10	STATIONS	4 TIMES PER YEAR		
TIME	EARTH	STATION TIME	YMDL	80	STATIONS	4 TIMES PER YEAR		
TEMPERATURE	WATER	NON-REVERSING THERMOMETER	DEG C	80	OBS	4 TIMES PER YEAR	SURFACE AND BOTTOM	
SALINITY	WATER	CONDUCTIVITY	PARTS PER THOUSAND	80	OBS	4 TIMES PER YEAR	SURFACE AND BOTTOM	
DISSOLVED OXYGEN GAS	WATER	TITRATION	MILLIGRAMS PER LITER	80	OBS	4 TIMES PER YEAR	SURFACE AND BOTTOM	
BATHYMETRY	WATER	LEAD LINE	FEET	10	OBS			
COUNT OF BENTHIC ANIMALS	BOTTOM	VISUAL	NUMBER OF INDIVIDUALS PER SAMPLE	150	OBS	4 TIMES PER YEAR	BOTTOM	THREE REPLICATES AT EACH STATION VAN

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
								VEEN GRAB .07 MSQ
SPECIES DETERMINATION OF BENTHIC ANIMALS	BOTTOM	KEY	NUMBER OF SPECIES PER SAMPLE, NUMBER OF INDIVIDUALS PER SPECIES	150	OBS	4 TIMES PER YEAR	BOTTOM	THREE REPLICATES AT EACH STATION VAN VEEN GRAB .07 MSQ
DIVERSITY INDEX OF BENTHIC ANIMALS	BOTTOM	SHANNON-WEAVER	NUMBERS	150	OBS	4 TIMES PER YEAR	BOTTOM	SPECIES RICHNESS, SPECIES EVENNESS, COMPUTER ORDINATION AND CLASSIFICATION
SIZE ANALYSIS	SEDIMENT	SIEVE	PERCENT SAND, SILT AND CLAY	40	OBS	4 TIMES PER YEAR	BOTTOM	ALSO SETTLING/ VISUAL METHOD
ORGANIC CARBON	WATER	WET COMBUSTION/ TITRATION	PERCENT	40	OBS	4 TIMES PER YEAR	BOTTOM	

DATA COLLECTED: SEPTEMBER 1972 TO PRESENT

RECEIVED: JULY 06, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, POTOMAC RIVER, MARYLAND, MORGANTOWN

ABSTRACT:
EFFECTS ON ORGANISMS PUMPED THROUGH A COOLING SYSTEM AT THE MORGANTOWN, MARYLAND STEAM ELECTRIC STATION. FOLLOWING PARAMETERS WERE MEASURED: TEMPERATURE, SALINITY, CHLORINITY, DISSOLVED OXYGEN, TOTAL CHLOROPHYLL, PHOTOSYNTHETIC RATE.

DATA AVAILABILITY:
REPORTS SENT TO MARYLAND DEPT OF NATURAL RESOURCES: SEASONAL AND MANIPULATED EFFORTS OF POWER PLANT OPERATIONS

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
OBSERVATIONS MADE AT 10 DIFFERENT STATIONS ON A QUARTERLY BASIS WITH 480 SAMPLES OF ORGANISMS OBTAINED.

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
JOSEPH A MIHURSKY 301-535-2121
NATURAL RESOURCES INSTITUTE
HALLOWING POINT FIELD STATION, ROUTE 1
PRINCE FREDERICK MARYLAND USA 20678

GRID LOCATOR (LAT):
730786

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	10	STATIONS	QUARTERLY		
TIME	EARTH	STATION TIME	YMDL	40	STATIONS	QUARTERLY		
TEMPERATURE	WATER	THERMISTOR	DEG C	120	OBS	QUARTERLY	SURFACE, MID, BOTTOM	
SALINITY	WATER	CONDUCTIVITY	PARTS PER THOUSAND	120	OBS	QUARTERLY	SURFACE, MID, BOTTOM	
CHLORINITY	WATER	TITRATION	PARTS PER MILLION	120	OBS	QUARTERLY	SURFACE, MID, BOTTOM	
DISSOLVED OXYGEN GAS	WATER	SPECIFIC ION ELECTRODE	MILLIGRAMS PER LITER	120	OBS	QUARTERLY	SURFACE, MID, BOTTOM	
TOTAL CHLOROPHYL L	WATER	FLUOROMETRY	MILLIGRAMS PER LITER	480	OBS	QUARTERLY	SURFACE, MID, BOTTOM	24 HOUR STUDIES EVERY 2 TO 3 HOURS

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
COUNT OF PHYTOPLANKTON	WATER	COUNTING CHAMBER	NUMBER OF CELLS PER LITER	480	OBS	QUARTERLY	SURFACE, MID, BOTTOM	GREATER THAN 10 MICRONS
COUNT OF ZOOPLANKTON	WATER	FIXED, STAINED, WHOLE	NUMBER OF INDIVIDUALS PER CUBIC METER	480	OBS	QUARTERLY	SURFACE, MID, BOTTOM	
COUNT OF ZOOPLANKTON	WATER	VISUAL	NUMBER OF INDIVIDUALS PER 100 CUBIC METERS	480	OBS	QUARTERLY	SURFACE, MID, BOTTOM	MACROPLANKTON
PHOTOSYNTHETIC RATE	WATER	CARBON-14 UPTAKE	MILLIGRAMS PER LITER, FIXED CUBIC METER PER HOUR	480	OBS	QUARTERLY	SURFACE, MID, BOTTOM	MACROPLANKTON

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, MARYLAND, PATUXENT RIVER

ABSTRACT:
SURVEY OF THE ZOOPLANKTON IN THE PATUXENT RIVER, MARYLAND IN RELATION TO BIOTIC AND ABIOTIC FACTORS. COMMUNITY STRUCTURE ANALYSIS ON ZOOPLANKTON INCLUDE DIVERSITY, EVENNESS, RICHNESS AND INFORMATION THEORY.

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
8 STATIONS SAMPLED APPROX BIWEEKLY. DATA INCLUDES 960 MEASUREMENTS OF ABIOTIC PARAMETERS. 1440 WATER SAMPLES PROCESSED

FUNDING:

INVENTORY:

PUBLICATIONS:
ZOOPLANKTON AND THE ENVIRONMENTAL CHARACTERISTICS OF THE PATUXENT RIVER ESTUARY, CHES SCI, 9(2)

CONTACT:
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NATURAL RESOURCES INSTITUTE
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GRID LOCATOR (LAT):
730786

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	8	STATIONS	BIWEEKLY		
TIME	EARTH	STATION TIME	YMDL	480	STATIONS	BIWEEKLY		
TEMPERATURE	WATER	THERMISTOR	DEG C	960	OBS	BIWEEKLY	SURFACE, BOTTOM	
SALINITY	WATER	CONDUCTIVITY	PARTS PER THOUSAND	960	OBS	BIWEEKLY	SURFACE, BOTTOM	
LIGHT ATTENUATION	WATER	SPECTROPHOTOMETRY	PARTS PER MILLION	960	OBS	BIWEEKLY	SURFACE, BOTTOM	AS SILICA DIOXIDE
CHLOROPHYLL A	WATER	FLUOROMETRY	MILLIGRAMS PER CUBIC METER	960	OBS	BIWEEKLY	SURFACE, BOTTOM	
NITRATE	WATER	SPECTROPHOTOMETRY	MICROGRAM ATOMS PER LITER	960	OBS	BIWEEKLY	SURFACE, BOTTOM	
ORTHOPHOSPHATE	WATER	SPECTROPHOTOMETRY	MICROGRAM ATOMS PER LITER	960	OBS	BIWEEKLY	SURFACE, BOTTOM	

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
SILICATE	WATER	SPECTROPHOTOMETRY	MICROGRAM ATOMS PER LITER	960	OBS	BIWEEKLY	SURFACE, BOTTOM	
COUNT OF ZOOPLANKTON	WATER	FIXED, STAINED, WHOLE	NUMBER OF INDIVIDUALS PER CUBIC METER	1440	OBS	BIWEEKLY		OBLIQUE TOWS, 1/2 METER NET, 370 MICRON MESH, 5 MINUTE SURFACE, 5 MINUTE BOTTOM, 5 MINUTE MID DEPTH
SPECIES DETERMINATION OF ZOOPLANKTON	WATER	KEY	NUMBER OF SPECIES PER CUBIC METER, NUMBER OF INDIVIDUALS PER SPECIES	1440	OBS	BIWEEKLY		OBLIQUE TOWS, 1/2 METER NET, 370 MICRON MESH, 5 MINUTE SURFACE, 5 MINUTE BOTTOM, 5 MINUTE MID DEPTH.
VOLUME DETERMINATION OF ZOOPLANKTON	WATER	DISPLACEMENT	VOLUME PER CUBIC METER	1440	OBS	BIWEEKLY		OBLIQUE TOWS, 1/2 METER NET, 370 MICRON MESH, 5 MINUTE SURFACE, 5 MINUTE BOTTOM, 5 MINUTE MID DEPTH
DIVERSITY INDEX OF ZOOPLANKTON	WATER	SHANNON-WEAVER	VOLUME PER CUBIC METER	1440	OBS	BIWEEKLY		EVENNESS INDEX (I) COMPUTED, SPECIES RICHNESS (S-1), (D) INFORMATION THEORY

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, MARYLAND, POTOMAC RIVER

ABSTRACT:
STUDIES ON THE RATE OF PRIMARY PRODUCTIVITY RELATED TO VARIOUS ABIOTIC PARAMETERS. PRODUCTIVITY RATES CORRELATED TO CHLOROPHYLL CONCENTRATION. SPECIAL EMPHASIS PLACED ON THE PRODUCTIVITY RATES OF THE NANNOPLANKTON (SAMPLED MARCH, MAY, JUNE, AUGUST, OCTOBER, NOVEMBER, 2 DAYS EACH MONTH)

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
3 STATIONS, 216 MEASUREMENTS OF ENVIRONMENTAL PARAMETERS, 36 SAMPLES PROCESSED FOR PHYTOPLANKTON

FUNDING:

INVENTORY:

PUBLICATIONS:
REPORTS SENT TO ACADEMY OF NATURAL SCIENCE OF PHILADELPHIA

CONTACT:
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BENEDICT MARYLAND USA 20612

GRID LOCATOR (LAT):
730787 730786

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	3	STATIONS			
TIME	EARTH	STATION TIME	YMDL	216	STATIONS			
DISSOLVED OXYGEN GAS	WATER	TITRATION	MILLIGRAMS PER LITER	216	OBS		SURFACE 1, 2, 3, 4, 5 METERS	WINKLER
SALINITY	WATER	CONDUCTIVITY	PARTS PER THOUSAND	500	OBS		SURFACE AND BOTTOM AT 1 METER INTERVALS	
TEMPERATURE	WATER	NON-REVERSING THERMOMETER	DEG C	500	OBS		SURFACE AND BOTTOM AT 1 METER INTERVALS	
PHOTOSYNTHETIC	WATER	OXYGEN DETERMINAT	MILLIGRAMS OF	216	OBS		SURFACE 1, 2,	COMPUTED, GROSS

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
RATE		ION	OXYGEN PER CUBIC METER PER HOUR				3, 4, 5 METERS	PRODUCTION, NET PRODUCTION AND RESPIRATION RATES, INTEGRAL PHOTOSYNTHETIC RATES COMPUTED
CHLOROPHYLL A	WATER	SPECTROPHOTOMETRY	MILLIGRAMS PER LITER	216	OBS		SURFACE 1, 2, 3, 4, 5 METERS	ACETONE EXTRACTION
CHLOROPHYLL B	WATER	SPECTROPHOTOMETRY	MILLIGRAMS PER LITER	216	OBS		SURFACE 1, 2, 3, 4, 5 METERS	ACETONE EXTRACTION
CHLOROPHYLL C	WATER	SPECTROPHOTOMETRY	MILLIGRAMS PER LITER	216	OBS		SURFACE 1, 2, 3, 4, 5 METERS	ACETONE EXTRACTION
CAROTENOIDS	WATER	SPECTROPHOTOMETRY	MILLIGRAMS PER LITER	216	OBS		SURFACE 1, 2, 3, 4, 5 METERS	ACETONE EXTRACTION
COUNT OF PHYTOPLANKTON	WATER	COUNTING CHAMBER	NUMBER OF INDIVIDUALS PER MILLILITER	36	OBS		SURFACE	SPECIAL EMPHASIS ON NANNOPLANKTON, PALMER CELL
SPECIES DETERMINATION OF PHYTOPLANKTON	WATER	KEY	NUMBER OF SPECIES PER SAMPLE, NUMBER OF INDIVIDUALS PER SPECIES	36	OBS		SURFACE	SPECIAL EMPHASIS ON NANNOPLANKTON, PALMER CELL
NORMAL INCIDENCE RADIATION	ATMOSPHERE	PYRHELIOMETER	LANGLEYS	36	OBS		SEA LEVEL	
LIGHT ATTENUATION	WATER	IN SITU TRANSMISSOMETER	PERCENT TRANSMISSION	216	OBS		SURFACE 1, 2, 3, 4, 5 METERS	
SECCHI DISC DEPTH	WATER	AVERAGE DEPTH	METERS	36	OBS			

DATA COLLECTED: APRIL 1971 TO PRESENT
RECEIVED: JULY 06, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, MARYLAND, CALVERT CLIFFS AREA

ABSTRACT:
STUDIES ON THE RATE OF PRIMARY PRODUCTIVITY IN THE WATERS NEAR THE CALVERT CLIFFS POWER STATION; RESPIRATION RATES COMPUTED. VARIOUS BIOTIC AND ABIOTIC PARAMETERS MEASURED. SPECIAL EMPHASIS ON PRODUCTIVITY OF NANNOPLANKTON (STATION OCCUPIED APRIL, SEPTEMBER, DECEMBER)

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
3 STATION SAMPLED 6 TIMES PER YEAR. 12 SAMPLES PROCESSED FOR PHYTOPLANKTON IDENTIFICATION

FUNDING:

INVENTORY:

PUBLICATIONS:
REPORTS TO ACADEMY OF NATURAL SCIENCE OF PHILADELPHIA

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GRID LOCATOR (LAT):
730786

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	3	STATIONS			
TIME	EARTH	STATION TIME	YMDL	60	STATIONS	6 TIMES PER YEAR		
DISSOLVED OXYGEN GAS	WATER	TITRATION	MILLIGRAMS PER LITER	60	OBS	6 TIMES PER YEAR	SURFACE 1, 2, 3, 4, 5 METERS	WINKLER
SALINITY	WATER	CONDUCTIVITY	PARTS PER THOUSAND	96	OBS	6 TIMES PER YEAR	SURFACE AND BOTTOM AT 1 METER INTERVALS	
TEMPERATURE	WATER	NON-REVERSING THERMOMETER	DEG C	96	OBS	6 TIMES PER YEAR	SURFACE AND BOTTOM AT 1 METER INTERVALS	

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
PHOTOSYNTHETIC RATE	WATER	OXYGEN DETERMINATION	MILLIGRAMS OF OXYGEN PER CUBIC METER PER HOUR	60	OBS	6 TIMES PER YEAR	SURFACE 1, 2, 3, 4, 5 METERS	COMPUTED GROSS PRODUCTION, NET PRODUCTION AND RESPIRATION RATES, INTEGRAL PHOTOSYNTHETIC RATES COMPUTED
CHLOROPHYLL A	WATER	SPECTROPHOTOMETRY	MILLIGRAMS PER LITER	96	OBS	6 TIMES PER YEAR	SURFACE 1, 2, 3, 4, 5 METERS	ACETONE EXTRACTION
CHLOROPHYLL B	WATER	SPECTROPHOTOMETRY	MILLIGRAMS PER LITER	96	OBS	6 TIMES PER YEAR	SURFACE 1, 2, 3, 4, 5 METERS	ACETONE EXTRACTION
CHLOROPHYLL C	WATER	SPECTROPHOTOMETRY	MILLIGRAMS PER LITER	96	OBS	6 TIMES PER YEAR	SURFACE 1, 2, 3, 4, 5 METERS	ACETONE EXTRACTION
CAROTENOIDS	WATER	SPECTROPHOTOMETRY	MILLIGRAMS PER LITER	96	OBS	6 TIMES PER YEAR	SURFACE 1, 2, 3, 4, 5 METERS	ACETONE EXTRACTION
COUNT OF PHYTOPLANKTON	WATER	COUNTING CHAMBER	NUMBER OF INDIVIDUALS PER MILLILITER	60	OBS	6 TIMES PER YEAR	SURFACE	SPECIAL EMPHASIS ON NANNOPLANKTON, PALMER CELL
SPECIES DETERMINATION OF PHYTOPLANKTON	WATER	KEY	NUMBER OF SPECIES PER SAMPLE, NUMBER OF INDIVIDUALS PER SPECIES	60	OBS	6 TIMES PER YEAR	SURFACE	SPECIAL EMPHASIS ON NANNOPLANKTON, PALMER CELL
NORMAL INCIDENCE RADIATION	ATMOSPHERE	PYRHELIOMETER	LANGLEYS	12	OBS	6 TIMES PER YEAR	SEA LEVEL	
LIGHT ATTENUATION	WATER	IN SITU TRANSMISSOMETER	PERCENT TRANSMISSION	12	OBS	6 TIMES PER YEAR	SURFACE 1, 2, 3, 4, 5 METERS	
SECCHI DISC DEPTH	WATER	AVERAGE DEPTH	METERS	12	OBS	6 TIMES PER YEAR	SURFACE 1, 2, 3, 4, 5 METERS	

DATA COLLECTED: JUNE 1971 TO PRESENT
RECEIVED: JULY 06, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, MARYLAND, PATUXENT RIVER

ABSTRACT:
STUDIES ON THE RATE OF PRIMARY PRODUCTIVITY RELATED TO VARIOUS ABIOTIC PARAMETERS. PRODUCTIVITY RATES CORRELATED TO CHLOROPHYLL CONCENTRATION. SPECIAL EMPHASIS PLACED ON PRODUCTIVITY RATES OF THE NANNOPLANKTON. (SAMPLED JULY, AUGUST, SEPTEMBER, OCTOBER)

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
3 STATIONS, 100 MEASUREMENTS OF ENVIRONMENTAL PARAMETERS, 24 SAMPLES PROCESSED FOR PHYTOPLANKTON

FUNDING:

INVENTORY:

PUBLICATIONS:
REPORTS TO ACADEMY OF NATURAL SCIENCE OF PHILADELPHIA

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GRID LOCATOR (LAT):
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PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	3	STATIONS			
TIME	EARTH	STATION TIME	YMDL	24	STATIONS			
DISSOLVED OXYGEN GAS	WATER	TITRATION	MILLIGRAMS PER LITER	100	OBS		SURFACE, 1, 2, 3, 4, 5 METERS	WINKLER
SALINITY	WATER	CONDUCTIVITY	PARTS PER THOUSAND	200	OBS		SURFACE AND BOTTOM AT 1 METER INTERVALS	
TEMPERATURE	WATER	NON-REVERSING THERMOMETER	DEG-C	200	OBS		SURFACE AND BOTTOM AT 1 METER INTERVALS	
PHOTOSYNTHETIC	WATER	OXYGEN DETERMINAT	MILLIGRAMS OF	100	OBS		SURFACE, 1,	COMPUTED, GROSS

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
RATE		ION	OXYGEN PER CUBIC METER PER HOUR			2, 3, 4, 5 METERS	PRODUCTION, NET PRODUCTION, AND RESPIRATION RATES, INTEGRAL PHOTOSYNTHETIC RATES COMPUTED
CHLOROPHYLL A	WATER	SPECTROPHOTOMETRY	MILLIGRAMS PER LITER	100 OBS		SURFACE, 1, 2, 3, 4, 5 METERS	ACETONE EXTRACTION
CHLOROPHYLL B	WATER	SPECTROPHOTOMETRY	MILLIGRAMS PER LITER	100 OBS		SURFACE, 1, 2, 3, 4, 5 METERS	ACETONE EXTRACTION
CHLOROPHYLL C	WATER	SPECTROPHOTOMETRY	MILLIGRAMS PER LITER	100 OBS		SURFACE, 1, 2, 3, 4, 5 METERS	ACETONE EXTRACTION
CAROTENOIDS	WATER	SPECTROPHOTOMETRY	MILLIGRAMS PER LITER	100 OBS		SURFACE, 1, 2, 3, 4, 5 METERS	ACETONE EXTRACTION
COUNT OF PHYTOPLANKTON	WATER	COUNTING CHAMBER	NUMBER OF INDIVIDUALS PER MILLILITER	24 OBS		SURFACE	SPECIAL EMPHASIS ON NANNOPLANKTON, PALMER CELL
SPECIES DETERMINATION OF PHYTOPLANKTON	WATER	KEY	NUMBER OF SPECIES PER SAMPLE, NUMBER OF INDIVIDUALS PER SPECIES	24 OBS		SURFACE	SPECIAL EMPHASIS ON NANNOPLANKTON, PALMER CELL
NORMAL INCIDENCE RADIATION	ATMOSPHERE	PYRHELIOMETER	LANGLEYS	24 OBS		SEA LEVEL	
LIGHT ATTENUATION	WATER	IN SITU TRANSMISSOMETER	PERCENT TRANSMISSION	100 OBS		SURFACE, 1, 2, 3, 4, 5 METERS	
SECCHI DISC DEPTH	WATER	AVERAGE DEPTH	METERS	24 OBS			

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, MARYLAND, CALVERT CLIFFS

ABSTRACT:
STUDIES ON THE RATE OF PRIMARY PRODUCTIVITY RELATED TO VARIOUS ABIOTIC PARAMETERS. PRODUCTIVITY RATES CORRELATED TO CHLOROPHYLL CONCENTRATION. SPECIAL EMPHASIS PLACED ON THE PRODUCTIVITY RATES OF THE NANNOPLANKTON.

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
1 STATION, 24 MEASUREMENTS OF ENVIRONMENTAL PARAMETERS, 48 SAMPLES PROCESSED FOR PHYTOPLANKTON

FUNDING:

INVENTORY:

PUBLICATIONS:
REPORTS SENT TO ACADEMY OF NATURAL SCIENCE OF PHILADELPHIA

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GRID LOCATOR (LAT):
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PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	1	STATIONS	MONTHLY		
TIME	EARTH	STATION TIME	YMDL	24	STATIONS	MONTHLY		
DISSOLVED OXYGEN GAS	WATER	TITRATION	MILLIGRAMS PER LITER	48	OBS	MONTHLY	SURFACE, BOTTOM	WINKLER
BATHYMETRY	WATER	LEAD LINE	METERS	1	OBS			
PHOTOSYNTHETIC RATE	WATER	OXYGEN DETERMINATION	MILLIGRAMS OF OXYGEN PER CUBIC METER PER HOUR	48	OBS	MONTHLY	SURFACE, BOTTOM	COMPUTED NET AND GROSS PHOTOSYNTHESIS AND RESPIRATION RATES
CHLOROPHYLL A	WATER	SPECTROPHOTOMETRY	MILLIGRAMS PER LITER	48	OBS	MONTHLY	SURFACE, BOTTOM	
CAROTENOIDS	WATER	SPECTROPHOTOMETRY	MILLIGRAMS PER LITER	48	OBS	MONTHLY	SURFACE, BOTTOM	
COUNT OF	WATER	COUNTING CHAMBER	NUMBER OF	48	OBS	MONTHLY	SURFACE,	EMPHASIS ON

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
PHYTOPLANKTON			INDIVIDUALS PER MILLILITER				BOTTOM	NANNOPLANKTON, PALMER CELL
SPECIES DETERMINATION OF PHYTOPLANKTON	WATER	KEY	NUMBER OF SPECIES PER SAMPLE NUMBER OF INDIVIDUALS PER SPECIES	43	OBS	MONTHLY	SURFACE, BOTTOM	EMPHASIS ON NANNOPLANKTON, PALMER CELL
TEMPERATURE	WATER	NON-REVERSING THERMOMETER	DEG C	43	OBS		SURFACE, BOTTOM	
SALINITY	WATER	CONDUCTIVITY	PARTS PER THOUSAND	48	OBS		SURFACE, BOTTOM	
LIGHT ATTENUATION	WATER	IN SITU TRANSMISSOMETER	PERCENT OF TRANSMISSION	24	OBS		SURFACE, BOTTOM	
NORMAL INCIDENCE RADIATION	ATMOSPHERE	PYRHELIOMETER	LANGLEYS	24	OBS		SEA LEVEL	
SECCHI DISC DEPTH	WATER	AVERAGE DEPTH	METERS	24	OBS			

DATA COLLECTED: OCTOBER 1969 TO PRESENT
RECEIVED: JULY 13, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, MARYLAND, PATUXENT RIVER, POTOMAC RIVER, CALVERT CLIFFS AREA

ABSTRACT:
HYDROGRAPHIC, CHEMICAL, AND BACTERIOLOGICAL SURVEY OF PATUXENT RIVER, POTOMAC RIVER, CALVERT CLIFFS AREA, MARYLAND

DATA AVAILABILITY:
NOT ALL STATIONS AT SURFACE AND BOTTOM FOR HEAVY METALS. METALS ARE EXAMINED AT SURFACE AND BOTTOM ON CHESAPEAKE BAY AND POTOMAC RIVER, SURFACE ONLY ON PATUXENT RIVER

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
38 PARAMETERS MEASURED MONTHLY

FUNDING:

INVENTORY:

PUBLICATIONS:

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GRID LOCATOR (LAT):
730787 730786

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	DM	16	STATIONS	MONTHLY		
TIME	EARTH	STATION TIME	YMDL	768	STATIONS	MONTHLY		
IRON	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	768	OBS	MONTHLY	SURFACE AND BOTTOM	
MANGANESE	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	768	OBS	MONTHLY	SURFACE AND BOTTOM	
SODIUM	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	768	OBS	MONTHLY	SURFACE AND BOTTOM	
POTASSIUM	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	768	OBS	MONTHLY	SURFACE AND BOTTOM	
COPPER	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	768	OBS	MONTHLY	SURFACE AND BOTTOM	
LEAD	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	768	OBS	MONTHLY	SURFACE AND BOTTOM	
ZINC	WATER	ATOMIC ABSORPTION	PARTS PER	768	OBS	MONTHLY	SURFACE AND	

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
CHROMIUM	WATER	SPECTROMETRY ATOMIC ABSORPTION	MILLION PARTS PER	768	OBS	MONTHLY	BOTTOM SURFACE AND	
COBALT	WATER	SPECTROMETRY ATOMIC ABSORPTION	MILLION PARTS PER	768	OBS	MONTHLY	BOTTOM SURFACE AND	
CADMIUM	WATER	SPECTROMETRY ATOMIC ABSORPTION	MILLION PARTS PER	768	OBS	MONTHLY	BOTTOM SURFACE AND	
NICKEL	WATER	SPECTROMETRY ATOMIC ABSORPTION	MILLION PARTS PER	768	OBS	MONTHLY	BOTTOM SURFACE AND	
STRONTIUM	WATER	SPECTROMETRY ATOMIC ABSORPTION	MILLION PARTS PER	768	OBS	MONTHLY	BOTTOM SURFACE AND	
BORON	WATER	SPECTROMETRY COLORIMETRY	MILLION PARTS PER	768	OBS	MONTHLY	BOTTOM SURFACE AND	CARMINE DYE
DEPTH	WATER	WIRE LENGTH	MILLION METERS	768	OBS	MONTHLY	BOTTOM	
TEMPERATURE	WATER	THERMISTOR	DEG C	768	OBS	MONTHLY	SURFACE AND	
PH	WATER	SPECIFIC ION	PARTS PER	768	OBS	MONTHLY	BOTTOM SURFACE AND	
SALINITY	WATER	ELECTRODE TITRATION	MILLION PARTS PER	768	OBS	MONTHLY	BOTTOM SURFACE AND	MOHR
CHLORIDE	WATER	TITRATION	THOUSAND PARTS PER	768	OBS	MONTHLY	BOTTOM SURFACE AND	MOHR
CALCIUM	WATER	TITRATION	MILLION PARTS PER	768	OBS	MONTHLY	BOTTOM SURFACE AND	
SILICATE	WATER	SPECTROPHOTOMETRY	MILLION PARTS PER	768	OBS	MONTHLY	BOTTOM SURFACE AND	AMMONIUM
PHOSPHORUS	WATER	SPECTROPHOTOMETRY	MILLION PARTS PER	768	OBS	MONTHLY	BOTTOM SURFACE AND	MOLYBDATE
ORTHOPHOSPHATE	WATER	SPECTROPHOTOMETRY	MILLION PARTS PER	768	OBS	MONTHLY	BOTTOM SURFACE AND	.KJELDAHL NITROGEN S-WATER M-TITRATION U-PARTS PER MILLION T-OBS Q-768 F-MONTHLY H-SURFACE AND BOTTOM R-DISTILLATION, AUTOANALYZER
DISSOLVED OXYGEN GAS	WATER	TITRATION	MILLION PARTS PER	768	OBS	MONTHLY	BOTTOM SURFACE AND	WINKLER
BIOCHEMICAL OXYGEN DEMAND	WATER	TITRATION	MILLION PARTS PER	768	OBS	MONTHLY	BOTTOM SURFACE AND	5 DAY STABILITY METHOD
TOTAL CARBON DIOXIDE	WATER	CALCULATED	MILLION PARTS PER	768	OBS	MONTHLY	BOTTOM SURFACE AND	
WEATHER	AIR	VISUAL	MILLION GENERAL	768	OBS	MONTHLY	BOTTOM	CBI DATA REPORT
MAGNESIUM	WATER	ATOMIC ABSORPTION	OBSERVATIONS PARTS PER	768	OBS	MONTHLY		18 REF 54-5
SULFATE	WATER	SPECTROMETRY NEPHELOMETRY	MILLION PARTS PER	768	OBS	MONTHLY	SURFACE AND	BARIUM SULFATE
NITRITE	WATER	SPECTROPHOTOMETRY	MILLION PARTS PER	768	OBS	MONTHLY	BOTTOM SURFACE AND	ALPHA NAPTHLAMIN

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
NITRATE	WATER	SPECTROPHOTOMETRY	MILLION PARTS PER MILLION	768	OBS	MONTHLY	BOTTOM SURFACE AND BOTTOM	E CADMIUM REDUCTION
AMMONIA	WATER	TITRATION	PARTS PER MILLION	768	OBS	MONTHLY	SURFACE AND BOTTOM	DISTILLATION, AUTOANALYZER
COUNT OF MICROBIOTA	WATER	FILTRATION	MILLIGRAMS PER LITER	768	OBS	MONTHLY	SURFACE AND BOTTOM	BACTERIAL COUNT
LIGHT ATTENUATION	WATER	SPECTROPHOTOMETRY	PARTS PER MILLION	768	OBS	MONTHLY	SURFACE AND BOTTOM	
CARBONATE ION	WATER	CALCULATED	PARTS PER MILLION	768	OBS	MONTHLY	SURFACE AND BOTTOM	
BICARBONATE ION	WATER	CALCULATED	PARTS PER MILLION	768	OBS	MONTHLY	SURFACE AND BOTTOM	
CARBONATE ALKALINITY	WATER	TITRATION	PARTS PER MILLION	768	OBS	MONTHLY	SURFACE AND BOTTOM	
HARDNESS	WATER	EDTA TITRATION	PARTS PER MILLION	768	OBS	MONTHLY	SURFACE AND BOTTOM	AS CALCIUM CARBONATE

THE EFFECTS OF THERMAL LOADING BY THE BREMO POWER STATION ON A PIEDMONT SECTION OF THE JAMES RIVER

DATA COLLECTED: JULY 1971 TO JUNE 1973

RECEIVED: JULY 13, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, VIRGINIA, JAMES RIVER, BREMO BLUFF TO COLUMBIA

ABSTRACT:
PIEDMONT SECTION OF JAMES RIVER, VIRGINIA STUDIED FOR EFFECTS OF THERMAL LOADING BY POWER STATION-INCLUDES PERIOD OF HURRICANE AGNES. ABIOTIC AND BIOTIC MESSUREMENTS MADE.
(DATA INCLUDES PERIOD OF HURRICANE AGNES; COLLECTIONS KEPT AT VA INST OF SCI RESEARCH)

DATA AVAILABILITY:
WITH APPROVAL REPORTS SENT TO OFFICE OF WATER RESEARCH, VIRGINIA ELECTRIC AND POWER COMPANY

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS; DATA SHEETS
25 PARAMETERS MEASURED OVER 24 MONTHS

FUNDING:

INVENTORY:

PUBLICATIONS:

123

CONTACT:
WILLIAM S WOOLCOTT 703-282-9581
VIRGINIA INSTITUTE FOR SCIENTIFIC RESEARCH
RICHMOND VIRGINIA USA 23229

GRID LOCATOR (LAT):
730776 730766

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	10	STATIONS	60 TIMES PER YEAR		
TIME	EARTH	SAMPLING TIME	YMDHL	21600	STATIONS	60 TIMES PER YEAR		
TEMPERATURE	WATER	NON-REVERSING THERMOMETER	DEG C	21600	OBS	60 TIMES PER YEAR	SURFACE	TEMPERATURE PROFILES TAKEN 6 TIMES PER YEAR
PH	WATER	SPECIFIC ION ELECTRODE	UNITS	21600	OBS	60 TIMES PER YEAR	SURFACE	
DISSOLVED OXYGEN GAS	WATER	SPECIFIC ION ELECTRODE	MILLIGRAMS PER LITER	21600	OBS	60 TIMES PER YEAR	SUB-SURFACE	WINKLER TITRATION CHECK

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
AMMONIA	WATER	SPECTROPHOTOMETRY	PARTS PER MILLION	21600	OBS	60 TIMES PER YEAR	SUB-SURFACE	
NITRATE	WATER	SPECTROPHOTOMETRY	PARTS PER MILLION	21600	OBS	60 TIMES PER YEAR	SUB-SURFACE	
NITRITE	WATER	SPECTROPHOTOMETRY	PARTS PER MILLION	21600	OBS	60 TIMES PER YEAR	SUB-SURFACE	
PHOSPHORUS	WATER	SPECTROPHOTOMETRY	PARTS PER MILLION	21600	OBS	60 TIMES PER YEAR	SUB-SURFACE	
ORTHOPHOSPHATE	WATER	SPECTROPHOTOMETRY	PARTS PER MILLION	21600	OBS	60 TIMES PER YEAR	SUB-SURFACE	
SECCHI DISC DEPTH	WATER	AVERAGE DEPTH	FEET	21600	OBS	60 TIMES PER YEAR	SUB-SURFACE	
COUNT OF BENTHIC ANIMALS	BOTTOM	VISUAL	NUMBER OF INDIVIDUALS PER SAMPLE	151200	OBS	60 TIMES PER YEAR	BOTTOM	108000 SHORE BENTHOS COLLECTED USING MODIFIED TONGS, ARTIFICIAL SUBSTRATE USED TO COLLECT 43,200 ORGANISMS SUSPENDED 1 FT. OFF BOTTOM
SPECIES DETERMINATION OF BENTHIC ANIMALS	BOTTOM	KEY	NUMBER OF SPECIES PER SAMPLE, NUMBER OF INDIVIDUALS PER SPECIES PER SAMPLE	151200	OBS	60 TIMES PER YEAR	BOTTOM	108000 SHORE BENTHOS COLLECTED USING MODIFIED TONGS, ARTIFICIAL SUBSTRATE USED TO COLLECT 43,200 ORGANISMS SUSPENDED 1 FT. OFF BOTTOM
COUNT OF DEMERSAL FISH	WATER	VISUAL	NUMBER OF INDIVIDUALS PER STATION	540	OBS	18 TIMES PER YEAR		220V 1 1/2 TO 3 AMP ELECTRIC SHOCK. 100 TO 250 YARDS PER STATION
SPECIES DETERMINATION OF DEMERSAL FISH	WATER	KEY	NUMBER OF SPECIES PER STATION, NUMBER OF INDIVIDUAL SPECIES PER STATION	540	OBS	18 TIMES PER YEAR		220V 1 1/2 TO 3 AMP ELECTRIC SHOCK. 100 TO 250 YARDS PER STATION
BIOMASS OF DEMERSAL FISH	WATER	WET WEIGHT	GRAMS, SPECIES PER STATION	540	OBS	18 TIMES PER YEAR		
LENGTH OF DEMERSAL FISH	WATER	STANDARD LENGTH	MILLIMETERS	540	OBS	18 TIMES PER YEAR		LENGTH RANGE RECORDED

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
DIVERSITY INDEX OF DEMERSAL FISH	WATER	SHANNON-WEAVER	NUMBERS	540	OBS	18 TIMES PER YEAR		
STOMACH CONTENT ANALYSIS OF DEMERSAL FISH	WATER	VISUAL	PERCENTAGE OF SPECIES INGESTED PER FISH SPECIES	540	OBS	18 TIMES PER YEAR		
SPECIES DETERMINATION OF BENTHIC PLANTS	LAND	KEY	NUMBER OF SPECIES PER STATION	540	OBS	18 TIMES PER YEAR		ESTIMATES AS TO QUANTITY, SAMPLES COLLECTED ON SHORE
SPECIES DETERMINATION OF BENTHIC PLANTS	BOTTOM	KEY	NUMBER OF SPECIES PER SLIDE	180	OBS	6 TIMES PER YEAR		SAMPLES COLLECTED ON GLASS SLIDES SET IN RIVER
COUNT OF BENTHIC PLANTS	BOTTOM	VISUAL	NUMBER OF INDIVIDUALS PER SLIDE	180	OBS	6 TIMES PER YEAR		SAMPLES COLLECTED ON GLASS SLIDES SET IN RIVER
PARTICULATE MATTER	WATER	MEMBRANE FILTRATION	PARTS PER MILLION	21600	OBS	60 TIMES PER YEAR	SUB-SURFACE	

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, VIRGINIA, LOWER YORK RIVER

ABSTRACT:
PHYTOPLANKTON SURVEY IN YORK RIVER-MOBJACK BAY. FLEXIBLE GROUPING CLUSTER ANALYSIS USED FOR DETERMINATION OF TEMPORAL AND SPATIAL RELATIONSHIPS BETWEEN STATIONS AND SPECIES

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
PUNCHED CARDS
FILE CONSISTS OF 21,000 PUNCHED CARDS.

FUNDING:

INVENTORY:

PUBLICATIONS:
VIMS THESIS, MANZI, 1973 DATA INCLUDED IN RANN REPORTS

CONTACT:
LIBRARIAN 804-642-2111
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT VIRGINIA USA 23062

GRID LOCATOR (LAT):
730776

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	LONGITUDE AND LATITUDE	18	STATIONS			
TIME	EARTH	STATION TIME	YMDHL	234	STATIONS			
PHOTOSYNTHETIC RATE	WATER	CARBON-14 UPTAKE	MILLIGRAMS CARBON FIXED PER C U M PER HOUR	234	OBS		SURFACE, 1 1/ 2 METERS, 3 METERS	
CHLOROPHYLL A	WATER	SPECTROPHOTOMETRY	MICROGRAMS PER LITER	234	OBS		SURFACE, 1 1/ 2 METERS, 3 METERS	ACETONE EXTRACTION
CHLOROPHYLL B	WATER	SPECTROPHOTOMETRY	MICROGRAMS PER LITER	234	OBS		SURFACE, 1 1/ 2 METERS, 3 METERS	ACETONE EXTRACTION
CHLOROPHYLL C	WATER	SPECTROPHOTOMETRY	MICROGRAMS PER LITER	234	OBS		SURFACE, 1 1/ 2 METERS, 3	ACETONE EXTRACTION

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
						METERS	
NITRATE	WATER	SPECTROPHOTOMETRY	MICROGRAM ATOMS PER LITER	234 OBS		SURFACE, 1 1/ 2 METERS, 3 METERS	CADIUM REDUCTION
NITRITE	WATER	SPECTROPHOTOMETRY	MICROGRAM ATOMS PER LITER	234 OBS		SURFACE, 1 1/ 2 METERS, 3 METERS	
ORTHOPHOSPHATE	WATER	SPECTROPHOTOMETRY	MICROGRAM ATOMS PER LITER	234 OBS		SURFACE, 1 1/ 2 METERS, 3 METERS	
SALINITY	WATER	CONDUCTIVITY	PARTS PER THOUSAND	234 OBS		SURFACE, 1 1/ 2 METERS, 3 METERS	
TEMPERATURE	WATER	NON-REVERSING THERMOMETER	DEGC	234 OBS		SURFACE, 1 1/ 2 METERS, 3 METERS	
COUNT OF PHYTOPLANKTON	WATER	COUNTING CHAMBER	NUMBER OF CELLS PER MILLILITER	291 OBS		SURFACE, 1 1/ 2 METERS, 3 METERS	SETTLING CHAMBERS ON INVERTED MICROSCOPE
SPECIES DETERMINATION OF PHYTOPLANKTON	WATER	KEY	NUMBER OF SPECIES PER STATION PER SAMPLE, NUMBER OF INDIVIDUALS PER SPECIES	291 OBS		SURFACE, 1 1/ 2 METERS, 3 METERS	19 DIATOM SPECIES, 15 SPECIES OF DINOFLAGELLATES, 2 SPECIES OF ENGLENOIDS, 2 SILICA FLAGELLATES, 2 CRYPTOPHYTES, 1 SPECIES CHLOROPHYTE, 1 CHRYSOPHYTE
COMMUNITY STRUCTURE ANALYSIS	WATER	CALCULATED	NUMBERS	291 OBS		SURFACE, 1 1/ 2 METERS, 3 METERS	INDEX OF DIVERSITY, EVENNESS, RICHNESS OF PHYTOPLANKTON
INORGANIC CARBON	WATER	UNKNOWN	MILLIGRAMS PER LITER	291 OBS		SURFACE, 1 1/ 2 METERS, 3 METERS	COMBUSTION/ INFRARED

DATA COLLECTED: JULY 1961 TO JUNE 1962
RECEIVED: JULY 20, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, VIRGINIA

ABSTRACT:
CHEMICAL SURVEY OF THE SEDIMENTS IN CHESAPEAKE BAY COVERING THE RAPPAHANNOCK SHOAL AREA. ANALYSIS OF CORES TAKEN INCLUDE SEDIMENT SURFACE AND INTO THE SEDIMENT AT APPROX 10 CM INTERVALS

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
38 PAGES, 19 CORES ANALYZED, 11 PARAMETERS MEASURED

FUNDING:

INVENTORY:

PUBLICATIONS:
VIMS THESIS, D K YOUNG, 1962

CONTACT:
LIBRARIAN 804-642-2111
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT VIRGINIA USA 23062

GRID LOCATOR (LAT):
730776 730775 730786 730785

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	19 STATIONS			
TIME	EARTH	STATION TIME	YML	1 STATIONS			ONE SAMPLING PERIOD, JULY 1961
BATHYMETRY	WATER	LEAD LINE	METERS	19 OBS			
SIZE ANALYSIS	SEDIMENT	SETTLING/VISUAL	SAND, SILT OR CLAY, MEDIAN DIAMETER IN MM	19 OBS		BOTTOM	SEDIMENT CORES TAKEN WITH GRAVITY CORERS, DIA 1.5 AND 2 IN
PH	INTERSTITIAL	SPECIFIC ION ELECTRODE	UNITS	41 OBS			7 STATIONS, AT VARIOUS DEPTHS FROM THE SEDIMENT TO SURFACE

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PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
ORGANIC CARBON	SEDIMENT	WET COMBUSTION/ INFRARED SPECTROMETRY	PERCENT BY WEIGHT	68	OBS			19 CORES, VARIOUS DEPTHS FROM SEDIMENT SURFACE
INORGANIC CARBON	SEDIMENT	WET COMBUSTION/ INFRARED SPECTROMETRY	PERCENT BY WEIGHT	68	OBS			19 CORES, VARIOUS DEPTHS FROM SEDIMENT SURFACE
PHOSPHORUS	SEDIMENT	SPECTROPHOTOMETRY	PERCENT BY WEIGHT	42	OBS			14 CORES, VARIOUS DEPTHS FROM THE SEDIMENT TO SURFACE
IRON	SEDIMENT	SPECTROPHOTOMETRY	PERCENT BY WEIGHT	42	OBS			14 CORES, VARIOUS DEPTHS FROM THE SEDIMENT TO SURFACE
SODIUM	SEDIMENT	FLAME SPECTROMETRY	PERCENT BY WEIGHT	42	OBS			14 CORES, VARIOUS DEPTHS FROM THE SEDIMENT TO SURFACE
POTASSIUM	SEDIMENT	FLAME SPECTROMETRY	PERCENT BY WEIGHT	42	OBS			14 CORES, VARIOUS DEPTHS FROM THE SEDIMENT TO SURFACE
CALCIUM	SEDIMENT	FLAME SPECTROMETRY	PERCENT BY WEIGHT	42	OBS			14 CORES, VARIOUS DEPTHS FROM THE SEDIMENT TO SURFACE
MAGNESIUM	SEDIMENT	FLAME SPECTROMETRY	PERCENT BY WEIGHT	42	OBS			14 CORES, VARIOUS DEPTHS FROM THE SEDIMENT TO SURFACE

DATA COLLECTED: MAY 1973 TO PRESENT RECEIVED: JULY 31, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, VIRGINIA, HAMPTON ROADS, ELIZABETH RIVER, JAMES RIVER, LAFAYETTE RIVER

ABSTRACT:
SURVEY OF HYDROGRAPHIC AND WATER QUALITY PARAMETERS IN HAMPTON ROADS, VA. NEAR SEVERAL SEWERAGE TREATMENT PLANTS

DATA AVAILABILITY:
RESTRICTED, PERMISSION OF CONTRACTOR REQUIRED

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
DATA SHEETS
SEVEN SAMPLING AREAS; TO BE EXPANDED TO 21 AREAS

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
DONALD ADAMS 804-489-8000
OLD DOMINION UNIVERSITY
INSTITUTE OF OCEANOGRAPHY
NORFOLK VIRGINIA USA 23508

GRID LOCATOR (LAT):
730776 730766

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	7	STATIONS	MONTHLY		STUDY TO BE EXPANDED TO 21 STATIONS
TIME	EARTH	STATION TIME	YMDL	7	STATIONS	MONTHLY		
ORTHOPHOSPHATE	WATER	SPECTROPHOTOMETRY	MICROGRAM ATOMS PER LITER	21	OBS	MONTHLY	SURFACE TO BOTTOM	
NITRATE	WATER	SPECTROPHOTOMETRY	MICROGRAM ATOMS PER LITER	21	OBS	MONTHLY	SURFACE TO BOTTOM	
NITRITE	WATER	SPECTROPHOTOMETRY	MICROGRAM ATOMS PER LITER	21	OBS	MONTHLY	SURFACE TO BOTTOM	
PH	WATER	SPECIFIC ION ELECTRODE	PH UNITS	21	OBS	MONTHLY	SURFACE TO BOTTOM	
DISSOLVED OXYGEN GAS	WATER	TITRATION	MILLIGRAMS PER LITER	21	OBS	MONTHLY	SURFACE TO BOTTOM	
SALINITY	WATER	CONDUCTIVITY	PARTS PER	21	OBS	MONTHLY	SURFACE TO	

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
TEMPERATURE	WATER	NON-REVERSING THERMOMETER	THOUSAND DEG C	21	OBS	MONTHLY	BOTTOM SURFACE TO BOTTOM	
BIOCHEMICAL OXYGEN DEMAND	WATER	TITRATION	MILLIGRAMS PER LITER	21	OBS	MONTHLY	BOTTOM SURFACE TO BOTTOM	
COUNT OF MICROBIOTA	WATER	VISUAL	NUMBER PER 100 MILLILITERS	21	OBS	MONTHLY	BOTTOM SURFACE TO BOTTOM	TOTAL COLIFORMS

DETERMINATION OF NUTRIENT LEVELS AND PROPOSED PREDICTIVE MODELS FOR PHOSPHATE IN THE LAFAYETTE RIVER, VIRGINIA

DATA COLLECTED: OCTOBER 1970 TO JANUARY 1972

RECEIVED: JULY 31, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, VIRGINIA, LAFAYETTE RIVER

ABSTRACT:
ONE-YEAR DETERMINATION OF NUTRIENT LEVELS AND PROPOSED PREDICTIVE MODELS FOR PHOSPATE IN THE LAFAYETTE RIVER, VIRGINIA AVAILABLE AS AN OLD DOMINION THESIS

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
21 STATIONS WITH 17 SAMPLING PERIODS

FUNDING:

INVENTORY:

PUBLICATIONS:
OLD DOMINION THESIS

CONTACT:
JOHN LUDWICK 804-489-8000
OLD DOMINION UNIVERSITY
INSTITUTE OF OCEANOGRAPHY
NORFOLK VIRGINIA USA 23508

GRID LOCATOR (LAT):
730766

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	21	STATIONS			
TIME	EARTH	STATION TIME	YMDL	17	STATIONS			NOT ALL STATIONS SAMPLED DURING EACH SAMPLING PERIOD
ORTHOPHOSPHATE	WATER	SPECTROPHOTOMETRY	MICROGRAM ATOMS PER LITER	210	OBS		SURFACE AND BOTTOM	
NITRATE	WATER	SPECTROPHOTOMETRY	MICROGRAM ATOMS PER LITER	210	OBS		SURFACE AND BOTTOM	
NITRITE	WATER	SPECTROPHOTOMETRY	MICROGRAM ATOMS PER LITER	210	OBS		SURFACE AND BOTTOM	
DISSOLVED	WATER	TITRATION	MILLIGRAMS PER	210	OBS		SURFACE AND	

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
OXYGEN GAS			LITER				BOTTOM	
TEMPERATURE	WATER	NON-REVERSING THERMOMETER	DEG C	210	OBS		SURFACE AND BOTTOM	
SALINITY	WATER	CONDUCTIVITY	PARTS PER THOUSAND	210	OBS		SURFACE AND BOTTOM	

DATA COLLECTED: AUGUST 1972 TO PRESENT
RECEIVED: JULY 31, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, LOWER CHESAPEAKE BAY, VIRGINIA

ABSTRACT:
ON GOING STUDY STARTED AUGUST 1972 OF CHLOROPHYLL AND SUSPENDED MATERIAL IN THE WATERS OF THE LOWER CHESAPEAKE BAY IN CONJUNCTION WITH REMOTE SENSING, NASA ERTS PROJECT
(IN CONJUNCTION WITH REMOTE SENSING, NASA ERTS PROJECT, GODDARD SPACE FLIGHT CENTER, GREENBELT, MARYLAND)

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP; AIRCRAFT.

ARCHIVE MEDIA:
DATA SHEETS
3 FIXED TRANSECTS; 6 PARAMETERS SAMPLED EVERY 18 DAYS

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
PETER FLEISCHER 804-489-8000
OLD DOMINION UNIVERSITY
INSTITUTE OF OCEANOGRAPHY
NORFOLK VIRGINIA USA 23508

GRID LOCATOR (LAT):
730776 730775

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	3	STATIONS			3 FIXED TRANSECTS SAMPLED
TIME	EARTH	STATION TIME	YMDL	45	STATIONS	EVERY 18 DAYS		
CHLOROPHYLL A	WATER	FLUOROMETRY	MILLIGRAMS PER LITER	300	OBS	EVERY 18 DAYS	SURFACE	SAMPLED BY HELICOPTER
LIGHT ATTENUATION	WATER	IN SITU TRANSMISSOMETER	PERCENT TRANSMISSION	45	OBS	EVERY 18 DAYS	SURFACE	BENDIX MODIFIED BY NASA LANGLEY
PARTICULATE MATTER	WATER	MEMBRANE FILTRATION	MILLIGRAMS PER LITER	225	OBS	EVERY 18 DAYS	SURFACE	
PARTICULATE MATTER	WATER	PARTICLE COUNT AVERAGING	NUMBER OF PARTICLES PER MILLILITER	300	OBS	EVERY 18 DAYS	SURFACE	

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
TEMPERATURE	WATER	NON-REVERSING THERMOMETER	DEG C	225	OBS	EVERY 18 DAYS	SURFACE	
SALINITY	WATER	CONDUCTIVITY	PARTS PER THOUSAND	225	OBS	EVERY 18 DAYS	SURFACE	
BATHYMETRY	WATER	UNCORRECTED SOUNDING DEPTH BASED ON 4800 FT/SEC	FEET	6	OBS			

DATA COLLECTED: MARCH 1973 TO MARCH 1973 RECEIVED: JULY 31, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, LOWER CHESAPEAKE BAY, VIRGINIA

ABSTRACT:
WATER QUALITY AND HYDROGRAPHIC SURVEY OF THE CHESAPEAKE BAY O. TRANSECTS FROM THE BAY MOUTH TO ANNAPOLIS, MD.

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
DATA SHEETS
20 STATIONS

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
DONALD ADAMS 804-489-8000
OLD DOMINION UNIVERSITY
INSTITUTE OF OCEANOGRAPHY
NORFOLK VIRGINIA USA 23508

GRID LOCATOR (LAT):
730776 730775

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	20	STATIONS			
TIME	EARTH	STATION TIME	YMDL	1	STATIONS			
TEMPERATURE	WATER	NON-REVERSING THERMOMETER	DEG C	66	OBS		SURFACE TO BOTTOM	
SALINITY	WATER	CONDUCTIVITY	PARTS PER THOUSAND	66	OBS		SURFACE TO BOTTOM	
PH	WATER	SPECIFIC ION ELECTRODE	PH UNITS	66	OBS		SURFACE TO BOTTOM	
DISSOLVED OXYGEN GAS	WATER	TITRATION	MILLIGRAMS PER LITER	66	OBS		SURFACE TO BOTTOM	PERCENT SATURATION COMPUTED
ORTHOPHOSPHATE	WATER	SPECTROPHOTOMETRY	MICROGRAM ATOMS PER LITER	66	OBS		SURFACE TO BOTTOM	
NITRATE	WATER	SPECTROPHOTOMETRY	MICROGRAM ATOMS PER LITER	66	OBS		SURFACE TO BOTTOM	
PARTICULATE	WATER	MEMBRANE	MILLIGRAMS PER	66	OBS		SURFACE TO	

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PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
MATTER		FILTRATION	LITER				BOTTOM	
DEPTH	WATER	WIRE LENGTH	FEET	66	OBS			DEPTH OF SAMPLE
BIOCHEMICAL OXYGEN DEMAND	WATER	TITRATION	MILLIGRAMS PER LITER	66	OBS		SURFACE TO BOTTOM	
CHEMICAL OXYGEN DEMAND	WATER	TITRATION	MILLIGRAMS PER LITER	66	OBS		SURFACE TO BOTTOM	
COUNT OF MICROBIOTA	WATER	VISUAL	NUMBER PER 100 MILLILITERS	66	OBS		SURFACE TO BOTTOM	FECAL COLIFORM
METHANE IN BIO MATERIAL	WATER	GAS CHROMATOGRAPHY	ML X10 -5 PER LITER	60	OBS		SURFACE TO BOTTOM	

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DATA COLLECTED: OCTOBER 1970 TO JANUARY 1972 RECEIVED: JULY 31, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, VIRGINIA, HAMPTON ROADS, LAFAYETTE RIVER

ABSTRACT:
SURVEY OF NUTRIENT CONCENTRATIONS IN THE LAFAYETTE RIVER, NORFOLK, VA.

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
980 OBSERVATIONS

FUNDING:

INVENTORY:

PUBLICATIONS:
ODU THESIS, MONTGOMERY, 1972

CONTACT:
DONALD ADAMS 804-489-8000
OLD DOMINION UNIVERSITY
INSTITUTE OF OCEANOGRAPHY
NORFOLK VIRGINIA USA 23508

GRID LOCATOR (LAT):
730766

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	35	STATIONS	MONTHLY		
TIME	EARTH	STATION TIME	YMDI	490	STATIONS	MONTHLY		
ORTHOPHOSPHATE	WATER	SPECTROPHOTOMETRY	MICROGRAM ATOMS PER LITER	980	OBS	MONTHLY	SURFACE AND BOTTOM	
NITRATE	WATER	SPECTROPHOTOMETRY	MICROGRAM ATOMS PER LITER	980	OBS	MONTHLY	SURFACE AND BOTTOM	
NITRITE	WATER	SPECTROPHOTOMETRY	MICROGRAM ATOMS PER LITER	980	OBS	MONTHLY	SURFACE AND BOTTOM	
DISSOLVED OXYGEN GAS	WATER	TITRATION	MILLIGRAMS PER LITER	980	OBS	MONTHLY	SURFACE AND BOTTOM	
TEMPERATURE	WATER	NON-REVERSING THERMOMETER	DEG C	980	OBS	MONTHLY	SURFACE AND BOTTOM	
SALINITY	WATER	TITRATION	PERCENT PER THOUSAND	980	OBS	MONTHLY	SURFACE AND BOTTOM	

DATA COLLECTED: JUNE 1972 TO PRESENT

RECEIVED: AUGUST 08, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, LOWER CHESAPEAKE BAY, VIRGINIA, LYNNHAVEN BAY, ELIZABETH RIVER

ABSTRACT:
SURVEY OF HYDROGRAPHIC AND BIOLOGICAL PARAMETERS OF LOWER CHESAPEAKE BAY, LYNNHAVEN BAY AND ELIZABETH RIVER, VA. DATA COLLECTED IN CONJUNCTION WITH CONTRACT WORK FOR CONTRACTORS AND LAND DEVELOPERS

DATA AVAILABILITY:
ON APPROVAL FROM CONTRACTOR

PLATFORM TYPES:

ARCHIVE MEDIA:
DATA SHEETS
200 STATIONS

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
PAUL KIRK 804-489-8000
OLD DOMINION UNIVERSITY
INSTITUTE OF OCEANOGRAPHY
NORFOLK VIRGINIA USA 23508

GRID LOCATOR (LAT):
730776 730775 730766

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	200 STATIONS			
TIME	EARTH	STATION TIME	YMDL	200 STATIONS			
SPECIES DETERMINATION OF BENTHIC PLANTS	LAND	KEY	NUMBER OF INDIVIDUALS PER SPECIES	200 OBS			MARSH PLANTS
SPECIES DETERMINATION OF BENTHIC ANIMALS	BOTTOM	KEY	NUMBER OF INDIVIDUALS PER SPECIES	200 OBS			
COUNT OF BENTHIC PLANTS	LAND	VISUAL	NUMBER PER ACRE	200 OBS			
COUNT OF BENTHIC	BOTTOM	VISUAL	NUMBER PER ACRE	200 OBS			

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
ANIMALS								
BIOMASS OF BENTHIC PLANTS	LAND	DRY WEIGHT	POUNDS PER ACRE	200	OBS			
BIOMASS OF BENTHIC ANIMALS	BOTTOM	DRY WEIGHT	POUNDS PER ACRE	200	OBS			
SALINITY	WATER	HYDROMETER	PARTS PER THOUSAND	14	OBS		SURFACE AND BOTTOM	LYNNHAVEN AREA
TEMPERATURE	WATER	NON-REVERSING THERMOMETER	DEG C	14	OBS		SURFACE AND BOTTOM	LYNNHAVEN AREA
DISSOLVED OXYGEN GAS	WATER	TITRATION	MILLIGRAMS PER LITER	14	OBS		SURFACE AND BOTTOM	LYNNHAVEN AREA
PH	WATER	SPECIFIC ION ELECTRODE	PH UNITS	14	OBS		SURFACE AND BOTTOM	LYNNHAVEN AREA
COUNT OF MICROBIOTA	WATER	VISUAL	CULTURE GROWTH (MPN)	14	OBS		SURFACE AND BOTTOM	COLIFORM, LYNNHAVEN AREA
ORTHOPHOSPHATE	WATER	SPECTROPHOTOMETRY	MILLIGRAMS PER LITER	14	OBS		SURFACE AND BOTTOM	LYNNHAVEN AREA
NITRATE	WATER	SPECTROPHOTOMETRY	MILLIGRAMS PER LITER	14	OBS		SURFACE AND BOTTOM	LYNNHAVEN AREA
SECCHI DISC DEPTH	WATER	AVERAGE DEPTH	FEET	14	OBS			LYNNHAVEN AREA
SIZE ANALYSIS	SEDIMENT	SIEVE	PERCENT COMPOSITION	7	OBS		BOTTOM	LYNNHAVEN AREA

PROJECTS:
SKYLAB

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, ASSATEAGUE ISLAND

ABSTRACT:
PROJECT TO CORRELATE CHLOROPHYLL AND PHYTOPLANKTON CONCENTRATIONS TO REMOTE SENSING TECHNIQUES. REMOTE SENSING WITH THE USE OF SKYLAB 2 IN COOPERATION WITH NASA LANGLEY

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:

ONE OVER PASS BY SKYLAB 2; 8 GROUND TRUTH STATIONS OCCUPIED

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
HAROLD G. MARSHALL 804-489-8000
OLD DOMINION UNIVERSITY
DEPT OF BIOLOGICAL SCIENCES
NORFOLK VIRGINIA USA 23508

GRID LOCATOR (LAT):
730775 730785

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	8	STATIONS			
TIME	EARTH	STATION TIME	YMDL	8	STATIONS			
TEMPERATURE	WATER	NON-REVERSING THERMOMETER	DEG C	8	OBS		SURFACE	
SALINITY	WATER	CONDUCTIVITY	PARTS PER THOUSAND	8	OBS		SURFACE	
TOTAL CHLOROPHYL L	WATER	SPECTROPHOTOMETRY	MILLIGRAMS PER LITER	8	OBS		SURFACE	
COUNT OF PHYTOPLANKTON	WATER	COUNTING CHAMBER	NUMBER OF INDIVIDUALS PER SAMPLE	8	OBS			
SPECIES DETERMINATION OF PHYTOPLANKTO	WATER	KEY	NUMBER OF SPECIES PER SAMPLE, NUMBER	8	OBS			

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
N			OF INDIVIDUALS PER SPECIES				

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, VIRGINIA, JAMES RIVER

ABSTRACT:
HYDROGRAPHIC AND NUTRIENT SURVEY OF THE JAMES RIVER FROM HAMPTON ROADS TO RICHMOND, VA MONTHLY CRUISES COVERED 10 STATIONS ALONG THE AXIS OF THE JAMES RIVER

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
97 PAGES

FUNDING:
FEDERAL WATER POLLUTION CONTROL ADM CONTRACT NO PH 86-65-86

INVENTORY:

PUBLICATIONS:
VIMS SPECIAL REPORT IN APPLIED SCIENCE AND OCEAN ENGINEERING, NO 6, 1966

CONTACT:
LIBRARIAN 804-642-2111
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT VIRGINIA USA 23062

143

GRID LOCATOR (LAT):
730766 730776

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION, RIVER MILES	10	STATIONS			
TIME	EARTH	STATION TIME	YMDL	12	STATIONS	MONTHLY		
SECCHI DISC DEPTH	WATER	AVERAGE DEPTH	METERS	120	OBS	MONTHLY		
SALINITY	WATER	CONDUCTIVITY	PARTS PER THOUSAND	494	OBS	MONTHLY	SURFACE TO BOTTOM AT 2 METER INTERVALS	NOT ALL STATIONS SAMPLED; SOME FRESH WATER STATIONS
TEMPERATURE	WATER	NON-REVERSING THERMOMETER	DEG C	608	OBS	MONTHLY	SURFACE TO BOTTOM AT 2 METER INTERVALS	

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
DISSOLVED OXYGEN GAS	WATER	TITRATION	MG PER LITER	608	OBS	MONTHLY	SURFACE TO BOTTOM AT 2 METER INTERVALS	
PH	WATER	SPECIFIC ION ELECTRODE	PH UNITS	608	OBS	MONTHLY	SURFACE TO BOTTOM AT 2 METER INTERVALS	
TOTAL ALKALINITY	WATER	TITRATION	MEQ PER LITER	240	OBS	MONTHLY	SURFACE AND BOTTOM	
PARTICULATE MATTER	WATER	MEMBRANE FILTRATION	MG PER LITER	240	OBS	MONTHLY	SURFACE AND BOTTOM	
PHOSPHORUS	WATER	SPECTROPHOTOMETRY	MICROGRAM ATOMS PER LITER	240	OBS	MONTHLY	SURFACE AND BOTTOM	
REACTIVE PHOSPHATE	WATER	SPECTROPHOTOMETRY	MICROGRAM ATOMS PER LITER	240	OBS	MONTHLY	SURFACE AND BOTTOM	SOLUBLE AND PARTICULATE
UNREACTIVE PHOSPHATE	WATER	SPECTROPHOTOMETRY	MICROGRAM ATOMS PER LITER	240	OBS	MONTHLY	SURFACE AND BOTTOM	SOLUBLE AND PARTICULATE
NITRATE	WATER	SPECTROPHOTOMETRY	MICROGRAM ATOMS PER LITER	240	OBS	MONTHLY	SURFACE AND BOTTOM	CADMIUM REDUCTION
NITRITE	WATER	SPECTROPHOTOMETRY	MICROGRAM ATOMS PER LITER	240	OBS	MONTHLY	SURFACE AND BOTTOM	
ORGANIC NITROGEN	SUSPENDED	SPECTROPHOTOMETRY	MICROGRAM ATOMS PER LITER	240	OBS	MONTHLY	SURFACE AND BOTTOM	KJELDAHL
CHLOROPHYLL A	WATER	SPECTROPHOTOMETRY	MICROGRAM ATOMS PER LITER	240	OBS	MONTHLY	SURFACE AND BOTTOM	

BIOGEOGRAPHICAL STUDIES

DATA COLLECTED: DECEMBER 1969 TO PRESENT

RECEIVED: AUGUST 27, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CONTINENTAL SHELF OFF VIRGINIA AND NORTH CAROLINA VIRGINIA

ABSTRACT:
YEARLY SURVEY OF HYDROGRAPHIC PARAMETERS AND ZOOPLANKTON ON THE CONTINENTAL SHELF AND SLOPE OFF THE COAST OF NORTH CAROLINA AND VIRGINIA. SAMPLING DESIGNED TO STUDY THE BIOGEOGRAPHIC REGIONS AND FAUNAL BOUNDRY NORTH AND SOUTH OF CAPE HATTERAS AS WELL AS THE NORFOLK CANYON AREA.

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
DATA SHEETS
APPROX 40 STATIONS OCCUPIED SINCE 1969

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
GEORGE GRANT 804-642-2111
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT VIRGINIA USA 23062

GRID LOCATOR (LAT):
730745 730755 730765 730764 730774

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	LONG RANGE NAVIGATIONAL NET	DMS	40	STATIONS	YEARLY		
TIME	EARTH	SAMPLING TIME	YMDHML	160	STATIONS	YEARLY		
DEPTH	WATER	UNCORRECTED SOUNDING DEPTH BASED ON 4800 FT/SEC	METERS	160	STATIONS	YEARLY		PROFILES OF NORFOLK CANYON AREA
TEMPERATURE	WATER	REVERSING THERMOMETER	DEG C	160	STATIONS	YEARLY	SURFACE TO BOTTOM PROFILES	
SALINITY	WATER	CONDUCTIVITY	PARTS PER THOUSAND	160	STATIONS	YEARLY	SURFACE TO 900 METERS	NANSON BOTTLE CASTS
DISSOLVED	WATER	TITRATION	MG PER LITER	120	OBS	YEARLY	SURFACE TO	WINKLER

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
OXYGEN GAS							900 METERS	
NITRATE	WATER	SPECTROPHOTOMETRY	MICROGRAM ATOMS PER LITER	120	OBS	YEARLY	SURFACE TO 900 METERS	CADMIUM REDUCTION
NITRITE	WATER	SPECTROPHOTOMETRY	MICROGRAM ATOMS PER LITER	120	OBS	YEARLY	SURFACE TO 900 METERS	DIAZOITATION
PHOSPHORUS	WATER	SPECTROPHOTOMETRY	MICROGRAM ATOMS PER LITER	120	OBS	YEARLY	SURFACE TO 900 METERS	MOLYBDATE
ORGANIC CARBON	DISSOLVED	WET COMBUSTION/ INFRARED SPECTROMETRY	MG PER LITER	120	OBS	YEARLY	SURFACE TO 900 METERS	
COUNT OF ZOOPLANKTON	WATER	FIXED, UNSTAINED, ALIQUOT	NUMBER OF INDIVIDUALS PER TOW PER DEPTH	40	OBS	YEARLY	SURFACE TO 375 METERS	CHAETOGNATHS, BONGO NETS, MILLER SAMPLERS
SPECIES DETERMINATION OF ZOOPLANKTON	WATER	KEY	NUMBER OF SPECIES PER TOW PER DEPTH, NUMBER OF INDIVIDUALS PER SPECIES	40	OBS	YEARLY	SURFACE TO 375 METERS	CHAETOGNATHS, BONGO NETS, MILLER SAMPLERS
TEMPERATURE	WATER	MECHANICAL BT	DEG C	40	STATIONS	YEARLY	SURFACE TO BOTTOM PROFILES	

DATA COLLECTED: JUNE 1961 TO APRIL 1963 RECEIVED: AUGUST 27, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, VIRGINIA

ABSTRACT:
INTENSIVE SURVEY OF SEDIMENTS AND BENTHIC ANIMALS IN THE AREA OF THE RAPPAHANNOCK SHOAL AND SOIL DISPOSAL LOCATION IN CHESAPEAKE BAY. SOME LIMITED SAMPLING IN YORK SPIT CHANNEL. SEDIMENT ANALYSIS IS COUPLED WITH A SURVEY OF BENTHIC FAUNA AND RELATED TO FEEDING TYPES. SUBSTRATE, HABITAT, SIZE, ABUNDANCE AND FREQUENCY OF ENCOUNTER. COMPARISON OF IN CHANNEL AND OUT CHANNEL SAMPLING DATA INCLUDED ALONG WITH COMMENTS AS TO THE EFFECT OF SPOIL DEPOSITION ON BENTHIC FAUNA. COMMENTS AS TO SEASONAL VARIATION OF BENTHIC FAUNA AND EFFECTS OF DREDGING INCLUDED.

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
116 PAGES

FUNDING:
CORPS OF ENGINEERS, U S ARMY, CONTRACT NO DA-44-110-CIVENG-61-181

INVENTORY:

PUBLICATIONS:
VIMS SPECIAL REPORT IN APPLIED MARINE SCIENCE AND OCEAN ENGINEERING, NO 8, 1967

CONTACT:
LIBRARIAN 804-642-2111
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT VIRGINIA USA 23062

GRID LOCATOR (LAT):
730776 730775

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	98	STATIONS			
TIME	EARTH	STATION TIME	YML	5	STATIONS			SAMPLES TAKEN DURING FIVE CRUISES
BATHYMETRY	WATER	LEAD LINE	METERS	98	OBS			
SIZE ANALYSIS	SEDIMENT	SIEVE	TEXTURAL CLASS (SHEPARD, 1954), MODAL CLASS, MEDIAN DIAMETER IN	98	OBS			GRAVITY CORER 2 IN DIA; PETERSON GRAB 1/15 SQ METER; TOP 5 IN OF

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
			MM, MEDIAN DIAMETER IN PHI SIZES					CORE ANALYZED
SIZE ANALYSIS	SEDIMENT	SETTLING/VISUAL	TEXTURAL CLASS (SHEPARD, 1954), MODAL CLASS, MEDIAN DIAMETER IN MM, MEDIAN DIAMETER IN PHI SIZES	98	OBS			GRAVITY CORER 2 IN DIA; PETERSON GRAB 1/15 SQ METER; TOP 5 IN OF CORE ANALYZED
ORGANIC CARBON	SEDIMENT	DRY COMBUSTION/ GAS DISPLACEMENT	PER CENT BY WEIGHT	68	OBS		SURFACE OF SEDIMENT AND AT 10 CM INTERVALS TO AS DEEP AS 90 CM	NOT ALL STATIONS SAMPLED
INORGANIC CARBON	SEDIMENT	DRY COMBUSTION/ GAS DISPLACEMENT	PER CENT BY WEIGHT	68	OBS		SURFACE OF SEDIMENT AND AT 10 CM INTERVALS TO AS DEEP AS 90 CM	NOT ALL STATIONS SAMPLED
PHOSPHORUS	SEDIMENT	SPECTROPHOTOMETRY	PER CENT BY WEIGHT	68	OBS		SURFACE OF SEDIMENT AND AT 10 CM INTERVALS TO AS DEEP AS 90 CM	NOT ALL STATIONS SAMPLED
IRON	SEDIMENT	SPECTROPHOTOMETRY	PER CENT BY WEIGHT	68	OBS		SURFACE OF SEDIMENT AND AT 10 CM INTERVALS TO AS DEEP AS 90 CM	NOT ALL STATIONS SAMPLED
SODIUM	SEDIMENT	FLAME SPECTROMETR Y	PER CENT BY WEIGHT	68	OBS		SURFACE OF SEDIMENT AND AT 10 CM INTERVALS TO AS DEEP AS 90 CM	NOT ALL STATIONS SAMPLED
POTASSIUM	SEDIMENT	FLAME SPECTROMETR Y	PER CENT BY WEIGHT	68	OBS		SURFACE OF SEDIMENT AND AT 10 CM INTERVALS TO AS DEEP AS 90 CM	NOT ALL STATIONS SAMPLED
CALCIUM	SEDIMENT	TITRATION	PER CENT BY WEIGHT	68	OBS		SURFACE OF SEDIMENT AND AT 10 CM INTERVALS TO AS DEEP AS	NOT ALL STATIONS SAMPLED

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
MAGNESIUM	SEDIMENT	TITRATION	PER CENT BY WEIGHT	68	OBS		90 CM SURFACE OF SEDIMENT AND AT 10 CM INTERVALS TO AS DEEP AS 90 CM	NOT ALL STATIONS SAMPLED
SPECIES DETERMINATION OF BENTHIC ANIMALS	BOTTOM	KEY	NUMBER OF SPECIES PER SAMPLE, NUMBER OF INDIVIDUALS PER SPECIES	518	OBS			PETERSON GRAB 1/ 15 SQ METER; SAMPLE PROCESSED THRU 0.5 MM AND 1.0 MM SCREEN
COUNT OF BENTHIC ANIMALS	BOTTOM	VISUAL	NUMBER OF INDIVIDUALS PER SAMPLE PER SCREEN SIZE, TOTAL INDIVIDUALS	518	OBS			PETERSON GRAB 1/ 15 SQ METER; SAMPLE PROCESSED THRU 0.5 MM AND 1.0 MM SCREEN
COMMUNITY STRUCTURE ANALYSIS	BOTTOM	CALCULATED	NUMBERS	476	OBS			DIVERSITY ANALYSIS, RANK, BIO INDEX, FREQUENCY
TAXONOMIC LIST OF BENTHIC ANIMALS	BOTTOM	KEY	NAMES	68	OBS			
SPECIES DETERMINATION OF BENTHIC ANIMALS	BOTTOM	KEY	SPECIES RELATED TO SEDIMENT TYPES, NUMBER OF INDIVIDUALS PER SPECIES PER SEDIMENT TYPE PER METER SQ	476	OBS			

DATA COLLECTED: JULY 1966 TO JUNE 1967
RECEIVED: AUGUST 27, 1973

PROJECTS:

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, VIRGINIA, NANSEMOND RIVER

ABSTRACT:
PHYSICAL, CHEMICAL AND BIOLOGICAL PARAMETERS SAMPLED MONTHLY IN THE NANSEMOND RIVER, VA, 1966-1967.

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
64 PAGES

FUNDING:
FEDERAL WATER POLLUTION CONTROL ADMINISTRATION CONTRACT NO WA 66-12

INVENTORY:

PUBLICATIONS:
SPECIAL REPORTS IN APPLIED MARINE SCIENCE AND OCEAN ENGINEERING NO 9, VIMS

CONTACT:
LIBRARIAN 804-642-2111
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT VIRGINIA USA 23062

GRID LOCATOR (LAT):
730766

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	10	STATIONS	MONTHLY		
TIME	EARTH	STATION TIME	YMDL	10	STATIONS	MONTHLY		
TEMPERATURE	WATER	NON-REVERSING THERMOMETER	DEG C	252	OBS	MONTHLY	1 AND 3 METERS	
SALINITY	WATER	CONDUCTIVITY	PARTS PER THOUSAND	252	OBS	MONTHLY	1 AND 3 METERS	
DISSOLVED OXYGEN GAS	WATER	TITRATION	MG PER LITER	252	OBS	MONTHLY	1 AND 3 METERS	
SECCHI DISC DEPTH	WATER	AVERAGE DEPTH	METERS	120	OBS	MONTHLY		
PH	WATER	SPECIFIC ION ELECTRODE	PH UNITS	252	OBS	MONTHLY	1 AND 3 METERS	
TOTAL ALKALINITY	WATER	SPECIFIC ION ELECTRODE	MEQ PER LITER	252	OBS	MONTHLY	1 AND 3 METERS	
PARTICULATE	WATER	MEMBRANE	MG PER LITER	252	OBS	MONTHLY	1 AND 3	

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
MATTER		FILTRATION					METERS	
PHOSPHORUS	WATER	SPECTROPHOTOMETRY	MICROGRAM ATOMS PER LITER	252	OBS	MONTHLY	1 AND 3 METERS	
REACTIVE PHOSPHATE	WATER	SPECTROPHOTOMETRY	MICROGRAM ATOMS PER LITER	252	OBS	MONTHLY	1 AND 3 METERS	252 OBS EACH FOR SOLUBLE AND PARTICULATE
UNREACTIVE PHOSPHATE	WATER	SPECTROPHOTOMETRY	MICROGRAM ATOMS PER LITER	252	OBS	MONTHLY	1 AND 3 METERS	252 OBS EACH FOR SOLUBLE AND PARTICULATE
AMMONIA	WATER	TITRATION	MICROGRAM ATOMS PER LITER	252	OBS	MONTHLY	1 AND 3 METERS	
NITRATE	WATER	SPECTROPHOTOMETRY	MICROGRAM ATOMS PER LITER	252	OBS	MONTHLY	1 AND 3 METERS	CADMIUM REDUCTION
NITRITE	WATER	SPECTROPHOTOMETRY	MICROGRAM ATOMS PER LITER	252	OBS	MONTHLY	1 AND 3 METERS	
ORGANIC NITROGEN	SUSPENDED	SPECTROPHOTOMETRY	MICROGRAM ATOMS PER LITER	252	OBS	MONTHLY	1 AND 3 METERS	KJELDAHL
NITROGEN	WATER	SPECTROPHOTOMETRY	MICROGRAM ATOMS PER LITER	252	OBS	MONTHLY	1 AND 3 METERS	KJELDAHL
CHLOROPHYLL A	WATER	SPECTROPHOTOMETRY	MICROGRAM ATOMS PER LITER	252	OBS	MONTHLY	1 AND 3 METERS	
SPECIES DETERMINATION OF ZOOPLANKTON	WATER	KEY	NUMBER OF SPECIES PER STATION, ORDER OF ABUNDANCE PER STATION	40	OBS	MONTHLY		

DATA COLLECTED: MAY 1971 TO DECEMBER 1972 RECEIVED: SEPTEMBER 17, 1973

PROJECTS:
CHESAPEAKE RESEARCH CONSORTIUM, JUNE 1973

GENERAL GEOGRAPHIC AREA:
U.S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, VIRGINIA, LOWER YORK RIVER

ABSTRACT:
STUDY TO ASSESS NORMAL SEASONAL RANGES OF PRODUCTIVITY AND HETEROTROPHY POTENTIALS AS A REFERENCE TO ESTABLISHING CRITERIA AND PREDICTABILITY OF PLANKTON BLOOMS. TO DEVELOP RAPID SHIPBOARD TECHNIQUES TO BE USED IN ASSESSING THE DYNAMICS OF THE LOWER TROPHIC LEVEL OF THE ESTUARINE ECOSYSTEM.
(GRAPH OF STEAM DISCHARGE FOR THE YORK RIVER SYSTEM COMPUTED FROM DATA OBTAINED FROM U S GEOLOGICAL SURVEY)

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
DATA SHEETS
9 PARAMETERS, 114 OBSERVATIONS OF EACH PARAMETER

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
PAUL ZUBKOFF 804-642-2111
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT VIRGINIA USA 23062

GRID LOCATOR (LAT):
730776

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	DM AND MAP LOCATION	1	STATIONS			
TIME	EARTH	STATION TIME	YMDL	38	STATIONS			
SALINITY	WATER	CONDUCTIVITY	PARTS PER THOUSAND	114	OBS		1M, 10M AND BOTTOM	
TEMPERATURE	WATER	NON-REVERSING THERMOMETER	DEG C	114	OBS		1M, 10M AND BOTTOM	
DISSOLVED OXYGEN GAS	WATER	TITRATION	MILLIGRAMS PER LITER	114	OBS		1M, 10M AND BOTTOM	
NITRITE	WATER	AUTOANALYZER	MICROGRAM ATOMS PER LITER	114	OBS		1M, 10M AND BOTTOM	
NITRATE	WATER	AUTOANALYZER	MICROGRAM ATOMS PER LITER	114	OBS		1M, 10M AND BOTTOM	

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
ORTHOPHOSPHATE	WATER	AUTOANALYZER	MICROGRAM ATOMS PER LITER	114	OBS		1M, 10M AND BOTTOM	
CHLOROPHYLL A	WATER	SPECTROPHOTOMETRY	MILLIGRAMS PER CUBIC METER	114	OBS		1M, 10M AND BOTTOM	
CHLOROPHYLL A	WATER	FLUOROMETRY	MILLIGRAMS PER CUBIC METER	114	OBS		1M, 10M AND BOTTOM	
PHOTOSYNTHETIC RATE	WATER	CARBON-14 UPTAKE	MILLIGRAMS OF CARBON PER CUBIC METER PER HOUR	114	OBS		1M, 10M AND BOTTOM	
HETEROTROPHIC RATE	WATER	LIQUID SCINTILLATION UNILUXI	MILLIGRAMS GLUCOSE PER CUBIC METER PER HOUR	114	OBS		1M, 10M AND BOTTOM	DATA ON MICHAELIS-MENTEN UPTAKE BINETICS INCLUDED

DATA COLLECTED: APRIL 1971 TO DECEMBER 1971

RECEIVED: MARCH 04, 1974

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, U.S., CHESAPEAKE BAY, POTOMAC RIVER

ABSTRACT:
AN EIGHT MONTH SURVEY OF WATER QUALITY IN THE POTOMAC RIVER, MARYLAND NEAR THE POSSUM POINT POWER STATION AND CHARACTERIZATION OF PHYTOPLANKTON BLOOMS. EFFECTS OF PLANT ON BLOOMS OF ALGAE.
(RESEARCH CONDUCTED BY GEORGE M SIMMONS JR. OF VPI)

DATA AVAILABILITY:
UPON WRITTEN REQUEST SUBJECT TO THEIR APPROVAL AND CONDITIONS

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
70 PAGE REPORT WITH TABLES AND TEXT

FUNDING:
VEPCO

INVENTORY:

PUBLICATIONS:

CONTACT:
JOHN C WHITE 804 771 3389
VIRGINIA ELECTRIC AND POWER COMPANY
P O BOX 26666
RICHMOND VIRGINIA USA 23260

GRID LOCATOR (LAT):
730787

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP	240	STATIONS			
TIME	EARTH	STATION TIME	YMDHL	240	STATIONS			
TEMPERATURE	WATER	NON-REVERSING THERMOMETER	DEG C	720	OBS	BIWEEKLY	1 METER INTERVALS SURFACE TO BOTTOM	YSI MODEL 51
SECCHI DISC DEPTH	WATER	DISAPPEARING DEPTH	CENTIMETERS	240	OBS	BIWEEKLY		20 CENTIMETER DISC
DISSOLVED OXYGEN GAS	WATER	TITRATION	PARTS PER MILLION	480	OBS	BIWEEKLY	SURFACE AND 1 METER	AZIDE MODIFICATION, WINKLER
AMMONIA	WATER	SPECTROPHOTOMETRY	MILLIGRAMS PER	240	OBS	BIWEEKLY	SURFACE	SEPTEMBER TO

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
			LITER				NOVEMBER ALSO USED NESSLERIZATION METHOD
NITRITE	WATER	SPECTROPHOTOMETRY	MILLIGRAMS PER LITER	240 OBS	BIWEEKLY	SURFACE	
NITRATE	WATER	SPECTROPHOTOMETRY	MILLIGRAMS PER LITER	240 OBS	BIWEEKLY	SURFACE	CADIMUM REDUCTION METHOD
ORTHOPHOSPHATE	WATER	SPECTROPHOTOMETRY	MILLIGRAMS PER LITER	240 OBS	BIWEEKLY	SURFACE	PHOS VER III METHOD, SEPTEMBER TO NOVEMBER USED ASCORBIC ACID METHOD
PHOSPHATE	WATER	SPECTROPHOTOMETRY	MILLIGRAMS PER LITER	240 OBS	BIWEEKLY	SURFACE	PERSULFATE OXIDATION
TOTAL SOLIDS	WATER	DRY WEIGHT	MILLIGRAMS PER LITER	240 OBS	BIWEEKLY	SURFACE	
FIXED TOTAL SOLIDS	WATER	ASH WEIGHT	MILLIGRAMS PER LITER	240 OBS	BIWEEKLY	SURFACE	
PH	WATER	SPECIFIC ION ELECTRODE	PH UNITS	240 OBS	BIWEEKLY	SURFACE	PORTOMATIC MODEL 175 PH METER AND BECKMAN ELECTROMATE PH METER(MODEL 1009)
SPECIES DETERMINATION OF PHYTOPLANKTON	WATER	KEY	NUMBER OF SPECIES PER SAMPLE PER COLLECTION TRIP	240 OBS	BIWEEKLY	SURFACE AND 1 METER	JUDAY TRAP AND KEMMERER BOTTLE
TAXONOMIC LIST OF PHYTOPLANKTON	WATER	KEY	GENERA	240 OBS	BIWEEKLY	SURFACE AND 1 METER	JUDAY TRAP AND KEMMERER BOTTLE
COUNT OF PHYTOPLANKTON	WATER	COUNTING CHAMBER	NUMBER PER TAXON AND CELLS PER MILLILITER	240 OBS	BIWEEKLY	SURFACE AND 1 METER	WHIPPLE DISH AND SEDGEWICK RAFTER CELL

PROJECTS:
ASSATEAGUE ECOLOGICAL STUDIES

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, U.S., DELMARVA PENINSULA, CHINCOTEAGUE BAY

ABSTRACT:
BASELINE DATA FOR CHINCOTEAGUE BAY CONTAINED IN THIS FILE FROM 3 TRANSECTS. PROJECT OBJECTIVES WERE TO ASSESS THE DISTRIBUTION OF PRIMARY PRODUCTION AND NUTRIENTS IN THE BAY. NITROGEN, PHOSPHORUS, CARBON, CHLOROPHYLL, OXYGEN AND C-14 PRODUCTIVITY, AND WATER CHEMISTRY INCLUDED.
(WORK BY WALTER BOYNTON, NRI REFERENCE NUMBER 446, UNIVERSITY OF MARYLAND)

DATA AVAILABILITY:
WRITTEN REQUEST

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
PART 3 OF 300 PAGE REPORT

FUNDING:
NATIONAL PARKS SERVICE CONTRACT NUMBER 14-10-5-950-36

INVENTORY:

PUBLICATIONS:

CONTACT:
LIBRARIAN 301 326 4281
CHESAPEAKE BIOLOGICAL LABORATORY
SOLOMONS MARYLAND USA 20688

GRID LOCATOR (LAT):
730785

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP	57	STATIONS			
TIME	EARTH	STATION TIME	YMDHML	57	STATIONS			
TEMPERATURE	WATER	THERMISTOR	DEG C	47	OBS		SURFACE	BECKMAN RS-5
TEMPERATURE	WATER	NON-REVERSING THERMOMETER	DEG C	10	OBS		SURFACE	
SALINITY	WATER	CONDUCTIVITY	PARTS PER THOUSAND	57	OBS		SURFACE	BECKMAN RS-5
SECCHI DISC DEPTH	WATER	AVERAGE DEPTH	DECIMETER	57	OBS			20 CM DISC
INSOLATION	AIR	PYRHELIOMETER, DAILY MEAN	LANGLEYS PER DAY	13	OBS			YELLOT SOL A METER

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
PHOTOSYNTHETIC RATE	WATER	CARBON-14 UPTAKE	GRAMS CARBON/ CUBIC METER/ DAY	63	OBS			PROFILE NATURAL LIGHT
PHOTOSYNTHETIC RATE	WATER	OXYGEN DETERMINATION	GRAMS CARBON/ CUBIC METER/ DAY	70	OBS			PROFILE NATURAL LIGHT
CHLOROPHYLL A	WATER	FLUOROMETRY	MG/CUBIC METER	57	OBS		SURFACE	TURNER FLUOROMETER MODEL 3
PHAEOPHYTIN A	WATER	FLUOROMETRY	MG/CUBIC METER	57	OBS		SURFACE	TURNER FLUOROMETER MODEL 3
NITRATE	WATER	SPECTROPHOTOMETRY	MICROGRAM ATOM/ L	57	OBS		SURFACE	FROZEN SAMPLES RETURNED TO LAB
NITRITE	WATER	SPECTROPHOTOMETRY	MICROGRAM ATOM/ L	57	OBS		SURFACE	FROZEN SAMPLES RETURNED TO LAB
AMMONIA	WATER	SPECTROPHOTOMETRY	MICROGRAM ATOM/ L	57	OBS		SURFACE	FROZEN SAMPLES RETURNED TO LAB
AMINO ACIDS	WATER	SPECTROPHOTOMETRY	MICROGRAM ATOM/ L	57	OBS		SURFACE	FREE
ORTHOPHOSPHATE	WATER	SPECTROPHOTOMETRY	MICROGRAM ATOM/ L	57	OBS		SURFACE	FROZEN SAMPLES RETURNED TO LAB
ORGANIC PHOSPHORUS IN BIO MATERIAL	WATER	SPECTROPHOTOMETRY	MICROGRAM ATOM/ L	57	OBS		SURFACE	FROZEN SAMPLES RETURNED TO LAB
ORGANIC CARBON	SUSPENDED	DRY COMBUSTION/ INFRARED SPECTROMETRY	MICROGRAM ATOM/ L	57	OBS		SURFACE	BECKMAN IR 215
ORGANIC CARBON	DISSOLVED	WET COMBUSTION/ INFRARED SPECTROMETRY	MICROGRAM ATOM/ L	57	OBS		SURFACE	
ORGANIC NITROGEN	DISSOLVED	SPECTROPHOTOMETRY	MICROGRAM ATOM/ L	57	OBS		SURFACE	
ORGANIC NITROGEN	SUSPENDED	SPECTROPHOTOMETRY	MICROGRAM ATOM/ L	57	OBS		SURFACE	

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DATA COLLECTED: OCTOBER 1972 TO OCTOBER 1972 RECEIVED: MAY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., PATUXENT RIVER ESTUARY

ABSTRACT:
SHORT-TERM CONCENTRATIONS AND FLUXES OF CHEMICAL AND BIOLOGICAL COMPONENTS WERE STUDIED IN THE PATUXENT RIVER ESTUARY ACROSS NINE TRANSECTS OVER A TWENTY-FIVE HOUR PERIOD.

DATA AVAILABILITY:
AFTER DECEMBER 1974

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
MAGNETIC TAPE DIGITAL
ONE 2000 FT REEL OF NINE-TRACT MAGNETIC TAPE

FUNDING:
U.S. ARMY CORP OF ENGINEERS AND OTHERS

INVENTORY:

PUBLICATIONS:

CONTACT:
CURTIS D. MOBLEY 301 454 2708
DEPARTMENT OF METEOROLOGY
UNIVERSITY OF MARYLAND
COLLEGE PARK MARYLAND USA 20742

GRID LOCATOR (LAT):
730786

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP	17	STATIONS			NINE TRANSECTS AT 4 MILE INTERVALS
TIME	EARTH	STATION TIME	YMDH	425	OBS	HOURLY		25 HOUR STUDY
CURRENT SPEED	WATER	IMPELLOR METER	FT PER SECOND	2550	OBS	EVERY 10 MINUTES	SURFACE TO BOTTOM AT 10 FT INTERVALS	
CURRENT DIRECTION	WATER	IMPELLOR METER	DEG	2550	OBS	EVERY 10 MINUTES	SURFACE TO BOTTOM AT 10 FT INTERVALS	
SALINITY	WATER	CONDUCTIVITY	PARTS PER THOUSAND	425	OBS	HOURLY	SURFACE TO BOTTOM AT 10 FT INTERVALS	

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
TEMPERATURE	WATER	THERMISTOR	DEG C	425 OBS	HOURLY	SURFACE TO BOTTOM AT 10 FT INTERVALS	
CHLOROPHYLL A	WATER	FLUOROMETRY	UG PER LITER	425 OBS	HOURLY	SURFACE TO BOTTOM AT 10 FT INTERVALS	
DISSOLVED OXYGEN GAS	WATER	SPECIFIC ION ELECTRODE	MG PER LITER	425 OBS	HOURLY	SURFACE TO BOTTOM AT 10 FT INTERVALS	
PARTICULATE MATTER	WATER	MEMBRANE FILTRATION	MG PER LITER	425 OBS	HOURLY	SURFACE TO BOTTOM AT 10 FT INTERVALS	
ORGANIC PHOSPHORUS	DISSOLVED	SPECTROPHOTOMETRY	MG PER LITER	425 OBS	HOURLY	SURFACE TO BOTTOM AT 10 FT INTERVALS	
NITRATE PLUS NITRITE	WATER	AUTOANALYZER	MG PER LITER	425 OBS	HOURLY	SURFACE TO BOTTOM AT 10 FT INTERVALS	
AMMONIA	WATER	AUTOANALYZER	MG PER LITER	425 OBS	HOURLY	SURFACE TO BOTTOM AT 10 FT INTERVALS	
KJELDAHL NITROGEN	WATER	AUTOANALYZER	MG PER LITER	425 OBS	HOURLY	SURFACE TO BOTTOM AT 10 FT INTERVALS	
ORGANIC CARBON	SUSPENDED	WET COMBUSTION/ INFRARED SPECTROMETRY	MG PER LITER	425 OBS	HOURLY	SURFACE TO BOTTOM AT 10 FT INTERVALS	
ORGANIC CARBON	DISSOLVED	WET COMBUSTION/ INFRARED SPECTROMETRY	MG PER LITER	425 OBS	HOURLY	SURFACE TO BOTTOM AT 10 FT INTERVALS	
PHOSPHORUS	WATER	AUTOANALYZER	MG PER LITER	425 OBS	HOURLY	SURFACE TO BOTTOM AT 10 FT INTERVALS	HYDROLYZABLE FRACTION
TOTAL CHLOROPHYL L	WATER	FLUOROMETRY	UG PER LITER	425 OBS	HOURLY	SURFACE TO BOTTOM AT 10 FT INTERVALS	
HEAT FLUX	WATER	CALCULATED		425 OBS	HOURLY	SURFACE TO BOTTOM AT 10 FT INTERVALS	
SALINITY FLUX	WATER	UNKNOWN		425 OBS	HOURLY	SURFACE TO BOTTOM AT 10 FT INTERVALS	

DATA COLLECTED: APRIL 1968 TO AUGUST 1970 RECEIVED: APRIL 29, 1974

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., CHESAPEAKE BAY, PATUXENT RIVER

ABSTRACT:
DATA ON HYDROGRAPHY AND NUTRIENT CHEMISTRY ARE REPORTED FOR THE PERIOD AUGUST 1968 TO AUGUST 1970 FOR A NUMBER OF STATIONS ALONG THE UPPER PATUXENT ESTUARY. THIS STUDY WAS CONCEIVED TO MEASURE THE EFFECTS IF ANY, OF THERMAL LOADING AND NUTRIENTS ON PRIMARY PRODUCTION AND PHYTOPLANKTON STANDING CROPS.
(ALSO AVAILABLE AT CBL LIBRARY, NRI REF NO 71-6)

DATA AVAILABILITY:
AVAILABLE AT COST OF REPRODUCTION

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS
ONE FINAL REPORT TO OWRR CONTAINING ALL DATA. 111 PAGES.

FUNDING:
OFFICE OF WATER RESOURCES RESEARCH

INVENTORY:

PUBLICATIONS:

CONTACT:
DAVID A FLEMER 301 326 4281
CHESAPEAKE BIOLOGICAL LABORATORY
SOLOMONS MARYLAND USA 20688

GRID LOCATOR (LAT):
730786

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP	14 STATIONS			STATIONS ALONG PATUXENT RIVER ESTUARY FROM TIDAL FRESH WATER TO AN AREA 12 MILES ABOVE SOLOMONS MARYLAND
TIME	EARTH	STATION TIME	YMD	375 OBS			SAMPLING TRIWEEKLY DURING 1969 AND BIWEEKLY

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
TEMPERATURE	WATER	THERMISTOR	DEG C	450	OBS		SURFACE AND BOTTOM	DURING 1970 BOTTOM SAMPLES AT FOUR STATIONS ONLY
SALINITY	WATER	CONDUCTIVITY	PARTS PER THOUSAND	450	OBS		SURFACE AND BOTTOM	BOTTOM SAMPLES AT FOUR STATIONS ONLY
DISSOLVED OXYGEN GAS	WATER	SPECIFIC ION ELECTRODE	MG PER LITER	450	OBS		SURFACE AND BOTTOM	BOTTOM SAMPLES AT FOUR STATIONS ONLY
PARTICULATE MATTER	WATER	MEMBRANE FILTRATION	MG PER LITER	450	OBS		SURFACE AND BOTTOM	BOTTOM SAMPLES AT FOUR STATIONS ONLY
CARBOHYDRATES	WATER	COLORIMETRY	MG PER LITER	450	OBS		SURFACE AND BOTTOM	PARTICULATE CARBOHYDRATES MEASURED AS SUCROSE
ORGANIC NITROGEN	SUSPENDED	DRY COMBUSTION/ GAS DISPLACEMENT	MG PER LITER	450	OBS		SURFACE AND BOTTOM	STRICKLAND AND PARSONS, 1968
NITRITE	WATER	COLORIMETRY	UG PER LITER	450	OBS		SURFACE AND BOTTOM	STRICKLAND AND PARSONS, 1968
NITRATE	WATER	COLORIMETRY	UG PER LITER	450	OBS		SURFACE AND BOTTOM	STRICKLAND AND PARSONS, 1968
ORGANIC NITROGEN	DISSOLVED	COLORIMETRY	UG PER LITER	450	OBS		SURFACE AND BOTTOM	STRICKLAND AND PARSONS, 1968 KJELDAHL AND ULTRAVIOLET LIGHT OXIDATION TECHNIQUES USED
AMMONIA	WATER	COLORIMETRY	UG PER LITER	450	OBS		SURFACE AND BOTTOM	AMMONIA PLUS AMINO ACIDS
NITROGEN	DISSOLVED	COLORIMETRY	UG PER LITER	450	OBS		SURFACE AND BOTTOM	STRICKLAND AND PARSONS, 1968
ORTHOPHOSPHATE	WATER	COLORIMETRY	UG PER LITER	450	OBS		SURFACE AND BOTTOM	STRICKLAND AND PARSONS, 1968
PHOSPHORUS	DISSOLVED	COLORIMETRY	UG PER LITER	450	OBS		SURFACE AND BOTTOM	STRICKLAND AND PARSONS, 1968
PHOSPHORUS	WATER	COLORIMETRY	UG PER LITER	450	OBS		SURFACE AND BOTTOM	STRICKLAND AND PARSONS, 1968
CHLOROPHYLL A	WATER	SPECTROPHOTOMETRY	UG PER LITER	450	OBS		SURFACE AND BOTTOM	BOTH TOTAL CHL A AND ACTIVE CHL A MEASURED
ORGANIC CARBON	DISSOLVED	WET COMBUSTION/ INFRARED SPECTROMETRY	MG PER LITER	450	OBS		SURFACE AND BOTTOM	MENZEL AND YACCARO, 1964
ORGANIC CARBON	SUSPENDED	WET COMBUSTION/ INFRARED SPECTROMETRY	MG PER LITER	450	OBS		SURFACE AND BOTTOM	MENZEL AND YACCARO, 1964
PHOTOSYNTHETIC RATE	WATER	CARBON-14 UPTAKE	MG C/M2/HR	250	OBS		SURFACE AND BOTTOM	

DATA COLLECTED: AUGUST 1969 TO AUGUST 1969 RECEIVED: APRIL 29, 1974

PROJECTS:
ASSATEAGUE ECOLOGICAL STUDIES

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, U.S., DELMARVA PENINSULA, CHINCOTEAGUE BAY, SINEPUXENT BAY

ABSTRACT:
DESCRIPTIVE SURVEY OF BENTHIC COMMUNITIES IN CHINCOTEAGUE AND SINEPUXENT BAYS CONDUCTED IN 1969. 139 STATIONS OCCUPIED WITH 3 REPLICATE SAMPLES PER STATION. DEPTH, SEDIMENT TYPE, AND BIOLOGICAL MATERIAL REPORTED FOR EACH STATION. MORE INTENSIVE SAMPLING PERFORMED IN AREAS OF DREDGE BORROW PITS.
(ANALYSES BY KLAUS DROBECK, NRI REFERENCE 446, UNIVERSITY OF MARYLAND)

DATA AVAILABILITY:
WRITTEN REQUEST

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
PART 6 OF 300 PAGE REPORT

FUNDING:
NATIONAL PARKS SERVICE CONTRACT NUMBER 14-10-5-950-36

INVENTORY:

PUBLICATIONS:

CONTACT:
LIBRARIAN 301 326 4281
CHESAPEAKE BIOLOGICAL LABORATORY
SOLOMONS MARYLAND USA 20688

GRID LOCATOR (LAT):
730785

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP	139	STATIONS			
TIME	EARTH	STATION TIME	YMD	139	STATIONS			
DEPTH	WATER	WIRE LENGTH	FEET	139	OBS		BOTTOM	
SIZE ANALYSIS	SEDIMENT	SETTLING/ WEIGHING	PHI UNITS	139	OBS			MEAN GRAIN SIZE, MEDIAN GRAIN SIZE, SKEWNESS, SORTING COEFFICIENT
ORGANIC CARBON	SEDIMENT	GRAVIMETRY	PERCENT OF SAMPLE	139	OBS			

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
SPECIES DETERMINATION OF BENTHIC PLANTS	BOTTOM	KEY	NUMBER OF SPECIES PER STATION	139 OBS			
COUNT OF BENTHIC PLANTS	BOTTOM	VISUAL	NUMBER PER SPECIES	139 OBS			RELATIVE ABUNDANCE SCALE TO RANK THE DOMINANT SPECIES
SPECIES DETERMINATION OF BENTHIC ANIMALS	BOTTOM	KEY	NUMBER OF SPECIES PER STATION	417 OBS			
COUNT OF BENTHIC ANIMALS	BOTTOM	VISUAL	NUMBER PER SPECIES PER REPLICATE PER STATION AND MEANS	417 OBS			
LENGTH OF BENTHIC ANIMALS	BOTTOM	DIRECT	MILLIMETERS	139 OBS			VENUS MERCENARIA, SIZE FREQUENCY PER STATION, MEAN LENGTH PER STATION
COMMUNITY STRUCTURE ANALYSIS	BOTTOM	CALCULATED	CORRELATIONS	139 OBS			DISTRIBUTION AND DENSITY OF CLAMS WITH OTHER FACTORS OF PHYSICAL AND BIOLOGICAL NATURE OF HABITAT

DATA COLLECTED: MAY 1970 TO FEBRUARY 1972
RECEIVED: JANUARY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, U.S., COASTAL, MARYLAND, CHESAPEAKE BAY, GUNPOWDER RIVER ESTUARY

ABSTRACT:
TWO FISH SEINING STATIONS WERE SAMPLED AT BIWEEKLY INTERVALS OVER A TWO YEAR PERIOD. CHEMICAL PARAMETERS WERE ALSO MEASURED.

DATA AVAILABILITY:
AVAILABLE WITH THE PERMISSION OF THE COMMANDER OF EDGEWOOD ARSENAL

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
PUNCHED CARDS
SEVERAL HUNDRED PUNCHED CARDS

FUNDING:
U.S. ARMY

INVENTORY:

PUBLICATIONS:

CONTACT:
GARETH PEARSON, RESEARCH BIOLOGIST 301 671 2586
ECOLOGY GROUP, BIOMEDICAL LABORATORY
EDGEWOOD ARSENAL
ABERDEEN PROVING GROUNDS MARYLAND USA 21010

GRID LOCATOR (LAT):
730796

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	2	STATIONS			HAWTHORNE COVE AND CARROLL POINT
TIME	EARTH	STATION TIME	YMDH	74	OBS	BIWEEKLY	SURFACE	39 OBS AT HAWTHORNE COVE AND 35 OBS AT CARROLL POINT
COUNT OF PELAGIC FISH	WATER	VISUAL	NUMBER OF INDIVIDUALS	74	OBS	BIWEEKLY	SURFACE	TWO HAULS PER STATIONS OF 4X100 FT 1/4 INCH MESH BEACH SEINE
SPECIES DETERMINATION	WATER	KEY	SPECIES NAME	74	OBS	BIWEEKLY	SURFACE	

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
OF PELAGIC FISH								
LENGTH OF PELAGIC FISH	WATER	TOTAL LENGTH	MM	74	OBS	BIWEEKLY	SURFACE	
TOTAL CARBON DIOXIDE	WATER	TITRATION	PARTS PER MILLION	74	OBS	BIWEEKLY	SURFACE	
ELECTRICAL CONDUCTIVITY	WATER	IN SITU CONDUCTIVITY CELL	UOHM PER CM2	74	OBS	BIWEEKLY	SURFACE	
HARDNESS	WATER	EDTA TITRATION	PARTS PER MILLION	74	OBS	BIWEEKLY	SURFACE	
NITRATE	WATER	COLORIMETRY	PARTS PER MILLION	74	OBS	BIWEEKLY	SURFACE	
ORTHOPHOSPHATE	WATER	COLORIMETRY	PARTS PER MILLION	74	OBS	BIWEEKLY	SURFACE	
DISSOLVED OXYGEN GAS	WATER	TITRATION	PARTS PER MILLION	74	OBS	BIWEEKLY	SURFACE	
PH	WATER	SPECIFIC ION ELECTRODE	PH UNITS	74	OBS	BIWEEKLY	SURFACE	
LIGHT ATTENUATION	WATER	SPECTROPHOTOMETRY	TURBIDITY UNITS	74	OBS	BIWEEKLY	SURFACE	
TEMPERATURE	WATER	NON-REVERSING THERMOMETER	DEG C	74	OBS	BIWEEKLY	SURFACE	
WATER LEVEL	WATER	VISUAL	FEET	74	OBS	BIWEEKLY	SURFACE	DIRECTION AND STAGE OF TIDE NOTED

DATA COLLECTED: OCTOBER 1973 TO JULY 1974 RECEIVED: JANUARY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, U.S., COASTAL, CHESAPEAKE BAY, BUSH RIVER ESTUARY, KINGS CREEK

ABSTRACT:
STATIONS WITHIN THE KINGS CREEK AREA OF THE BUSH RIVER ESTUARY ARE SAMPLED AT MONTHLY INTERVALS FOR MACROINVERTEBRATES AND CERTAIN WATER CHEMISTRY PARAMETERS, TO MONITOR WATER QUALITY.

DATA AVAILABILITY:
AVAILABLE WITH THE PERMISSION OF THE COMMANDER OF EDGEWOOD ARSENAL

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
PUNCHED CARDS; DATA SHEETS
50 PUNCHED CARDS

FUNDING:
U.S. ARMY

INVENTORY:

PUBLICATIONS:

CONTACT:
GARETH PEARSON, RESEARCH BIOLOGIST 301 671 2586
ECOLOGY GROUP, BIOMEDICAL LABORATORY
EDGEWOOD ARSENAL
ABERDEEN PROVING GROUNDS MARYLAND USA 21010

GRID LOCATOR (LAT):
730796

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	5	STATIONS			
TIME	EARTH	STATION TIME	YMDH	20	OBS	MONTHLY		
COUNT OF PERIPHYTON ON BENTHIC ANIMALS	BOTTOM	VISUAL	NUMBER OF INDIVIDUALS	20	OBS	MONTHLY		FOULING ORGANISMS ON SUBMERGED ARTIFICAL SUBSTRATE
SPECIES DETERMINATION OF PERIPHYTON	WATER	KEY	SPECIES NAME	20	OBS	MONTHLY		FOULING ORGANISMS ON SUBMERGED ARTIFICAL SUBSTRATE
TOTAL ALKALINITY	WATER	TITRATION	MILLIGRAMS PER	20	OBS	MONTHLY	SURFACE	

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
			LITER					
CHLORIDE	WATER	TITRATION	MILLIGRAMS PER LITER	20	OBS	MONTHLY	SURFACE	
CALCIUM	WATER	EDTA TITRATION	MILLIGRAMS PER LITER	20	OBS	MONTHLY	SURFACE	
HARDNESS	WATER	EDTA TITRATION	MILLIGRAMS PER LITER	20	OBS	MONTHLY	SURFACE	
COLOR	WATER	COLORIMETRY	COLOR UNITS	20	OBS	MONTHLY	SURFACE	
NITRATE	WATER	COLORIMETRY	MILLIGRAMS PER LITER	20	OBS	MONTHLY	SURFACE	
NITRITE	WATER	COLORIMETRY	MILLIGRAMS PER LITER	20	OBS	MONTHLY	SURFACE	
ORTHOPHOSPHATE	WATER	COLORIMETRY	MILLIGRAMS PER LITER	20	OBS	MONTHLY	SURFACE	
SILICATE	WATER	COLORIMETRY	MILLIGRAMS PER LITER	20	OBS	MONTHLY	SURFACE	
SULFATE	WATER	COLORIMETRY	MILLIGRAMS PER LITER	20	OBS	MONTHLY	SURFACE	
LIGHT ATTENUATION	WATER	SPECTROPHOTOMETRY	TURBIDITY UNITS	20	OBS	MONTHLY	SURFACE	
TEMPERATURE	WATER	THERMISTOR	DEG C	20	OBS	RECORDED CONTINUOUSLY FOR 3 MIN AT 20 MIN INTERVALS ON STRIP CHART EACH MONTH	SURFACE	
DISSOLVED OXYGEN GAS	WATER	SPECIFIC ION ELECTRODE	MILLIGRAMS PER LITER	20	OBS	RECORDED CONTINUOUSLY FOR 3 MIN AT 20 MIN INTERVALS ON STRIP CHART EACH MONTH	SURFACE	
PH	WATER	SPECIFIC ION ELECTRODE	PH UNITS	20	OBS	RECORDED CONTINUOUSLY FOR 3 MIN AT 20 MIN INTERVALS ON STRIP CHART EACH MONTH	SURFACE	
EH	WATER	SPECIFIC ION ELECTRODE	MILLIVOLTS	20	OBS	RECORDED CONTINUOUSLY FOR 3 MIN AT 20 MIN INTERVALS ON STRIP CHART EACH MONTH	SURFACE	
BATHYMETRY	WATER	LEAD LINE	FEET	20	OBS	MONTHLY	SURFACE	

DATA COLLECTED: DECEMBER 1972 TO JULY 1974 RECEIVED: JANUARY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, U.S., COASTAL, MARYLAND, CHESAPEAKE BAY, GUNPOWDER R IVER ESTUARY, CANAL CREEK

ABSTRACT:
STATION WITHIN THE CANAL CREEK AREA OF THE GUNPOWDER RIVER ESTUARY A RE SAMPLED AT MONTHLY INTERVALS FOR MACROINVERTEBRATES AND CERTAIN WATER CHEMISTRY PARAMETERS, TO MONITOR WATER QUALITY

DATA AVAILABILITY:
AVAILABLE WITH THE PERMISSION OF THE COMMANDER OF EDGEWOOD ARSENAL

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
PUNCHED CARDS; DATA SHEETS
200 PUNCHED CARDS

FUNDING:
U.S. ARMY

INVENTORY:

PUBLICATIONS:
ECOLOGICAL RESEARCH OFFICE. 1975. RESULTS OF AQUATIC ECOLOGICAL SURVEYS OF CANAL CREEK, EDGEWOOD ARSENAL, ABERDEEN PROVING GROUNDS, MD (MANUSCRIPT)

CONTACT:
GARETH PEARSON, RESEARCH BIOLOGIST 301 671 2586
ECOLOGY GROUP, BIOMEDICAL LABORATORY
EDGEWOOD ARSENAL
ABERDEEN PROVING GROUNDS MARYLAND USA 21010

GRID LOCATOR (LAT):
730796

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	11	STATIONS			7 STATIONS CURRENTLY ACTIVE
TIME	EARTH	SAMPLING TIME	YMDHM	150	OBS	BIWEEKLY AND MONTHLY		MOST RECENT SAMPLES ARE AT MONTHLY INTERVALS
COUNT OF BENTHIC ANIMALS	BOTTOM	VISUAL	NUMBER OF INDIVIDUALS	150	OBS	BIWEEKLY AND MONTHLY		ONLY THOSE INVERTEBRATES WHICH ARE RETAINED BY A

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
								NO. 30 SIEVE; COLLECTED WITH DIP NET, PONAR GRAB, SURBER SAMPLER ARTIFICAL SUBSTRATE; ZOOPLANKTON ALSO COLLECTED
SPECIES DETERMINATION OF BENTHIC ANIMALS	BOTTOM	KEY	SPECIES NAME	150	OBS	BIWEEKLY AND MONTHLY		ONLY THOSE INVERTEBRATES WHICH ARE RETAINED BY A NO. 30 SIEVE; COLLECTED WITH DIP NET, PONAR GRAB, SURBER SAMPLER ARTIFICAL SUBSTRATE; ZOOPLANKTON ALSO COLLECTED
TOTAL ALKALINITY	WATER	TITRATION	MILLIGRAMS PER LITER	150	OBS	BIWEEKLY AND MONTHLY	BOTTOM	
CHLORIDE	WATER	TITRATION	MILLIGRAMS PER LITER	150	OBS	BIWEEKLY AND MONTHLY	BOTTOM	
CALCIUM	WATER	EDTA TITRATION	MILLIGRAMS PER LITER	150	OBS	BIWEEKLY AND MONTHLY	BOTTOM	
HARDNESS	WATER	EDTA TITRATION	MILLIGRAMS PER LITER	150	OBS	BIWEEKLY AND MONTHLY	BOTTOM	
COLOR	WATER	COLORIMETRY	COLOR UNITS	150	OBS	BIWEEKLY AND MONTHLY	BOTTOM	
NITRATE	WATER	COLORIMETRY	MILLIGRAMS PER LITER	150	OBS	BIWEEKLY AND MONTHLY	BOTTOM	
NITRITE	WATER	COLORIMETRY	MILLIGRAMS PER LITER	150	OBS	BIWEEKLY AND MONTHLY	BOTTOM	
ORTHOPHOSPHATE	WATER	COLORIMETRY	MILLIGRAMS PER LITER	150	OBS	BIWEEKLY AND MONTHLY	BOTTOM	
SILICATE	WATER	COLORIMETRY	MILLIGRAMS PER LITER	150	OBS	BIWEEKLY AND MONTHLY	BOTTOM	
SULFATE	WATER	COLORIMETRY	MILLIGRAMS PER LITER	150	OBS	BIWEEKLY AND MONTHLY	BOTTOM	
LIGHT ATTENUATION	WATER	SPECTROPHOTOMETRY	TURBIDITY UNITS	150	OBS	BIWEEKLY AND MONTHLY	BOTTOM	
TEMPERATURE	WATER	THERMISTOR	DEG C	150	OBS	BIWEEKLY AND MONTHLY	BOTTOM	RECORDED CONTINUOUSLY FOR 3 MIN AT 20 MIN INTERVALS ON STRIP CHART EACH MONTH
DISSOLVED OXYGEN GAS	WATER	SPECIFIC ION ELECTRODE	MILLIGRAMS PER LITER	150	OBS	BIWEEKLY AND MONTHLY	BOTTOM	RECORDED CONTINUOUSLY

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
PH	WATER	SPECIFIC ION ELECTRODE	PH UNITS	150	OBS	BIWEEKLY AND MONTHLY	BOTTOM	FOR 3 MIN AT 20 MIN INTERVALS ON STRIP CHART EACH MONTH RECORDED CONTINUOUSLY FOR 3 MIN AT 20 MIN INTERVALS ON STRIP CHART EACH MONTH
EH	WATER	SPECIFIC ION ELECTRODE	MILLIVOLTS	150	OBS	BIWEEKLY AND MONTHLY	BOTTOM	RECORDED CONTINUOUSLY FOR 3 MIN AT 20 MIN INTERVALS ON STRIP. CHART EACH MONTH
BATHYMETRY	WATER	LEAD LINE	FEET	150	OBS	BIWEEKLY AND MONTHLY	BOTTOM	

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., CHESAPEAKE BAY AND TRIBUTARIES

ABSTRACT:
ALL OCEANOGRAPHIC DATA GENERATED AT VIMS AND RECORDED ON VIMS OCEANOGRAPHY FORM 1 IS STORED IN THIS DATA BASE. UNTIL 1971 THE DATA BASE INCLUDES ONLY PHYSICAL MEASUREMENTS BUT AFTER THAT DATE PROVISION WAS MADE FOR RECORDING CHEMICAL DATA AS WELL. THE DATA IS STORED ON MAGNETIC DISC BUT IS RETRIEVED IN PRINTOUT FORM. EACH DATA POINT IS RECORDED WITH DAY, MONTH, YEAR, TIME, LATITUDE, LONGITUDE, RIVER CODE, DEPTH OF SAMPLE. DATA IS RETRIEVABLE BY STATION NUMBER, RIVER, YEAR, MONTH, DAY, PARAMETER RANGE OF YEARS, RANGE OF MONTHS, RANGE OF DAYS, CRUISE, VESSEL, TIDAL CURRENT STAGE, AREA DEFINED BY LAT AND LONG. THE SYSTEM HAS THE CAPACITY FOR ADDITIONAL INPUT OF PARAMETERS AS THEY ARE GENERATED AND RECORDED ON FORM 1

DATA AVAILABILITY:
COST OF COMPUTER RETRIEVAL PLUS FEE

PLATFORM TYPES:
SHIP; FIXED STATION

ARCHIVE MEDIA:
MAGNETIC DISC
THIRTEEN VOLUMES OF DATA PRINTOUTS EACH APPROXIMATELY THREE INCHES THICK

FUNDING:
STATE OF VIRGINIA

INVENTORY:

PUBLICATIONS:
VIMS UNPUBLISHED DATA REPORT NO 5, OPERATION JAMES RIVER, SHIDLER AND MACINTYRE

CONTACT:
JOHN PLEASANTS 804 642 2111
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT VIRGINIA USA 23062

GRID LOCATOR (LAT):
730765 730766 730775 730776 730785 730786 730795 730796

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	LONGITUDE AND LATITUDE	100000	STATIONS			
TIME	EARTH	STATION TIME	YMDHM	300000	OBS			
TEMPERATURE	WATER	VARIOUS	DEG C	250000	OBS			THERMISTOR, XBT, REVERSING THERMOMETER, INFRARED SCANNER, MECHANICAL BT;

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
SALINITY	WATER	VARIOUS	PARTS PER THOUSAND	250000	OBS			OBS ARE CODED BY INSTRUMENT RS-5, HYDROMETER, REFRACTOMETER, SALINOMETER, TITRATION, STD; OBS ARE CODED BY INSTRUMENT
CURRENT SPEED	WATER	VARIOUS	VARIOUS	50000	OBS			DYE STUDY, DRIFT DEVICE, IMPELLOR METER, NEUTRAL DENSITY FLOAT, SAVONIUS ROTOR METER; OBS ARE CODED BY INSTRUMENT
CURRENT DIRECTION	WATER	VARIOUS	DEGREES	50000	OBS			DYE STUDY, DRIFT DEVICE, IMPELLOR METER, NEUTRAL DENSITY FLOAT, SAVONIUS ROTOR METER; OBS ARE CODED BY INSTRUMENT
BIOCHEMICAL OXYGEN DEMAND	WATER	TITRATION	MG PER LITER	20000	OBS			
DISSOLVED OXYGEN GAS	WATER	VARIOUS	MG PER LITER	50000	OBS			TITRATION, SENSOR; CODED BY INSTRUMENT
NITRATE	WATER	VARIOUS	UG ATOMS/LITER	1000	OBS			
NITRITE	WATER	VARIOUS	UG ATOMS/LITER	1000	OBS			
PHOSPHORUS	WATER	VARIOUS	UG ATOMS/LITER	500	OBS			
NITROGEN	WATER	VARIOUS	UG ATOMS/LITER	500	OBS			
ORGANIC NITROGEN	WATER	VARIOUS	UG ATOMS/LITER	500	OBS			.KJELDAHL NITROGEN S-WATER M-VARIOUS U-UG ATOMS/LITER T-OBS Q-500 F- H- R-
AMMONIA	WATER	VARIOUS	UG ATOMS/LITER	1000	OBS			
PARTICULATE MATTER	WATER	VARIOUS	PPM	500	OBS			

AN EVALUATION OF THE TOTAL PHOSPHORUS CONCENTRATIONS IN THE WATERS OF TWO SOUTHERN DELAWARE SALT MARSHES

DATA COLLECTED: AUGUST 1968 TO SEPTEMBER 1969

RECEIVED: JUNE 18, 1974

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., DELAWARE BAY, CANARY CREEK, MURDERKILL CREEK

ABSTRACT:
THE STUDY WAS UNDERTAKEN TO EXAMINE THE DISTRIBUTION OF TOTAL PHOSPHORUS AND ITS THREE MAJOR COMPONENTS, PARTICULATE PHOSPHORUS, DISSOLVED ORGANIC PHOSPHORUS, DISSOLVED INORGANIC PHOSPHORUS, OVER A 13 MONTH PERIOD IN TWO MARSHES IN RELATION TO SEASON ENVIRONMENTAL FLUX, AND TOPOGRAPHY. THE DATA GATHERED IS INCLUDED IN AN UNPUBLISHED M.S. THESIS LOCATED IN THE UNIVERSITY OF DELAWARE LIBRARY.
(DATA INCLUDED IN UNPUBL. M.S. THESIS, 1972, BY W GREGORY P. SHLOPAK)

DATA AVAILABILITY:
LIBRARY LOAN

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS
ONE 114 PAGE THESIS

FUNDING:
UNIVERSITY OF DELAWARE

INVENTORY:

PUBLICATIONS:

CONTACT:
LIBRARIAN 302 738 2455
MORRIS LIBRARY
UNIVERSITY OF DELAWARE
NEWARK DELAWARE USA 19711

GRID LOCATOR (LAT):
730795

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	14	STATIONS			
TIME	EARTH	SAMPLING TIME	YMDH	76	OBS	MONTHLY		IN 22 SAMPLINGS WATER SAMPLES WERE OBTAINED AT HIGH SLACK WATER AND LOW SLACK WATER, IN 4 SAMPLINGS WATER SAMPLES

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
TEMPERATURE	AIR	MERCURY THERMOMETER	DEG C	26	OBS			WERE COLLECTED EVERY 4 HOURS FOR 24 HOURS ONE AVERAGED VALUE FOR EACH SAMPLING
TEMPERATURE	WATER	NON-REVERSING THERMOMETER	DEG C	76	OBS		SURFACE	
SALINITY	WATER	CONDUCTIVITY	PPT	76	OBS		SURFACE	HYTECH INDUCTION SALINOMETER
PH	WATER	PH METER	PH UNITS	76	OBS		SURFACE	ORION SPECIFIC ION METER MODEL 401
PHOSPHORUS	SUSPENDED	COLORIMETRY	UG-AT PER LITER	76	OBS		SURFACE	
ORGANIC PHOSPHORUS	DISSOLVED	CALCULATED	UG-AT PER LITER	76	OBS		SURFACE	
INORGANIC PHOSPHORUS	DISSOLVED	COLORIMETRY	UG-AT PER LITER	76	OBS		SURFACE	

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., CHESAPEAKE BAY

ABSTRACT:
PRIMARY PRODUCTIVITY RATES WERE DETERMINED BY IN SITU LIGHT AND DARK BOTTLE MEASUREMENTS AT SEVERAL STATIONS NEAR THE UNFINISHED CALVERT CLIFFS NUCLEAR GENERATING PLANT ON THE CHESAPEAKE BAY.
(CONTRACT WORK DONE FOR THE BALTIMORE GAS AND ELECTRIC COMPANY)

DATA AVAILABILITY:
REPORTS AVAILABLE ONLY FROM CONTRACT AGENCY

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS
ONE 25 PAGE REPORT

FUNDING:
BALTIMORE GAS AND ELECTRIC COMPANY

INVENTORY:

PUBLICATIONS:

CONTACT:
DR. CLYDE E. GOULDEN 215 567 3700
THE ACADEMY OF NATURAL SCIENCES
NINETEENTH AND THE PARKWAY
PHILADELPHIA PENNSYLVANIA USA 19103

GRID LOCATOR (LAT):
730786

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	3	STATIONS			
TIME	EARTH	STATION TIME	YMD	6	OBS	TWICE		STATIONS LOCATED NEAR UNCOMPLETED NUCLEAR GENERATING STATION
SALINITY	WATER	CONDUCTIVITY	PPT	220	OBS		SURFACE AND BOTTOM	
PH	WATER	PH METER	PH UNITS	220	OBS		SURFACE AND BOTTOM	
PHOTOSYNTHETIC	WATER	OXYGEN DETERMINAT	G O2 PER M2 PER	220	OBS		SURFACE AND	LIGHT AND DARK

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
RATE		ION	9 HR			BOTTOM	BOTTLE TECHNIQUE

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., DELAWARE RIVER

ABSTRACT:
TO DETERMINE THE EFFECTS OF THERMAL DISCHARGES BY THREE POWER PLANTS LOCATED ON THE DELAWARE RIVER BETWEEN TRENTON N.J. AND THE PA. - DEL. LINE, TWELVE SAMPLING STATIONS WERE USED TO OBTAIN WATER SAMPLES FOR ZOOPLANKTON, PHYTOPLANKTON AND BACTERIAL COUNTS AND MEASUREMENT OF CERTAIN NUTRIENTS.
(CONTRACT WORK DONE FOR THE INSTITUTE FOR THE DEVELOPMENT OF RIVERINE AND ESTUARINE SYSTEMS)

DATA AVAILABILITY:
REPORTS AVAILABLE ONLY FROM CONTRACT AGENCY

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS
TWO REPORTS: ONE 25 PAGES AND ONE 50 PAGES

FUNDING:
INSTITUTE FOR THE DEVELOPMENT OF RIVERINE AND ESTUARINE SYSTEMS

INVENTORY:

PUBLICATIONS:

CONTACT:
DR. CLYDE E. GOULDEN 215 567 3700
THE ACADEMY OF NATURAL SCIENCES
NINETEENTH AND THE PARKWAY
PHILADELPHIA PENNSYLVANIA USA 19103

GRID LOCATOR (LAT):
730795

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	12	STATIONS			4 SAMPLING STATIONS LOCATED NEAR EACH OF 3 POWER PLANTS
TIME	EARTH	STATION TIME	YMD	266	OBS	MONTHLY		23 MONTHLY SAMPLINGS AT 12 STATIONS
SPECIES DETERMINATION OF PHYTOPLANKTO	WATER	KEY	PRESENCE OR ABSENCE BY SPECIES	266	OBS	MONTHLY	SURFACE AND BOTTOM	20 LITERS OF WATER PUMPED THROUGH A NO.

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
N								20 MESH NET THEN FILTERED AND COUNTED
SPECIES DETERMINATION OF ZOOPLANKTON	WATER	KEY	PRESENCE OR ABSENCE BY SPECIES	266	OBS	MONTHLY	SURFACE AND BOTTOM	20 LITERS OF WATER PUMPED THROUGH A NO. 20 MESH NET THEN FILTERED AND COUNTED
COUNT OF MICROBIOTA	WATER	VISUAL	PLATE COUNT	266	OBS	MONTHLY		TOTAL BACTERIA AND COLIFORM BACTERIA
PHOSPHATE	WATER	SPECTROPHOTOMETRY	PPM	266	OBS	MONTHLY		
NITRATE	WATER	SPECTROPHOTOMETRY	PPM	266	OBS	MONTHLY		
AMMONIA	WATER	SPECTROPHOTOMETRY	PPM	266	OBS	MONTHLY		
DISSOLVED OXYGEN GAS	WATER	TITRATION	PPM	266	OBS	MONTHLY		
BIOCHEMICAL OXYGEN DEMAND	WATER	TITRATION	PPM	266	OBS	MONTHLY		
CHLORINE	WATER	TITRATION	PPM	266	OBS	MONTHLY		
TEMPERATURE	WATER	THERMISTOR	DEG C	266	OBS	MONTHLY		

DATA COLLECTED: JANUARY 1969 TO PRESENT
RECEIVED: AUGUST 09, 1974

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., CHESAPEAKE BAY

ABSTRACT:
WATER SAMPLES OBTAINED MONTHLY FROM STATIONS IN THE VICINITY OF THE PROPOSED NUCLEAR GENERATING STATION AT CALVERT CLIFFS, MARYLAND ARE ANALYSED FOR A NUMBER OF CHEMICAL, BACTERIOLOGICAL AND PHYSICAL PARAMETERS. THE RESULTS OF THESE ANALYSES ARE AVAILABLE FROM THE BALTIMORE GAS AND ELECTRIC COMPANY IN THE FORM OF YEARLY CONTRACT REPORTS BY THE PHILA. ACADEMY. (CONTRACT WORK DONE FOR THE BALTIMORE GAS AND ELECTRIC COMPANY)

DATA AVAILABILITY:
REPORTS AVAILABLE ONLY FROM CONTRACT AGENCY

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS
YEARLY REPORTS EACH APPROXIMATELY 100 PAGES

FUNDING:
BALTIMORE GAS AND ELECTRIC COMPANY

INVENTORY:

PUBLICATIONS:

CONTACT:
DR. CLYDE E. GOULDEN 215 567 3700
THE ACADEMY OF NATURAL SCIENCES
NINETEENTH AND THE PARKWAY
PHILADELPHIA PENNSYLVANIA USA 19103

GRID LOCATOR (LAT):
730786

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP	5	STATIONS			LOCATED ALONG 30 FT DEPTH CONTOUR NEAR SHORE
TIME	EARTH	STATION TIME	YMD	350	OBS	MONTHLY		
TEMPERATURE	WATER	THERMISTOR	DEG C	700	OBS	MONTHLY	SURFACE AND BOTTOM	
CHLORIDE	WATER	TITRATION	PPM	700	OBS	MONTHLY	SURFACE AND BOTTOM	STANDARD METHODS PROCEDURE

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
PH	WATER	SPECIFIC ION ELECTRODE	PH UNITS	700	OBS	MONTHLY	SURFACE AND BOTTOM	BECKMAN ZEROMATIC METER
SALINITY	WATER	CONDUCTIVITY	PPT	700	OBS	MONTHLY	SURFACE AND BOTTOM	
SILICATE	WATER	COLORIMETRY	PPM	700	OBS	MONTHLY	SURFACE AND BOTTOM	STANDARD METHODS PROCEDURE
SULFATE	WATER	GRAVIMETRY	PPM	700	OBS	MONTHLY	SURFACE AND BOTTOM	STANDARD METHODS PROCEDURE
ORTHOPHOSPHATE	WATER	COLORIMETRY	PPM	700	OBS	MONTHLY	SURFACE AND BOTTOM	STANDARD METHODS PROCEDURE
PHOSPHATE	WATER	COLORIMETRY	PPM	700	OBS	MONTHLY	SURFACE AND BOTTOM	STANDARD METHODS PROCEDURE
NITRATE	WATER	COLORIMETRY	PPM	700	OBS	MONTHLY	SURFACE AND BOTTOM	STANDARD METHODS PROCEDURE
NITRITE	WATER	COLORIMETRY	PPM	700	OBS	MONTHLY	SURFACE AND BOTTOM	STANDARD METHODS PROCEDURE
AMMONIA	WATER	TITRATION	PPM	700	OBS	MONTHLY	SURFACE AND BOTTOM	STANDARD METHODS PROCEDURE
HARDNESS	WATER	TITRATION	PPM	700	OBS	MONTHLY	SURFACE AND BOTTOM	TOTAL, CALCIUM, MAGNESIUM
PHENOLPHTHALEIN ALKALINITY	WATER	TITRATION	PPM	700	OBS	MONTHLY	SURFACE AND BOTTOM	STANDARD METHODS PROCEDURE
TOTAL ALKALINITY	WATER	TITRATION	PPM	700	OBS	MONTHLY	SURFACE AND BOTTOM	METHYL PURPLE INDICATOR
BIOCHEMICAL OXYGEN DEMAND	WATER	TITRATION	PPM	700	OBS	MONTHLY	SURFACE AND BOTTOM	STANDARD METHODS PROCEDURE
DISSOLVED OXYGEN GAS	WATER	TITRATION	PPM	700	OBS	MONTHLY	SURFACE AND BOTTOM	STANDARD METHODS PROCEDURE
LIGHT ATTENUATION	WATER	SPECTROPHOTOMETRY	PPM	700	OBS	MONTHLY	SURFACE AND BOTTOM	STANDARD METHODS PROCEDURE
CALCIUM	WATER	TITRATION	PPM	700	OBS	MONTHLY	SURFACE AND BOTTOM	CALCULATED FROM CA HARDNESS VALUES
MAGNESIUM	WATER	TITRATION	PPM	700	OBS	MONTHLY	SURFACE AND BOTTOM	CALCULATED FROM MG HARDNESS VALUES
CARBONATE ALKALINITY	WATER	TITRATION	PPM	700	OBS	MONTHLY	SURFACE AND BOTTOM	CALCULATED FROM PHENOLPHTHALEIN ALKALINITY
BICARBONATE	WATER	TITRATION	PPM	700	OBS	MONTHLY	SURFACE AND	CALCULATED FROM

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
ALKALINITY							BOTTOM	METHYL PURPLE ALKALINITY
COUNT OF MICROBIOTA	WATER	VISUAL	NUMBER PER 100 ML	350	OBS	MONTHLY	SURFACE	TOTAL COLIFORM AND PRESUMPTIVE COLIFORM
IRON	WATER	SPECTROPHOTOMETRY	PPM	350	OBS	MONTHLY	SURFACE	BAUSCH AND LOMB SPECTRONIC 100
MANGANESE	WATER	SPECTROPHOTOMETRY	PPM	350	OBS	MONTHLY	SURFACE	BAUSCH AND LOMB SPECTRONIC 100
SODIUM	WATER	SPECTROPHOTOMETRY	PPM	350	OBS	MONTHLY	SURFACE	BAUSCH AND LOMB SPECTRONIC 100
POTASSIUM	WATER	SPECTROPHOTOMETRY	PPM	350	OBS	MONTHLY	SURFACE	BAUSCH AND LOMB SPECTRONIC 100
STRONTIUM	WATER	SPECTROPHOTOMETRY	PPM	350	OBS	MONTHLY	SURFACE	BAUSCH AND LOMB SPECTRONIC 100
COBALT	WATER	SPECTROPHOTOMETRY	PPM	350	OBS	MONTHLY	SURFACE	BAUSCH AND LOMB SPECTRONIC 100
COPPER	WATER	SPECTROPHOTOMETRY	PPM	350	OBS	MONTHLY	SURFACE	BAUSCH AND LOMB SPECTRONIC 100
NICKEL	WATER	SPECTROPHOTOMETRY	PPM	350	OBS	MONTHLY	SURFACE	BAUSCH AND LOMB SPECTRONIC 100
LEAD	WATER	SPECTROPHOTOMETRY	PPM	350	OBS	MONTHLY	SURFACE	BAUSCH AND LOMB SPECTRONIC 100
ZINC	WATER	SPECTROPHOTOMETRY	PPM	350	OBS	MONTHLY	SURFACE	BAUSCH AND LOMB SPECTRONIC 100
CALCIUM	WATER	SPECTROPHOTOMETRY	PPM	350	OBS	MONTHLY	SURFACE	BAUSCH AND LOMB SPECTRONIC 100
CADMIUM	WATER	COLORIMETRY	PPM	350	OBS	MONTHLY	SURFACE	BAUSCH AND LOMB SPECTRONIC 100
BORON	WATER	COLORIMETRY	PPM	350	OBS	MONTHLY	SURFACE	

DATA COLLECTED: JUNE 1971 TO AUGUST 1971
RECEIVED: SEPTEMBER 04, 1974

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, U.S., CHESAPEAKE BAY, PATUXENT RIVER, COASTAL

ABSTRACT:
STANDARD SOILS ANALYSIS AT 31 SITES ALONG THE PATUXENT RIVER MARSH SYSTEM. USED 3 INCH AUGER BUCKET WITH 6 BORINGS PER SITE TO A DEPTH OF 42 INCHES. SOIL CLASSIFICATION, NUTRIENTS, CHEMISTRY, AND CLAY MINERALOGY DATA INCLUDED IN FILE. RELATE MARSH VEGETATION TO SEDIMENT PROFILE CHARACTERISTICS.
(MS THESIS 1973 J. C. BAXTER, AGRONOMY DEPARTMENT)

DATA AVAILABILITY:
INTERLIBRARY LOAN

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS
92 PAGES

FUNDING:
UNIVERSITY OF MARYLAND

INVENTORY:

PUBLICATIONS:

CONTACT:
LIBRARIAN 301 454 3011
MCKELDIN LIBRARY
UNIVERSITY OF MARYLAND
COLLEGE PARK MARYLAND USA 20742

GRID LOCATOR (LAT):
730786

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP	31	STATIONS			
TIME	EARTH	STATION TIME	YMD	31	STATIONS			
SIZE ANALYSIS	SEDIMENT	SETTLING/ WEIGHING	PERCENT	19	OBS		BORING 42 INCHES DEEP	PROFILE AT MARSH SITES
REACTIVE PHOSPHATE	SEDIMENT	SPECTROPHOTOMETRY	PPM	158	OBS			
POTASSIUM	SEDIMENT	FLAME SPECTROMETRY	PPM	158	OBS			
CALCIUM	SEDIMENT	FLAME SPECTROMETRY	PPM	158	OBS			
MAGNESIUM	SEDIMENT	COLORIMETRY	PPM	158	OBS			

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
PH	INTERSTITIAL	SPECIFIC ION ELECTRODE	PH UNITS	574	OBS			PROFILE AT MARSH SITES
ELECTRICAL CONDUCTIVITY	SEDIMENT	LAB CONDUCTIVITY CELL	MHOS	140	OBS			
ORGANIC CARBON	SEDIMENT	WET COMBUSTION/ GAS DISPLACEMENT	PERCENT	140	OBS			
PHOSPHORUS	SEDIMENT	SPECTROPHOTOMETRY	PPM	210	OBS			TECHNICON AUTOANALYZER
POTASSIUM	SEDIMENT	FLAME SPECTROMETRY	PPM	210	OBS			
MAGNESIUM	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PPM	210	OBS			
CALCIUM	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	PPM	210	OBS			.KJELDAHL NITROGEN S-SEDIMENT M-COLORIMETRY U-PPM T-OBS Q-140 F- H- R-
SULFUR	SEDIMENT	GRAVIMETRY	PPM	30	OBS			
MINERALOGY	SEDIMENT	X-RAY DIFFRACTION	SIZE DISTRIBUTION AND COMPOSITION BY TYPE	21	OBS			GLAUCONITE, QUARTZ, MICA, VERMICULITE, MONTMORILLONITE, CHLORITE, KOLINITE; SIZE CLASSES, 2 TO 5, 2 TENTHS TO 2, AND LESS THAN 2 TENTHS MICRONS

DATA COLLECTED: JUNE 1968 TO PRESENT

RECEIVED: SEPTEMBER 04, 1974

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., CHESAPEAKE BAY

ABSTRACT:
TO DETERMINE THE ECOSYSTEM STRUCTURE AND ITS ECOLOGICAL CHARACTERISTICS, PARTICULARLY DIVERSITY, IN CERTAIN SELECTED, SHALLOW-WATER AREAS IN THE VICINITY OF THE CALVERT CLIFFS NUCLEAR GENERATING STATION A BAY SURVEY IS BEING CARRIED OUT INCLUDING BIOLOGICAL, CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL STUDIES OF THE WATER. THE STUDY IS TO DETERMINE A BASE LINE PICTURE OF CHESAPEAKE BAY CONDITIONS BEFORE PLANT OPERATIONS BEGIN.
(CONTRACT WORK DONE FOR THE BALTIMORE GAS AND ELECTRIC COMPANY)

DATA AVAILABILITY:
REPORTS AVAILABLE ONLY FROM CONTRACT AGENCY

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS
FIVE 50 PAGE YEARLY REPORTS

FUNDING:
BALTIMORE GAS AND ELECTRIC COMPANY

INVENTORY:

PUBLICATIONS:

CONTACT:
DR. CLYDE E. GOULDEN 215 567 3700
THE ACADEMY OF NATURAL SCIENCES
NINETEENTH AND THE PARKWAY
PHILADELPHIA PENNSYLVANIA USA 19103

GRID LOCATOR (LAT):
730786

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP	4	STATIONS			
TIME	EARTH	SAMPLING TIME	YMDHM	40	OBS	TWICE PER YEAR		
SPECIES DETERMINATION OF BENTHIC PLANTS	BOTTOM	KEY	NUMBER OF SPECIES PER CLASS	40	OBS	TWICE PER YEAR	SHORE ZONE	ALGAE OBTAINED BY VARIED TECHNIQUES
SPECIES DETERMINATION	WATER	KEY	SPECIES, CLASS, TYPE	40	OBS	TWICE PER YEAR	SHORE ZONE	PROTOZOA OBTAINED BY

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
OF MICROBIOTA								COLLECTING VARIOUS SUBSTRATES THAT WOULD PROVIDE MICROHABITATS; PLANKTON TOWS ALSO USED
SPECIES DETERMINATION OF BENTHIC ANIMALS	BOTTOM	KEY	NUMBER OF SPECIES PER STATION	40	OBS	TWICE PER YEAR	SHORE ZONE	VARIOUS COLLECTING MECHANISMS USED TO SAMPLE ALL BOTTOM TYPES
SPECIES DETERMINATION OF DEMERSAL FISH	WATER	KEY	NUMBER OF SPECIES PER STATION	40	OBS	TWICE PER YEAR	SHORE ZONE	50 FT BAG SEINE WITH ONE-HALF INCH MESH USED; DENDROGRAMS OF SPECIES ASSOCIATIONS PRESENTED
TOTAL ALKALINITY	WATER	TITRATION	PPM	400	OBS	DAILY FOR ONE WEEK	SURFACE	SAMPLES OBTAINED AT 5 HIGH AND 5 LOW TIDES AT 4 STATIONS OVER A ONE WEEK PERIOD TWICE A YEAR; MEAN STD ERROR OF MEAN FOR HIGH AND LOW TIDE SAMPLINGS PRESENTED
LIGHT ATTENUATION	WATER	COLORIMETRY	PPM	400	OBS	DAILY FOR ONE WEEK	SURFACE	SAMPLES OBTAINED AT 5 HIGH AND 5 LOW TIDES AT 4 STATIONS OVER A ONE WEEK PERIOD TWICE A YEAR; MEAN STD ERROR OF MEAN FOR HIGH AND LOW TIDE SAMPLINGS PRESENTED
CHLORIDE	WATER	TITRATION	PPM	400	OBS	DAILY FOR ONE WEEK	SURFACE	SAMPLES OBTAINED AT 5 HIGH AND 5 LOW TIDES AT 4 STATIONS OVER

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
								A ONE WEEK PERIOD TWICE A YEAR; MEAN STD ERROR OF MEAN FOR HIGH AND LOW TIDE SAMPLINGS PRESENTED
DISSOLVED OXYGEN GAS	WATER	TITRATION	PPM	400	OBS	DAILY FOR ONE WEEK	SURFACE	SAMPLES OBTAINED AT 5 HIGH AND 5 LOW TIDES AT 4 STATIONS OVER A ONE WEEK PERIOD TWICE A YEAR; MEAN STD ERROR OF MEAN FOR HIGH AND LOW TIDE SAMPLINGS PRESENTED
BIOCHEMICAL OXYGEN DEMAND	WATER	TITRATION	PPM	400	OBS	DAILY FOR ONE WEEK	SURFACE	SAMPLES OBTAINED AT 5 HIGH AND 5 LOW TIDES AT 4 STATIONS OVER A ONE WEEK PERIOD TWICE A YEAR; MEAN STD ERROR OF MEAN FOR HIGH AND LOW TIDE SAMPLINGS PRESENTED
SULFATE	WATER	TITRATION	PPM	400	OBS	DAILY FOR ONE WEEK	SURFACE	SAMPLES OBTAINED AT 5 HIGH AND 5 LOW TIDES AT 4 STATIONS OVER A ONE WEEK PERIOD TWICE A YEAR; MEAN STD ERROR OF MEAN FOR HIGH AND LOW TIDE SAMPLINGS PRESENTED
SILICATE	WATER	COLORIMETRY	PPM	400	OBS	DAILY FOR ONE WEEK	SURFACE	SAMPLES OBTAINED AT 5 HIGH AND 5 LOW TIDES AT 4 STATIONS OVER

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
								A ONE WEEK PERIOD TWICE A YEAR; MEAN STD ERROR OF MEAN FOR HIGH AND LOW TIDE SAMPLINGS PRESENTED
BICARBONATE ALKALINITY	WATER	CALCULATED	PPM	400	OBS	DAILY FOR ONE WEEK	SURFACE	SAMPLES OBTAINED AT 5 HIGH AND 5 LOW TIDES AT 4 STATIONS OVER A ONE WEEK PERIOD TWICE A YEAR; MEAN STD ERROR OF MEAN FOR HIGH AND LOW TIDE SAMPLINGS PRESENTED
CARBONATE ALKALINITY	WATER	CALCULATED	PPM	400	OBS	DAILY FOR ONE WEEK	SURFACE	SAMPLES OBTAINED AT 5 HIGH AND 5 LOW TIDES AT 4 STATIONS OVER A ONE WEEK PERIOD TWICE A YEAR; MEAN STD ERROR OF MEAN FOR HIGH AND LOW TIDE SAMPLINGS PRESENTED
PH	WATER	COLORIMETRY	PH UNITS	400	OBS	DAILY FOR ONE WEEK	SURFACE	SAMPLES OBTAINED AT 5 HIGH AND 5 LOW TIDES AT 4 STATIONS OVER A ONE WEEK PERIOD TWICE A YEAR; MEAN STD ERROR OF MEAN FOR HIGH AND LOW TIDE SAMPLINGS PRESENTED
ELECTRICAL CONDUCTIVITY	WATER	IN SITU CONDUCTIVITY CELL	MICROMHOS	400	OBS	DAILY FOR ONE WEEK	SURFACE	SAMPLES OBTAINED AT 5 HIGH AND 5 LOW TIDES AT 4 STATIONS OVER

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
							A ONE WEEK PERIOD TWICE A YEAR; MEAN STD ERROR OF MEAN FOR HIGH AND LOW TIDE SAMPLINGS PRESENTED
SODIUM	WATER	ATOMIC ABSORPTION SPECTROMETRY	PPM	400 OBS	DAILY FOR ONE WEEK	SURFACE	SAMPLES OBTAINED AT 5 HIGH AND 5 LOW TIDES AT 4 STATIONS OVER A ONE WEEK PERIOD TWICE A YEAR; MEAN STD ERROR OF MEAN FOR HIGH AND LOW TIDE SAMPLINGS PRESENTED
POTASSIUM	WATER	ATOMIC ABSORPTION SPECTROMETRY	PPM	400 OBS	DAILY FOR ONE WEEK	SURFACE	SAMPLES OBTAINED AT 5 HIGH AND 5 LOW TIDES AT 4 STATIONS OVER A ONE WEEK PERIOD TWICE A YEAR; MEAN STD ERROR OF MEAN FOR HIGH AND LOW TIDE SAMPLINGS PRESENTED
IRON	WATER	ATOMIC ABSORPTION SPECTROMETRY	PPM	400 OBS	DAILY FOR ONE WEEK	SURFACE	SAMPLES OBTAINED AT 5 HIGH AND 5 LOW TIDES AT 4 STATIONS OVER A ONE WEEK PERIOD TWICE A YEAR; MEAN STD ERROR OF MEAN FOR HIGH AND LOW TIDE SAMPLINGS PRESENTED
MANGANESE	WATER	ATOMIC ABSORPTION SPECTROMETRY	PPM	400 OBS	DAILY FOR ONE WEEK	SURFACE	SAMPLES OBTAINED AT 5 HIGH AND 5 LOW TIDES AT 4 STATIONS OVER

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
							A ONE WEEK PERIOD TWICE A YEAR; MEAN STD ERROR OF MEAN FOR HIGH AND LOW TIDE SAMPLINGS PRESENTED
TEMPERATURE	WATER	NON-REVERSING THERMOMETER	PPM	400 OBS	DAILY FOR ONE WEEK	SURFACE	SAMPLES OBTAINED AT 5 HIGH AND 5 LOW TIDES AT 4 STATIONS OVER A ONE WEEK PERIOD TWICE A YEAR; MEAN STD ERROR OF MEAN FOR HIGH AND LOW TIDE SAMPLINGS PRESENTED
COUNT OF MICROBIOTA	WATER	VISUAL	COLONIES PER VOLUME SAMPLE	400 OBS	DAILY FOR ONE WEEK	SURFACE	TOTAL BACTERIA, COLIFORM BACTERIA
PHOSPHATE	WATER	COLORIMETRY	PPM	400 OBS	DAILY FOR ONE WEEK	SURFACE	SAMPLES OBTAINED AT 5 HIGH AND 5 LOW TIDES AT 4 STATIONS OVER A ONE WEEK PERIOD TWICE A YEAR; MEAN STD ERROR OF MEAN FOR HIGH AND LOW TIDE SAMPLINGS PRESENTED
NITRATE	WATER	COLORIMETRY	PPM	400 OBS	DAILY FOR ONE WEEK	SURFACE	SAMPLES OBTAINED AT 5 HIGH AND 5 LOW TIDES AT 4 STATIONS OVER A ONE WEEK PERIOD TWICE A YEAR; MEAN STD ERROR OF MEAN FOR HIGH AND LOW TIDE SAMPLINGS PRESENTED
NITRITE	WATER	COLORIMETRY	PPM	400 OBS	DAILY FOR ONE WEEK	SURFACE	SAMPLES OBTAINED AT 5

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
								HIGH AND 5 LOW TIDES AT 4 STATIONS OVER A ONE WEEK PERIOD TWICE A YEAR; MEAN STD ERROR OF MEAN FOR HIGH AND LOW TIDE SAMPLINGS PRESENTED
AMMONIA	WATER	COLORIMETRY	PPM	400	OBS	DAILY FOR ONE WEEK	SURFACE	SAMPLES OBTAINED AT 5 HIGH AND 5 LOW TIDES AT 4 STATIONS OVER A ONE WEEK PERIOD TWICE A YEAR; MEAN STD ERROR OF MEAN FOR HIGH AND LOW TIDE SAMPLINGS PRESENTED .KJE LDAHL NITROGEN S-WATER M-COLORIMETRY U-PPM T-OBS Q-400 F-DAILY FOR ONE WEEK H-SURFACE R-SAMPLES OBTAINED AT 5 HIGH AND 5 LOW TIDES AT 4 STATIONS OVER A ONE WEEK PERIOD TWICE A YEAR; MEAN STD ERROR OF MEAN FOR HIGH AND LOW TIDE SAMPLINGS PRESENTED
TOTAL SOLIDS	WATER	DRY WEIGHT	PPM	400	OBS	DAILY FOR ONE WEEK	SURFACE	SAMPLES OBTAINED AT 5 HIGH AND 5 LOW TIDES AT 4 STATIONS OVER A ONE WEEK PERIOD TWICE A YEAR; MEAN STD

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
							ERROR OF MEAN FOR HIGH AND LOW TIDE SAMPLINGS PRESENTED

DATA COLLECTED: JANUARY 1966 TO PRESENT

RECEIVED: DECEMBER 05, 1974

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH AMERICA, COASTAL, U.S., NORTH CAROLINA, PAVLICO RIVER, ALBERMARLE SOUND, NEUSE RIVER

ABSTRACT:
EUTROPHICATION STUDIES FOR THE PAMLICO RIVER WERE BEGUN IN 1966, FOR THE ALBEMARLE SOUND AND NEUSE RIVER STUDIES WERE BEGUN IN 1970. PARAMETERS MONITORED INCLUDE, TEMPERATURE, SALINITY, DISSOLVED OXYGEN, PHOSPHORUS, NITROGEN, AND CHLOROPHYLL. 30 STATIONS IN THE PAMLICO WERE SAMPLED BIWEEKLY, 15 STATIONS IN THE NEUSE RIVER, AND 15 STATIONS IN THE ALBEMARLE SOUND WERE SAMPLED MONTHLY.

DATA AVAILABILITY:
COST OF REPRODUCTION

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
MAGNETIC TAPE DIGITAL; PUNCHED CARDS
7000 PUNCHED CARDS

FUNDING:

INVENTORY:

PUBLICATIONS:
THERE ARE 8 PUBLICATIONS ASSOCIATED WITH THIS FILE. CONTACT PRINCIPLNE INVESTIGATOR FOR SPECIFIC PUBLICATIONS.

CONTACT:
JOHN E. HOBBIE 919 737 2589
NORTH CAROLINA STATE UNIVERSITY
DEPARTMENT OF ZOOLOGY
RALEIGH NORTH CAROLINA USA 27607

GRID LOCATOR (LAT):
730755 730756 730765 730766

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	DM	60	STATIONS			LATITUDE AND LONGITUDE
TIME	EARTH	STATION TIME	YMDH	60	OBS	2 OBS/WEEK		
TEMPERATURE	WATER	THERMISTOR	DEG C	60	OBS	2 OBS/WEEK	SURFACE AND BOTTOM	
SALINITY	WATER	CONDUCTIVITY	PPT	60	OBS	2 OBS/WEEK	SURFACE AND BOTTOM	
DISSOLVED OXYGEN GAS	WATER	TITRATION	MG/L	60	OBS	2 OBS/WEEK	SURFACE AND BOTTOM	
ORGANIC	WATER	SPECTROPHOTOMETRY	UG-AT/L	60	OBS	2 OBS/WEEK	SURFACE	

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
PHOSPHORUS ORGANIC	DISSOLVED	SPECTROPHOTOMETRY	UG-AT/L	60 OBS	2 OBS/WEEK	SURFACE	
PHOSPHORUS ORGANIC	SUSPENDED	AUTOANALYZER	UG-AT/L	60 OBS	2 OBS/WEEK	SURFACE	
PHOSPHORUS ORGANIC	WATER	SPECTROPHOTOMETRY	UG-AT/L	60 OBS	2 OBS/WEEK	SURFACE	
NITROGEN NITRATE	WATER	COLORIMETRY	UG-AT/L	60 OBS	2 OBS/WEEK	SURFACE	
AMMONIA	WATER	SPECTROPHOTOMETRY	UG-AT/L	60 OBS	2 OBS/WEEK	SURFACE	
TOTAL CHLOROPHYLL	WATER	SPECTROPHOTOMETRY	UG CHLOROPHYLL/L	60 OBS	2 OBS/WEEK	SURFACE	

DATA COLLECTED: JULY 1973 TO PRESENT
RECEIVED: NOVEMBER 04, 1974

PROJECTS:
DELAWARE RIVER ANADROMOUS FISHERIES STUDY

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., DELAWARE RIVER BASIN

ABSTRACT:
FISH WERE SAMPLED MONTHLY FROM 21 STATIONS IN THE DELAWARE RIVER TRIBUTARIES EMPLOYING OTTER TRAWL, FRAME TRAWL, AND HALL SEINE. CHLORINE, PH, TURBIDITY, ORTHOPHOSPHATE, NITRATE, CARBON DIOXIDE, HARDNESS, ALKALINITY, DISSOLVED OXYGEN, AND TEMPERATURE WERE MONITORED.

DATA AVAILABILITY:
COST OF REPRODUCTION

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
PUNCHED CARDS
500 DATA SHEETS

FUNDING:
ANADROMOUS FISH ACT PL. 89-304.

INVENTORY:

PUBLICATIONS:

CONTACT:
JOSEPH P. MILLER 609 397 0115
DELAWARE RIVER BASIN,ANADROMOUS FISHERIES STUDY
P.O. BOX 95
ROSEMONT NEW JERSEY USA 08556

GRID LOCATOR (LAT):
730795

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	LATITUDE AND LONGITUDE	21	STATIONS			
TIME	EARTH	SAMPLING TIME	YMDHM	21	OBS	MONTHLY		
SPECIES DETERMINATION OF PELAGIC FISH	WATER	KEY		21	OBS	MONTHLY		
COUNT OF PELAGIC FISH	WATER	VISUAL		21	OBS	MONTHLY		
LENGTH OF PELAGIC FISH	WATER	TOTAL LENGTH	MILLIMETER	21	OBS	MONTHLY		FISH SAMPLES WERE COLLECTED

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
								USING 16 FOOT OTTER TRAWL, 4 BY 12 FOOT FRAME TRAWL, AND 125 FOOT HAUL SEINE
TOTAL OXIDANTS	WATER	COLORIMETRY	PARTS PER MILLION	21	OBS	MONTHLY		
TEMPERATURE	WATER	NON-REVERSING THERMOMETER	DEG F	21	OBS	MONTHLY		
TOTAL ALKALINITY	WATER	TITRATION	PARTS PER MILLION	21	OBS	MONTHLY		
TOTAL CARBON DIOXIDE	WATER	TITRATION	PARTS PER MILLION	21	OBS	MONTHLY		
HARDNESS	WATER	TITRATION	PARTS PER MILLION	21	OBS	MONTHLY		
NITRATE	WATER	COLORIMETRY	PARTS PER MILLION	21	OBS	MONTHLY		
ORTHOPHOSPHATE	WATER	COLORIMETRY	PARTS PER MILLION	21	OBS	MONTHLY		
LIGHT ATTENUATION	WATER	COLORIMETRY		21	OBS	MONTHLY		
PH	WATER	COLORIMETRY		21	OBS	MONTHLY		
CHLORINITY	WATER	TITRATION	PARTS PER MILLION	21	OBS	MONTHLY	RY	

DATA COLLECTED: SEPTEMBER 1970 TO AUGUST 1971
RECEIVED: MAY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH AMERICA, U.S., COASTAL, DELAWARE, DELAWARE BAY

ABSTRACT:
SURFACE HOLOCENE SEDIMENT SAMPLES FROM MIDDLE DELAWARE BAY AND CORED HOLOCENE SAMPLES FROM LOWER DELAWARE BAY HAVE BEEN STUDIED IN A PRELIMINARY WAY FOR GENERAL SEDIMENT CHARACTERISTICS, PH, EH, ORGANIC CARBON, CARBOHYDRATES, AMINO ACIDS, HYDROCARBONS, CHLOROPHYLL-DERIVED PIGMENTS, CAROTENOID PIGMENTS, AND HUMIC ACIDS. SAMPLES FROM A CORE NEAR WILMINGTON CANYON ON THE CONTINENTAL SLOPE OFF DELAWARE BAY WERE ANALYZED FOR ORGANIC CARBON AND CARBOHYDRATES.

DATA AVAILABILITY:

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS
44 PAGE REPORT

FUNDING:
NOAA, OFFICE OF SEA GRANT NO. 2-35223

INVENTORY:

PUBLICATIONS:

CONTACT:
DR. FREDERICK M. SWAIN 302 738 2569
COLLEGE OF MARINE STUDIES, UNIVERSITY OF DELAWARE
NEWARK DELAWARE USA 19711

GRID LOCATOR (LAT):
730784 730785 730794 730795

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	UNKNOWN	DMT	60 STATIONS			
TIME	EARTH	STATION TIME		60 STATIONS			
PH	INTERSTITIAL	SPECIFIC ION ELECTRODE		60 STATIONS			
EH	INTERSTITIAL	SPECIFIC ION ELECTRODE		60 STATIONS			
ORGANIC CARBON	SEDIMENT	SPECTROPHOTOMETRY		60 STATIONS			
CALCIUM CARBONATE	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY		60 STATIONS			
CARBOHYDRATES	SEDIMENT	COLORIMETRY		60 STATIONS			
AMINO ACIDS	SEDIMENT	SPECTROPHOTOMETRY		60 STATIONS			
PHAEOPHYTIN A	SEDIMENT	SPECTROPHOTOMETRY		60 STATIONS			
HUMIC ACIDS	SEDIMENT	COLUMN CHROMATOGR		60 STATIONS			

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
		APHY					
DEPTH	WATER	WIRE LENGTH		60	STATIONS		
WATER CONTENT	SEDIMENT	GRAVIMETRY		60	STATIONS		
SIZE ANALYSIS	SEDIMENT	VISUAL		60	STATIONS		

DATA COLLECTED: MARCH 1974 TO PRESENT
RECEIVED: MARCH 13, 1975

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH AMERICA, U.S., NORTH CAROLINA, COASTAL, CHOWAN RIVER

ABSTRACT:
A SURVEY TO MONITOR WATER QUALITY AND HOW IT AFFECTS POPULATIONS OF PHYTOPLANKTON IN THE CHOWAN RIVER ESTUARY OF NORTH CAROLINA

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
DATA SHEETS
1000 DATA SHEETS

FUNDING:
WATER RESOURCES RESEARCH INSTITUTE OF THE UNIVERSITY OF NORTH CAROLINA

INVENTORY:

PUBLICATIONS:

CONTACT:
DR. A.M. WITHERSPOON 919 737 2589
NORTH CAROLINA STATE UNIVERSITY
DEPARTMENT OF BOTANY
RALEIGH NORTH CAROLINA USA 27607

GRID LOCATOR (LAT):
730766

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	DM	23	STATIONS			
TIME	EARTH	STATION TIME	YMDHL	23	OBS	BIMONTHLY		
TEMPERATURE	WATER	NON-REVERSING THERMOMETER	DEG C	23	OBS	BIMONTHLY	SURFACE AND BOTTOM	
TEMPERATURE	AIR	MERCURY THERMOMETER	DEG C	23	OBS	BIMONTHLY		
DISSOLVED OXYGEN GAS	WATER	TITRATION	MILLIGRAMS PER LITER	23	OBS	BIMONTHLY	SURFACE AND BOTTOM	WINKLER
NITRATE	WATER	AUTOANALYZER		23	OBS	BIMONTHLY		
NITRITE	WATER	AUTOANALYZER		23	OBS	BIMONTHLY		
AMMONIA	WATER	AUTOANALYZER		23	OBS	BIMONTHLY		
PHOSPHORUS	WATER	AUTOANALYZER		23	OBS	BIMONTHLY		
SECCHI DISC DEPTH	WATER	DISAPPEARING DEPTH	NEAREST DECIMETER	23	OBS	BIMONTHLY		

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
GAMMA ACTIVITY	WATER	PROPORTIONAL COUNTER		23	OBS	BIMONTHLY	SURFACE	
COUNT OF PHYTOPLANKTON	WATER	COUNTING CHAMBER	NUMBER PER SAMPLE	23	OBS	BIMONTHLY	SURFACE AND MIDWATER	
BIOMASS OF PHYTOPLANKTON	WATER	DRY WEIGHT	GRAMS	23	OBS	BIMONTHLY	SURFACE AND MIDWATER	
SPECIES DETERMINATION OF PHYTOPLANKTON	WATER	KEY		23	OBS	BIMONTHLY		

DATA COLLECTED: JULY 1974 TO PRESENT
RECEIVED: MARCH 13, 1975

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH AMERICA, U.S., NORTH CAROLINA, COASTAL CHOWAN RIVER

ABSTRACT:
A SURVEY TO MONITOR CHEMICAL AND WASTE POLLUTION AND ITS RUNOFF INTO THE CHOWAN RIVER ESTUARY OF NORTH CAROLINA

DATA AVAILABILITY:

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
DATA SHEETS
250 DATA SHEETS

FUNDING:
US EPA

INVENTORY:

PUBLICATIONS:

CONTACT:
DR. A.M. WITHERSPOON 919 737 2589
NORTH CAROLINA STATE UNIVERSITY
DEPARTMENT OF BOTANY
RALEIGH NORTH CAROLINA USA 27607

GRID LOCATOR (LAT):
730766

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	DM	10	STATIONS			
TIME	EARTH	SAMPLING TIME	YMDHML	10	OBS	WEEKLY		
TEMPERATURE	WATER	NON-REVERSING THERMOMETER	DEG C	10	OBS	WEEKLY	SURFACE AND BOTTOM	
TEMPERATURE	AIR	MERCURY THERMOMETER	DEG C	10	OBS	WEEKLY		
DISSOLVED OXYGEN GAS	WATER	TITRATION	MILLIGRAMS PER LITER	10	OBS	WEEKLY	SURFACE AND BOTTOM	WINKLER
NITRATE	WATER	AUTOANALYZER		10	OBS	WEEKLY		
NITRITE	WATER	AUTOANALYZER		10	OBS	WEEKLY		
AMMONIA	WATER	AUTOANALYZER		10	OBS	WEEKLY		
PHOSPHORUS	WATER	AUTOANALYZER		10	OBS	WEEKLY		
SECCHI DISC DEPTH	WATER	DISAPPEARING DEPTH	NEAREST DECIMETER	10	OBS	WEEKLY		
GAMMA ACTIVITY	WATER	PROPORTIONAL		10	OBS	WEEKLY	SURFACE	

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
COUNT OF PHYTOPLANKTON	WATER	COUNTER COUNTING CHAMBER	NUMBER PER SAMPLE	10	OBS	WEEKLY	SURFACE AND MIDWATER	
BIOMASS OF PHYTOPLANKTON	WATER	DRY WEIGHT	GRAMS	10	OBS	WEEKLY	SURFACE AND MIDWATER	
SPECIES DETERMINATION OF PHYTOPLANKTON	WATER	KEY		10	OBS	WEEKLY	SURFACE AND MIDWATER	
PRECIPITATION AMOUNT	AIR	RAIN GAGE		10	OBS	WEEKLY		
CURRENT SPEED	WATER	IMPELLOR METER		10	OBS	WEEKLY		
FLUORINE	WATER	SPECIFIC ION ELECTRODE		10	OBS	WEEKLY		
WEATHER	AIR	VISUAL		10	OBS	WEEKLY		

DATA COLLECTED: JANUARY 1969 TO PRESENT
RECEIVED: APRIL 18, 1975

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., MARYLAND, CHESAPEAKE BAY

ABSTRACT:
INVESTIGATION INTO PHYTOPLANKTON ECOLOGY IN THE RHODE, SOUTH, WEST RIVERS, AND THE CHESAPEAKE BAY. DATA INCLUDES SPECIES DETERMINATION AND COUNTS FOR PHYTO AND ZOOPLANKTON, PRODUCTIVITY, HETEROTROPHY, NUTRIENTS, AND PHYSO-CHEMICAL PROPERTIES. (WRITE DR. SELIGER FOR BIBLIOGRAPHIC LISTING)

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP; FIXED STATION

ARCHIVE MEDIA:
DATA SHEETS
600 SHEETS

FUNDING:
JOHNS HOPKINS UNIVERSITY

INVENTORY:

PUBLICATIONS:

CONTACT:
DR. H.H. SELIGER 301 366 3300
JOHNS HOPKINS UNIVERSITY
DEPARTMENT OF BIOLOGY
BALTIMORE MARYLAND USA 21218

GRID LOCATOR (LAT):
730786

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	LATITUDE AND LONGITUDE	10	STATIONS			
TIME	EARTH	STATION TIME	YMDH	10	OBS			
TEMPERATURE	WATER	THERMISTOR	DEG C	10	OBS			
SALINITY	WATER	CONDUCTIVITY	PPT	10	OBS			
SECCHI DISC DEPTH	WATER	DISAPPEARING DEPTH	METERS	10	OBS			
LIGHT ATTENUATION	WATER	IN SITU TRANSMISSOMETER	PHOTONS/SQ CM/ SEC/NM	10	OBS			
AMMONIA	WATER	TITRATION	MICRO-MOLES	10	OBS			
NITRATE	WATER	TITRATION	MICRO-MOLES	10	OBS			
NITRITE	WATER	TITRATION	MICRO-MOLES	10	OBS			
PHOSPHORUS	WATER	COLORIMETRY	MICRO-MOLES	10	OBS			

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
DISSOLVED OXYGEN GAS	WATER	TITRATION	PPM AND MG/L	10	OBS			
ORGANIC CARBON	WATER	WET COMBUSTION/ TITRATION	MG/L	10	OBS			
CARBON-14	WATER	MASS SPECTROMETRY		10	OBS			
HETEROTROPHIC RATE	WATER	LIQUID SCINTILLAT ION UNILUXI		10	OBS			
SPECIES DETERMINATION OF ZOOPLANKTON	WATER	KEY		10	OBS			
COUNT OF ZOOPLANKTON	WATER	MICROSCOPE	NUMBER/SPECIES/ SAMPLE	10	OBS			PREDATION RATE INCLUDED AND REPORTED AS ML/ HR/ORGANISM
SPECIES DETERMINATION OF PHYTOPLANKTO N	WATER	KEY		10	OBS			
COUNT OF PHYTOPLANKTON	WATER	MICROSCOPE	NUMBER/SPECIES/ SAMPLE	10	OBS			
TOTAL CHLOROPHYL L	WATER	FLUOROMETRY	MICROGRAMS/ LITER	10	OBS			
BIOLUMINESCENCE OCCURRENCE	WATER	FLUOROMETRY	MICROGRAMS/ LITER	10	OBS			
PHOTOSYNTHETIC RATE	WATER	CARBON-14 UPTAKE	MICROGRAMS CHLOROPHYLL/ LITER/HOUR	10	OBS			

DATA COLLECTED: JANUARY 1964 TO PRESENT
RECEIVED: MAY 01, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., MARYLAND, CHESAPEAKE BAY

ABSTRACT:
ANALYSIS OF CHESAPEAKE BAY SEDIMENTS FOR BACTERIA AND VIRAL COMPONENTS WITH ANCILLARY DATA ON WATER TEMPERATURE, D.O., SALINITY, AND NUTRIENTS.

DATA AVAILABILITY:
COST OF REPRODUCTION IF SPECIFIC REPRINTS ARE NOT AVAILABLE, OR FOR TRANSFER OF RAW DATA

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
MAGNETIC TAPE DIGITAL; PUNCHED CARDS
50,000 PUNCHED CARDS; 1 MAGNETIC TAPE

FUNDING:
UNIVERSITY OF MARYLAND

INVENTORY:

PUBLICATIONS:
APPROXIMATELY 100 PAPERS HAVE BEEN PUBLISHED AND REPRINTS OF MOST ARE AVAILABLE, WRITE DR. COLWELL

CONTACT:
DR. R.R. COLWELL 301 454 5376
UNIVERSITY OF MARYLAND
DEPARTMENT OF MICROBIOLOGY
COLLEGE PARK MARYLAND USA 20742

GRID LOCATOR (LAT):
730786 730796

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	LATITUDE AND LONGITUDE	20	STATIONS			
TIME	EARTH	STATION TIME	YMDH	20	OBS	MONTHLY		
SPECIES DETERMINATION OF MICROBIOTA	SEDIMENT	KEY		20	OBS	MONTHLY	BOTTOM	
COUNT OF MICROBIOTA	SEDIMENT	VISUAL	NUMBER PER ML	20	OBS	MONTHLY	BOTTOM	
SPECIES DETERMINATION OF MICROBIOTA	WATER	KEY		20	OBS	MONTHLY	BOTTOM	
COUNT OF	WATER	VISUAL	NUMBER PER ML	20	OBS	MONTHLY	BOTTOM	

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
MICROBIOTA								
TEMPERATURE	WATER	REVERSING THERMOMETER	DEG C	20	OBS	MONTHLY	BOTTOM	
SALINITY	WATER	CONDUCTIVITY	PPT	20	OBS	MONTHLY	BOTTOM	
NITROGEN	WATER	AUTOANALYZER	GRAMS PER LITER	20	OBS	MONTHLY	BOTTOM	
PHOSPHORUS	WATER	AUTOANALYZER	GRAMS PER LITER	20	OBS	MONTHLY	BOTTOM	
DISSOLVED OXYGEN GAS	WATER	TITRATION	GRAMS PER LITER	20	OBS	MONTHLY	BOTTOM	
CARBON	WATER	WET COMBUSTION/ GAS DISPLACEMENT	GRAMS PER LITER	20	OBS	MONTHLY	BOTTOM	
TEMPERATURE	AIR	MERCURY THERMOMETER	DEG C	20	OBS	MONTHLY		

DATA COLLECTED: JUNE 1974 TO JULY 1974
RECEIVED: MAY 01, 1975

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH AMERICA, U.S., NORTH CAROLINA, KITTY HAWK BAY

ABSTRACT:
A STUDY OF METABOLISM IN A EURASIAN WATER MILFOIL COMMUNITY. WATER MONITORING INCLUDES DISSOLVED OXYGEN, NITRATE, AMMONIA, NITRITE, AND PHOSPHORUS AT KITTY HAWK BAY, NORTH CAROLINA.

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
THIRTY PAGES

FUNDING:
EAST CAROLINA UNIVERSITY

INVENTORY:

PUBLICATIONS:
HALL, A. 1975. COMMUNITY METABOLISM IN A EURASIAN WATER MILFOIL COMMUNITY. M.S. THESIS

CONTACT:
LIBRARIAN 19 758 6718
EAST CAROLINA UNIVERSITY
DEPARTMENT OF BIOLOGY
GREENVILLE NORTH CAROLINA USA 27834

GRID LOCATOR (LAT):
730766

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	LATITUDE AND LONGITUDE	2	STATIONS			
TIME	EARTH	SAMPLING TIME	YMDHML	2	STATIONS	WEEKLY		EIGHT TWENTY-FOUR HOUR STATIONS IN TWO MONTHS WITH SAMPLES EVERY THREE HOURS DURING TWENTY-FOUR HOUR PERIOD
SPECIES DETERMINATION	BOTTOM	KEY		2	STATIONS	WEEKLY		EURASIAN WATER MILFOIL

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
OF BENTHIC PLANTS								
COUNT OF BENTHIC PLANTS	BOTTOM	VISUAL	NUMBER PER SPECIES	2	STATIONS	WEEKLY		EURASIAN WATER MILFOIL
DISSOLVED OXYGEN GAS	WATER	TITRATION	MILLIGRAMS PER LITER	2	STATIONS	WEEKLY	BOTTOM	WINKLER
NITRATE	WATER	TITRATION		2	STATIONS	WEEKLY		
AMMONIA	WATER	TITRATION		2	STATIONS	WEEKLY		
NITRITE	WATER	TITRATION		2	STATIONS	WEEKLY		
PHOSPHORUS	WATER	COLORIMETRY		2	STATIONS	WEEKLY		

DATA COLLECTED: AUGUST 1973 TO 1976
RECEIVED: JULY 31, 1975

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., BAR HARBOR MAINE, LEWIS DELAWARE, SAPELO ISLAND GEORGIA

ABSTRACT:
AN INVESTIGATION OF THE RELATIONSHIP BETWEEN SALT MARSH PLANTS AND SEDIMENT CHEMISTRY IS BEING CONDUCTED. STATIONS ARE IN MAINE, NEW JERSEY, AND GEORGIA. 10 DOMINANT PLANT SPECIES ARE CORRELATED WITH SOIL COLOR, DENSITY, TEXTURE, PH, SALINITY, TEMPERATURE, ORGANIC CARBON, MANGANESE, IRON, POTASSIUM, PHOSPHORUS, CHLORIDE, AMMONIA, NITRITE, NITRATE, AND TOTAL NITROGEN.

DATA AVAILABILITY:

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
DATA SHEETS
2000 PAGES

FUNDING:
NATIONAL SCIENCE FOUNDATION; UNIVERSITY OF GEORGIA

INVENTORY:

PUBLICATIONS:

CONTACT:
JOHN L. GALLAGHER 912 352 1631
UNIVERSITY OF GEORGIA
MARINE INSTITUTE
SAPELO ISLAND GEORGIA USA 31327

GRID LOCATOR (LAT):
740648 730785 730811

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	LATITUDE AND LONGITUDE	16	STATIONS	BIMONTHLY		
TIME	EARTH	STATION TIME	YMD	16	STATIONS	BIMONTHLY		FIVE STATIONS AT BAR HARBOR, FIVE STATIONS AT LEWIS, SIX STATIONS AT SAPELO ISLAND
SPECIES DETERMINATION OF BENTHIC PLANTS	LAND	KEY		16	STATIONS	BIMONTHLY		
COLOR	SEDIMENT	VISUAL	MUSEUM COLOR	16	STATIONS	BIMONTHLY		

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
			CHIPS					
PH	WATER	PH METER	PH UNITS	16	STATIONS	BIMONTHLY		
SALINITY	WATER	INDEX OF REFRACTION	PPT	16	STATIONS	BIMONTHLY		
TEMPERATURE	WATER	THERMISTOR	DEG C	16	STATIONS	BIMONTHLY		
DENSITY	SEDIMENT	BULK SPECIFIC GRAVITY	GRAMS	16	STATIONS	BIMONTHLY		
GRAIN TEXTURE	SEDIMENT	VISUAL	STANDARD UNITS	16	STATIONS	BIMONTHLY		
NITROGEN	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	MICROGRAM ATOMS/ GRAM	16	STATIONS	BIMONTHLY		
NITRATE	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	MICROGRAM ATOMS/ GRAM	16	STATIONS	BIMONTHLY		
NITRITE	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	MICROGRAM ATOMS/ GRAM	16	STATIONS	BIMONTHLY		
AMMONIA	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	MICROGRAM ATOMS/ GRAM	16	STATIONS	BIMONTHLY		
CHLORIDE	INTERSTITIAL	TITRATION		16	STATIONS	BIMONTHLY		
ORGANIC CARBON	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	MICROGRAM ATOMS/ GRAM	16	STATIONS	BIMONTHLY		
IRON	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	MICROGRAM ATOMS/ GRAM	16	STATIONS	BIMONTHLY		
MANGANESE	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	MICROGRAM ATOMS/ GRAM	16	STATIONS	BIMONTHLY		
POTASSIUM	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	MICROGRAM ATOMS/ GRAM	16	STATIONS	BIMONTHLY		
PHOSPHORUS	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	MICROGRAM ATOMS/ GRAM	16	STATIONS	BIMONTHLY		

DATA COLLECTED: AUGUST 1972 TO 1976
RECEIVED: JULY 31, 1975

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., MAINE TO SOUTH CAROLINA

ABSTRACT:
AN INVESTIGATION OF SALT MARSH PLANT PHYSIOLOGY WITH STATIONS IN MAINE, NEW JERSEY, VIRGINIA, NORTH AND SOUTH CAROLINA IS BEING CONDUCTED. ANALYSIS OF THE 15 DOMINANT PLANT SPECIES INCLUDES POTASSIUM, PHOSPHORUS, CALCIUM, MANGANESE, IRON, ALUMINUM, BORON, PROTEIN, AND CARBOHYDRATES IN BIO MATERIAL ANCILLARY DATA INCLUDES SEDIMENT TEMPERATURE, SALINITY AND TOTAL DISSOLVED ORGANIC CARBON.

DATA AVAILABILITY:

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
DATA SHEETS
4 FIFTY PAGES NOTEBOOKS

FUNDING:
NATIONAL SCIENCE FOUNDATION; UNIVERSITY OF GEORGIA

INVENTORY:

PUBLICATIONS:

CONTACT:
JOHN L. GALLAGHER 912 352 1631
UNIVERSITY OF GEORGIA
MARINE INSTITUTE
SAPELO ISLAND GEORGIA USA 31327

GRID LOCATOR (LAT):
740648 730786 730765 730747 730729

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	LATITUDE AND LONGITUDE	7 STATIONS	ANNUAL		
TIME	EARTH	STATION TIME	YMD	7 STATIONS	ANNUAL		3 STATIONS IN BAR HARBOR MAINE, ONE STATION IN LEWIS, DELAWARE; VIRGINIA BEACH, VIRGINIA; NEW TOPSAIL BEACH,

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
							NORTH CAROLINA; AND ISLE OF PALMS, SOUTH CAROLINA
SPECIES DETERMINATION OF BENTHIC PLANTS	LAND	KEY		7 STATIONS	ANNUAL		15 DOMINANT SPECIES
POTASSIUM IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	MICROGRAM ATOMS/ GRAM	7 STATIONS	ANNUAL		
PHOSPHORUS IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	MICROGRAM ATOMS/ GRAM	7 STATIONS	ANNUAL		
CALCIUM IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	MICROGRAM ATOMS/ GRAM	7 STATIONS	ANNUAL		
MANGANESE IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	MICROGRAM ATOMS/ GRAM	7 STATIONS	ANNUAL		
IRON IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	MICROGRAM ATOMS/ GRAM	7 STATIONS	ANNUAL		
ALUMINUM IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	MICROGRAM ATOMS/ GRAM	7 STATIONS	ANNUAL		
BORON IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	MICROGRAM ATOMS/ GRAM	7 STATIONS	ANNUAL		
PROTEIN IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	MICROGRAM ATOMS/ GRAM	7 STATIONS	ANNUAL		
CARBOHYDRATES IN BIO MATERIAL	WATER	ATOMIC ABSORPTION SPECTROMETRY	MICROGRAM ATOMS/ GRAM	7 STATIONS	ANNUAL		STARCH AND SUGAR
APPARENT OXYGEN UTILIZATION	WATER	TITRATION	MICROGRAM ATOMS/ GRAM	7 STATIONS	ANNUAL		MEASUREMENT OF PLANT RESPIRATION AS OXYGEN CONSUMPTION AND CARBON DIOXIDE RELEASE
ORGANIC CARBON	INTERSTITIAL	GAS CHROMATOGRAPHY	MICROGRAM ATOMS/ GRAM	7 STATIONS	ANNUAL		
TEMPERATURE	SEDIMENT	THERMISTOR	DEG C	7 STATIONS	ANNUAL		
SALINITY	INTERSTITIAL	INDEX OF REFRACTION	PPT	7 STATIONS	ANNUAL		

DATA COLLECTED: JANUARY 1929 TO DECEMBER 1935 RECEIVED: MAY 07, 1975

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., DELAWARE BAY

ABSTRACT:
PLANKTON STUDIES WERE CONDUCTED IN THE DELAWARE BAY AREA FROM 1929 TO 1935 WITH A CONCENTRATION OF THE STUDY FROM EARLY 1930 TO MID 1933. PLANKTON POPULATIONS WERE SAMPLED APPROXIMATELY ONCE A MONTH AT ABOUT 40 STATIONS. ANALYSES INCLUDED IDENTIFICATIONS, COUNTS, LENGTHS AND VOLUMES CORRELATED WITH SEASON, TEMPERATURE, SALINITY AND CHLORAPHYLL DATA.

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
90 PAGE REPORT

FUNDING:

INVENTORY:

PUBLICATIONS:
PLANKTON STUDIES. G.B. DEEVEY. OCT. 1960. VOL. 17, ART. 2, BULL. OF THE BINGHAM OCEANOGRAPHIC COLLECTION.

CONTACT:
DR. GEORGIANA B. DEEVEY 904 392 1721
FLORIDA STATE MUSEUM, UNIVERSITY OF FLORIDA
MUSEUM ROAD
GAINESVILLE FLORIDA USA 32611

GRID LOCATOR (LAT):
730784 730785 730794 730795

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	VARIOUS	MAP LOCATION	40 STATIONS			GENERAL AREA, FIXED POINT
TIME	EARTH	STATION TIME	YM	40 STATIONS			
SPECIES DETERMINATION OF ZOOPLANKTON	WATER	KEY	SPECIES NAME	40 STATIONS	USUALLY 1 OBS/ MONTH STN		
COUNT OF ZOOPLANKTON	WATER	MICROSCOPE	NUMBER PLANKTON/ 10 MINUTE TOW	40 STATIONS	USUALLY 1 OBS/ MONTH STN		
TEMPERATURE	WATER	UNKNOWN	DEG C TO HUNDREDTHS	40 STATIONS	USUALLY 1 OBS/ MONTH STN		
SALINITY	WATER	UNKNOWN	PPT	40 STATIONS	USUALLY 1 OBS/ MONTH STN		
TOTAL CHLOROPHYL	WATER	UNKNOWN	MG/L	40 STATIONS	USUALLY 1 OBS/		

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
L LENGTH OF ZOOPLANKTON	WATER	DIRECT	MM	40 STATIONS	MONTH STN USUALLY 1 OBS/ MONTH STN		PRIMARILY CEPHALOTHORAX LENGTH OF SEVERAL SPECIES OF COPEPODS
VOLUME DETERMINATION OF ZOOPLANKTON	WATER	DISPLACEMENT	CC/10 MINUTE TOW	40 STATIONS	USUALLY 1 OBS/ MONTH STN		

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., VIRGINIA, MOBJACK BAY AND YORK RIVER

ABSTRACT:
A FIFTEEN MONTH STUDY OF PHYTOPLANKTON OF THE SURFACE WATER IN MOBJACK BAY, VIRGINIA WAS CONDUCTED. SAMPLES WERE COLLECTED FROM THE SURFACE MICROLAYER AT 0.5M AND 1.0M DEPTHS. PARAMETERS INCLUDED HYDROGRAPHIC DATA TAKEN FROM EACH OF THE FOUR STATIONS, COUNT AND IDENTIFICATION OF THECATE DINOFLAGELLATES, DIVERSITY, AND DIATOM COMPONENTS IN THE TOTAL PHYTOPLANKTON COMMUNITY. ONLY THECATE DINOFLAGELLATES COULD BE IDENTIFIED AND ENUMERATED BECAUSE FIXATION PROCEDURES EITHER RUPTURED, OR RENDERED THE NON-THECATE SPECIES UNRECOGINIZABLE. PHYTOPLANKTON WERE SAMPLED AT THREE DEPTHS AT EACH STATION.

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
ONE 116 PAGE REPORT

FUNDING:

INVENTORY:

PUBLICATIONS:
SURFACE PHYTOPLANKTON COMMUNITY STRUCTURE OF MOBJACK BAY AND YORK RIVER, VIRGINIA: PH.D. DISSERTATION, STOFAN, P.E.

CONTACT:
LIBRARIAN 804 642 2100
VIRGINIA INSTITUTE OF MARINE SCIENCE
SCHOOL OF MARINE SCIENCE
GLOUCESTER POINT VIRGINIA USA 23062

GRID LOCATOR (LAT):
730776

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	LATITUDE AND LONGITUDE	4 STATIONS			
TIME	EARTH	STATION TIME	YMD	4 STATIONS	MONTHLY		
COUNT OF PHYTOPLANKTON	WATER	MICROSCOPE		4 STATIONS	MONTHLY		
SPECIES DETERMINATION OF PHYTOPLANKTON	WATER	KEY		4 STATIONS	MONTHLY		
DIVERSITY INDEX OF PHYTOPLANKTO	WATER	SHANNON-WEAVER		4 STATIONS	MONTHLY		

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
N							
CHLOROPHYLL A	WATER	FLUOROMETRY		4 STATIONS	MONTHLY		
TOTAL CARBON DIOXIDE	WATER	TITRATION		4 STATIONS	MONTHLY		
TOTAL ALKALINITY	WATER	TITRATION		4 STATIONS	MONTHLY		
DISSOLVED OXYGEN GAS	WATER	TITRATION		4 STATIONS	MONTHLY		
SALINITY	WATER	TITRATION		4 STATIONS	MONTHLY		
VOLUME DETERMINATION OF PHYTOPLANKTON	WATER	SETTLING		4 STATIONS	MONTHLY		

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, U.S., DELAWARE BAY, BROADKILL RIVER

ABSTRACT:
THIS STUDY WAS INITIATED TO DETERMINE THE DYNAMIC ROLE OF THE BROADKILL RIVER ESTUARINE SYSTEM IN THE TRANSPORT AND CYCLING OF NUTRIENTS IN THE COASTAL ENVIRONMENT OF WHICH IT IS A PART, WITH THE GOAL OF DEFINING THE MECHANISMS PRODUCING NUTRENT CYCLES AND THE RAMIFICATIONS OF THESE VARIATIONS. DATA ON SALINITY, TEMPERATURE, DISSOLVED OXYGEN, PH, SECCHI DEPTH, INORGANIC PHOSPHOROUS, ORGANIC PHOSPHOROUS, PARTICULATE PHOSPHOROUS, TOTAL PHOSPHOROUS, NITRITE, NITRATE, AMMONIA, CHLOROPHYLL WAS OBTAINED.

DATA AVAILABILITY:
LIBRARY LOAN

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS
ONE 127 PAGE THESIS

FUNDING:
U.S. DEPT OF INTERIOR

INVENTORY:

PUBLICATIONS:
DATA INCLUDED IN UNPUBL. PHD. DISSERTATION (1971) BY WALLACE DEWITT III

CONTACT:
LIBRARIAN 302 645 6674
UNIVERSITY OF DELAWARE, MARINE STATION LIBRARY
LEWES DELAWARE USA 19558

GRID LOCATOR (LAT):
730795

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	DEG	11	STATIONS	MONTHLY		
TIME	EARTH	STATION TIME	YM	12	OBS	MONTHLY		
SALINITY	WATER	CONDUCTIVITY	PPT	12	OBS	MONTHLY	SURFACE AND BOTTOM	
TEMPERATURE	WATER	REVERSING THERMOMETER	DEG C	12	OBS	MONTHLY	SURFACE AND BOTTOM	
DISSOLVED OXYGEN GAS	WATER	TITRATION	MG/L	12	OBS	MONTHLY	SURFACE AND BOTTOM	
PH	WATER	SPECIFIC ION ELECTRODE	NUMBERS	12	OBS	MONTHLY	SURFACE AND BOTTOM	

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
SECCHI DISC DEPTH	WATER	AVERAGE DEPTH	FT	12	OBS	MONTHLY	SURFACE AND BOTTOM	
NITRATE	WATER	COLORIMETRY	MG-AT/L	12	OBS	MONTHLY	SURFACE AND BOTTOM	
NITRITE	WATER	COLORIMETRY	MG-AT/L	12	OBS	MONTHLY	SURFACE AND BOTTOM	
AMMONIA	WATER	COLORIMETRY	MG-AT/L	12	OBS	MONTHLY	SURFACE AND BOTTOM	
CHLOROPHYLL A	WATER	SPECTROPHOTOMETRY	MG-AT/L	12	OBS	MONTHLY	SURFACE AND BOTTOM	
ORTHOPHOSPHATE	WATER	COLORIMETRY	MG-AT/L	12	OBS	MONTHLY	SURFACE AND BOTTOM	
ORGANIC PHOSPHORUS IN BIO MATERIAL	WATER	SPECTROPHOTOMETRY	MG-AT/L	12	OBS	MONTHLY	SURFACE AND BOTTOM	
PHOSPHORUS	SUSPENDED	SPECTROPHOTOMETRY	MG-AT/L	12	OBS	MONTHLY	SURFACE AND BOTTOM	
PHOSPHORUS	WATER	SPECTROPHOTOMETRY	MG-AT/L	12	OBS	MONTHLY	SURFACE AND BOTTOM	

DATA COLLECTED: JANUARY 1972 TO NOVEMBER 1972
RECEIVED: AUGUST 01, 1975

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, U.S., COASTAL, MID-ATLANTIC, DELAWARE, NORTH CAROLINA

ABSTRACT:
THIS STUDY INCLUDES DATA TAKEN AT 14 OCEANOGRAPHIC STATIONS ALONG A 600 MILE CRUISE TRACK RUNNING ROUGHLY SE FROM DELAWARE BAY, CAPE HENLOPEN TO THE SARGASSO SEA JUST BEYOND THE GULF STREAM AND THEN NW FROM THE SARGASSO SEA TO A POINT CLOSE TO THE MOUTH OF THE CHESAPEAKE BAY AND INTO BEAUFORT NORTH CAROLINA. DATA TAKEN INCLUDES SURFACE AND PROFILE SALINITY, TEMPERATURE, NITRATE, NITRITE, PHOSPHATE, SILICATE, CHLOROPHYLL A, PHAEOPHYTIN, CS-137, RADIUM-228, RADIUM-226, THORIUM-228, LEAD-210, POLONIUN-210, PARTICULATE AND DISSOLVED MERCURY AS WELL AS REGULAR WIND, WAVE AND METEOROLOGICAL OBSERVATIONS.
(CRUISE BEGAN AT LEWES DELAWARE PROCEEDED OUT TO THE SARGASSO SEA TERMINATING AT BEAUFORT NORTH CAROLINA)

DATA AVAILABILITY:
AT COST OF REPRODUCTION

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
16 PAGES

FUNDING:
NATIONAL SCIENCE FOUNDATION NO. GA-28752

INVENTORY:

PUBLICATIONS:

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COLLEGE OF MARINE STUDIES
NEWARK DELAWARE USA 19711

GRID LOCATOR (LAT):
73078530 73076543

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	DM	14	STATIONS		SURFACE TO 980M	
TIME	EARTH	SAMPLING TIME	YMDHM	14	OBS	1 OBS/STATION/ DEPTH		
TEMPERATURE	WATER	VARIOUS	DEG C	1500	OBS	2-3 OBS/ STATION/ DEPTH	SURFACE TO 980M	CONTINUOUS SURFACE TEMPERATURE TAKEN BY THERMISTOR AND

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
								BUCKET AT EACH STATION 2 OR 3 DIFFERENT METHODS EMPLOYED, SURFACE TEMPERATURE BY BUCKET, STD, XBT DEPTH BY NANSEN/NISKIN REVERSING THERMOMETER, STD, BT
SALINITY	WATER	CONDUCTIVITY	PARTS PER THOUSAND	500	OBS	2 OBS/DEPTH/ STATION AND 1 OBS/HALF HR UNDERWAY	SURFACE TO 980M	SALINITY WAS CROSSED CHECK ON STATION STD AGAINST INDUCTIVE SALINOMETER WHILE UNDERWAY ONLY INDUCTIVE SALINOMETER USED
NITRATE	WATER	SPECTROPHOTOMETRY	MICROGRAM ATOMS PER LITER	84	OBS	1 OBS/DEPTH/ STATION	SURFACE TO 100 M	
NITRITE	WATER	SPECTROPHOTOMETRY	MICROGRAM ATOMS PER LITER	84	OBS	1 OBS/DEPTH/ STATION	SURFACE TO 100 M	
PHOSPHATE	WATER	SPECTROPHOTOMETRY	MICROGRAM ATOMS PER LITER	84	OBS	1 OBS/DEPTH/ STATION	SURFACE TO 100 M	
SILICATE	WATER	SPECTROPHOTOMETRY	MICROGRAM ATOMS PER LITER	84	OBS	1 OBS/DEPTH/ STATION	SURFACE TO 100 M	
CHLOROPHYLL A	WATER	SPECTROPHOTOMETRY	MICROGRAMS PER LITER	84	OBS	1 OBS/DEPTH/ STATION	SURFACE TO 100 M	CONTINUOUS CHLOROPHYLL ALSO WAS TAKEN TO CORRELATE WITH STATION DATA
PHAEOPHYTIN A	WATER	SPECTROPHOTOMETRY	MICROGRAMS PER LITER	84	OBS	1 OBS/DEPTH/ STATION	SURFACE TO 100 M	
MERCURY	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER BILLION	84	OBS	2 OBS/DEPTH/ STATION AND 1 OBS/HALF HR UNDERWAY	SURFACE TO 100 M	
MERCURY	SUSPENDED	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER BILLION	84	OBS	2 OBS/DEPTH/ STATION AND 1 OBS/HALF HR UNDERWAY	SURFACE TO 100 M	
MERCURY	DISSOLVED	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER BILLION	84	OBS	2 OBS/DEPTH/ STATION AND 1 OBS/HALF HR UNDERWAY	SURFACE TO 100 M	
CESIUM-137	WATER	GAMMA RAY SPECTROMETRY	COUNTS PER MINUTE	85	OBS	1 OBS/DEPTH/ STATION	10-980 M	

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
CESIUM-137	WATER	GAMMA RAY SPECTROMETRY	COUNTS PER MINUTE	9 OBS	1 OBS/DEPTH/ STATION	10-980 M	
RADIUM-228	WATER	GAMMA RAY SPECTROMETRY	COUNTS PER MINUTE	9 OBS	1 OBS/DEPTH/ STATION	SURFACE	SURFACE SAMPLE TAKEN AT EACH OF 9 STATIONS FROM WATER
RADIUM-226	WATER	GAMMA RAY SPECTROMETRY	COUNTS PER MINUTE	9 OBS	1 OBS/DEPTH/ STATION	SURFACE	SURFACE SAMPLE TAKEN AT EACH OF 9 STATIONS FROM WATER
LEAD-210	WATER	GAMMA RAY SPECTROMETRY	COUNTS PER MINUTE	9 OBS	1 OBS/DEPTH/ STATION	SURFACE	SURFACE SAMPLE TAKEN AT EACH OF 9 STATIONS FROM WATER
THORIUM-228	WATER	GAMMA RAY SPECTROMETRY	COUNTS PER MINUTE	9 OBS	1 OBS/DEPTH/ STATION	SURFACE	SURFACE SAMPLE TAKEN AT EACH OF 9 STATIONS FROM WATER
WIND SPEED	AIR	ANEMOMETER	NAUTICAL MILES PER HOUR	250 OBS	1 OBS/HALF HOUR		DATA TAKEN FROM SHIP MAST
WIND DIRECTION	AIR	DIRECTION VANE	COMPASS DEGREES	250 OBS	1 OBS/HALF HOUR		DATA TAKEN FROM SHIP MAST
WAVE AMPLITUDE	WATER	VISUAL	FEET	250 OBS	1 OBS/HALF HOUR	SURFACE	DATA TAKEN FROM SHIP MAST
WAVE PERIOD	WATER	VISUAL	WAVE PER MINUTE	250 OBS	1 OBS/HALF HOUR	SURFACE	MEASURED AS WAVES ACROSS BOW PER MINUTE

DATA COLLECTED: NOVEMBER 1973 TO NOVEMBER 1973
RECEIVED: AUGUST 01, 1975

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., DELAWARE BAY, BROADKILL RIVER, ROOSEVELT INLET

ABSTRACT:
THE BROADKILL RIVER AT THE ROOSEVELT INLET FROM DELAWARE BAY WAS MONITORED OVER A TIDAL CYCLE ON NOVEMBER 16, 1973 AS A PART OF A GRADUATE COURSE PROJECT BY THE UNIVERSITY OF DELAWARE'S COLLEGE OF MARINE STUDIES. DATA TAKEN EVERY 20 MINUTES INCLUDES SALINITY, TEMPERATURE, CURRENT SPEED, TOTAL PHOSPHATE, CHLOROPHYLL A, TOTAL AND PARTICULATE CARBOHYDRATE, TOTAL LOADING, AND DTRITRAL LOADING. BOTH TOTAL PARTICULATE LOADING AND THAT RETAINED BY A NUMBER 10 MESH NET WERE DETERMINED FOR EACH OF 12 OBS MADE.
(DATA TAKEN AS A CLASS PROJECT OVER ONE TIDAL CYCLE FROM A MOORED BOAT)

DATA AVAILABILITY:
LIMITED BY REPRODUCTION COSTS

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS
10 PAGES

FUNDING:
UNIVERSITY OF DELAWARE

INVENTORY:

PUBLICATIONS:

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GRID LOCATOR (LAT):
73078530

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	DM	1	STATIONS		1M	
TIME	EARTH	SAMPLING TIME	YMDHM	150	OBS		1M	
TEMPERATURE	WATER	MECHANICAL BT	DEG C	14	OBS	1 OBS/20 MINUTE	1M	
CURRENT SPEED	WATER	DRIFT DEVICE	METERS PER SECOND	15	OBS	1 OBS 20 MINUTE	1M	
SALINITY	WATER	CONDUCTIVITY	PARTS PER THOUSAND	18	OBS	1 OBS, 20 MINUTE	1M	INDUCTIVE SALINOMETER WAS USED

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
PHOSPHORUS	WATER	SPECTROPHOTOMETRY	MICROGRAM ATOMS PER LITER	18	OBS	1 OBS 20 MINUTE	1M	
CHITIN	WATER	SPECTROPHOTOMETRY	MICROGRAM PER LITER	12	OBS	1 OBS/20 MINUTE	1M	
CARBOHYDRATES	WATER	SPECTROPHOTOMETRY	MILLIGRAM GLUCOSE PER CUBIC METER	12	OBS	1 OBS/20 MINUTE	1M	
CHLOROPHYLL A	WATER	FLUOROMETRY	MILLIGRAM PER CUBIC METER	12	OBS	1 OBS/20 MINUTE	1M	
PARTICULATE MATTER	WATER	GRAVIMETRY	MILLIGRAM PER LITER	24	OBS	1 OBS/20 MINUTE	1M	
CARBOHYDRATES	SUSPENDED	SPECTROPHOTOMETRY	MILLIGRAM GLUCOSE PER CUBIC METER	12	OBS	1 OBS/20 MINUTE	1M	

DATA COLLECTED: JUNE 1969 TO JULY 1970 RECEIVED: AUGUST 01, 1975

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, U.S., DELAWARE, REHOBOTH BAY, COASTAL

ABSTRACT:
THE BENTHIC MACROSCOPIC ALGAE OF REHOBOTH BAY, DELAWARE, WERE SAMPLED AT APPROXIMATELY MONTHLY INTERVALS OVER A 14-MONTH PERIOD IN 1969-1970 WITH A MODIFIED CARIBBEAN-TYPE DREDGE. THE OBJECTIVES OF THE SURVEY WERE TO DESCRIBE, QUALITATIVELY AND QUANTITATIVELY, THE BAY'S POORLY-KNOWN MACRO-ALGAE COMMUNITY AND TO CORRELATE PATTERNS OF DISTRIBUTION AND SEASONAL CHANGE WITH ENVIRONMENTAL PARAMETERS.

DATA AVAILABILITY:
LIBRARY LOAN

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS
ONE 98 PAGE THESIS

FUNDING:
UNIVERSITY OF DELAWARE RESERACH FOUNDATION

INVENTORY:

PUBLICATIONS:
DATA INCLUDED IN UNPUBL. M.S. THESIS, 1972, BY PATRICIA K. ORRIS

CONTACT:
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UNIVERSITY OF DELAWARE, MARINE STATION LIBRARY
LEWES DELAWARE USA 19958

GRID LOCATOR (LAT):
730795

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	DEG	12	STATIONS	MONTHLY	BOTTOM	
TIME	EARTH	STATION TIME	YM	168	OBS	MONTHLY	BOTTOM	
COUNT OF BENTHIC PLANTS	BOTTOM	VISUAL	LITERS	168	OBS	MONTHLY	BOTTOM	
TAXONOMIC LIST OF BENTHIC PLANTS	BOTTOM	KEY	SPECIES	168	OBS	MONTHLY	BOTTOM	
TEMPERATURE	WATER	REVERSING THERMOMETER	DEG C	168	OBS	MONTHLY	BOTTOM	
SALINITY	WATER	CONDUCTIVITY	PPT	168	OBS	MONTHLY	BOTTOM	SALINOMETER

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
SECCHI DISC DEPTH	WATER	DISAPPEARING DEPTH	M	168	OBS	MONTHLY	BOTTOM	
DISSOLVED OXYGEN GAS	WATER	TITRATION	PPM	168	OBS	MONTHLY	BOTTOM	
NITRATE	WATER	SPECTROPHOTOMETRY	UG-AT/L	168	OBS	MONTHLY	BOTTOM	
ORTHOPHOSPHATE	WATER	SPECTROPHOTOMETRY	UG-AT/L	168	OBS	MONTHLY	BOTTOM	

DATA COLLECTED: OCTOBER 1965 TO AUGUST 1966 RECEIVED: AUGUST 01, 1975

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH AMERICA, U.S., DELAWARE, COASTAL, LEWES, CANARY CREEK MARSH

ABSTRACT:
THE SEASONAL VARIATION OF HYDROGEN SULFIDE PRODUCTION HAS BEEN MEASURED AND WAS FOUND AT A MAXIMUM DURING THE LATE SPRING MONTHS AND AT A MINIMUM DURING THE WINTER MONTHS. THE ANAEROBIC MICROORGANISMS RESPONSIBLE FOR SULFIDE PRODUCTION WERE DESULFOTONACULUM IN CHANGING ENVIRONMENTS AND DESULFOVIBRIO IN CONSTANT ENVIRONMENTS.

DATA AVAILABILITY:

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS
61 PAGES

FUNDING:
DELAWARE BOARD OF GAME AND FISH COMMISSIONERS

INVENTORY:

PUBLICATIONS:
DATA APPEARS IN UNPUBL THESIS BY R.J. REIMOLD

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NEWARK DELAWARE USA 19711

GRID LOCATOR (LAT):
7307854170

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	DM	6	STATIONS		SURFACE	
TIME	EARTH	STATION TIME	YMD	27	OBS		SURFACE	
HYDROGEN SULFIDE	SEDIMENT	TITRATION	MOLES	27	OBS	WEEKLY	SURFACE	
SULFATE	WATER	GRAVIMETRY	MOLES	6	OBS	WEEKLY	SURFACE	
IRON	DISSOLVED	SPECTROPHOTOMETRY	MOLES	6	OBS	WEEKLY	SURFACE	
SALINITY	WATER	CONDUCTIVITY	PARTS PER THOUSAND	6	OBS	WEEKLY	SURFACE	
PH	WATER	PH METER	GRAMS PER LITER	6	OBS	WEEKLY	SURFACE	
TEMPERATURE	SEDIMENT	MERCURY THERMOMETER	DEG C	6	OBS	WEEKLY	SURFACE	
TEMPERATURE	WATER	NON-REVERSING THERMOMETER	DEG C	6	OBS	WEEKLY	SURFACE	

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
WATER CONTENT	SEDIMENT	GRAVIMETRY	PERCENT WATER	6	OBS	EVERY 4 MONTHS	SURFACE	
COUNT OF MICROBIOTA	SEDIMENT	VISUAL	NUMBER PER GRAM WET WEIGHT OF SEDIMENT	6	OBS	WEEKLY	SURFACE	
SPECIES DETERMINATION OF MICROBIOTA	SEDIMENT	KEY		6	OBS	WEEKLY	SURFACE	TWO SPECIES DESULFOTONACULUM AND DESULFOVIBRIO WERE DETERMINED
ORGANIC CARBON	SEDIMENT	WET COMBUSTION/ INFRARED SPECTROMETRY	MG/G	6	OBS	WEEKLY	SURFACE	

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, U.S., DELAWARE BAY, COASTAL, CANARY CREEK

ABSTRACT:
THE INORGANIC PHOSPHATE CONCENTRATIONS OF CANARY CREEK MARSH WERE EVALUATED DURING VARYING SEASONAL AND TIDAL CONDITIONS. CANARY CREEK CONTRIBUTES INORGANIC PHOSPHATE TO THE DELAWARE BAY ON THE EBBING TIDE. MAXIMUM CONCENTRATIONS OCCURRED DURING JULY AND MINIMUM DURING JANUARY.

DATA AVAILABILITY:

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS
61 PAGES

FUNDING:
DELAWARE BOARD OF GAME AND FISH COMMISSIONERS

INVENTORY:

PUBLICATIONS:
DATA APPEARS IN UNPUBL THESIS BY R.J. REIMOLD

CONTACT:
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MORRIS LIBRARY, UNIVERSITY OF DELAWARE
NEWARK DELAWARE USA 19711

GRID LOCATOR (LAT):
7307854170

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	DM	10	STATIONS		SURFACE	
TIME	EARTH	STATION TIME	YMDH	7	OBS	EVERY TWO HOURS	SURFACE	
ORTHOPHOSPHATE	WATER	SPECTROPHOTOMETRY	UG-AT/L	70	STATIONS	EVERY TWO HOURS DURING A TIDAY CYCLE	SURFACE	SAMPLES FILTERED TO REMOVE DETRITUS
SALINITY	WATER	TITRATION	PARTS PER THOUSAND	10	STATIONS			SALINITY METHOD CHANGED DURING SAMPLING
SALINITY	WATER	CONDUCTIVITY	PARTS PER THOUSAND	10	STATIONS	EVERY TWO HOURS DURING A TIDAY	SURFACE	SALINITY METHOD CHANGED DURING SAMPLING

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
					CYCLE		

AN EVALUATION OF THE TOTAL PHOSPHORUS CONCENTRATION IN THE WATERS OF TWO SOUTHERN DELAWARE SALT MARSHES

DATA COLLECTED: AUGUST 1968 TO AUGUST 1969

RECEIVED: AUGUST 01, 1975

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, U.S., DELAWARE, CANARY CREEK MARSH, MURDERKILL MARSH, COASTAL

ABSTRACT:
THE SEASONAL FLUCTUATION OF TOTAL PHOSPHORUS, PARTICULATE PHOSPHORUS, DISSOLVED ORGANIC PHOSPHORUS AND DISSOLVED INORGANIC PHOSPHORUS HAS BEEN MEASURED IN THE WATERS OF TWO SOUTHERN DELAWARE SALT MARSHES OVER A THIRTEEN MONTH INTERVAL. COLLECTIONS WERE MADE MONTHLY AT EACH OF FOURTEEN STATIONS AND WATER SAMPLES TAKEN ON CONSECUTIVE HIGH AND LOW SLACK WATER PERIODS. WATER SAMPLES WERE ANALYZED FOR PHOSPHORUS, PH AND SALINITY ALONG WITH DIRECT DETERMINATION OF WATER AND AIR TEMPERATURE. THE FOURTEEN STATIONS IN THE TWO MARSHES WERE GROUPED INTO NINE AREAS WHICH INCLUDED: TIDAL CREEK, DITCHED MARSH, HIGH LEVEL IMPOUNDMENT, RIVER, LOW LEVEL IMPOUNDMENT, NEW CHAMPAGNE POOL, OLD CHAMPAGNE POOL, SMALL NATURAL MARSH GUT AND LARGE NATURAL MARSH GUT. THE PHOSPHORUS DISTRIBUTION COULD THEN BE EVALUATED IN ITS RELATION TO SEASON OF THE YEAR, ENVIRONMENTAL FLUX AND TOPOGRAPHY.

DATA AVAILABILITY:
LIBRARY LOAN

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS
ONE 114 PAGE THESIS

FUNDING:
DEPARTMENT OF NATURAL RESOURCES AND ENVIRONMENTAL CONTROL

INVENTORY:

PUBLICATIONS:
DATA INCLUDED IN UNPUBL. M.S. THESIS, 1972, BY GREGORY P. SHLOPAK

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LEWES DELAWARE USA 19958

GRID LOCATOR (LAT):
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PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	DEG	14	STATIONS	MONTHLY		
TIME	EARTH	STATION TIME	YM	14	OBS	MONTHLY		
TEMPERATURE	AIR	MERCURY THERMOMETER	DEG C	13	OBS	MONTHLY		
TEMPERATURE	WATER	NON-REVERSING THERMOMETER	DEG C	234	OBS	MONTHLY		

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
SALINITY	WATER	CONDUCTIVITY	PPT	234	OBS	MONTHLY		SALINOMETER
PH	WATER	SPECIFIC ION ELECTRODE	PH UNITS	230	OBS	MONTHLY		
PHOSPHORUS	WATER	SPECTROPHOTOMETRY	UG-AT/L	234	OBS	MONTHLY		
PHOSPHORUS	SUSPENDED	SPECTROPHOTOMETRY	UG-AT/L	234	OBS	MONTHLY		
ORGANIC PHOSPHORUS	DISSOLVED	SPECTROPHOTOMETRY	UG-AT/L	234	OBS	MONTHLY		
INORGANIC PHOSPHORUS	DISSOLVED	SPECTROPHOTOMETRY	UG-AT/L	234	OBS	MONTHLY		

DATA COLLECTED: MAY 1974 TO JUNE 1974
RECEIVED: AUGUST 15, 1975

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, U.S., COASTAL, MID-ATLANTIC, NORTH CAROLINA, DELAWARE

ABSTRACT:
THIS CRUISE REPORT INCLUDES OCEANOGRAPHIC DATA TAKEN AT 40 STATIONS ALONG A 600 MILE CRUISE TRACK RUNNING ROUGHLY NE FROM BEAUFORT, NORTH CAROLINA ACROSS THE GULF STREAM, NW TO THE MOUTH OF THE CHESEPEAKE BAY, NE OUT TO THE GULF STREAM, AND NW INTO CAPE HENLOPEN, AT THE MOUTH OF DELAWARE BAY. DATA TAKEN INCLUDES SURFACE AND PROFILE SALINITY, TEMPERATURE, DISSOLVED OXYGEN, DISSOLVED ORGANIC CARBON, PARTICULATE ORGANIC CARBON, NITRATE, NITRITE, TOTAL REACTIVE PHOSPHATE, TOTAL SILICATE, CHLOROPHYLL A, CARBON-14, PHAEOPHYTON PIGMENT, PARTICULATE CHITIN, CHITINOLYTIC BACTERIA, AND PARTICULATE LIGHT SCATTERING INFORMATION. IN ADDITION FOR WATER MASS TRACING, SURFACE AND PROFILE CS-137 AND RADIUM-228 USED BULK WATER SAMPLE TECHNIQUES AND SPECIAL CAST SAMPLER TECHNIQUE(CS-137). REGULAR WIND, WAVE, AND METEOROLOGICAL OBSERVATION WERE ALSO TAKEN.
(NSF NORTH ATLANTIC RESIDENCE TIME BY CS-137 TRACER; CRUISE BEGAN AT BEAUFORT, NORTH CAROLINA PROCEEDED OUT ACROSS THE GULF STREAM TERMINATING BACK AT LEWES, DELAWARE)

DATA AVAILABILITY:
AT COST OF REPRODUCTION

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
DATA SHEETS
50 PAGES

FUNDING:
NSF NO. GA-28752, UNIVERSITY OF DELAWARE

INVENTORY:

PUBLICATIONS:

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NEWARK DELA USA 19711

GRID LOCATOR (LAT):
730765 730766 730767 730768 730769 730770 730771 730780 730781 730782 730783 730784 730785

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	DMS	40	STATIONS			
TIME	EARTH	SAMPLING TIME	YMDHM	40	OBS	1 OBS/DEPTH/ STATION		
TEMPERATURE	WATER	XBT	DEG C	900	OBS	2 OBS/STATION/ DEPTH PLUS 1 OBS, HALF-	SURFACE TO 980M	

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PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
						HOUR UNDERWAY AND SOME CONTINUOUS SURFACE THERMISTOR RECORDS		
SALINITY	WATER	CONDUCTIVITY	PARTS PER THOUSAND	900	OBS	2 OBS STATION/ DEPTH PLUS 1 OBS/HALF-HOUR UNDERWAY AND SOME CONTINUOUS SURFACE THERMISTOR RECORDS	SURFACE TO 980M	INDUCTIVE SALINOMETER USED FOR CONDUCTIVITY MEASUREMENTS AND CROSS CHECKED AGAINST STD
LIGHT EXTINCTION	WATER	TRANSMISSOMETER LOWERING	RECIPROCAL METERS	28	OBS	1 OBS/STATION	0-80 METERS	EXTINCTION COEFFICIENTS WERE MEASURED AT EACH OF 28 STATIONS PLUS 2 VERTICAL DEPTH PROFILE WERE TAKEN AT SPECIES STATIONS
LIGHT SCATTERING COEFFICIENT	WATER	SMALL ANGLE FORWARD SCATTERING METER	RECIPROCAL METERS	28	OBS	1 OBS/STATION	0-80 METERS	VOLUME SCATTERIN G COEFFICIENT FOR BOTH 2 DEGREE AND 90 DEGREE SCATTERING METERS WERE TAKEN AT A 633 U WAVELENGTH AT 28 STATIONS AND AT VERTICAL PROFILE FOR 2 SPECIFIC STATIONS
WIND SPEED	AIR	ANEMOMETER	MILES PER HOUR	250	OBS	1 OBS/HALF-HOUR		WIND SPEED MEASURED AT SHIPS MAST
WIND DIRECTION	AIR	DIRECTION VANE	COMPASS DEGREES	250	OBS	1 OBS/HALF-HOUR		
WAVE AMPLITUDE	WATER	VISUAL	FEET	250	OBS	1 OBS HALF-HOUR	SEA SURFACE	
WAVE DIRECTION	WATER	VISUAL	COMPASS DIRECTION	250	OBS	1 OBS HALF-HOUR	SEA SURFACE	
NITRATE	WATER	SPECTROPHOTOMETRY	MICROGRAM-ATOMS PER LITER	201	OBS	1 OBS/STATION/ DEPTH	SURFACE TO 100 METERS	NUTRIENT PARAMETERS TAKEN AT EACH STATION FOR

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
								EACH PARTICULAR WATER SAMPLE BOTTLE DEPTH
NITRITE	WATER	SPECTROPHOTOMETRY	MICROGRAM-ATOMS PER LITER	201	OBS	1 OBS STATION/ DEPTH	SURFACE TO 100 METERS	
SILICATE	WATER	SPECTROPHOTOMETRY	MICROGRAM-ATOMS PER LITER	201	OBS	1 OBS/STATION/ DEPTH	SURFACE TO 100 METERS	
REACTIVE PHOSPHATE	WATER	SPECTROPHOTOMETRY	MICROGRAM-ATOMS PER LITER	201	OBS	1 OBS/STATION/ DEPTH	SURFACE TO 100 METERS	
TOTAL PHAEOPHYTIN	WATER	SPECTROPHOTOMETRY	MICROGRAM-ATOMS PER LITER	201	OBS	1 OBS STATION/ DEPTH	SURFACE TO 100 METERS	
CHITIN	SUSPENDED	SPECTROPHOTOMETRY	MICROGRAM PER LITER	44	OBS	1 OBS/STATION/ DEPTH	SURFACE TO 600 METERS	PARTICULATE CHITIN DATA TAKEN AT EACH OF 11 STATIONS AT THE VARIOUS BOTTLE DEPTHS PLUS SURFACE SAMPLE
COUNT OF MICROBIOTA	WATER	MICROSCOPE	COLONIES	34	OBS	1 OBS/STATION/ DEPTH	SURFACE TO 600 METERS	CHITINOCLYTIC BACTERIA WERE DETERMINED AT EACH WATER SAMPLE BOTTLE DEPTH AT EACH OF 11 STATIONS PLUS SURFACE SAMPLES
ORGANIC CARBON	DISSOLVED	AUTOANALYZER	MILLIGRAMS PER LITER	201	OBS	1 OBS, STATION/ DEPTH	SURFACE TO 600 METERS	
ORGANIC CARBON	SUSPENDED	AUTOANALYZER	MILLIGRAMS PER LITER	201	OBS	1 OBS, STATION/ DEPTH	SURFACE TO 600 METERS	
DISSOLVED OXYGEN GAS	WATER	TITRATION	MILLILITERS PER LITER	201	OBS	1 OBS STATION/ DEPTH	SURFACE TO 600 METERS	
CARBON-14	WATER	MASS SPECTROMETRY	MILLIGRAM PER METER CUBED PER DAY	201	OBS	1 OBS/STATION/ DEPTH	SURFACE TO 600 METERS	
CESIUM-137	WATER	GAMMA RAY SPECTROMETRY	COUNTS PER MINUTE	41	OBS	1 OBS STATION/ DEPTH	0-980 METERS	17 CESIUM-137 SAMPLES AT ONE STATION WITH SPECIAL CAST TECHNIQUE WHILE OTHERS TAKEN FROM BULK WATER SAMPLE AT 0 AND 50 METERS AT 2 OBS/ STATION
RADIUM-226	WATER	GAMMA RAY SPECTROMETRY	COUNTS PER MINUTE	24	OBS	2 OBS/STATION	0 TO 50 METERS	RADIUM-226 DATA TAKEN 2 OBS/ STATION AT 0 AND 50 METERS

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
TEMPERATURE	WATER	THERMISTOR	DEG C	900	OBS	2 OBS/STATION/ DEPTH PLUS 1 OBS/HALF-HOUR UNDERWAY AND SOME CONTINUOUS SURFACE THERMISTOR RECORDS	SURFACE TO 980M	
TEMPERATURE	WATER	MECHANICAL BT	DEG C	900	OBS	2 OBS STATION/ DEPTH PLUS 1 OBS HALF-HOUR UNDERWAY AND SOME CONTINUOUS SURFACE THERMISTOR RECORDS	SURFACE TO 980M	
TEMPERATURE	WATER	RESISTANCE THERMOMETER	DEG C	900	OBS	2 OBS STATION/ DEPTH PLUS 1 OBS HALF-HOUR UNDERWAY AND SOME CONTINUOUS SURFACE THERMISTOR RECORDS	SURFACE TO 980M	
TEMPERATURE	WATER	REVERSING THERMOMETER	DEG C	900	OBS	2 OBS/STATION/ DEPTH PLUS 1 OBS/HALF-HOUR UNDERWAY AND SOME CONTINUOUS SURFACE THERMISTOR RECORDS	SURFACE TO 980M	
SALINITY	WATER	STD	PARTS PER THOUSAND	900	OBS	2 OBS STATION/ DEPTH PLUS 1 OBS/HALF-HOUR UNDERWAY AND SOME CONTINUOUS SURFACE THERMISTOR RECORDS	SURFACE TO 980M	INDUCTIVE SALINOMETER USED FOR CONDUCTIVITY MEASUREMENTS AND CROSS CHECKED AGAINST STD
LIGHT SCATTERING COEFFICIENT	WATER	RIGHT ANGLE FORWARD SCATTERING METER	RECIPROCAL METERS	28	OBS	1 OBS/STATION	0-80 METERS	VOLUME SCATTERIN G COEFFICIENT FOR BOTH 2 DEGREE AND 90 DEGREE SCATTERING METERS WERE TAKEN AT A 633

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
								U WAVELENGTH AT 28 STATIONS AND AT VERTICAL PROFILE FOR 2 SPECIFIC STATIONS
COUNT OF MICROBIOTA	WATER	VISUAL	COLONIES	34	OBS	1 OBS/STATION/ DEPTH	SURFACE TO 600 METERS	CHITINOCLYTIC BACTERIA WERE DETERMINED AT EACH WATER SAMPLE BOTTLE DEPTH AT EACH OF 11 STATIONS PLUS SURFACE SAMPLES

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH AMERICA, U.S., PENNSYLVANIA

ABSTRACT:
THIS IS AN ONGOING STUDY OF THE QUALITY OF SURFACE WATERS OF PENNSYLVANIA. THERE ARE APPROXIMATELY 250 STATIONS FROM WHICH DATA ARE COLLECTED, MOST OF WHICH MONITOR STREAM DISCHARGE, TEMPERATURE, SPECIFIC CONDUCTIVITY AND DISSOLVED OXYGEN. IN ADDITION, ABOUT 200 STATIONS REPORT BIOCHEMICAL OXYGEN DEMAND, DISSOLVED CA, MG, NA, K, CL, F, SULFATE, NITRATE, ORTHOPHOSPHATE, CARBON DIOXIDE, BICARBONATE, AND CARBONATE, AS WELL AS PH, ALKALINITY, HARDNESS, NONCARBONATE HARDNESS AND COLOR. ABOUT 50 STATIONS ADDITIONALLY MONITOR DISSOLVED SILICA. FE AND MN, COLIFORM AND STREPTOCCI. SPOT CHECKS ARE MADE FOR SURFACTANTS, TURBIDITY, AND DISSOLVED AMMONIA, AL, AS, CD, CR, CU, PB, HG, NI, ZN AND A VARIETY OF PESTICIDES IN WATER AND SEDIMENTS. THE DATA ARE PRINTED ANNUALLY IN SUMMARY REPORTS. DETAILED DATA FROM MANY INDIVIDUAL STATIONS ARE AVAILABLE. (AVAILABLE AS ANNUAL REPORTS FOR ALL STATEWIDE MONITORS OR AS REPORTS FROM EACH STATION)

DATA AVAILABILITY:
ALSO IN ALL USGS OFFICIAL REPOSITORY LIBRARIES

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS
300 PAGE INHOUSE REPORT

FUNDING:

INVENTORY:

PUBLICATIONS:

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GRID LOCATOR (LAT):
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740724 740725 740726 740727 740728 740729

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT		250 STATIONS			MAP, VERBAL DESCRIPTION AND LATITUDE AND LONGITUDE GIVEN
TEMPERATURE	WATER	UNKNOWN	DEG C	250 STATIONS			
DISSOLVED	WATER	UNKNOWN	MILLIGRAMS PER	250 STATIONS			

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PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
OXYGEN GAS			LITER					
ELECTRICAL CONDUCTIVITY	WATER	UNKNOWN	MICROMHOS	250	STATIONS			
BIOCHEMICAL OXYGEN DEMAND	WATER	UNKNOWN	MILLIGRAMS PER LITER	200	STATIONS			
CALCIUM	DISSOLVED	UNKNOWN	MILLIGRAMS PER LITER	200	STATIONS			
MAGNESIUM	DISSOLVED	UNKNOWN	MILLIGRAMS PER LITER	200	STATIONS			
SODIUM	DISSOLVED	UNKNOWN	MILLIGRAMS PER LITER	200	STATIONS			
POTASSIUM	DISSOLVED	UNKNOWN	MILLIGRAMS PER LITER	200	STATIONS			
FLUORIDE	DISSOLVED	UNKNOWN	MILLIGRAMS PER LITER	200	STATIONS			
NITRATE	DISSOLVED	UNKNOWN	MILLIGRAMS PER LITER	200	STATIONS			
DISSOLVED CARBON DIOXIDE GAS	WATER	UNKNOWN	MILLIGRAMS PER LITER	200	STATIONS			
BICARBONATE ION	WATER	UNKNOWN	MILLIGRAMS PER LITER	200	STATIONS			
TOTAL ALKALINITY	WATER	UNKNOWN	MILLIGRAMS CACO3 PER LITER	200	STATIONS			
SULFATE	WATER	UNKNOWN	MILLIGRAMS PER LITER	200	STATIONS			
CHLORIDE	WATER	UNKNOWN	MILLIGRAMS PER LITER	200	STATIONS			
ORTHOPHOSPHATE	WATER	UNKNOWN	MILLIGRAMS PER LITER	200	STATIONS			
HARDNESS	WATER	UNKNOWN	MILLIGRAMS CA AND MG PER LITER	200	STATIONS			ALSO NONCARBONATE HARDNESS
COLOR	WATER	PLATINUM-COBALT		200	STATIONS			
PH	WATER	UNKNOWN	PH UNITS	200	STATIONS			
SILICATE	DISSOLVED	UNKNOWN	MILLIGRAMS PER LITER	50	STATIONS			
IRON	DISSOLVED	UNKNOWN	MICROGRAMS PER LITER	50	STATIONS			
MANGANESE	DISSOLVED	UNKNOWN	MICROGRAMS PER LITER	50	STATIONS			
CARBONATE ION	WATER	UNKNOWN	MILLIGRAMS PER LITER	50	STATIONS			
COUNT OF MICROBIOTA	WATER	UNKNOWN	NUMBER PER 100 ML	50	STATIONS			IMMEDIATE COLIFORM, FECAL COLIFORM, AND STREPTOCOCCI
ORGANIC CARBON	WATER	UNKNOWN	MILLIGRAMS PER LITER	50	STATIONS			
LIGHT ATTENUATION	WATER	UNKNOWN	JTU	10	STATIONS			

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
SURFACTANTS	WATER	UNKNOWN		10 STATIONS			METHYLENE BLUE ACTIVE SUBSTANCE
ALUMINUM	DISSOLVED	UNKNOWN	MILLIGRAMS PER LITER	10 STATIONS			
ARSENIC	DISSOLVED	UNKNOWN	MICROGRAMS PER LITER	10 STATIONS			
CADMIUM	DISSOLVED	UNKNOWN	MICROGRAMS PER LITER	10 STATIONS			
CHROMIUM	DISSOLVED	UNKNOWN	MICROGRAMS PER LITER	10 STATIONS			
COPPER	DISSOLVED	UNKNOWN	MICROGRAMS PER LITER	10 STATIONS			
LEAD	DISSOLVED	UNKNOWN	MICROGRAMS PER LITER	10 STATIONS			
MERCURY	DISSOLVED	UNKNOWN	MICROGRAMS PER LITER	10 STATIONS			
NICKEL	DISSOLVED	UNKNOWN	MICROGRAMS PER LITER	10 STATIONS			
ZINC	DISSOLVED	UNKNOWN	MICROGRAMS PER LITER	10 STATIONS			
AMMONIA	WATER	UNKNOWN	MILLIGRAMS PER LITER	10 STATIONS			
CHLOROPHYLL A	WATER	UNKNOWN	MICROGRAMS PER LITER	10 STATIONS			
TIME	EARTH	SAMPLING TIME	YMDHML	250 STATIONS			
ALDRIN	WATER	UNKNOWN	MICROGRAMS PER LITER	10 STATIONS			
CHLORDANE	WATER	UNKNOWN	MICROGRAMS PER LITER	10 STATIONS			
DDT	WATER	UNKNOWN	MICROGRAMS PER LITER	10 STATIONS			
DDD	WATER	UNKNOWN	MICROGRAMS PER LITER	10 STATIONS			
DDE	WATER	UNKNOWN	MICROGRAMS PER LITER	10 STATIONS			
DIELDRIN	WATER	UNKNOWN	MICROGRAMS PER LITER	10 STATIONS			
ENDRIN	WATER	UNKNOWN	MICROGRAMS PER LITER	10 STATIONS			
HEPTACHLOR	WATER	UNKNOWN	MICROGRAMS PER LITER	10 STATIONS			
LINDANE	WATER	UNKNOWN	MICROGRAMS PER LITER	10 STATIONS			
2,4,5-T	WATER	UNKNOWN	MICROGRAMS PER LITER	10 STATIONS			
2,4-D	WATER	UNKNOWN	MICROGRAMS PER LITER	10 STATIONS			
TOXAPHENE	WATER	UNKNOWN	MICROGRAMS PER LITER	10 STATIONS			
SILVEX	WATER	UNKNOWN	MICROGRAMS PER LITER	10 STATIONS			

DATA COLLECTED: 1967 TO PRESENT

RECEIVED: AUGUST 18, 1975

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH AMERICA, U.S., PENNSYLVANIA, MARYLAND, SUSQUEHANNA RIVER, CONOWINGO DAM TO HOLTWOOD DAM

ABSTRACT:
THIS STUDY WAS DESIGNED TO SERVE THE TWO PURPOSES OF ESTABLISHING BASELINE ECOLOGICAL DATA IN THE AREA OF AN ATOMIC POWER STATION AND OF MONITORING CHANGES THAT OCCURRED IN THE ECOLOGY OF THAT AREA BECAUSE OF THE OPERATION OF THE POWER STATION. BASIC WATER QUALIY PARAMETERS SUCH AS TEMPERATURE, PH, DISSOLVED OXYGEN AND CARBONATE/BICARBONATE CONTENT ARE INCLUDED WITH A COMPREHENSIVE BIOLOGIC SURVEY COMPRISED OF TAXONOMIC LISTS AND POPULATIONS OF PHYTOPLANKTON, ZOOPLANKTON, BENTHOS, AND FISH. STATISTICAL ANALYSES OF FISH POPULATIONS AND FEEDING HABITS ARE INCLUDED AS ARE THE RESULTS OF AN EXPERIMENT TO DETERMINE TEMPERATURE PREFERENCES OF FISH.

DATA AVAILABILITY:
THE COMPANY WILL COOPERATE WITH INDIVIDUALS DESIRING DATA BUT WILL NOT UNDERTAKE DUPLICATION OR PRINTING.

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
MAGNETIC TAPE DIGITAL
1 MAGNETIC TAPE

FUNDING:

INVENTORY:

PUBLICATIONS:

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GRID LOCATOR (LAT):
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PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT		17 STATIONS			
TEMPERATURE	WATER	REVERSING THERMOMETER	DEG C	17 STATIONS	2 PER MONTH		
TEMPERATURE	AIR	MERCURY THERMOMETER	DEG C	17 STATIONS	2 PER MONTH		
PH	WATER	SPECIFIC ION ELECTRODE	STD PH UNITS	8 STATIONS	2 PER MONTH	SURFACE, 5 FT, 10 FT, BOTTOM	
CARBONATE ION	WATER	TITRATION	PPM	8 STATIONS	2 PER MONTH	SURFACE, 5	

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PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
						FT, 10 FT, BOTTOM	
BICARBONATE ION	WATER	TITRATION	PPM	8 STATIONS	2 PER MONTH	SURFACE, 5 FT, 10 FT, BOTTOM	
ELECTRICAL CONDUCTIVITY	WATER	LAB CONDUCTIVITY CELL/TEMPERATURE CORRECTED	MICROMHOS	8 STATIONS	2 PER MONTH	SURFACE, 5 FT, 10 FT, BOTTOM	
ORTHOPHOSPHATE	WATER	COLORIMETRY	PPM	8 STATIONS	2 PER MONTH	SURFACE, 5 FT, 10 FT, BOTTOM	
PHOSPHATE	WATER	COLORIMETRY	PPM	8 STATIONS	2 PER MONTH	SURFACE, 5 FT, 10 FT, BOTTOM	
NITRITE	WATER	TITRATION	PPM	8 STATIONS	2 PER MONTH	SURFACE, 5 FT, 10 FT, BOTTOM	
NITRATE	WATER	SPECTROPHOTOMETRY	PPM	8 STATIONS	2 PER MONTH	SURFACE, 5 FT, 10 FT, BOTTOM	
CHLORIDE	WATER	SPECIFIC ION ELECTRODE	PPM	8 STATIONS	2 PER MONTH	SURFACE, 5 FT, 10 FT, BOTTOM	
SODIUM	WATER	SPECIFIC ION ELECTRODE	PPM	8 STATIONS	2 PER MONTH	SURFACE, 5 FT, 10 FT, BOTTOM	
POTASSIUM	WATER	SPECIFIC ION ELECTRODE	PPM	8 STATIONS	2 PER MONTH	SURFACE, 5 FT, 10 FT, BOTTOM	
CALCIUM	WATER	SPECIFIC ION ELECTRODE	PPM	8 STATIONS	2 PER MONTH	SURFACE, 5 FT, 10 FT, BOTTOM	
MAGNESIUM	WATER	SPECIFIC ION ELECTRODE	PPM	8 STATIONS	2 PER MONTH	SURFACE, 5 FT, 10 FT, BOTTOM	
TOTAL DISSOLVED SOLIDS	DISSOLVED	DRY WEIGHT	PPM	8 STATIONS	2 PER MONTH	SURFACE, 5 FT, 10 FT, BOTTOM	
SILICON	WATER	SPECTROPHOTOMETRY	PPM	8 STATIONS	2 PER MONTH	SURFACE, 5 FT, 10 FT, BOTTOM	
IRON	WATER	TITRATION	PPM	8 STATIONS	2 PER MONTH	SURFACE, 5 FT, 10 FT, BOTTOM	
DISSOLVED OXYGEN GAS	WATER	TITRATION	PPM	13 STATIONS	2 PER MONTH	SURFACE, 5 FT, 10 FT, BOTTOM	
PARTICULATE MATTER	WATER	MEMBRANE FILTRATION	PPM	8 STATIONS	2 PER MONTH	SURFACE, 5 FT, 10 FT, BOTTOM	
TAXONOMIC LIST OF PHYTOPLANKTO	WATER	UNKNOWN		8 STATIONS	2 PER MONTH	SURFACE, 5 FT, 10 FT,	

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
N CHLOROPHYLL A	WATER	SPECTROPHOTOMETRY	MG PER CUBIC METER	8 STATIONS	2 PER MONTH	BOTTOM SURFACE, 5 FT, 10 FT, BOTTOM	PHAEOPIGMENTS
CHLOROPHYLL B	WATER	SPECTROPHOTOMETRY	MG PER CUBIC METER	8 STATIONS	2 PER MONTH	SURFACE, 5 FT, 10 FT, BOTTOM	
CHLOROPHYLL C	WATER	SPECTROPHOTOMETRY	MG PER CUBIC METER	8 STATIONS	2 PER MONTH	SURFACE, 5 FT, 10 FT, BOTTOM	
CAROTENOIDS	WATER	SPECTROPHOTOMETRY	MG PER CUBIC METER	8 STATIONS	2 PER MONTH	SURFACE, 5 FT, 10 FT, BOTTOM	
BIOMASS OF ZOOPLANKTON	WATER	DRY WEIGHT		15 STATIONS	2 PER MONTH	SURFACE, 5 FT, 10 FT, BOTTOM	
COUNT OF ZOOPLANKTON	WATER	UNKNOWN	NUMBER PER LITER	15 STATIONS	2 PER MONTH	SURFACE, 5 FT, 10 FT, BOTTOM	
TAXONOMIC LIST OF ZOOPLANKTON	WATER	UNKNOWN		15 STATIONS	2 PER MONTH	SURFACE, 5 FT, 10 FT, BOTTOM	
TAXONOMIC LIST OF BENTHIC ANIMALS	BOTTOM	UNKNOWN		11 STATIONS	2 PER MONTH	SURFACE, 5 FT, 10 FT, BOTTOM	
BIOMASS OF BENTHIC ANIMALS	BOTTOM	UNKNOWN		11 STATIONS	2 PER MONTH	SURFACE, 5 FT, 10 FT, BOTTOM	
LENGTH OF PELAGIC FISH	WATER	FORK LENGTH	MM	11 STATIONS	2 PER MONTH	SURFACE, 5 FT, 10 FT, BOTTOM	
WEIGHT OF PELAGIC FISH	WATER	WET WEIGHT	GRAMS	11 STATIONS	2 PER MONTH	SURFACE, 5 FT, 10 FT, BOTTOM	
SEX DETERMINATION OF PELAGIC FISH	WATER	VISUAL		11 STATIONS	2 PER MONTH	SURFACE, 5 FT, 10 FT, BOTTOM	
COUNT OF PELAGIC FISH	WATER	UNKNOWN		11 STATIONS	2 PER MONTH	SURFACE, 5 FT, 10 FT, BOTTOM	
AGE DATING OF PELAGIC FISH	WATER	SCALES		11 STATIONS	2 PER MONTH	SURFACE, 5 FT, 10 FT, BOTTOM	
BIOLOGICAL CONDITION OF PELAGIC FISH	WATER	CALCULATED		11 STATIONS	2 PER MONTH	SURFACE, 5 FT, 10 FT, BOTTOM	
TIME	EARTH	STATION TIME		17 STATIONS			

PROJECTS:
ECOLOGICAL EFFECTS OF NUCLEAR STEAM

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., MARYLAND, CALVERT COUNTY

ABSTRACT:
STARTED IN JUNE OF 1971, THIS CONTINUING STUDY ON THE ECOLOGICAL EFFECTS OF NUCLEAR STEAM ELECTRIC STATION OPERATIONS ON THE ESTUARINE SYSTEMS ON THE WESTERN SHORE OF THE CHESAPEAKE BAY IN CALVERT COUNTY MARYLAND IS CONCERNED WITH PARAMETERS SUCH AS WEATHER DATA, SALINITY, DISSOLVED OXYGEN, AND THE GENERAL CONDITIONS OF PHYTOPLANKTON, ZOOPLANKTON AND BENTHIC ANIMALS INHABITING THE ECOSYSTEM.

DATA AVAILABILITY:
NOT AVAILABLE FOR GENERAL DISTRIBUTION

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
4,300 PAGE NOTEBOOKS AND 10, 100 PAGE NOTEBOOKS

FUNDING:
CHESAPEAKE BIOLOGICAL LABORATORY, SOLOMONS, MD.

INVENTORY:

PUBLICATIONS:

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GRID LOCATOR (LAT):
730796

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	LATITUDE AND LONGITUDE	18	STATIONS			
TIME	EARTH	SAMPLING TIME	YMDHM	18	STATIONS	MONTHLY		
TEMPERATURE	WATER	THERMOCOUPLE	DEG C	18	STATIONS			
SALINITY	WATER	CONDUCTIVITY		18	STATIONS			
DISSOLVED OXYGEN GAS	WATER	SPECIFIC ION ELECTRODE	PARTS PER MILLION	18	STATIONS			
TOTAL CHLOROPHYL L	WATER	SPECTROPHOTOMETRY		18	STATIONS			
CARBON-14	WATER	MASS SPECTROMETRY		18	STATIONS			

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
NITRATE	WATER	SPECTROPHOTOMETRY		18 STATIONS			
CARBONATES	WATER	SPECTROPHOTOMETRY		18 STATIONS			
COUNT OF ZOOPLANKTON	WATER	VISUAL		18 STATIONS			
SPECIES DETERMINATION OF ZOOPLANKTON	WATER	KEY		18 STATIONS			
COUNT OF BENTHIC ANIMALS	BOTTOM	VISUAL	NUMBER PER SQUARE METER	18 STATIONS			
SPECIES DETERMINATION OF BENTHIC ANIMALS	BOTTOM	KEY		18 STATIONS			
BIOMASS OF BENTHIC ANIMALS	BOTTOM	DRY WEIGHT		18 STATIONS			
WEATHER	AIR	VISUAL		18 STATIONS			THE CAPTAINS LOG ABOARD THE R/V HAS A RECORD OF TIDE STAGE AND WIND DIRECTION
FECUNDITY OF PELAGIC FISH	WATER	VISUAL		18 STATIONS			
SECCHI DISC DEPTH	WATER	AVERAGE DEPTH	METERS	18 STATIONS			

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, U.S., DELAWARE BAY, BROADKILL RIVER, COASTAL

ABSTRACT:
DURING THE PERIOD FROM JULY 16, 1969 AND FEBRUARY 27, 1971, HYDROGRAPHIC PARAMETERS AND CONCENTRATIONS OF VARIOUS PHOSPHORUS AND COMBINED INORGANIC NITROGEN FRACTIONS WERE SURVEYED IN THE BROADFILL RIVER ESTUARINE SYSTEM. CONCENTRATION VARIATIONS OF MOST OF THE PARAMETERS SURVEYED APPEARED TO FOLLOW BOTH SEASONAL AND TIDAL FLUCTUATIONS. AMMONIA, INORGANIC PHOSPHORUS, AND CHLOROPHYLL ATTAINED THEIR HIGHEST MEAN CONCENTRATIONS DURING THE SUMMER, WHILE THE MAXIMUM MEAN CONCENTRATIONS OF DISSOLVED OXYGEN AND NITRATE APPEARED DURING THE WINTER. THE HIGHEST MEAN CONCENTRATIONS OF NITRATE AND ORGANIC PHOSPHORUS WERE FOUND DURING THE AUTUMN.

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
127 PAGES

FUNDING:
OFFICE OF WATER RESOURCES RESEARCH, UNIVERSITY OF DELAWARE

INVENTORY:

PUBLICATIONS:
DATA APPEARS IN UNPUBL M.S. THESIS UNDER PROFESSOR F.C. DAIBER

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INTERLIBRARY LOAN 302 738 2236
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NEWARK DELAWARE USA 19711

GRID LOCATOR (LAT):
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PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	DMT	11	STATIONS		SURFACE AND BOTTOM	
TIME	EARTH	STATION TIME	YM	12	OBS			
SECCHI DISC DEPTH	WATER	DISAPPEARING DEPTH	FEET	154	OBS		SURFACE	
TEMPERATURE	WATER	REVERSING THERMOMETER	DEG C	126	OBS		SURFACE AND BOTTOM	126 OBS AT EACH BOTTOM AND SURFACE LOW AND HIGH WATER
SALINITY	WATER	CONDUCTIVITY	PARTS PER	126	OBS		SURFACE AND	126 OBS AT EACH

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
			THOUSAND			BOTTOM	BOTTOM AND SURFACE LOW AND HIGH WATER
PH	WATER	SPECIFIC ION ELECTRODE	GRAMS PER LITER	126 OBS		SURFACE AND BOTTOM	126 OBS AT EACH BOTTOM AND SURFACE LOW AND HIGH WATER
DISSOLVED OXYGEN GAS	WATER	TITRATION	MG O2/LITER	126 OBS		SURFACE AND BOTTOM	126 OBS AT EACH BOTTOM AND SURFACE LOW AND HIGH WATER
REACTIVE PHOSPHATE	WATER	COLORIMETRY	UG-AT/LITER	126 OBS		SURFACE AND BOTTOM	SAMPLES FILTERED THROUGH FOURTY-FIVE HUNDREDTHS U FILTER. 126 OBS AT EACH BOTTOM AND SURFACE LOW AND HIGH WATER
NITRITE	WATER	COLORIMETRY	UG-AT/LITER	126 OBS		SURFACE AND BOTTOM	126 OBS AT EACH BOTTOM AND SURFACE LOW AND HIGH WATER
NITRATE	WATER	COLORIMETRY	UG-AT/LITER	126 OBS		SURFACE AND BOTTOM	126 OBS AT EACH BOTTOM AND SURFACE LOW AND HIGH WATER
AMMONIA	WATER	COLORIMETRY	UG-AT/LITER	126 OBS		SURFACE AND BOTTOM	126 OBS AT EACH BOTTOM AND SURFACE LOW AND HIGH WATER
CHLOROPHYLL A	WATER	SPECTROPHOTOMETRY	UL/LITER	126 OBS		SURFACE AND BOTTOM	126 OBS AT EACH BOTTOM AND SURFACE LOW AND HIGH WATER
CHLOROPHYLL B	WATER	SPECTROPHOTOMETRY	UL/LITER	126 OBS		SURFACE AND BOTTOM	126 OBS AT EACH BOTTOM AND SURFACE LOW AND HIGH WATER
CHLOROPHYLL C	WATER	SPECTROPHOTOMETRY	UL/LITER	126 OBS		SURFACE AND BOTTOM	126 OBS AT EACH BOTTOM AND SURFACE LOW AND HIGH WATER

DATA COLLECTED: JULY 1966 TO DECEMBER 1967

RECEIVED: JULY 25, 1975

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, U.S., DELAWARE BAY, CANARY CREEK AND MURDERKILL RIVER, COASTAL

ABSTRACT:
THE DISTRIBUTION OF NITRATE AND NITRITE IN TWO AREAS OF DELAWARE SALT MARSH WAS STUDIED. SEASONAL VARIATIONS IN NITRATE WERE OBSERVED WITH MAXIMUM VALUES IN THE WINTER AND MINIMUM VALUES IN THE SUMMER. NITRITE APPEARED TO SHOW A SHORT PERIOD OF MAXIMUM CONCENTRATIONS IN THE FALL; WITH MINIMUM CONCENTRATIONS OCCURRING DURING THE SUMMER.

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
141 PAGES

FUNDING:
DELAWARE BOARD OF GAME AND FISH COMMISSIONERS - PITTMAN-ROBERTSON

INVENTORY:

PUBLICATIONS:
DATA INCLUDED IN UNPUBL M.S. THESIS BY W. DEWITT

CONTACT:
INTERLIBRARY LOAN 302 738 2236
MORRIS LIBRARY, UNIVERSITY OF DELAWARE
NEWARK DELAWARE USA 19711

GRID LOCATOR (LAT):
7307854170 7307950235

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	DM	16	STATIONS			
TIME	EARTH	STATION TIME	YMD	136	OBS			
NITRATE	WATER	SPECTROPHOTOMETRY	UG-AT/L	1070	OBS		SURFACE	HIGH AND LOW WATER
NITRITE	WATER	SPECTROPHOTOMETRY	UG-AT/L	1070	OBS		SURFACE	HIGH AND LOW WATER
SALINITY	WATER	CONDUCTIVITY	PARTS PER THOUSAND	792	OBS		SURFACE	HIGH AND LOW WATER
PH	WATER	PH METER	GRAMS PER LITER	1070	OBS		SURFACE	HIGH AND LOW WATER
PH	WATER	SPECIFIC ION ELECTRODE	GRAMS PER LITER	1070	OBS		SURFACE	PH METHOD CHANGED 196706

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
TEMPERATURE	WATER	REVERSING THERMOMETER	DEG C	1070	OBS		SURFACE	HIGH AND LOW WATER
TEMPERATURE	AIR	MERCURY THERMOMETER	DEG C	270	OBS		SURFACE	HIGH AND LOW WATER

WATERS OF TWO DELAWARE MARSHES
DATA COLLECTED: JULY 1966 TO DECEMBER 1967 RECEIVED: JULY 25, 1975

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH AMERICA, U.S., DELAWARE, CANARY CREEK MARSH, MURDERKILL MARSH

ABSTRACT:
THE DISTRIBUTION OF NITRATE AND NITRITE IN TWO AREAS OF DELAWARE SALT MARSH WAS STUDIED FROM JULY, 1966 TO DECEMBER, 1967. CANARY CREEK MARSH, LOCATED NEAR THE MOUTH OF DELAWARE BAY, WAS CHARACTERIZED BY HIGH SALINITY, LOW NITRATE WATER. THE MURDERKILL MARSH, IN CENTRAL DELAWARE, WAS CHARACTERIZED BY LOW SALINITY, HIGH NITRATE WATER. MAN-MADE CONTROL STRUCTURES IN THE MURDERKILL MARSH WERE FOUND TO INHIBIT FREE TIDAL EXCHANGE, AND THUS MODIFY THE DISTRIBUTION OF NITRATE AND NITRITE.

DATA AVAILABILITY:

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS
ONE 141 PAGE MASTERS THESIS

FUNDING:
DELAWARE BOARD OF GAME AND FISH COMMISSIONERS

INVENTORY:

PUBLICATIONS:
DATA INCLUDED IN UNPUBL. M.S. THESIS, 1968, BY DON AURAND

CONTACT:
LIBRARIAN 302 645 6674
MARINE STATION LIBRARY UNIVERSITY OF DELAWARE
LEWES DELAWARE USA 19958

GRID LOCATOR (LAT):
730795

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	DEGREES	16	STATIONS			
TIME	EARTH	STATION TIME	YM	32	OBS			
NITRATE	WATER	COLORIMETRY	UG-AT/L	32	OBS			
NITRITE	WATER	COLORIMETRY	UG-AT/L	32	OBS			
SALINITY	WATER	CONDUCTIVITY	PPT	32	OBS			
PH	WATER	PH METER	PH UNITS	32	OBS			
TEMPERATURE	WATER	NON-REVERSING THERMOMETER	DEG C	32	OBS			

DATA COLLECTED: JULY 1969 TO JUNE 1970

RECEIVED: JULY 25, 1975

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, U.S., DELAWARE BAY, CANARY CREEK, COASTAL

ABSTRACT:
GROSS ALGAL PRIMARY PRODUCTIVITY AND EDAPHIC COMMUNITY RESPIRATION ESTIMATES WERE MADE FOR FIVE AREAS OF CANARY CREEK TIDAL MARSH NEAR LEWES, DELAWARE. OXYGEN CHANGES IN WATER OVERLYING CORES OF THE MARSH INCUBATED IN THE LABORATORY WERE USED AS THE INDICATION OF METABOLIC ACTIVITY. ENVIRONMENTAL FACTORS OF LIGHT, TEMPERATURE, SALINITY, PH, NUTRIENT CONTENT OF SURFACE WATER AND THE NITROGEN AND PHOSPHOROUS CONTENT OF THE GRASS WERE MEASURED.

DATA AVAILABILITY:
LIBRARY LOAN

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS
ONE 120 PAGE THESIS

FUNDING:
STATE OF DELAWARE, DIVISION OF FISH AND WILDLIFE

INVENTORY:

PUBLICATIONS:
DATA INCLUDED IN UNPUBL. M.S. THESIS, 1971, BY JOHN L. GALLAGHER

CONTACT:
LIBRARIAN 302 645 6674
UNIVERSITY OF DELAWARE, MARINE STATION LIBRARY
LEWES DELAWARE USA 19958

GRID LOCATOR (LAT):
730795

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	DEG	5	STATIONS	MONTHLY		
TIME	EARTH	STATION TIME	YM	15	OBS	MONTHLY		
LIGHT INTENSITY	AIR	UPLOOKING PHOTOMETER	LANGLEYS/DAY	15	OBS	MONTHLY	SOIL SURFACE	
TEMPERATURE	LAND	MERCURY THERMOMETER	DEG C	15	OBS	MONTHLY	3 CM ABOVE SURFACE TO 2 CM BELOW	
TEMPERATURE	AIR	MERCURY THERMOMETER	DEG C	15	OBS	MONTHLY	ONE AND TWO-TENTHS M ABOVE MARSH	

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
SALINITY	WATER	INDEX OF REFRACTION	PPT	15	OBS	MONTHLY	SURFACE SURFACE WATER	
PH	WATER	SPECIFIC ION ELECTRODE	UNITS OF PH	15	OBS	MONTHLY	SURFACE WATER	
PH	LAND	SPECIFIC ION ELECTRODE	UNITS OF PH	15	OBS	MONTHLY	SOIL SURFACE	
NITRITE	WATER	COLORIMETRY	UG-AT/L	15	OBS	MONTHLY	SURFACE WATER	
NITRATE	WATER	COLORIMETRY	UG-AT/L	15	OBS	MONTHLY	SURFACE WATER	
ORTHOPHOSPHATE	WATER	COLORIMETRY	UG-AT/L	15	OBS	MONTHLY	SURFACE WATER	
PHOSPHORUS	WATER	COLORIMETRY	UG-AT/L	15	OBS	MONTHLY	SURFACE WATER	
CHLOROPHYLL A	WATER	FLUOROMETRY	UG-AT/L	15	OBS	MONTHLY	SURFACE WATER	
LENGTH OF BENTHIC PLANTS	LAND	DIRECT	METERS	15	OBS	MONTHLY	SOIL SURFACE	SPARTINA
DISSOLVED OXYGEN GAS	WATER	TITRATION	ML/L	15	OBS	MONTHLY	SURFACE WATER	

DATA COLLECTED: APRIL 1973 TO JANUARY 1974

RECEIVED: OCTOBER 03, 1975

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH AMERICA, U.S., SOUTHEASTERN PENNSYLVANIA AND NORTHERN DELAWARE

ABSTRACT:
STREAM WATER CHEMISTRY DATA OBTAINED FROM THE CHRISTINA RIVER AND ROCKY RUN STREAM FOR THE PERIOD FROM APRIL, 1973 TO JANUARY, 1974 AND JUNE, 1973 TO OCTOBER, 1973, RESPECTIVELY, ARE PRESENTED IN REPORT FORM. LOW FLOW SAMPLES AS WELL AS SAMPLES COLLECTED DURING THE RISING, PEAK AND FALLING STAGES OF THE STREAMS DURING RAINFALL EVENTS ARE ANALYZED TO ILLUSTRATE THE VARIATION OF CHEMICAL PARAMETERS FROM VALUES REFLECTING GROUND WATER CHEMISTRY TO VALUES REFLECTING THE EFFECT OF DIRECT PRECIPITATION AND RUNOFF. RAINFALL MEASUREMENTS AND CHEMICAL ANALYSES OF RUNOFF ARE PRESENTED.
(GRID LOCATOR - CHRISTINA RIVER AND ROCKY RUN STREAM RESPECTIVELY)

DATA AVAILABILITY:

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS
100 PAGES

FUNDING:

INVENTORY:

PUBLICATIONS:
METZ, R.W., 1975. THE EFFECTS OF VARIATION IN DISCHARGE ON THE STREAM CHEMISTRY OF THE CHRISTINA RIVER, DELAWARE. MASTER'S THESIS, UNIVERSITY OF DELAWARE, 100 P.

CONTACT:
REBECCA W. METZ 302 738 2569
GEOLOGY DEPARTMENT, UNIVERSITY OF DELAWARE
NEWARK DELAWARE USA 19711

GRID LOCATOR (LAT):
73079544 73079553

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	8	STATIONS			
TIME	EARTH	STATION TIME	YMD	113	OBS			
SODIUM	WATER	COLORIMETRY	MG/L	80	OBS			
TOTAL ALKALINITY	WATER	TITRATION	MG/L	101	OBS			
CHLORIDE	WATER	TITRATION	MG/L	116	OBS			
SILICON	WATER	COLORIMETRY	MG/L	82	OBS			
MAGNESIUM	WATER	COLORIMETRY	MG/L	84	OBS			
HARDNESS	WATER	TITRATION	MG/L	95	OBS			
CALCIUM	WATER	COLORIMETRY	MG/L	84	OBS			

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
ORTHOPHOSPHATE	WATER	COLORIMETRY	MG/L	76	OBS			
SULFATE	WATER	COLORIMETRY	MG/L	97	OBS			
NITRATE	WATER	COLORIMETRY	MG/L	108	OBS			
ELECTRICAL CONDUCTIVITY	WATER	LAB CONDUCTIVITY CELL	MICROMHOS PER CM	97	OBS			
WATER TRANSPORT	WATER	CALCULATED	CUBIC FEET PER SECOND	62	OBS			
WATER TRANSPORT	WATER	FLOW METER	CUBIC FEET PER SECOND	65	OBS			
WATER LEVEL	WATER	VISUAL	INCHES	97	OBS			
PH	WATER	COLORIMETRY	PH UNITS	80	OBS			
PHOSPHATE	WATER	COLORIMETRY	MG/L	1	OBS			

DATA COLLECTED: OCTOBER 1965 TO AUGUST 1966 RECEIVED: NOVEMBER 19, 1975

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH AMERICA, U.S., COASTAL, DELAWARE, LEWES, CANARY CREEK MARSH

ABSTRACT:
THE SEASONAL VARIATIONS OF HYDROGEN SULFIDE PRODUCTION HAS BEEN MEASURED AND WAS FOUND AT A MAXIMUM DURING THE LATE SPRING MONTHS AND AT A MINIMUM DURING THE WINTER MONTHS. THE ANAEROBIC MICROORGANISMS RESPONSIBLE FOR SULFIDE PRODUCTION WERE DESULFOTOMACULUM IN CHANGING ENVIRONMENTS AND DESULFOUIBRIO IN CONSTANT ENVIRONMENTS.
(RESEARCH DONE AT U. OF DELAWARE)

DATA AVAILABILITY:
U. OF DELAWARE INTER-LIBRARY LOAN ALSO

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS
61 PAGES

FUNDING:
DELAWARE BOARD OF GAME AND FISH COMMISSIONERS

INVENTORY:

PUBLICATIONS:
INHOUSE REPORT

CONTACT:
JOHN C. BRYSON 302 678 4403
DELAWARE DEPARTMENT OF NATURAL RESOURCES AND ENVIRONMENTAL CONTROL
DOVER DELAWARE USA 19901

GRID LOCATOR (LAT):
7307854170

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	DM	6	STATIONS			
TIME	EARTH	STATION TIME	YMD	27	OBS			
HYDROGEN SULFIDE	SEDIMENT	TITRATION	MOLES	27	OBS	WEEKLY	SURFACE	
SULFATE	WATER	GRAVIMETRY	MOLES	6	OBS	WEEKLY	SURFACE	
IRON	DISSOLVED	SPECTROPHOTOMETRY	MOLES	6	OBS	WEEKLY	SURFACE	
SALINITY	WATER	CONDUCTIVITY	PARTS PER THOUSAND	6	OBS	WEEKLY	SURFACE	
PH	WATER	PH METER	GRAMS PER LITER	6	OBS	WEEKLY	SURFACE	
TEMPERATURE	SEDIMENT	MERCURY THERMOMETER	DEG C	6	OBS	WEEKLY	SURFACE	

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
TEMPERATURE	WATER	NON-REVERSING THERMOMETER	DEG C	6	OBS	WEEKLY	SURFACE	
WATER CONTENT	SEDIMENT	GRAVIMETRY	PERCENT WATER	6	OBS	EVERY 4 MONTHS	SURFACE	
COUNT OF MICROBIOTA	SEDIMENT	VISUAL	NUMBER PER GRAM WET WEIGHT OF SEDIMENT	6	OBS	WEEKLY	SURFACE	
SPECIES DETERMINATION OF MICROBIOTA	SEDIMENT	KEY		6	OBS	WEEKLY	SURFACE	2 SPECIES DESULFOTOMACULUM AND DESULFOUIBRIO WERE DETERMINED
ORGANIC CARBON	SEDIMENT	WET COMBUSTION/ INFRARED SPECTROMETRY	MG PER GRAM	6	OBS	WEEKLY	SURFACE	

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, U.S., COASTAL, DELAWARE BAY, CANARY CREEK

ABSTRACT:
THE INORGANIC PHOSPHATE CONCENTRATIONS OF CANARY CREEK MARSH WERE EVALUATED DURING VARYING SEASONAL AND TIDAL CONDITIONS. CANARY CREEK CONTRIBUTES INORGANIC PHOSPHATE TO THE DELAWARE BAY ON THE EBBING TIDE. MAXIMUM CONCENTRATIONS OCCURRED DURING JULY AND MINIMUM CONCENTRATIONS OCCURRED DURING JANUARY.
(RESEARCH DONE BY UNIVERSITY OF DELAWARE)

DATA AVAILABILITY:
U. OF DELAWARE INTERLIBRARY LOAN ALSO

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS
61 PAGES

FUNDING:
DELAWARE BOARD OF GAME AND FISH COMMISSIONERS

INVENTORY:

PUBLICATIONS:
UNPUBLISHED M.S. THESIS JUNE 1964, REIMOLD, R.J.

CONTACT:
JOHN C. BRYSON 302 678 4403
DELAWARE DEPARTMENT OF NATURAL RESOURCES AND ENVIRONMENTAL CONTROL
DOVER DELAWARE USA 19901

GRID LOCATOR (LAT):
7307854170

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	DM	70	STATIONS			
TIME	EARTH	STATION TIME	YMDH	70	STATIONS	EVERY 2 HOURS		
ORTHOPHOSPHATE	WATER	SPECTROPHOTOMETRY	UG AT PER L	70	STATIONS	EVERY 2 HOURS DURING A TIDAL CYCLE	SURFACE	SAMPLES FILTERED TO REMOVE DETRITUS
SALINITY	WATER	TITRATION	PPT	70	STATIONS		SURFACE	SALINITY METHOD CHANGED DURING SAMPLING - A FINAL TOTAL OF 70 OBS WERE

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
SALINITY	WATER	CONDUCTIVITY	PPT	70 STATIONS	EVERY 2 HOURS DURING A TIDAL CYCLE	SURFACE	MADE SALINITY METHOD CHANGED DURING SAMPLING - A FINAL TOTAL OF 70 OBS WERE MADE

AN EVALUATION OF THE TOTAL PHOSPHORUS CONCENTRATION IN THE WATERS OF TWO SOUTHERN DELAWARE SALT MARSHES

DATA COLLECTED: AUGUST 1968 TO AUGUST 1969

RECEIVED: NOVEMBER 19, 1975

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, U.S., COASTAL, DELAWARE, CANARY CREEK MARSH, MURDERKILL MARSH

ABSTRACT:
THE SEASONAL FLUCTUATION OF TOTAL PHOSPHORUS, PARTICULATE PHOSPHORUS, DISSOLVED ORGANIC PHOSPHORUS AND DISSOLVED INORGANIC PHOSPHORUS HAS BEEN MEASURED IN THE WATERS OF TWO SOUTHERN DELAWARE SALT MARSHES OVER A THIRTEEN MONTH INTERVAL. COLLECTIONS WERE MADE MONTHLY AT EACH OF FOURTEEN STATIONS AND WATER SAMPLES TAKEN ON CONSECUTIVE HIGH AND LOW SLACK WATER PERIODS. WATER SAMPLES WERE ANALYZED FOR PHOSPHORUS, PH AND SALINITY ALONG WITH DIRECT DETERMINATION OF WATER AND AIR TEMPERATURES. THE FOURTEEN STATIONS IN THE TWO MARSHES WERE GROUPED INTO NINE AREAS WHICH INCLUDED: TIDAL CREEK, DITCHED MARSH, HIGH LEVEL IMPOUNDMENT, RIVER, LOW LEVEL IMPOUNDMENT, NEW CHAMPAGNE POOL, OLD CHAMPAGNE POOL, SMALL NATURAL MARSH GUT AND LARGE NATURAL MARSH GUT. THE PHOSPHORUS DISTRIBUTION COULD THEN BE EVALUATED IN ITS RELATION TO SEASON OF THE YEAR, ENVIRONMENTAL FLUX AND TOPOGRAPHY.

DATA AVAILABILITY:
U OF DELAWARE MARINE STATION LIBRARY LOAN ALSO.

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS
114 PAGES

FUNDING:
DELAWARE DEPARTMENT OF NATURAL RESOURCES AND ENVIRONMENTAL CONTROL

INVENTORY:

PUBLICATIONS:
RESEARCH DONE BY GREGORY P. SHLOPAK - DATA INCLUDED IN UNPUBLISHED M. S. THESIS, U. OF DELAWARE

CONTACT:
JOHN C. BRYSON 302 678 4403
DELAWARE DEPARTMENT OF NATURAL RESOURCES AND ENVIRONMENTAL CONTROL
DOVER DELAWARE USA 19901

GRID LOCATOR (LAT):
730795

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	DEG	14	STATIONS			
TIME	EARTH	SAMPLING TIME	YM	14	OBS	MONTHLY		
TEMPERATURE	AIR	MERCURY THERMOMETER	DEG C	13	OBS			
TEMPERATURE	WATER	NON-REVERSING THERMOMETER	DEG C	234	OBS			

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
SALINITY	WATER	CONDUCTIVITY	PPT	234	OBS			SALINOMETER
PH	WATER	SPECIFIC ION ELECTRODE	PH UNITS	230	OBS			
PHOSPHORUS	WATER	SPECTROPHOTOMETRY	MG-AT/L	234	OBS			
PHOSPHORUS	SUSPENDED	SPECTROPHOTOMETRY	MG-AT/L	234	OBS			
ORGANIC PHOSPHORUS	DISSOLVED	SPECTROPHOTOMETRY	MG-AT/L	234	OBS			
INORGANIC PHOSPHORUS	DISSOLVED	SPECTROPHOTOMETRY	MG-AT/L	234	OBS			

THE SEASONAL AND SPATIAL DISTRIBUTION OF NITRATE AND NITRITE IN THE SURFACE WATERS OF TWO DELAWARE SALT MARSHES

DATA COLLECTED: JULY 1966 TO DECEMBER 1967

RECEIVED: NOVEMBER 20, 1975

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, U.S., COASTAL, DELAWARE BAY, CANARY CREEK, MURDERKILL RIVER

ABSTRACT:
THE DISTRIBUTION OF NITRATE AND NITRITE IN TWO AREAS OF DELAWARE SALT MARSH WAS STUDIED. SEASONAL VARIATIONS IN NITRATE WERE OBSERVED WITH MAXIMUM VALUES IN THE WINTER AND MINIMUM VALUES IN THE SUMMER. NITRITE APPEARED TO SHOW A SHORT PERIOD OF MAXIMUM CONCENTRATIONS IN THE FALL; WITH MINIMUM CONCENTRATIONS OCCURRING DURING THE SUMMER.

DATA AVAILABILITY:

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS
141 PAGES

FUNDING:
DELAWARE BOARD OF GAME AND FISH COMMISSIONERS-PITTMEN-ROBERTSON

INVENTORY:

PUBLICATIONS:
DATA IS INCLUDED IN UNPUBLISHED M.S. THESIS, 1968 BY DON AURAND OF THE UNIVERSITY OF DELAWARE

CONTACT:
JOHN C. BRYSON 302 678 4403
DELAWARE DEPARTMENT OF NATURAL RESOURCES AND ENVIRONMENTAL CONTROL
DOVER DELAWARE USA 19901

GRID LOCATOR (LAT):
7307854170 7307950235

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	DM	16	STATIONS			
TIME	EARTH	STATION TIME	YMD	136	OBS			
NITRATE	WATER	SPECTROPHOTOMETRY	UG-AT/L	1070	OBS		SURFACE	HIGH AND LOW WATER
NITRITE	WATER	SPECTROPHOTOMETRY	UG-AT/L	1070	OBS		SURFACE	HIGH AND LOW WATER
SALINITY	WATER	CONDUCTIVITY	PARTS PER THOUSAND	792	OBS		SURFACE	HIGH AND LOW WATER
PH	WATER	PH METER	GRAMS PER LITER	1070	OBS		SURFACE	HIGH AND LOW WATER
PH	WATER	SPECIFIC ION ELECTRODE	GRAMS PER LITER	1070	OBS		SURFACE	PH METHOD CHANGE 196706

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
TEMPERATURE	WATER	REVERSING THERMOMETER	DEG C	1070 OBS		SURFACE	HIGH AND LOW WATER
TEMPERATURE	AIR	MERCURY THERMOMETER	DEG C	270 OBS		SURFACE	HIGH AND LOW WATER
NITRATE	WATER	COLORIMETRY	UG-AT/L	1070 OBS		SURFACE	HIGH AND LOW WATER
NITRITE	WATER	COLORIMETRY	UG-AT/L	1070 OBS		SURFACE	HIGH AND LOW WATER

ALGAL PRODUCTIVITY AND SOME ASPECTS OF THE ECOLOGICAL PHYSIOLOGY OF THE EDAPHIC COMMUNITIES OF CANARY CREEK TIDAL MARSH

DATA COLLECTED: JULY 19 9 TO JUNE 1970

RECEIVED: NOVEMBER 20, 1975

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, U.S., COASTAL, DELAWARE BAY, CANARY CREEK

ABSTRACT:
GROSS ALGAL PRIMARY PRODUCTIVITY AND EDAPHIC COMMUNITY RESPIRATION ESTIMATES WERE MADE FOR FIVE AREAS OF CANARY CREEK TIDAL MARSH NEAR LEWES, DELAWARE. OXYGEN CHANGES IN WATER OVERLYING CORES OF THE MARSH INCUBATED IN THE LABORATORY WERE USED AS THE INDICATION OF METABOLIC ACTIVITY. ENVIRONMENTAL FACTORS OF LIGHT, TEMPERATURE, SALINITY, PH, NUTRIENT CONTENT OF SURFACE WATER AND THE NITROGEN AND PHOSPHOROUS CONTENT OF THE GRASS WERE MEASURED.

DATA AVAILABILITY:

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS
120 PAGES

FUNDING:
STATE OF DELAWARE, DIVISION OF FISH AND WILDLIFE

INVENTORY:

PUBLICATIONS:
DATA ALSO INCLUDED IN UNPUBLISHED M.S. THESIS, 1971, BY JOHN L. GALLAGHER OF THE UNIVERSITY OF DELAWARE

CONTACT:
CHARLES LESSER 302 678 4431
DELAWARE DIVISION OF FISH AND WILDLIFE
DOVER DELAWARE USA 19901

GRID LOCATOR (LAT):
730795

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	DEGREES	5	STATIONS			
TIME	EARTH	STATION TIME	YM	15	OBS	MONTHLY		
LIGHT INTENSITY	AIR	UNKNOWN	LANGLEYS/DAY	15	OBS		SOIL SURFACE	LIGHT METER
TEMPERATURE	LAND	MERCURY THERMOMETER	DEG C	15	OBS		3 CM ABOVE SURFACE TO 2 CM BELOW	
TEMPERATURE	AIR	MERCURY THERMOMETER	DEG C	15	OBS		ONE AND TWO-TENTHS M ABOVE MARSH SURFACE	
SALINITY	WATER	INDEX OF	PPT	15	OBS		SURFACE WATER	

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
PH	WATER	REFRACTION SPECIFIC ION ELECTRODE	PH UNITS	15	OBS		SURFACE WATER	
PH	LAND	SPECIFIC ION ELECTRODE	PH UNITS	15	OBS		SOIL SURFACE	
NITRITE	WATER	COLORIMETRY	UG-AT/L	15	OBS		SURFACE WATER	
NITRATE	WATER	COLORIMETRY	UG-AT/L	15	OBS		SURFACE WATER	
ORTHOPHOSPHATE	WATER	COLORIMETRY	UG-AT/L	15	OBS		SURFACE WATER	
PHOSPHORUS	WATER	COLORIMETRY	UG-AT/L	15	OBS		SURFACE WATER	
CHLOROPHYLL A	WATER	SPECTROPHOTOMETRY	UG-AT/L	15	OBS		SURFACE WATER	
LENGTH OF BENTHIC PLANTS	LAND	DIRECT	M	15	OBS		SOIL SURFACE	PLANT MEASURED WAS SPARTINA (A MARSH GRASS)
DISSOLVED OXYGEN GAS	WATER	TITRATION	ML/L	15	OBS		SURFACE WATER	
SPECIES DETERMINATION OF BENTHIC ANIMALS	BOTTOM	KEY		15	OBS			PLANT MEASURED WAS SPARTINA (A MARSH GRASS)

DATA COLLECTED: 1949 TO PRESENT

RECEIVED: MARCH 10, 1975

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, DELAWARE BAY, MARCUS HOOK PENNSYLVANIA TO UBRLINGTON, NEW JERSEY

ABSTRACT:
SINCE 1949 THE PHILADELPHIA WATER DEPARTMENT AND THE USGS HAVE CONDUCTED A MONTHLY SURVEY OF THE WATER QUALITY OF THE DELAWARE ESTUARY. SAMPLING IS CROSS-SECTIONAL AT EIGHT POINTS BETWEEN MARCUS HOOK, PA, AND BURLINGTON, NJ. AT EACH POINT, SAMPLES ARE TAKEN THREE FEET BELOW THE SURFACE AND THREE FEET ABOVE THE BOTTOM AT EACH SHORE, MID CHANNEL, AND MIDWAY BETWEEN EACH SHORE AND MID CHANNEL. THE DATA DEMONSTRATE HORIZONTAL STRATIFICATION OF THE ESTUARY AS WELL AS VERTICAL HOMOGENEITY. PARAMETERS MEASURED INCLUDE: TIME, TEMPERATURE, PH, SPECIFIC CONDUCTIVITY, DISSOLVED OXYGEN, BOD, CHLORIDE, AND SUSPENDED SEDIMENT (DATA WILL BE ASSEMBLED IN REPORT AND ADDED TO STORET IN EARLY 1976)

DATA AVAILABILITY:
ALSO FROM U.S.G.S. REGIONAL OFFICE U.S. CUSTOMS HOUSE, PHILADELPHIA, PA 19106

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
DATA SHEETS
7-PAGE SUMMARY, SEVERAL HUNDRED DATA SHEETS NOT YET ASSEMBLED IN REPORT

FUNDING:
PHILADELPHIA WATER DEPT; US GEOLOGICAL SURVEY

INVENTORY:

PUBLICATIONS:

CONTACT:
DENNIS D. BLAIR 215 686 1776
PHILADELPHIA WATER DEPT
1270 MSB 15TH AND JFK BLVD
PHILADELPHIA PENNSYLVANIA USA 19107

GRID LOCATOR (LAT):
73079542 73079550 73079551 73079552 74070500 74070405

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MILES TO TENTHS	2400	STATIONS	8 STATIONS/ MONTH		
TIME	EARTH	SAMPLING TIME	YMDHM	12000	OBS	40 POINTS/ MONTH		FIVE POINTS/ STATION, EIGHT STATIONS VISITED MONTHLY
TEMPERATURE	WATER	THERMISTOR	DEGREES TO	24000	OBS	40 POINTS/	3 FT BELOW	

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
			TENTHS			MONTH	SURFACE AND 3 FT ABOVE BOTTOM	
PH	WATER	PH METER	PH UNITS	24000	OBS	40 POINTS/ MONTH	3 FT BELOW SURFACE AND 3 FT ABOVE BOTTOM	
ELECTRICAL CONDUCTIVITY	WATER	IN SITU CONDUCTIVITY CELL	MICROMHOS	24000	OBS	40 POINTS/ MONTH	3 FT BELOW SURFACE AND 3 FT ABOVE BOTTOM	
DISSOLVED OXYGEN GAS	WATER	SPECIFIC ION ELECTRODE	MG/L	24000	OBS	40 POINTS/ MONTH	3 FT BELOW SURFACE AND 3 FT ABOVE BOTTOM	
BIOCHEMICAL OXYGEN DEMAND	WATER	TITRATION	MG/L	24000	OBS	40 POINTS/ MONTH	3 FT BELOW SURFACE AND 3 FT ABOVE BOTTOM	INCUBATION
CHLORIDE	WATER	TITRATION	MG/L	24000	OBS	40 POINTS/ MONTH	3 FT BELOW SURFACE AND 3 FT ABOVE BOTTOM	
PARTICULATE MATTER	WATER	MEMBRANE FILTRATION	MG/L	24000	OBS	40 POINTS/ MONTH	3 FT BELOW SURFACE AND 3 FT ABOVE BOTTOM	

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, DELAWARE BAY, LOWER BAY ESTUARINE REGION, MARCUS HOOK PENNSYLVANIA TO TRENTON, NEW JERSEY

ABSTRACT:
SINCE JULY 9, 1962, THE WATER DEPARTMENT HAS CONDUCTED A WEEKLY SURVEY BY BOAT OF THE QUALITY OF THE ESTUARINE WATERS OF THE DELAWARE RIVER FROM MARCUS HOOK, PA, TO TRENTON, NJ. THE PROGRAM CONSISTS OF A WEEKLY COLLECTION OF GRAB SAMPLES FROM THE CENTER OF THE NAVIGATION CHANNEL AT EACH OF 23 STATIONS. EACH LOCATION IS FIXED BY THE PILOT OF THE BOAT BY REFERENCE TO BUOYS, RANGE LIGHTS, AND OTHER NAVIGATION AIDS. ANALYSES INCLUDE: MERCURY, ALUMINUM, TEMPERATURE, PH, ALKALINITY, TURBIDITY, DISSOLVED OXYGEN, BOD, COD, SPECIFIC CONDUCTANCE, CHLORIDES, ORTHO-AND POLY-PHOSPHATES, AMMONIA, NITRATE, NITRITE, PHENOLS, METHYLENE BLUE ACTIVE SUBSTANCES, CYANIDE, TOTAL COLIFORMS, FECAL COLIFORMS AND STREPTOCOCCI, ZINC, CALCIUM, MAGNESIUM, IRON, NICKEL, CADMIUM, COPPER, CHROMIUM, ARSENIC, MANGANESE, LEAD, AND BERYLLIUM.
(DATA FROM 1965 TO 1972 IS AVAILABLE IN STORET. ACCESS: A=PHILADPT)

DATA AVAILABILITY:
WITH PERMISSION OF WATER COMMISSIONER, OR ON IBM CARDS AT COST OF REPRODUCTION

PLATFORM TYPES:
SHIP

ARCHIVE MEDIA:
REPORTS; DATA SHEETS
500 PAGE REPORT OR 9 PAGE SUMMARY

FUNDING:
PHILADELPHIA WATER DEPT

INVENTORY:

PUBLICATIONS:

CONTACT:
DENNIS D. BLAIR 215 686 1776
PHILADELPHIA WATER DEPT., RESEARCH AND DEVELOPMENT DIV.
1270 MSB 15TH AND JFK BLVD
PHILADELPHIA PENNSYLVANIA USA 19107

GRID LOCATOR (LAT):
7307954285 7307950058 7307950078 7307950084 7307950085 7307950086 7307950093 7307951005 7307950120 7307950200 7407040478
7407040485 7407040528 7407040523 7407040544 7407040546 7407040551 7407001415 7407001436 7407050002 7407050003 7407050011

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	DMS	23 STATIONS	1 STATION/WK		ACCURACY WITHIN 200 FT
TIME	EARTH	STATION TIME		23 STATIONS	1 STATION/WK		
TIDAL PHASE	WATER	TABLES		23 STATIONS	1 STATION/WK		
TEMPERATURE	WATER	THERMISTOR	DEG C	23 STATIONS	1 STATION/WK	SLIGHTLY BELOW	

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
PH	WATER	PH METER	STANDARD PH UNITS	23 STATIONS	1 STATION/WK	SURFACE SLIGHTLY BELOW SURFACE	
TOTAL ALKALINITY	WATER	TITRATION	MG/L AS CACO3	23 STATIONS	1 STATION/WK	SURFACE SLIGHTLY BELOW SURFACE	
LIGHT SCATTERING COEFFICIENT	WATER	MULTISPECTRAL SCANNER	JACKSON TURBIDITY UNITS	23 STATIONS	1 STATION/WK	SURFACE SLIGHTLY BELOW SURFACE	
ELECTRICAL CONDUCTIVITY	WATER	IN SITU CONDUCTIVITY CELL/TEMPERATURE CORRECTED	MICROMHOS PER CM AT 25 DEG C	23 STATIONS	1 STATION/WK	SURFACE SLIGHTLY BELOW SURFACE	
SURFACTANTS	WATER	COLORIMETRY	MG/L	23 STATIONS	1 STATION/WK	SURFACE SLIGHTLY BELOW SURFACE	
CHEMICAL OXYGEN DEMAND	WATER	TITRATION	MG/L	23 STATIONS	1 STATION/WK	SURFACE SLIGHTLY BELOW SURFACE	
BIOCHEMICAL OXYGEN DEMAND	WATER	SPECIFIC ION ELECTRODE	MG/L	23 STATIONS	1 STATION/WK	SURFACE SLIGHTLY BELOW SURFACE	
COUNT OF MICROBIOTA	WATER	FILTRATION	COLONIES PER 100 MG	23 STATIONS	1 STATION/WK	SURFACE SLIGHTLY BELOW SURFACE	REPORTED AS TOTAL COLIFORMS FECAL COLIFOMS, AND FECAL STREPTOCOCCI
DISSOLVED OXYGEN GAS	WATER	TITRATION	MG/L	23 STATIONS	1 STATION/WK	SURFACE SLIGHTLY BELOW SURFACE	
MERCURY	WATER	ATOMIC ABSORPTION SPECTROMETRY	MG/L	23 STATIONS	1 STATION/WK	SURFACE SLIGHTLY BELOW SURFACE	
ALUMINUM	WATER	SPECTROPHOTOMETRY	MG/L	23 STATIONS	1 STATION/WK	SURFACE SLIGHTLY BELOW SURFACE	
CHLORIDE	WATER	AUTOANALYZER	MG/L	23 STATIONS	1 STATION/WK	SURFACE SLIGHTLY BELOW SURFACE	
ORTHOPHOSPHATE	WATER	AUTOANALYZER	MG/L AS PO4	23 STATIONS	1 STATION/WK	SURFACE SLIGHTLY BELOW SURFACE	
UNREACTIVE PHOSPHATE	WATER	AUTOANALYZER	MG/L AS PO4	23 STATIONS	1 STATION/WK	SURFACE SLIGHTLY BELOW SURFACE	
AMMONIA	WATER	SPECIFIC ION ELECTRODE	MG/L AS N	23 STATIONS	1 STATION/WK	SURFACE SLIGHTLY BELOW SURFACE	
NITRATE	WATER	AUTOANALYZER	MG/L AS N	23 STATIONS	1 STATION/WK	SURFACE SLIGHTLY BELOW SURFACE	

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
NITRITE	WATER	AUTOANALYZER	MG/L AS N	23 STATIONS	1 STATION/WK	SLIGHTLY BELOW SURFACE	
PHENOLS	WATER	SPECTROPHOTOMETRY	MG/L	23 STATIONS	1 STATION/WK	SLIGHTLY BELOW SURFACE	
ARSENIC	WATER	SPECTROPHOTOMETRY	MG/L	23 STATIONS	1 STATION/WK	SLIGHTLY BELOW SURFACE	
BERYLLIUM	WATER	ATOMIC ABSORPTION SPECTROMETRY	MG/L	23 STATIONS	1 STATION/WK	SLIGHTLY BELOW SURFACE	
CALCIUM	WATER	SPECTROPHOTOMETRY	MG/L	23 STATIONS	1 STATION/WK	SLIGHTLY BELOW SURFACE	
CADMIUM	WATER	SPECTROPHOTOMETRY	MG/L	23 STATIONS	1 STATION/WK	SLIGHTLY BELOW SURFACE	
COPPER	WATER	SPECTROPHOTOMETRY	MG/L	23 STATIONS	1 STATION/WK	SLIGHTLY BELOW SURFACE	
CHROMIUM	WATER	SPECTROPHOTOMETRY	MG/L	23 STATIONS	1 STATION/WK	SLIGHTLY BELOW SURFACE	
IRON	WATER	SPECTROPHOTOMETRY	MG/L	23 STATIONS	1 STATION/WK	SLIGHTLY BELOW SURFACE	
LEAD	WATER	SPECTROPHOTOMETRY	MG/L	23 STATIONS	1 STATION/WK	SLIGHTLY BELOW SURFACE	
MAGNESIUM	WATER	SPECTROPHOTOMETRY	MG/L	23 STATIONS	1 STATION/WK	SLIGHTLY BELOW SURFACE	
MANGANESE	WATER	SPECTROPHOTOMETRY	MG/L	23 STATIONS	1 STATION/WK	SLIGHTLY BELOW SURFACE	
NICKEL	WATER	SPECTROPHOTOMETRY	MG/L	23 STATIONS	1 STATION/WK	SLIGHTLY BELOW SURFACE	
ZINC	WATER	SPECTROPHOTOMETRY	MG/L	23 STATIONS	1 STATION/WK	SLIGHTLY BELOW SURFACE	
CYANIDE	WATER	COLORIMETRY	MG/L	23 STATIONS	1 STATION/WK	SLIGHTLY BELOW SURFACE	

DATA COLLECTED: 1957 TO 1972 RECEIVED: MARCH 27, 1975

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH AMERICA, U.S., NEW JERSEY, GLOUCESTER COUNTY, COASTAL

ABSTRACT:
THIS REPORT IS AN ENVIRONMENAL IMPACT STATEMENT DISCUSSING THE SITE FOR A POTENTIAL HOUSING DEVELOPMENT. IT INCLUDES A COMPLETE REPORT ON SOIL CHARACTERISTICS AND SUITABILITY FOR VARIOUS PURPOSES, CLIMATIC, WATER QUALITY, HYDROLOGIC, GEOLOGIC, FAUNAL AND FLORAL DATA. IT HAS IN ADDITION AN EXTENSIVE BIBLIOGRAPHY. WATER ANALYSES WERE DONE BY AN INDEPENTENT LAB AND METHODS WERE NOT REPORTED.

DATA AVAILABILITY:
AT COST OF REPRODUCTION

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS
APPROX 400 PAGE REPORT

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
DR. JAMES A. SCHMID 215 647 3110
JACK MCCORMICK AND ASSOCIATES
860 WATERLOO RD.
DEVON PENNSYLVANIA USA 19333

GRID LOCATOR (LAT):
730795

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
SOIL TYPE	LAND	VISUAL		69	OBS	CONTINUOUS		MAP INCLUDED
SLOPE	LAND	DIRECT	PER CENT	69	OBS	ONE PER SOIL UNIT	NEAR SURFACE	
DEPTH	LAND	DIRECT	CM	69	OBS	ONE PER SOIL UNIT	NEAR SURFACE	
SIZE ANALYSIS	LAND	VISUAL		69	OBS	ONE PER SOIL UNIT	NEAR SURFACE	
ORGANIC CARBON	LAND	UNKNOWN	PER CENT	69	OBS	ONE PER SOIL UNIT	NEAR SURFACE	
WATER CONTENT	LAND	GRAVIMETRY	INCHES WATER/ INCH SOIL	69	OBS	ONE PER SOIL UNIT	NEAR SURFACE	
COMPRESSIBILITY	LAND	UNKNOWN		69	OBS	ONE PER SOIL	NEAR SURFACE	

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
PERMEABILITY	LAND	VISUAL	INCHES WATER/ HOUR	69	OBS	UNIT ONE PER SOIL UNIT	NEAR SURFACE	
DEPOSITION	LAND	VISUAL		69	OBS	UNIT ONE PER SOIL UNIT	NEAR SURFACE	
SPECIES DETERMINATION OF BIRDS	AIR	KEY		18	OBS			3 OBS IN EACH OF 6 ENVIRONMENTS
SPECIES DETERMINATION OF MAMMALS	LAND	KEY		1	OBS			42 SPECIES, INCLUDES BATS
SPECIES DETERMINATION OF AMPHIBIANS	WATER	KEY		1	OBS			
SPECIES DETERMINATION OF REPTILES	LAND	KEY		1	OBS			
SPECIES DETERMINATION OF REPTILES	WATER	KEY		1	OBS			
SPECIES DETERMINATION OF LAND PLANTS	LAND	KEY		1	OBS			
CHLORINE	WATER	UNKNOWN	PPM	504	STATIONS	18 STA TWICE/ YEAR		GROUNDWATER
PH	INTERSTITIAL	UNKNOWN	PH UNITS	504	STATIONS	18 STA TWICE/ YEAR		GROUNDWATER
IRON	INTERSTITIAL	UNKNOWN	PPM	504	STATIONS	18 STA TWICE/ YEAR		GROUNDWATER
FLUORINE	SEDIMENT	UNKNOWN	PPM	504	STATIONS	18 STA TWICE/ YEAR		GROUNDWATER
NITRATE	SEDIMENT	UNKNOWN	PPM	504	STATIONS	18 STA TWICE/ YEAR		GROUNDWATER
CALCIUM	SEDIMENT	UNKNOWN	PPM	504	STATIONS	18 STA TWICE/ YEAR		GROUNDWATER
HARDNESS	WATER	UNKNOWN	PPM	504	STATIONS	18 STA TWICE/ YEAR		GROUNDWATER
TOTAL SOLIDS	SEDIMENT	UNKNOWN	PPM	504	STATIONS	18 STA TWICE/ YEAR		GROUNDWATER
PH	WATER	UNKNOWN	PPM	90	STATIONS	ONCE ONLY		
HARDNESS	WATER	UNKNOWN	PPM	90	STATIONS	ONCE ONLY		
CHLORINE	WATER	UNKNOWN	PPM	90	STATIONS	ONCE ONLY		
DISSOLVED OXYGEN GAS	WATER	UNKNOWN	PPM	90	STATIONS	ONCE ONLY		
TOTAL ALKALINITY	WATER	TITRATION	PPM	90	STATIONS	ONCE ONLY		
COUNT OF MICROBIOTA	WATER	UNKNOWN	APPROXIMATE NUMBER PER VOLUME	90	STATIONS	ONCE ONLY		

DATA COLLECTED: JANUARY 1970 TO JULY 1971 RECEIVED: JUNE 21, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH AMERICA, U.S. COASTAL, DELAWARE RIVER, PENNSYLVANIA, DELAWARE COUNTY, LITTLE TINICUM ISLAND

ABSTRACT:
THIS STUDY WAS A BASIC ECOLOGICAL INVENTORY OF LITTLE TINICUM ISLAND AND VICINITY INCLUDING WATER CHEMISTRY AND BIOLOGICAL SURVEY INFORMATION FROM THE ISLAND AND DELAWARE RIVER NEARBY. THE DATA, TAKEN IN 1970 AND 1971, INCLUDES WATER TEMPERATURE, PH, BOD, CHLORIDE, ORTHOPHOSPHATE, ORGANIC PHOSPHATE.
(THIS REPORT WAS PREPARED FOR THE PHILADELPHIA DISTRICT OF THE US ARMYCORPS OF ENGINEERS)

DATA AVAILABILITY:
AVAILABLE AT THE OFFICES OF JACK MCCORMICK AND ASSOCIATES IN BERWYN, PENNSYLVANIA

PLATFORM TYPES:
FIXED STATION; AIRCRAFT

ARCHIVE MEDIA:
REPORTS; CHARTS
1 MAP AND 78 PAGES

FUNDING:
US DEPPARTMENT OF DEFENSE, US ARMY NO. DACW61-71-C-0287

INVENTORY:

PUBLICATIONS:

CONTACT:
JACK MC CORMICK 215 647 9000
JACK MC CORMICK AND ASSOCIATES
511 OLD LANCASTER ROAD
BERWYN PENNSYLVANIA USA 19312

GRID LOCATOR (LAT):
7307952500

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATIONS	1	STATIONS	1/SEASON		WATER CHEMISTRY STATION LOCATED IN DELAWARE RIVER NEAR LITTLE TIMCUM ISLAND
TIME	EARTH	STATION TIME	YMD	4	OBS	1/SEASON		4 SEASONS WORTH DATA
TEMPERATURE	WATER	NON-REVERSING THERMOMETER	DEG C	4	OBS	1/SEASON	TOP OF WATER COLUMN	

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PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
PH	WATER	PH METER	PH UNITS	4	OBS	1/SEASON	TOP OF WATER COLUMN	
CHLORIDE	WATER	TITRATION	PPM	4	OBS	1/SEASON	TOP OF WATER COLUMN	
BIOCHEMICAL OXYGEN DEMAND	WATER	TITRATION	PPM	4	OBS	1/SEASON	TOP OF WATER COLUMN	
NITRATE	WATER	SPECTROPHOTOMETRY	PPM	4	OBS	1/SEASON	TOP OF WATER COLUMN	
NITRITE	WATER	SPECTROPHOTOMETRY	PPM	4	OBS	1/SEASON	TOP OF WATER COLUMN	
ORGANIC PHOSPHORUS	WATER	SPECTROPHOTOMETRY	PPM	4	OBS	1/SEASON	TOP OF WATER COLUMN	
ORTHOPHOSPHATE	WATER	SPECTROPHOTOMETRY	PPM	4	OBS	1/SEASON	TOP OF WATER COLUMN	
COUNT OF MICROBIOTA	WATER	VISUAL	COLONIES/100 ML	8	OBS	2/STATION/ SEASON	TOP OF WATER COLUMN	FECAL AND TOTAL COLIFORM COUNTED FOR EACH SAMPLING
LAND USE	LAND	AERIAL PHOTOGRAPHY	ACRES/VEGETATION TYPE	1	STATIONS		LAND SURFACE	
TAXONOMIC LIST OF LAND PLANTS	LAND	KEY	QUALITATIVE TERMS	1	STATIONS		LAND SURFACE	
TAXONOMIC LIST OF BIRDS	AIR	KEY	QUALITATIVE TERMS	1	STATIONS		LAND TO AIR	SIGHTINGS OF BIRDS INDICATED BY LISTING OF SPECIES OBSERVED
COUNT OF PELAGIC FISH	WATER	VISUAL	NUMBER/SPECIES	1	OBS		WATER COLUMN	FISH SAMPLING AT SINGLE DELAWARE RIVER STATION NEAR LITTLE TINICUM ISLAND
SPECIES DETERMINATION OF PELAGIC FISH	WATER	KEY	NUMBER/SPECIES	1	OBS		WATER COLUMN	FISH SAMPLING AT SINGLE DELAWARE RIVER STATION NEAR LITTLE TINICUM ISLAND

DATA COLLECTED: FEBRUARY 1973 TO FEBRUARY 1973

RECEIVED: OCTOBER 19, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH AMERICA, U.S., MARYLAND, SOUTH RIVER AND SEVERN RIVER

ABSTRACT:
MISSION W189, FLIGHT 01, WAS ACCOMPLISHED ON FEBRUARY 22, 1973, UTILIZING THE WALLOPS FLIGHT CENTER C-54 AIRCRAFT EQUIPPED WITH A T-11 AERIAL MAPPING CAMERA IN COOPERATION WITH THE NASA LANGLEY RESEARCH CENTER FOR THE ENVIRONMENTAL PROTECTION AGENCY. THE OBJECTIVE OF THE FLIGHT WAS TO OBTAIN LARGE SCALE INFRARED PHOTOGRAPHIC IMAGERY OF THE CHESAPEAKE BAY AT THE JUNCTION OF THE BAY AND THE MOUTH OF THE SOUTH AND SEVERN RIVERS FOR SEWAGE OUTFALL DETECTION AND EUTROPHICATION STUDIES. (MISSION W189, FLIGHT 01)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
230, 9"X9" PRINTS

FUNDING:
NATIONAL AERONAUTICS AND SPACE ADM

INVENTORY:

PUBLICATIONS:

CONTACT:
MICHAEL CONGER 804 824 3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
73078634 730786 730796

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	LONGITUDE AND LATITUDE	7	STATIONS			
TIME	EARTH	STATION TIME	YMD	7	OBS	1 FLIGHT PER LINE		
PHOTOGRAPH	EARTH	IR CAMERA FROM AIRCRAFT	PRINTS	7	OBS	1 FLIGHT PER LINE	700, 800, 1000, 3960, 10,000 FEET	152 AND FOUR-TENTHS MM FOCAL LENGTH

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PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH AMERICA, U.S., COASTAL, NEW JERSEY, GLOUCESTER COUNTY, WOODBURY CREEK, HESSIAN RUN

ABSTRACT:
THIS STUDY DONE TO EVALUATE WOODBURY CREEK MARSHES AS THEY EXIST TO DETERMINE POTENTIAL IMPACTS DUE TO A PROPOSED ROUT2 I-295 INTERSECTION. INCLUDED IN THIS EXISTING CONDITIONS STUDY WERE DATA ON BASIC VEGETATION, ANIMAL COMMUNITIES, PRODUCTIVITY, AND WATER QUALITY CHEMISTRY.
(THIS REPORT WAS PREPARED FOR NEW JERSEY TRANSPORTATION DEPARTMENT)

DATA AVAILABILITY:
AVAILABLE THROUGH RUTGERS MARINE SCIENCE CENTER NEW BRUNSWICK, NEW JERSEY AS TECHNICAL REPORT 75-2

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS
105 PAGES

FUNDING:
STATE OF NEW JERSEY, DEPARTMENT OF TRANSPORTATION

INVENTORY:

PUBLICATIONS:

CONTACT:
RALPH GOOD 609 757 6146
RUTGERS UNIVERSITY
BIOLOGY DEPARTMENT
CAMDEN NEW JERSEY USA 08102

GRID LOCATOR (LAT):
7307955100

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP POSITIONS	8	STATIONS		LAND SURFACE TO WATER COLUMN	
TIME	EARTH	STATION TIME	YMD	8	STATIONS	MONTHLY OR BIMONTHLY	LAND SURFACE TO WATER COLUMN	
TEMPERATURE	WATER	NON-REVERSING THERMOMETER	DEG C	48	OBS	MONTHLY		
DISSOLVED OXYGEN GAS	WATER	TITRATION	MG/L	48	OBS	MONTHLY		
TOTAL SOLIDS	SUSPENDED	DRY WEIGHT	MG/L	48	OBS	MONTHLY		

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PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
TOTAL DISSOLVED SOLIDS	DISSOLVED	DRY WEIGHT	MG/L	48	OBS	MONTHLY		
PHOSPHATE	WATER	SPECTROPHOTOMETRY	MG/L	48	OBS	MONTHLY		
KJELDAHL NITROGEN	WATER	SPECTROPHOTOMETRY	MG/L	48	OBS	MONTHLY		
COUNT OF PHYTOPLANKTON	WATER	COUNTING CHAMBER	NUMBER/SPECIES	48	OBS	MONTHLY		
SPECIES DETERMINATION OF PHYTOPLANKTON	WATER	KEY	NUMBER/SPECIES	48	OBS	MONTHLY		
COUNT OF MICROBIOTA	WATER	VISUAL	COLONIES/100 ML	48	OBS	MONTHLY		
COUNT OF BIRDS	AIR	VISUAL		24	OBS	BIMONTHLY		
SPECIES DETERMINATION OF BIRDS	AIR	KEY		24	OBS	BIMONTHLY		
COUNT OF PELAGIC FISH	WATER	VISUAL		24	OBS	BIMONTHLY		
SPECIES DETERMINATION OF PELAGIC FISH	WATER	KEY		24	OBS	BIMONTHLY		
COUNT OF MAMMALS	LAND	VISUAL		24	OBS	BIMONTHLY		
COUNT OF REPTILES	LAND	VISUAL		24	OBS	BIMONTHLY		
COUNT OF AMPHIBIANS	WATER	VISUAL		24	OBS	BIMONTHLY		
SPECIES DETERMINATION OF MAMMALS	LAND	KEY		24	OBS	BIMONTHLY		
SPECIES DETERMINATION OF REPTILES	LAND	KEY		24	OBS	BIMONTHLY		
SPECIES DETERMINATION OF AMPHIBIANS	WATER	KEY		24	OBS	BIMONTHLY		

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH AMERICA, U.S., MARYLAND, ANNE ARUNDEL COUNTY, BOOKIN NECK AREA

ABSTRACT:
BIOLOGICAL, PHYSICAL, AND CHEMICAL PARAMETERS WERE COLLECTED FROM SEPTEMBER THROUGH DECEMBER, 1973 TO PRODUCE A DATA BASELINE FOR THE QUEEN ANNE'S HARBOR, BROOKIN NECK AREA, MARYLAND. PARAMETERS INCLUDE SPECIES COUNT OF PLANTS, ANIMALS, AND FISH, NUTRIENTS, TEMPERATURE, SALINITY, METALS, TURBIDITY, AND DISSOLVED SOLIDS AND GASES.
(PROJECT CARRIED OUT BY JACK MCCORMICK AND ADDOCIATES FOR STATE OF MARYLAND)

DATA AVAILABILITY:
AVAILABLE UPON REQUEST FROM JACK MCCORMICK AND ASSOCIATES OFFICE IN BERWYN, PENNSYLVANIA

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS
85 PAGES

FUNDING:
STATE OF MARYLAND, DEPARTMENT OF NATURAL RESURCES

INVENTORY:

PUBLICATIONS:

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GRID LOCATOR (LAT):
7307963100

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATIONS	13 STATIONS	1 SURVEY		
TIME	EARTH	STATION TIME	YMD	13 STATIONS	1 SURVEY		
TAXONOMIC LIST OF LAND PLANTS	LAND	KEY	QUALITATIVE	1 STATIONS	1 SURVEY		
COUNT OF BIRDS	AIR	VISUAL	QUALITATIVE	6 STATIONS	1 SURVEY		
SPECIES DETERMINATION OF BIRDS	AIR	KEY	QUALITATIVE	6 STATIONS	1 SURVEY		
COUNT OF AMPHIBIANS	WATER	VISUAL	QUALITATIVE	6 STATIONS	1 SURVEY		
SPECIES	WATER	KEY	QUALITATIVE	6 STATIONS	1 SURVEY		

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
DETERMINATION OF AMPHIBIANS SPECIES	LAND	KEY	QUALITATIVE	6	STATIONS	1 SURVEY		
DETERMINATION OF MAMMALS COUNT OF MAMMALS	LAND	VISUAL	QUALITATIVE	6	STATIONS	1 SURVEY		
TEMPERATURE	WATER	RESISTANCE THERMOMETER	DEG C	13	STATIONS	1 SURVEY		
SALINITY	WATER	CONDUCTIVITY	PARTS/THOUSAND	13	STATIONS	1 SURVEY		
ELECTRICAL CONDUCTIVITY	WATER	LAB CONDUCTIVITY CELL	MHOS/CENTIMETER	13	STATIONS	1 SURVEY		
PH	WATER	PH METER	PH UNITS	13	STATIONS	1 SURVEY		
DISSOLVED OXYGEN GAS	WATER	TITRATION	MILLIGRAM/LITER	13	STATIONS	1 SURVEY		
ORGANIC CARBON	WATER	AUTOANALYZER	MILLIGRAM/LITER	13	STATIONS	1 SURVEY		
KJELDAHL NITROGEN	WATER	SPECTROPHOTOMETRY	MILLIGRAM/LITER	13	STATIONS	1 SURVEY		
PHOSPHATE	WATER	SPECTROPHOTOMETRY	MILLIGRAM/LITER	13	STATIONS	1 SURVEY		
SULFATE	WATER	SPECTROPHOTOMETRY	MILLIGRAM/LITER	13	STATIONS	1 SURVEY		
SULFIDE	WATER	TITRATION	MILLIGRAM/LITER	13	STATIONS	1 SURVEY		
LIGHT ATTENUATION	WATER	COLORIMETRY	FTU	13	STATIONS	1 SURVEY		
COLOR	WATER	COLORIMETRY	PLATINUM-COBALT UNITS	39	OBS	3 OBS/STATION		
ZINC	WATER	ATOMIC ABSORPTION SPECTROMETRY	MILLIGRAM/LITER	39	OBS	3 OBS/STATION		
MERCURY	WATER	ATOMIC ABSORPTION SPECTROMETRY	MILLIGRAM/LITER	39	OBS	3 OBS/STATION		
COPPER	WATER	ATOMIC ABSORPTION SPECTROMETRY	MILLIGRAM/LITER	39	OBS	3 OBS/STATION		
IRON	WATER	ATOMIC ABSORPTION SPECTROMETRY	MILLIGRAM/LITER	39	OBS	3 OBS STATION		
LEAD	WATER	ATOMIC ABSORPTION SPECTROMETRY	MILLIGRAM/LITER	39	OBS	3 OBS/STATION		
KJELDAHL NITROGEN	SEDIMENT	SPECTROPHOTOMETRY	MILLIGRAM/LITER	39	OBS	3 OBS/STATION		
SULFIDE	SEDIMENT	TITRATION	MILLIGRAM/LITER	39	OBS	3 OBS, STATION		
PHOSPHATE	SEDIMENT	SPECTROPHOTOMETRY	MILLIGRAM/LITER	39	OBS	3 OBS, STATION		
CHEMICAL OXYGEN DEMAND	SEDIMENT	DIGESTION	MILLIGRAM/LITER	39	OBS	3 OBS/STATION		
OILS	SEDIMENT	EXTRACTION/ WEIGHT	MILLIGRAM/LITER	39	OBS	3 OBS/STATION		
ZINC	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	MILLIGRAM/LITER	39	OBS	3 OBS, STATION		
MERCURY	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	MILLIGRAM/LITER	39	OBS	3 OBS/STATION		
COPPER	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	MILLIGRAM/LITER	39	OBS	3 OBS/STATION		
IRON	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	MILLIGRAM/LITER	39	OBS	3 OBS/STATION		
LEAD	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	MILLIGRAM/LITER	39	OBS	3 OBS/STATION		

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
COUNT OF PELAGIC FISH	WATER	VISUAL	NUMBER/1000 SQUARE FOOT SEINE AREA	20	OBS	5 OBS/SURVEY		
SPECIES DETERMINATION OF PELAGIC FISH	WATER	KEY	NUMBER/1000 SQUARE FOOT SEINE AREA	20	OBS	5 OBS/SURVEY		
COUNT OF BENTHIC ANIMALS	BOTTOM	VISUAL	NUMBER/SQUARE FOOT	13	STATIONS	1 SURVEY		
SPECIES DETERMINATION OF BENTHIC ANIMALS	BOTTOM	KEY	NUMBER/SQUARE FOOT	13	STATIONS	1 SURVEY		
COUNT OF ZOOPLANKTON	WATER	VISUAL	NUMBER/CUBIC METER	3	OBS	1 SURVEY		
SPECIES DETERMINATION OF ZOOPLANKTON	WATER	KEY	NUMBER/CUBIC METER	3	OBS	1 SURVEY		
COUNT OF PHYTOPLANKTON	WATER	VISUAL	NUMBER/CUBIC METER	3	OBS	1 SURVEY		
SPECIES DETERMINATION OF PHYTOPLANKTON	WATER	KEY	NUMBER/CUBIC METER	3	OBS	1 SURVEY		
COUNT OF MICROBIOTA	WATER	VISUAL	NUMBER/100 MILLILITER	39	OBS	3 OBS/STATION		TOTAL BACTERIA; FECAL BACTERIA; TOTAL COLIFORM; TOTAL STREPTOCOCCI
TOTAL DISSOLVED SOLIDS	DISSOLVED	DESICCATION WEIGHT	MILLIGRAM/LITER	39	OBS	3 OBS/STATION		
PARTICULATE MATTER	WATER	MEMBRANE FILTRATION	MILLIGRAM/LITER	39	OBS	3 OBS/STATION		

DATA COLLECTED: FEBRUARY 1973 TO APRIL 1973

RECEIVED: AUGUST 12, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH AMERICA, U.S., NORTHWESTERN DELAWARE, RED CLAY CREEK

ABSTRACT:
PRESENTED IN REPORT FORM ARE DATA COLLECTED DURING A STUDY CONDUCTED IN 1973 ON THE RED CLAY CREEK, DELAWARE TO DETERMINE IF THE LARVAE OF A COMMON INSECT SPECIES, THE BLACKFLY SIMULIUM VITTATUM, COULD BE USED AS AN INDICATOR ORGANISM OF WATER QUALITY.

DATA AVAILABILITY:

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS
40 PAGES

FUNDING:

INVENTORY:

PUBLICATIONS:
ALI, S.H., 1974. SIMULIUM VITTATUM ZETTERSTEDT (DIPTERA: SIMULIIDAE) A POTENTIAL WATER QUALITY INDICATOR. MASTER'S THESIS, UNIVERSITY OF DELAWARE, 40 P.

CONTACT:
MORRIS LIBRARY 302 738 2455
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NEWARK DELAWARE USA 19711

GRID LOCATOR (LAT):
7307954481

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	6	STATIONS			RED CLAY CREEK
TIME	EARTH	STATION TIME	YMD	36	OBS			
COUNT OF INSECTS	LAND	VISUAL	MEAN NUMBER OF LARVAE PER BRICK PER OBS PER STATION	36	OBS	1 OBS PER 1-2 WEEKS		AQUATIC INSECTS
TEMPERATURE	WATER	RESISTANCE THERMOMETER	DEG C	36	OBS	1 OBS PER 1-2 WEEKS		
LIGHT ATTENUATION	WATER	SPECTROPHOTOMETRY	JACKSON TURBIDITY UNITS	36	OBS	1 OBS PER 1-2 WEEKS		
PH	WATER	PH METER	PH UNITS	36	OBS	1 OBS PER 1-2 WEEKS		

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
DISSOLVED OXYGEN GAS	WATER	SPECIFIC ION ELECTRODE	PARTS PER MILLION	36	OBS	1 OBS PER 1-2 WEEKS		
AMMONIA	WATER	TITRATION	PARTS PER MILLION	36	OBS	1 OBS PER 1-2 WEEKS		
NITRATE	WATER	TITRATION	PARTS PER MILLION	36	OBS	1 OBS PER 1-2 WEEKS		
ORTHOPHOSPHATE	WATER	COLORIMETRY	PARTS PER MILLION	36	OBS	1 OBS PER 1-2 WEEKS		
BIOCHEMICAL OXYGEN DEMAND	WATER	TITRATION	PARTS PER MILLION	36	OBS	1 OBS PER 1-2 WEEKS		
COUNT OF MICROBIOTA	WATER	FILTRATION	COLONIES PER 100 ML	36	OBS	1 OBS PER 1-2 WEEKS		
IRON	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	36	OBS	1 OBS PER 1-2 WEEKS		
ZINC	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	36	OBS	1 OBS PER 1-2 WEEKS		
COPPER	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	36	OBS	1 OBS PER 1-2 WEEKS		
SPECIES DETERMINATION OF INSECTS	LAND	KEY		36	OBS	1 OBS PER 1-2 WEEKS		AQUATIC INSECTS

RECEIVED: AUGUST 12, 1976

PROJECTS:
ENLARGEMENT OF THE CHESAPEAKE AND DELAWARE CANAL

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, COASTAL, U.S., DELMARVA PENINSULA, CHESAPEAKE AND DELAWARE CANAL

ABSTRACT:
DATA COLLECTED ON THE PLANKTONIC AND BENTHIC ORGANISMS FOUND IN THE CHESAPEAKE AND DELAWARE CANAL AND ADJACENT WATERS DURING THE 1974 ECOLOGICAL STUDY OF THE AQUATIC ENVIRONMENT IN THE VICINITY OF THE PROPOSED SUMMIT POWER STATION ARE PRESENTED IN REPORT FORM. SPECIES DETERMINATIONS AND DISTRIBUTIONS OF PHYTOPLANKTON, ZOOPLANKTON AND BENTHIC ORGANISMS ARE GIVEN IN ORDER TO OBTAIN INFORMATION ABOUT DAILY AND SEASONAL CHANGES IN POPULATION STRUCTURE. VITALITY STUDIES ON THE ZOOPLANKTON ARE INCLUDED. THE RESULTS OF A COMPREHENSIVE ANALYSIS OF THE PHYSICAL/CHEMICAL ENVIRONMENT IN THE CANAL WATERS DURING THE BIOLOGICAL SAMPLING PROGRAM ARE ALSO AVAILABLE. MEASURED PARAMETERS INCLUDE COLIFORM COUNTS, NUTRIENTS, PIGMENTS, HEAVY METALS, OIL AND GREASE, TEMPERATURE, SALINITY, DISSOLVED OXYGEN GAS, PH, TURBIDITY AND TRANSPARENCY, HARDNESS, TOTAL ALKALINITY, CARBONATE ALKALINITY, SULFATE, TOTAL DISSOLVED SOLIDS, SUSPENDED SOLIDS, TOTAL PHOSPHORUS, DISSOLVED PHOSPHORUS, NITRATE-NITROGEN, NITRITE-NITROGEN, AMMONIA, ORGANIC NITROGEN, MAGNESIUM, CALCIUM AND TOTAL SILICA.

DATA AVAILABILITY:
UPON PERMISSION FROM DELMARVA POWER AND LIGHT COMPANY

PLATFORM TYPES:
SHIP; FIXED STATION

ARCHIVE MEDIA:
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DELMARVA POWER AND LIGHT COMPANY

INVENTORY:

PUBLICATIONS:
INTERPRETIVE REPORT 1974 BY RAYTHEON COMPANY FOR UNITED ENGINEERS AND CONSTRUCTORS INC., CLIENT: DELMARVA POWER AND LIGHT COMPANY; COMPLETE REPORT OF RAW DATA IN ANNUAL DATA REPORT

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GRID LOCATOR (LAT):
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PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	7	STATIONS			
TIME	EARTH	STATION TIME	YMD	7	STATIONS			
TEMPERATURE	WATER	THERMISTOR	DEG F	686	OBS	BIWEEKLY TO MONTHLY	SURFACE, BOTTOM	1 SAMPLE PER OBS; 7 STATIONS; TAKEN WITH ALL BIOLOGICAL SAMPLINGS; JANUARY-DECEMBER
SALINITY	WATER	TITRATION	PPT	686	OBS	BIWEEKLY TO MONTHLY	SURFACE, BOTTOM	1 SAMPLE PER OBS; 7 STATIONS; TAKEN WITH ALL BIOLOGICAL SAMPLINGS; JANUARY-DECEMBER
DISSOLVED OXYGEN GAS	WATER	SPECIFIC ION ELECTRODE	MG/L	686	OBS	BIWEEKLY TO MONTHLY	SURFACE, BOTTOM	1 SAMPLE PER OBS; 7 STATIONS; TAKEN WITH ALL BIOLOGICAL SAMPLINGS; JANUARY-DECEMBER
PH	WATER	PH METER	PH UNITS	686	OBS	BIWEEKLY TO MONTHLY	SURFACE, BOTTOM	1 SAMPLE PER OBS; 7 STATIONS; TAKEN WITH ALL BIOLOGICAL SAMPLINGS; JANUARY-DECEMBER
LIGHT ATTENUATION	WATER	COLORIMETRY	PERCENT TRANSMITTANCE, JTU	686	OBS	BIWEEKLY TO MONTHLY	SURFACE, BOTTOM	1 SAMPLE PER OBS; 7 STATIONS; TAKEN WITH ALL BIOLOGICAL SAMPLINGS; JANUARY-DECEMBER
HARDNESS	WATER	EDTA TITRATION	MG/L	80	OBS	MONTHLY - JANUARY, FEBRUARY, NOVEMBER, DECEMBER, BIWEEKLY - MARCH-OCTOBER	SURFACE, BOTTOM	1 SAMPLE PER OBS; 2 STATIONS
TOTAL ALKALINITY	WATER	TITRATION	MG/L	80	OBS	MONTHLY - JANUARY, FEBRUARY, NOVEMBER,	SURFACE, BOTTOM	1 SAMPLE PER OBS; 2 STATIONS

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
						DECEMBER, BIWEEKLY - MARCH-OCTOBER		
CARBONATE ALKALINITY	WATER	TITRATION	MG/L	80	OBS	MONTHLY - JANUARY, FEBRUARY, NOVEMBER, DECEMBER, BIWEEKLY - MARCH-OCTOBER	SURFACE, BOTTOM	1 SAMPLE PER OBS: 2 STATIONS
SULFATE	WATER	NEPHELOMETRY	MG/L	80	OBS	MONTHLY - JANUARY, FEBRUARY, NOVEMBER, DECEMBER, BIWEEKLY - MARCH-OCTOBER	SURFACE, BOTTOM	1 SAMPLE PER OBS; 2 STATIONS
TOTAL DISSOLVED SOLIDS	DISSOLVED	DESICCATION WEIGHT	MG/L	80	OBS	MONTHLY - JANUARY, FEBRUARY, NOVEMBER, DECEMBER, BIWEEKLY - MARCH-OCTOBER	SURFACE, BOTTOM	1 SAMPLE PER OBS; 2 STATIONS
TOTAL SOLIDS	WATER	DRY WEIGHT	MG/L	80	OBS	MONTHLY - JANUARY, FEBRUARY, NOVEMBER, DECEMBER, BIWEEKLY - MARCH-OCTOBER	SURFACE, BOTTOM	1 SAMPLE PER OBS; 2 STATIONS
PHOSPHORUS	WATER	COLORIMETRY	MG/L	80	OBS	MONTHLY - JANUARY, FEBRUARY, NOVEMBER, DECEMBER, BIWEEKLY - MARCH-OCTOBER	SURFACE, BOTTOM	1 SAMPLE PER OBS: 2 STATIONS
PHOSPHORUS	DISSOLVED	COLORIMETRY	MG/L	80	OBS	MONTHLY - JANUARY, FEBRUARY, NOVEMBER, DECEMBER, BIWEEKLY - MARCH-OCTOBER	SURFACE, BOTTOM	1 SAMPLE PER OBS: 2 STATIONS
[illegible]	[illegible]	TITRATION	MG/L	80	OBS	MONTHLY -	SURFACE,	1 SAMPLE PER

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
						JANUARY, FEBRUARY, NOVEMBER, DECEMBER, BIWEEKLY - MARCH-OCTOBER	BOTTOM	OBS; 2 STATIONS
ORGANIC NITROGEN	WATER	TITRATION	MG/L	80	OBS	MONTHLY - JANUARY, FEBRUARY, NOVEMBER, DECEMBER, BIWEEKLY - MARCH-OCTOBER	SURFACE, BOTTOM	1 SAMPLE PER OBS; 2 STATIONS
NITRATE	WATER	COLORIMETRY	MG/L	80	OBS	MONTHLY - JANUARY, FEBRUARY, NOVEMBER, DECEMBER, BIWEEKLY - MARCH-OCTOBER	SURFACE, BOTTOM	1 SAMPLE PER OBS; 2 STATIONS
NITRITE	WATER	COLORIMETRY	MG/L	80	OBS	MONTHLY - JANUARY, FEBRUARY, NOVEMBER, DECEMBER, BIWEEKLY - MARCH-OCTOBER	SURFACE, BOTTOM	1 SAMPLE PER OBS; 2 STATIONS
OILS	WATER	EXTRACTION/ WEIGHT	MG/L	80	OBS	MONTHLY - JANUARY, FEBRUARY, NOVEMBER, DECEMBER, BIWEEKLY - MARCH-OCTOBER	SURFACE, BOTTOM	1 SAMPLE PER OBS; 2 STATIONS
MAGNESIUM	WATER	ATOMIC ABSORPTION SPECTROMETRY	UG/L	80	OBS	MONTHLY - JANUARY, FEBRUARY, NOVEMBER, DECEMBER, BIWEEKLY - MARCH-OCTOBER	SURFACE, BOTTOM	1 SAMPLE PER OBS; 2 STATIONS
CALCIUM	WATER	ATOMIC ABSORPTION SPECTROMETRY	UG/L	80	OBS	MONTHLY - JANUARY, FEBRUARY, NOVEMBER, DECEMBER, BIWEEKLY -	SURFACE, BOTTOM	1 SAMPLE PER OBS; 2 STATIONS

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
ALUMINUM	WATER	ATOMIC ABSORPTION SPECTROMETRY	UG/L	60	OBS	MARCH-OCTOBER MONTHLY - JANUARY, FEBRUARY, NOVEMBER, DECEMBER, BIWEEKLY - MARCH-OCTOBER	SURFACE, BOTTOM	1 SAMPLE PER OBS; 2 STATIONS
SILICON	WATER	COLORIMETRY	MG/L	60	OBS	MONTHLY - JANUARY, FEBRUARY, NOVEMBER, DECEMBER, BIWEEKLY - MARCH-OCTOBER	SURFACE, BOTTOM	1 SAMPLE PER OBS; 2 STATIONS
OILS	SEDIMENT	EXTRACTION/ WEIGHT	UG/KG	5	OBS	MONTHLY		5 STATIONS; JULY; 1 SAMPLE PER OBS
BIOCHEMICAL OXYGEN DEMAND	WATER	TITRATION	MG/L	16	OBS	MONTHLY	SURFACE	4 STATIONS; APRIL, JUNE, AUGUST, OCTOBER; 1 SAMPLE PER OBS
CADMIUM	WATER	ATOMIC ABSORPTION SPECTROMETRY	MG/L	5	OBS	MONTHLY	SURFACE	5 STATIONS; JULY; 1 SAMPLE PER OBS
CHROMIUM	WATER	ATOMIC ABSORPTION SPECTROMETRY	MG/L	5	OBS	MONTHLY	SURFACE	5 STATIONS; JULY; 1 SAMPLE PER OBS
NICKEL	WATER	ATOMIC ABSORPTION SPECTROMETRY	MG/L	5	OBS	MONTHLY	SURFACE	5 STATIONS; JULY; 1 SAMPLE PER OBS
LEAD	WATER	ATOMIC ABSORPTION SPECTROMETRY	MG/L	5	OBS	MONTHLY	SURFACE	5 STATIONS; JULY; 1 SAMPLE PER OBS
ZINC	WATER	ATOMIC ABSORPTION SPECTROMETRY	MG/L	5	OBS	MONTHLY	SURFACE	5 STATIONS; JULY; 1 SAMPLE PER OBS
IRON	WATER	ATOMIC ABSORPTION SPECTROMETRY	MG/L	5	OBS	MONTHLY	SURFACE	5 STATIONS; JULY; 1 SAMPLE PER OBS
MERCURY	WATER	ATOMIC ABSORPTION SPECTROMETRY	MG/L	5	OBS	MONTHLY	SURFACE	5 STATIONS; JULY; 1 SAMPLE PER OBS
CHROMIUM	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	UG/KG	5	OBS	MONTHLY		5 STATIONS; JULY; 1 SAMPLE PER OBS
NICKEL	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	UG/KG	5	OBS	MONTHLY		5 STATIONS; JULY; 1 SAMPLE

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
LEAD	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	UG/KG	5	OBS	MONTHLY		5 STATIONS; JULY; 1 SAMPLE PER OBS
ZINC	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	UG/KG	5	OBS	MONTHLY		5 STATIONS; JULY; 1 SAMPLE PER OBS
IRON	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	UG/KG	5	OBS	MONTHLY		5 STATIONS; JULY; 1 SAMPLE PER OBS
MERCURY	SEDIMENT	ATOMIC ABSORPTION SPECTROMETRY	UG/KG	5	OBS	MONTHLY		5 STATIONS; JULY; 1 SAMPLE PER OBS
COUNT OF MICROBIOTA	WATER	VISUAL	COLONIES PER 100 ML	64	OBS	MONTHLY	SURFACE, BOTTOM	TOTAL AND FECAL COLIFORM COUNT; 4 STATIONS; APRIL, JUNE, AUGUST, OCTOBER; 2 SAMPLES PER OBS
CHLOROPHYLL A	WATER	FLUOROMETRY	MG/M3	4	STATIONS	MONTHLY	SURFACE, BOTTOM	4 STATIONS: JANUARY, MARCH-OCTOBER; 2 SAMPLES PER OBS
TOTAL PHAEOPHYTIN	WATER	FLUOROMETRY	MG/M3	4	STATIONS	MONTHLY	SURFACE, BOTTOM	4 STATIONS; JANUARY, MARCH-OCTOBER; 2 SAMPLES PER OBS
COUNT OF PHYTOPLANKTON	WATER	FILTRATION	NUMBER PER SPECIES PER ML PER SAMPLE	560	OBS	MONTHLY - JANUARY, FEBRUARY, NOVEMBER, DECEMBER, BIWEEKLY - MARCH-OCTOBER	SURFACE, BOTTOM	7 STATIONS; 2 SAMPLES PER OBS
SPECIES DETERMINATION OF PHYTOPLANKTON	WATER	KEY	SPECIES PER ML PER SAMPLE	560	OBS	MONTHLY - JANUARY, FEBRUARY, NOVEMBER, DECEMBER, BIWEEKLY - MARCH-OCTOBER	SURFACE, BOTTOM	7 STATIONS; 2 SAMPLES PER OBS
COUNT OF ZOOPLANKTON	WATER	FIXED, STAINED, ALIQUOT	NUMBER PER SPECIES PER M3 PER SAMPLE	560	OBS	MONTHLY - JANUARY, FEBRUARY, NOVEMBER, DECEMBER, BIWEEKLY -	SURFACE, BOTTOM	7 STATIONS; 2 SAMPLES PER OBS; 5-TENTHS M, 500-MICRON MESH NET USED IN SAMPLING;

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
								DAY SAMPLING
SPECIES DETERMINATION OF ZOOPLANKTON	WATER	KEY	SPECIES PER M3 PER SAMPLE	560	OBS	MARCH-OCTOBER MONTHLY - JANUARY, FEBRUARY, NOVEMBER, DECEMBER, BIWEEKLY - MARCH-OCTOBER	SURFACE, BOTTOM	COUNT OF ZOOPLANKTON
MORTALITY OF ZOOPLANKTON	WATER	VISUAL	PERCENT OF TOTAL INDIVIDUALS PER SPECIES DEAD AT TIME OF SAMPLING PER SAMPLE	16	OBS	MONTHLY	SURFACE, BOTTOM	2 STATIONS; 1 SAMPLE PER OBS; MARCH, JULY, SEPTEMBER, NOVEMBER
SPECIES DETERMINATION OF BENTHIC ANIMALS	BOTTOM	KEY	SPECIES PER SAMPLE	135	OBS	MONTHLY		5 STATIONS; 3 SAMPLES PER OBS; APRIL-NOVEMBER; 523 CM2 PONAR SAMPLER
COUNT OF BENTHIC ANIMALS	BOTTOM	MICROSCOPE	NUMBERS PER SPECIES PER SAMPLE	135	OBS	MONTHLY		5 STATIONS; 3 SAMPLES PER OBS; APRIL-NOVEMBER; 523 CM2 PONAR SAMPLER
REACTIVE PHOSPHATE	WATER	COLORIMETRY	UG/L	72	OBS	MONTHLY	SURFACE, BOTTOM	

DATA COLLECTED: FEBRUARY 1973 TO APRIL 1973 RECEIVED: OCTOBER 15, 1976

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH AMERICA, U.S., COASTAL, PENNSYLVANIA, SOUTHERN CHESTER COUNTY, DELAWARE, NORTHERN NEW CASTLE COUNTY, RED CLAY CREEK

ABSTRACT:
THIS FILE INCLUDES WATER QUALITY DATA PERTINENT TO A STUDY OF BLACKFLIES (SIMULIUM VITIATUM ZETTERSTEDT) IN THE RED CLAY CREEK WATERSHED OF SOUTHERN CHESTER COUNTY, PENNSYLVANIA AND NORTHERN NEW CASTLE COUNTY, DELAWARE. WATER QUALITY PARAMETERS MEASURED INCLUDE NITRATE, PHOSPHATE, AMMONIA, COLIFORMS, ZINC, BOD, IRON, TEMPERATURE, PH, DISSOLVED OXYGEN, TURBIDITY, AND FLY LARVAE COUNTS. THIS DATA IS INCLUDED IN AN M.S. THESIS, 1974, UNIVERSITY OF DELAWARE BY SYED HYDER ALI.

DATA AVAILABILITY:
AVAILABLE UPON REQUEST AT THE DEPARTMENT OF ENTOMOLOGY, UNIVERSITY OF DELAWARE

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS
40 PAGES

FUNDING:
UNIVERSITY OF DELAWARE

INVENTORY:

PUBLICATIONS:
DATA REPORTED FROM M.S. THESIS BY SYED HYDER ALI, 1974, UNIVERSITY OF DELAWARE

CONTACT:
PAUL BURBUTIS 302 738 2526
UNIVERSITY OF DELAWARE
DEPARTMENT OF ENTOMOLOGY
NEWARK DELAWARE USA 19711

GRID LOCATOR (LAT):
7307954450

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATIONS	48 OBS	1 OBS/WEEK/ STATION		
TIME	EARTH	STATION TIME	YMD	48 OBS	1 OBS WEEK/ STATION		
PH	WATER	PH METER	PH UNITS	48 OBS	1 OBS WEEK/ STATION		
NITRATE	WATER	SPECTROPHOTOMETRY	PARTS PER MILLION	48 OBS	1 OBS/WEEK/ STATION		
AMMONIA	WATER	SPECTROPHOTOMETRY	PARTS PER MILLION	48 OBS	1 OBS/WEEK/ STATION		

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
PHOSPHATE	WATER	SPECTROPHOTOMETRY	PARTS PER MILLION	48	OBS	1 OBS WEEK/ STATION		
DISSOLVED OXYGEN GAS	WATER	SPECIFIC ION ELECTRODE	PARTS PER MILLION	48	OBS	1 OBS WEEK/ STATION		
COUNT OF MICROBIOTA	WATER	MICROSCOPE	NUMBER/100 MILLILITER	48	OBS	1 OBS WEEK/ STATION		COLIFORM COUNTED
BIOCHEMICAL OXYGEN DEMAND	WATER	TITRATION	PARTS PER MILLION	48	OBS	1 OBS WEEK/ STATION		
IRON	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	48	OBS	1 OBS WEEK/ STATION		
ZINC	WATER	ATOMIC ABSORPTION SPECTROMETRY	PARTS PER MILLION	48	OBS	1 OBS WEEK/ STATION		
LIGHT ATTENUATION	WATER	COLORIMETRY	JTU	48	OBS	1 OBS WEEK/ STATION		TURBIDIMETER
TEMPERATURE	WATER	REVERSING THERMOMETER	DEG C	48	OBS	1 OBS WEEK/ STATION		
FECUNDITY OF INSECTS	LAND	VISUAL	NUMBER OF LARVAE/STATION	48	OBS	1 OBS WEEK/ STATION		BLACK FLY LARVAE IN WATER COUNTED

DATA COLLECTED: MAY 1974 TO MAY 1974 RECEIVED: MARCH 07, 1977

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH AMERICA, U.S., VIRGINIA, HAMPTON ROADS, JAMES RIVER, HOG ISLAND

ABSTRACT:
MISSION W276, FLIGHT 01, WAS ACCOMPLISHED ON MAY 28, 1974, UTILIZING THE WALLOPS FLIGHT CENTER C-54 AIRCRAFT EQUIPPED WITH FOUR HASSELBLAD CAMERAS, A T-11 AERIAL MAPPING CAMERA, AND A MULTICHANNEL OCEAN COLOR SENSOR IN COOPERATION WITH NASA'S LANGLEY RESEARCH CENTER. THE OBJECTIVE OF THE FLIGHT WAS TO STUDY WATER POLLUTION AS RELATED TO EUTROPHICATION LEVELS IN THE JAMES RIVER FROM HOPEWELL TO THE HAMPTON ROADS/CRANEY ISLAND INDUSTRIAL WATERFRONT.
(MISSION W276, FLIGHT 01)

DATA AVAILABILITY:

PLATFORM TYPES:
AIRCRAFT

ARCHIVE MEDIA:
PHOTOPRINTS
284 70MM PRINTS; 71 9"X9" PRINTS

FUNDING:
NATIONAL AERONAUTICS AND SPACE ADM

INVENTORY:

PUBLICATIONS:

CONTACT:
MICHAEL CONGER 804 824 3411
NATIONAL AERONAUTICS AND SPACE ADM
CHESAPEAKE BAY ECOLOGICAL PROGRAM OFFICE
WALLOPS ISLAND VIRGINIA USA 23337

GRID LOCATOR (LAT):
73077733 73077625 73076653 73076643

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	LONGITUDE AND LATITUDE	355	OBS			
TIME	EARTH	STATION TIME	YMD	355	OBS	5 FLIGHTS PER LINE		
PHOTOGRAPH	EARTH	COLOR CAMERA FROM AIRCRAFT	PRINT	284	OBS	5 FLIGHTS PER LINE	3000 AND 17,500 FEET	152 AND FOUR-TENTHS MM FOCAL LENGTH
PHOTOGRAPH	EARTH	IR CAMERA FROM AIRCRAFT	PRINT	71	OBS	5 FLIGHTS PER LINE	3000 AND 17,500 FEET	40MM FOCAL LENGTH

DATA COLLECTED: SEPTEMBER 1974 TO OCTOBER 1975 RECEIVED: MAY 13, 1977

PROJECTS:

GENERAL GEOGRAPHIC AREA:
NORTH AMERICA, U.S., MARYLAND, WORCESTER AND WICOMICO COUNTIES

ABSTRACT:
FROM SEPTEMBER 1974 THROUGH OCTOBER 1975 A FIELD STUDY OF THE WATER FLOW, WATER LEVEL, WATER QUALITY, AND INVERTEBRATE AND FISH POPULATIONS OF STREAMS AND OF THE TERRESTRIAL VEGETATION BORDERING STREAMS WAS CONDUCTED IN SEVEN WATERSHEDS IN WORCESTER AND WICOMICO COUNTIES, MARYLAND TO AID IN AN ENVIRONMENTAL AND ECONOMIC ASSESSMENT OF STREAM MODIFICATIONS WHICH HAD BEEN INSTALLED UNDER PROVISIONS OF THE WATERSHED PROTECTION AND FLOOD PREVENTION ACT. FINDINGS WERE PRESENTED IN THE COMPREHENSIVE ENVIRONMENTAL ASSESSMENT REPORT.
(REPORT PREPARED FOR U.S. DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE, COLLEGE PARK, MARYLAND 20740; MAPS OF TOPOGRAPHY, GEOLOGY, SOILS, AND TERRESTRIAL COMMUNITIES INCLUDED IN REPORT)

DATA AVAILABILITY:
REPORT AVAILABLE FOR ON SITE USE OR PHOTOCOPY

PLATFORM TYPES:
FIXED STATION

ARCHIVE MEDIA:
REPORTS
424 PAGE INHOUSE REPORT

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
SENIOR TECHNICAL ADVISOR 201 627 5726
ECOLSCIENCES, INC.
20 UNION STREET
ROCKAWAY NEW JERSEY USA 07866

GRID LOCATOR (LAT):
73078500 73078501 73078502 73078503 73078504 73078505 73078510 73078511 73078512 73078513 73078514 73078515 73078520 73078521 73078522 73078523 73078524 73078525

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	FIXED POINT	MAP LOCATION	53	STATIONS			19 STREAMS, 14 WELLS, 20 FOREST STATIONS
TIME	EARTH	STATION TIME	YMD	1107	OBS			
WATER TRANSPORT	WATER	FLOW METER	CUBIC FEET/ SECOND	303	OBS			5 FLOW GAGE STATIONS

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PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
WATER TABLE ELEVATION	LAND	DIRECT	FEET BELOW GROUND LEVEL	250	OBS	1 OBS STATION/ 2 WEEKS		
WATER LEVEL	WATER	VISUAL	FEET BELOW GROUND LEVEL	216	OBS	1 OBS STATION/ 2 WEEKS		
TEMPERATURE	WATER	NON-REVERSING THERMOMETER	DEG C	206	OBS	1 OBS. STATION/ MONTH		
DISSOLVED OXYGEN GAS	WATER	TITRATION	MG/L	206	OBS	1 OBS STATION/ MONTH		
PH	WATER	PH METER	PH UNITS	206	OBS	1 OBS. STATION/ MONTH		
LIGHT ATTENUATION	WATER	COLORIMETRY	JACKSON TURBIDITY UNITS	206	OBS	1 OBS. STATION/ MONTH		
TOTAL SOLIDS	SUSPENDED	DRY WEIGHT	MG/L	206	OBS	1 OBS. STATION/ MONTH		
PHOSPHORUS	WATER	AUTOANALYZER	MG/L	206	OBS	1 OBS. STATION/ MONTH		
NITRATE PLUS NITRITE	WATER	AUTOANALYZER	MG/L	206	OBS	1 OBS. STATION/ MONTH		
AMMONIA	WATER	AUTOANALYZER	MG/L	206	OBS	1 OBS/STATION/ MONTH		
SPECIES DETERMINATION OF BENTHIC ANIMALS	BOTTOM	KEY	SPECIES	22	OBS			
COUNT OF BENTHIC ANIMALS	BOTTOM	VISUAL	NUMBER/SPECIES	22	OBS			
SPECIES DETERMINATION OF ZOOPLANKTON	WATER	KEY	SPECIES	9	OBS			
COUNT OF ZOOPLANKTON	WATER	FIXED, UNSTAINED, ALIQUOT	NUMBER/SPECIES/ CUBIC METER	9	OBS			
SPECIES DETERMINATION OF PELAGIC FISH	WATER	KEY	SPECIES	11	OBS			
COUNT OF PELAGIC FISH	WATER	VISUAL	NUMBER/SPECIES	11	OBS			
LENGTH OF PELAGIC FISH	WATER	TOTAL LENGTH	RANGE IN MILLIMETERS/ SPECIES	11	OBS			
WEIGHT OF PELAGIC FISH	WATER	WET WEIGHT	RANGE IN GRAMS/ SPECIES	11	OBS			
SPECIES DETERMINATION OF LAND PLANTS	LAND	KEY	SPECIES	120	OBS			TREES EQUAL TO OR EXCEEDING 2 INCHES DBH; UNDERSTORY VEGETATION
COUNT OF LAND PLANTS	LAND	VISUAL	NUMBER/SPECIES	100	OBS			TREES EQUAL TO OR EXCEEDING 2 INCHES DBH

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT	FREQUENCY	HEIGHT/DEPTH	REMARKS
ORTHOPHOSPHATE	WATER	AUTOANALYZER	MG/L	206 OBS	1 OBS/STATION/ MONTH		

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ECOLOGICAL STUDIES IN THE BAYS AND OTHER WATERWAYS NEAR LITTLE EGG INLET AND IN THE OCEAN IN THE VICINITY OF THE PROPOSED SITE FOR THE ATLANTIC GENERATING STATION, NEW JERSEY, PART ONE AND PART TWO

DATA COLLECTED: JANUARY 1972 TO MARCH 1973

RECEIVED: MAY 13, 1977

PROJECTS:
ATLANTIC GENERATING STATION PROJECT

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, COASTAL, U.S., NEW JERSEY

ABSTRACT:
AN ECOLOGICAL STUDY OF THE TERRESTRIAL AND MARINE ENVIRONMENTS OF THE CENTRAL NEW JERSEY COASTLINE IN THE VICINITY OF THE PROPOSED OFFSHORE ATLANTIC GENERATING STATION WAS CONDUCTED DURING JANUARY 1972 THROUGH MARCH 1973. SEASONAL POPULATIONS AND DISTRIBUTIONS OF MAMMALS, BIRDS, REPTILES, AMPHIBIANS, LAND PLANTS, PELAGIC AND DEMERSAL FISH, ICHTHYOPLANKTON, ZOOPLANKTON, PHYTOPLANKTON, AND BENTHIC ANIMALS WERE DETERMINED. MEASUREMENTS OF WATER TEMPERATURE, SALINITY, DISSOLVED OXYGEN CONCENTRATION, AND SECCHI DEPTH WERE TAKEN WITH ALL SAMPLES OF MARINE ORGANISMS.
(REPORT PREPARED IN JULY 1973 BY ICHTHYOLOGICAL ASSOCIATES, ITHACA, NEW YORK 14850)

DATA AVAILABILITY:
REPORT AVAILABLE FOR DISTRIBUTION

PLATFORM TYPES:
FIXED STATION; SHIP

ARCHIVE MEDIA:
REPORTS
PART ONE - 666 PAGE REPORT, PART TWO - 399 PAGE REPORT

FUNDING:

INVENTORY:

PUBLICATIONS:
THOMAS, D.L., AND C.B. MILSTEIN, 1973. ECOLOGICAL STUDIES IN THE BAYS AND OTHER WATERWAYS NEAR LITTLE EGG INLET AND IN THE OCEAN IN THE VICINITY OF THE PROPOSED SITE FOR THE ATLANTIC GENERATING STATION, NEW JERSEY, PART ONE AND PART TWO. PROGRESS REPORT FOR THE PERIOD JANUARY-DECEMBER 1972 FOR PUBLIC SERVICE ELECTRIC AND GAS COMPANY. ICHTHYOLOGICAL ASSOCIATES, INC.

CONTACT:
PROJECT MANAGER-ATLANTIC GENERATING STATION 201 622 7000
PUBLIC SERVICE ELECTRIC AND GAS COMPANY
80 PARK PLACE
NEWARK NEW JERSEY USA 07101

GRID LOCATOR (LAT):
73079410 73079411 73079412 73079413 73079420 73079421 73079422 73079423 73079430 73079431 73079432 73079433 73079440 73079441 73079442

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
POSITION	EARTH	VARIOUS	MAP OR CHART LOCATION-DM	220	STATIONS			FIXED POINT; LONG RANGE NAVIGATIONAL NET
TIME	EARTH	STATION TIME	YMDH	2730	OBS			
SPECIES DETERMINATION OF PELAGIC FISH	WATER	KEY	SPECIES/OBS/ STATION	9	OBS		SURFACE TO 10 FEET	8 GILL NET STATIONS
COUNT OF PELAGIC FISH	WATER	VISUAL	NUMBER/SPECIES/ OBS/STATION	9	OBS		SURFACE TO 10 FEET	8 GILL NET STATIONS
SPECIES DETERMINATION OF DEMERSAL FISH	WATER	KEY	SPECIES/OBS/ STATION	1491	OBS	1 OBS/STATION/ 2 WEEKS		61 SEINE STATIONS, 47 TRAWL STATIONS
COUNT OF DEMERSAL FISH	WATER	VISUAL	NUMBER/SPECIES/ OBS/STATION	1491	OBS	1 OBS STATION/ 2 WEEKS		61 SEINE STATIONS, 47 TRAWL STATIONS
SPECIES DETERMINATION OF ZOOPLANKTON	WATER	KEY	SPECIES/CUBIC METER/OBS/ STATION	699	OBS	1 OBS/STATION/ WEEK	SURFACE, MIDWATER, BOTTOM	FIXED, UNSTAINED, ALIQUOT; FIXED, STAINED, ALIQUOT 20 ICHTHYOPLANKTON STATIONS, 20 ZOOPLANKTON STATIONS
COUNT OF ZOOPLANKTON	WATER	VARIOUS	NUMBER/SPECIES/ CUBIC METER/ OBS/STATION	699	OBS	1 OBS/STATION/ WEEK	SURFACE, MIDWATER, BOTTOM	FIXED, UNSTAINED, ALIQUOT; FIXED, STAINED, ALIQUOT 20 ICHTHYOPLANKTON STATIONS, 20 ZOOPLANKTON STATIONS
SPECIES DETERMINATION OF PHYTOPLANKTON	WATER	KEY	SPECIES/LITER/ OBS/STATION	3	OBS		SURFACE, 10, 20 METERS	1 PHYTOPLANKTON STATION
COUNT OF PHYTOPLANKTON	WATER	COUNTING CHAMBER	NUMBER/SPECIES/ LITER/OBS/ STATION	3	OBS		SURFACE, 10, 20 METERS	1 PHYTOPLANKTON STATION
SPECIES DETERMINATION OF BENTHIC ANIMALS	BOTTOM	KEY	SPECIES/OBS/ STATION	461	OBS	1 OBS/STATION/ MONTH		11 TRAWL STATIONS, 9 PONARGRAB AND CLAM DREDGE STATIONS, 22 BEACH SIEVE STATIONS
COUNT OF BENTHIC	BOTTOM	VISUAL	NUMBER/SPECIES/ OBS/STATION	461	OBS	1 OBS/STATION/ MONTH		11 TRAWL STATIONS, 9

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
ANIMALS								PONARGRAB AND CLAM DREDGE STATIONS, 22 BEACH SIEVE STATIONS
NITRATE	WATER	AUTOANALYZER	UG-AT/L	54	OBS	2 OBS, STATION/ 2 WEEKS	SURFACE, BOTTOM	15 NUTRIENT STATIONS
NITRITE	WATER	AUTOANALYZER	UG-AT/L	54	OBS	2 OBS STATION/ 2 WEEKS	SURFACE, BOTTOM	
NITRATE PLUS NITRITE	WATER	AUTOANALYZER	UG-AT/L	116	OBS	2 OBS STATION/ 2 WEEKS	SURFACE, BOTTOM	
AMMONIA	WATER	AUTOANALYZER	UG-AT/L	52	OBS	2 OBS STATION/ 2 WEEKS	SURFACE, BOTTOM	
SILICATE	WATER	AUTOANALYZER	UG-AT/L	170	OBS	2 OBS STATION/ 2 WEEKS	SURFACE, BOTTOM	
ORTHOPHOSPHATE	WATER	AUTOANALYZER	UG-AT/L	170	OBS	2 OBS STATION/ 2 WEEKS	SURFACE, BOTTOM	
SALINITY	WATER	VARIOUS	PPT	3600	OBS		SURFACE, BOTTOM	INDEX OF REFRACTION; CONDUCTIVITY
DISSOLVED OXYGEN GAS	WATER	SPECIFIC ION ELECTRODE	PPM	3100	OBS		SURFACE, BOTTOM	
TEMPERATURE	WATER	THERMISTOR	DEG C	3600	OBS		SURFACE, BOTTOM	
SECCHI DISC DEPTH	WATER	DISAPPEARING DEPTH	INCHES OR FEET	1900	OBS			
TIDAL PHASE	WATER	VISUAL	EBB/FLOOD	2730	OBS			
TEMPERATURE	AIR	THERMISTOR	DEG C	2730	OBS			
SPECIES DETERMINATION OF LAND PLANTS	LAND	KEY	SPECIES/STATION	6	STATIONS			
SPECIES DETERMINATION OF BENTHIC PLANTS	LAND	KEY	SPECIES/STATION	6	STATIONS			
COUNT OF LAND PLANTS	LAND	VISUAL	DEGREE OF OCCURRENCE/ SPECIES/ STATION	6	STATIONS			
COUNT OF BENTHIC PLANTS	LAND	VISUAL	DEGREE OF OCCURRENCE/ SPECIES/ STATION	6	STATIONS			
SPECIES DETERMINATION OF REPTILES	LAND	KEY	SPECIES/STATION	6	STATIONS			
SPECIES DETERMINATION OF AMPHIBIANS	WATER	KEY	SPECIES/STATION	6	STATIONS			
SPECIES DETERMINATION	LAND	KEY	SPECIES/OBS/ STATION	19	OBS			TRAPS, 13 STATIONS

PARAMETER IDENTIFICATION SECTION:

NAME	SPHERE	METHOD	UNITS	DATA AMOUNT		FREQUENCY	HEIGHT/DEPTH	REMARKS
OF MAMMALS								
COUNT OF MAMMALS	LAND	VISUAL	NUMBER/SPECIES/ OBS/STATION	19	OBS			TRAPS, 13 STATIONS
SPECIES DETERMINATION OF BIRDS	AIR	KEY	SPECIES/OBS/ STATION	12	OBS	1 OBS/STATION/ MONTH		ROAD CENSUS, 2 STATIONS
COUNT OF BIRDS	AIR	VISUAL	NUMBER/SPECIES/ OBS/STATION	12	OBS	1 OBS/STATION/ MONTH		ROAD CENSUS, 2 STATIONS
NUMBER OF NESTS	LAND	VISUAL	NUMBER/SPECIES/ STATION	2	STATIONS			BIRDS NEST-2 HERONRIES
FECUNDITY OF BIRDS	AIR	VISUAL	NUMBER OF YOUNG AND EGGS/ SPECIES/ STATION	1	STATIONS			1 HERONRY

ANNEX II

Data Files

Part B

Data File Index - Listed by Key Word

Eutrophication

This index contains an alphabetical listing by key word of the data files in this annex. After some key words is a number or series of numbers which reference the page numbers of the particular file(s) within this report. Most of the files are referenced by more than one key word. Underlined numbers indicate files generated after January 1, 1973.

The key words which do not reference any relevant files are included to indicate the extent of the file search.

ANNEX II

Part B
Data File Index-Listed by Key Word

Eutrophication

ammonia (dissolved)
none

ammonia (interstitial)
none

ammonia (sediment)
20, 208

ammonia (water)
6, 20, 34, 40, 54, 69, 71, 86, 98, 120, 123, 150, 154, 156, 158, 160, 171, 177, 179, 184, 192, 198, 200, 202, 206, 216, 236, 244, 265, 278, 280, 287 290, 293

ammonia uptake velocity
none

apparent oxygen utilization (sediment)
none

apparent oxygen utilization (water)
210

bicarbonate alkalinity (water)
179, 184

bicarbonate ion (water)
120, 236, 239

biochemical oxygen demand (sediment)
none

biochemical oxygen demand (water)
23, 28, 30, 38, 120, 130, 136, 171, 177, 179, 184, 236, 263, 265, 270, 278, 280, 287

biochemical oxygen demand
use biochemical oxygen demand

biomass of phytoplankton (water)
198, 200

biomass of zooplankton (water)
74, 76, 158, 239

BOD
use biochemical oxygen demand

carbon (dissolved)
none

carbon (interstitial)
none

carbon (sediment)
none

carbon (suspended)
none

carbon (water)
63, 204

carbon monoxide (water)
none

carbon/nitrogen ratio (sediment)
none

carbon/nitrogen ratio (water)
none

carbonate alkalinity (interstitial)
none

carbonate alkalinity (water)
6, 120, 179, 184, 280

carbonate compensation depth (water)
none

carbonate ion (water)
120, 236, 239

chemical oxygen demand (sediment)
82, 94, 104, 275

chemical oxygen demand (water)
136, 265

chlorophyll a (sediment)
none

chlorophyll a (water)
20, 34, 54, 59, 69, 71, 98, 101, 110, 112, 114, 116, 118, 126, 134, 143, 150, 152, 156, 158, 160, 214, 216, 218, 221, 236, 239, 244, 249, 261, 280

chlorophyll b (sediment)
none

chlorophyll b (water)
112, 114, 116, 126, 239, 244

chlorophyll c (sediment)
none

chlorophyll c (water)
112, 114, 116, 126, 239, 244

CO_2
use dissolved carbon dioxide gas, total carbon dioxide

COD
use chemical oxygen demand

count of phytoplankton (water)
20, 51, 54, 88, 108, 112, 114, 116, 118, 126, 141, 154, 198, 200, 202, 214, 273, 275, 280, 293

count of zooplankton (water)
51, 74, 76, 101, 108, 110, 145, 202, 212, 239, 242, 275, 280, 290, 293

diffuse attenuation coefficient (water)
none

disappearing depth of secchi disc
use secchi disc depth

dissolved carbon dioxide gas (dissolved)
none

dissolved carbon dioxide gas (interstitial)
none

dissolved carbon dioxide gas (water)
236

dissolved nitrate
use nitrate (interstitial, dissolved)

dissolved organic carbon
use carbon, inorganic carbon, organic carbon

dissolved oxygen
use dissolved oxygen gas

dissolved oxygen gas (interstitial)
none

dissolved oxygen gas (water)
6, 9, 15, 17, 18, 20, 23, 26, 28, 30, 32, 34, 36, 38, 40, 44, 46, 48, 51, 61, 63, 69, 71, 74, 76, 78, 80, 88, 98, 101, 106, 108, 112, 114, 116, 118, 120, 123, 130, 132, 136, 138, 139, 143, 145, 150, 152, 154, 158, 160, 164, 166, 168, 171, 177, 179, 184, 192, 198, 200, 202, 204, 206, 214, 216, 223, 231, 236, 239, 242, 244, 249, 261, 263, 265, 268, 273, 275, 278, 280, 287, 290, 293

dissolved phosphate (sediment)
use phosphate (interstitial)

dissolved phosphorus
use phosphorus (dissolved)

DO
use dissolved oxygen gas

DOC
use organic carbon (dissolved)

DON
use organic nitrogen (dissolved)

exchangeable ammonia (sediment)
none

extinction coefficient
use light extinction

fixed total solids (water)
154

free carbon dioxide
use dissolved carbon dioxide gas

heterotrophic rate (sediment)
none

heterotrophic rate (water)
6, 152, 202

humic matter (water)
none

hydroxide alkalinity (water)
none

inorganic carbon (dissolved)
63, 98

inorganic carbon (sediment)
128, 147

inorganic carbon (water)
126

inorganic nitrogen (sediment)
none

inorganic nitrogen (water)
none

inorganic phosphate
use orthophosphate

inorganic phosphorus (dissolved)
173, 229, 257

inorganic phosphorus (suspended)
none

kjeldahl nitrogen (dissolved)
none

kjeldahl nitrogen (sediment)
275

kjeldahl nitrogen (suspended)
none

kjeldahl nitrogen (water)
273, 275

light attenuation (water)
6, 23, 26, 28, 30, 32, 36, 38, 44, 46, 48, 59, 74, 76, 110, 112, 114, 116, 118, 120, 134, 164, 166, 168, 179, 184, 194, 202, 236, 275, 278, 280, 287, 290

light extinction (water)
61, 78, 86, 88, 98, 101, 231

light intensity (water)
none

light scattering coeficient (water)
231, 265

light transmission
use light attenuation

metaphosphate
use unreactive phosphate

methyl orange alkalinity (water)
none

nitrae (dissolved)
236

nitrate (interstitial)
none

nitrate (sediment)
20, 208, 268

nitrate (suspended)
none

nitrate (water)
6, 17, 18, 20, 54, 65, 67, 69, 71, 74, 76, 86, 88, 98, 101, 110, 120, 123, 126, 130, 132, 136, 138, 139, 143, 145, 150, 152, 154, 156, 160, 164, 166, 168, 171, 177, 179, 184, 192, 194, 198, 200, 202, 206, 216, 218, 223, 231, 239, 242, 244, 246, 248, 249, 251, 259, 261, 265, 270, 278, 280, 287, 293

nitrate - nitrogen
use nitrate

nitrate plus nitrite (dissolved)
none

nitrate plus nitrite (water)
34, 158, 290, 293

nitrate uptake velocity (water)
none

nitric oxide (water)
none

nitrite (dissolved)
none

nitrite (interstitial)
none

nitrite (sediment)
20, 208

nitrite (water)
18, 20, 54, 65, 67, 69, 71, 74, 76, 98, 120, 123, 126, 130, 132, 138, 143, 145, 150, 152, 154, 156, 160, 166, 168, 171, 179, 184, 198, 200, 202, 206, 216, 218, 231, 239, 244, 246, 248, 249, 259, 261, 265, 270, 280, 293

nitrite - nitrogen
use nitrite

nitrogen (dissolved)
160

nitrogen (sediment)
208

nitrogen (suspended)
none

nitrogen (water)
54, 150, 171, 204

nitrogen/carbon ratio
use carbon/nitrogen ratio

nitrogen dioxide (dissolved)
none

nitrogen/phosphorus ratio (water)
none

nitrogen uptake
use photosynthetic rate

nitrous oxide (dissolved)
none

organic carbon (dissolved)
63, 98, 145, 156, 158, 160, 231

organic carbon (interstitial)
210

organic carbon (sediment)
20, 57, 128, 147, 162, 182, 196, 208, 225, 253

organic carbon (suspended)
54, 61, 63, 88, 156, 160, 231

organic carbon (water)
34, 63, 96, 106, 202, 236, 275

organic carbon flux (suspended)
none

organic carbon/nitrogen ratio (sediment)
none

organic nitrogen
20, 54, 69, 71, 98, 156, 160

organic nitrogen (sediment)
20, 82, 90, 94, 104

organic nitrogen (suspended)
20, 54, 143, 150, 156, 160

organic nitrogen (water)
67, 69, 171, 192, 280

organic phosphate (dissolved)
none

organic phosphate (sediment)
none

organic phosphate (suspended)
none

organic phosphate (water)
none

organic phosphorus (dissolved)
158, 173, 192, 229, 257

organic phosphorus (sediment)
none

organic phosphorus (suspended)
192

organic phosphorus (water)
88, 192, 270

orthophosphate (dissolved)
none

orthophosphate (interstitial)
none

orthophosphate (sediment)
none

orthophosphate (suspended)
none

orthophosphate (water)
6, 9, 15, 17, 18, 34, 54, 69, 71, 88, 98, 110, 120, 123, 126, 130, 132, 136, 138, 139, 152, 154, 156, 160, 164, 166, 168, 179, 194, 216, 223, 227, 236, 239, 249, 251, 255, 261, 265, 270, 278, 290, 293

oxidation rate (water)
none

oxygen (suspended)
none

oxygen consumption
use apparent oxygen utilization

partial pressure of carbon dioxide
use dissolved carbon dioxide (water)

partial pressure of oxygen
use dissolved oxygen gas

particulate organic carbon
use organic carbon

PCO_2
use dissolved carbon dioxide gas

pH (interstitial)
none

pH (water)
6, 9, 15, 17, 18, 20, 23, 26, 28, 30, 32, 36, 38, 40, 44, 46, 48, 51, 69, 92, 120, 123, 130, 136, 139, 145, 150, 154, 164, 166, 168, 173, 175, 179, 184, 194, 208, 216, 225, 229, 236, 239, 244, 246, 248, 249, 251, 253, 257, 259, 261, 263, 265, 268, 270, 275, 278, 280, 287, 290

phaeophytin a (sediment)
196

phaeophytin a (water)
156, 218

phaeophytin b (water)
none

phaeophytin c (water)
none

phenolphthalein alkalinity (water)
179

phosphate (dissolved)
none

phosphate (interstitial)
none

phosphate (sediment)
275

phosphate (suspended)
none

phosphate (water)
9, 15, 34, 44, 46, 48, 98, 101, 154, 177, 179, 184, 218, 239, 251, 273, 275, 287

phosphorus (dissolved)
54, 69, 71, 160, 280

phosphorus (interstitial)
none

phosphorus (sediment)
20, 82, 90, 94, 104, 128, 147, 182, 208

phosphorus (suspended)
173, 216, 229, 257

phosphorus (water)
6, 20, 54, 65, 67, 71, 74, 76, 120, 123, 143, 145, 150, 160, 171, 198, 200, 202, 204, 206, 216, 221, 229, 249, 257, 261, 280, 290

phosphorus uptake
use heterotrophic rate

photograph (earth) (aerial) (sewage)
25, 272, 289

photosynthetic rate (bottom)
none

photosynthetic rate (water)
6, 54, 59, 61, 71, 78, 80, 98, 101, 108, 112, 114, 116, 118, 126, 152, 156, 160, 175, 202

phytoplankton
use biomass of phytoplankton, count of phytoplankton, species determination of phytoplankton, taxonomic list of phytoplankton, volume determination of phytoplankton

plankton
use phytoplankton, zooplankton

primary productivity
use heterotrophic rate, photosynthetic rate

reactive nitrate (water)
none

reactive phosphate (sediment)
182

reactive phosphate (water)
20, 65, 143, 150, 231, 244, 280

reactive phosphorus
use reactive phosphate

secchi disc depth (water)
20, 34, 44, 46, 48, 51, 59, 74, 76, 92, 98, 101, 112, 114, 116, 118, 123, 139, 143, 150, 154, 156, 198, 200, 202, 216, 223, 242, 244, 293

solids
use fixed total solids, total solids, volatile dried solids, volatile total solids

species determination of phytoplankton (water)
54, 88, 92, 112, 114, 116, 118, 126, 141, 154, 177, 198, 200, 202, 214, 273, 275, 280, 293

species determination of zooplankton (water)
51, 74, 76, 92, 110, 145, 150, 177, 202, 212, 242, 275, 280, 290, 293

suspended solids
use fixed total solids, total solids, volatile dried solids, volatile total solids

taxonomic list of phytoplankton (water)
20, 154, 239

taxonomic list of zooplankton (water)
239

total alkalinity (interstitial)
none

total alkalinity (sediment)
none

total alkalinity (water)
20, 23, 32, 38, 40, 44, 46, 48, 69, 98, 143, 150, 166, 168, 179, 184, 194, 214, 236, 251, 265, 268, 280

total carbon dioxide (interstitial)
none

total carbon dioxide (water)
120, 164, 194, 214

total chlorophyll (sediment)
none

total chlorophyll (water)
9, 15, 84, 88, 108, 141, 192, 202, 212, 242

total dissolved nitrogen
use nitrogen (dissolved)

total dissolved phosphate
use phosphate (dissolved)

total dissolved phosphorus
use phosphorus (dissolved)

total organic matter
use organic carbon

total oxidants (water)
194

total phaeophytin (water)
231, 280

total solids (sediment)
82, 94, 104, 268

total solids (suspended)
273, 290

total solids (water)
23, 36, 38, 51, 154, 184, 280

transparency
use light attenuation, secchi disc depth

turbidity
use light attenuation, light scattering coefficient

unreactive phosphate (water)
18, 20, 143, 150, 265

volatile dried solids (sediment)
none

volatile total solids (sediment)
82, 94, 104

volume determination of phytoplankton (water)
214

volume determination of zooplankton (water)
110, 212

weight of phytoplankton (water)
none

weight of zooplankton (water)
none

zooplankton
use biomass of zooplankton, count of zooplankton, species determination of zooplankton, taxonomic list of zooplankton, volume determination of zooplankton

ANNEX III

Monitoring Programs

Eutrophication

The monitoring programs identified for this report form three categories, as follows:

Continuous monitoring programs presently active in the Chesapeake Bay - 32 files.

Continuous monitoring programs initiated after January 1967 that have operated five (5) years or longer, but are presently not operational - 0 files.

Continuous monitoring programs initiated prior to January 1967 that have operated ten (10) years or longer and are presently not operational - 1 file.

The programs are arranged by date of initiation, earliest first.

DATA COLLECTED: 1949 TO PRESENT

MONITORING PROJECTS:
UNITED STATES GEOLOGICAL SURVEY - PHILADELPHIA WATER DEPARTMENT MONTHLY COOPERATIVE STUDY

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, COASTAL, U. S., DELAWARE BAY, MARCUS HOOK, PENNSYLVANIA TO BURLINGTON, NEW JERSEY

ABSTRACT:
SINCE 1949 THE PHILADELPHIA WATER DEPARTMENT AND THE USGS HAVE CONDUCTED A MONTHLY SURVEY OF THE WATER QUALITY OF THE DELAWARE ESTUARY. SAMPLING IS CROSS-SECTIONAL AT EIGHT POINTS BETWEEN MARCUS HOOK, PA. AND BURLINGTON, NJ. AT EACH POINT, SAMPLES ARE TAKEN THREE FEET BELOW THE SURFACE AND THREE FEET ABOVE THE BOTTOM AT EACH SHORE, MID CHANNEL, AND MIDWAY BETWEEN EACH SHORE AND MID CHANNEL. THE DATA DEMONSTRATE HORIZONTAL STRATIFICATION OF THE ESTUARY AS WELL AS VERTICAL HOMOGENEITY. PARAMETERS MEASURED INCLUDE: TIME, TEMPERATURE, PH, SPECIFIC CONDUCTIVITY, DISSOLVED OXYGEN, BOD, CHLORIDE, AND SUSPENDED SEDIMENT. (DATA WILL BE ASSEMBLED IN REPORT AND ADDED TO STORET IN 1976.)

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
DENNIS D. BLAIR 215-686-1776
PHILADELPHIA WATER DEPARTMENT
1270 MSB 15TH AND JFK BLVD
PHILADELPHIA, PENNSYLVANIA, USA 19107

GRID LOCATOR:
COMPLETE FILE DESCRIPTION IN ANNEX II, PAGE 263.

DATA COLLECTED: 1957 TO 1972

MONITORING PROJECTS:
BECKETT NEWTON, GLOUCESTER COUNTY, NEW JERSEY - REPORT FOR LANDTECT CORPORATION

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, COASTAL, U. S., NEW JERSEY, GLOUCESTER COUNTY

ABSTRACT:
THIS REPORT IS AN ENVIRONMENT IMPACT STATEMENT DISCUSSING THE SITE FOR A POTENTIAL HOUSING DEVELOPMENT. IT INCLUDES A COMPLETE REPORT ON SOIL CHARACTERISTICS AND SUITABILITY FOR VARIOUS PURPOSES, CLIMATIC, WATER QUALITY, HYDROLOGIC, GEOLOGIC, FAUNAL AND FLORA DATA. IT HAS IN ADDITION, AN EXTENSIVE BIBLIOGRAPHY. WATER ANALYSES WERE DONE BY AN INDEPENDENT LAB AND METHODS WERE NOT REPORTED.

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
DR. JAMES A. SCHMID 215-647-3110
JACK MCCORMICK AND ASSOCIATES
860 WATERLOO ROAD
DEVON, PENNSYLVANIA, USA 19333

GRID LOCATOR:
COMPLETE FILE DESCRIPTION LOCATED IN ANNEX II, PAGE 268.

DATA COLLECTED: JULY 1962 TO PRESENT

MONITORING PROJECTS:
DELAWARE ESTUARY WATER QUALITY SURVEILLANCE PROGRAM

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC, DELAWARE BAY, LOWER BAY ESTUARINE REGION, MARCUS HOOK PENNSYLVANIA TO TRENTON NEW JERSEY

ABSTRACT:
SINCE JULY 9, 1962, THE WATER DEPARTMENT HAS CONDUCTED A WEEKLY SURVEY BY BOAT OF THE QUALITY OF THE ESTUARINE WATERS OF THE DELAWARE RIVER FROM MARCUS HOOK, PA. TO TRENTON, NJ. THE PROGRAM CONSISTS OF A WEEKLY COLLECTION OF GRAB SAMPLES FROM THE CENTER OF THE NAVIGATION CHANNEL AT EACH OF 23 STATIONS. EACH LOCATION IS FIXED BY THE PILOT OF THE BOAT BY REFERENCE TO BUOYS, RANGE LIGHTS, AND OTHER NAVIGATION AIDS. ANALYSES INCLUDE: MERCURY, ALUMINUM, TEMPERATURE, PH, ALKALINITY, TURBIDITY, DISSOLVED OXYGEN, BOD, COD, SPECIFIC CONDUCTANCE, CHLORIDES, ORTH- AND POLY-PHOSPHATES, AMMONIA, NITRATE, NITRITE, PHENOLS, NICKEL, CADMIUM, COPPER, CHROMIUM, ARSENIC, MANGANESE, LEAD, AND BERYLLIUM. (DATA FROM 1965 TO 1972 IS AVAILABLE IN STORET. ACCESS: A=PHILWDPT)

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
DENNIS D. BLAIR 215-686-1776
PHILADELPHIA WATER DEPARTMENT
RESEARCH AND DEVELOPMENT DIVISION
1270 MSB 15TH AND JFK BLVD.
PHILADELPHIA, PENNSYLVANIA, USA 19107

GRID LOCATOR:
COMPLETE FILE DESCRIPTION LOCATED IN ANNEX II, PAGE 265.

DATA COLLECTED: JANUARY 1964 TO PRESENT

MONITORING PROJECTS:
MICROBIOLOGICAL ANALYSIS OF ESTUARINE ENVIRONMENTS

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, COASTAL, U. S., CHESAPEAKE BAY, MARYLAND

ABSTRACT:
ANALYSIS OF CHESAPEAKE BAY SEDIMENTS FOR BACTERIA AND VIRAL COMPONENTS WITH ANCILLARY DATA ON WATER TEMPERATURE, D. O., SALINITY AND NUTRIENTS.

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
DR. R. R. COLWELL 301-454-2848
DEPARTMENT OF MICROBIOLOGY
UNIVERSITY OF MARYLAND
COLLEGE PARK, MARYLAND, USA 20742

GRID LOCATOR:
COMPLETE FILE DESCRIPTION LOCATED IN ANNEX II, PAGE 204.

DATA COLLECTED: 1964 TO PRESENT

MONITORING PROJECTS:
WATER RESOURCES DATA FOR PENNSYLVANIA, WATER QUALITY RECORDS

GENERAL GEOGRAPHIC AREA:
NORTH AMERICA, U. S., PENNSYLVANIA

ABSTRACT:
THIS IS AN ONGOING STUDY OF THE QUALITY OF SURFACE WATERS OF PENNSYLVANIA. THERE ARE APPROXIMATELY 250 STATIONS FROM WHICH DATA ARE COLLECTED, MOST OF WHICH MONITOR STREAM DISCHARGE, TEMPERATURE, SPECIFIC CONDUCTIVITY AND DISSOLVED OXYGEN. IN ADDITION, ABOUT 200 STATIONS REPORT BIOCHEMICAL OXYGEN DEMAND, DISSOLVED CA, MG, NA, K, CL, F, SULFATE, NITRATE, ORTHOPHOSPHATE, CARBONDIOXIDE, BICARBONATE, AND CARBONATE, AS WELL AS PH, ALKALINITY, HARDNESS, NONCARBONATE HARDNESS AND COLOR. ABOUT 50 STATIONS ADDITIONALLY MONITOR DISSOLVED SILICA, FE AND MN, COLIFORM AND STREPTOCCI. SPOT CHECKS ARE MADE FOR SURFACTANTS, TURBIDITY, AND DISSOLVED AMMONIA, AL, AS, CD, CR, CU, PB, HG, NI, ZN AND A VARIETY OF PESTICIDES IN WATER AND SEDIMENTS. THE DATA ARE PRINTED ANNUALLY IN SUMMARY REPORTS. DETAILED DATA FROM MANY INDIVIDUAL STATIONS ARE AVAILABLE. (AVAILABLE AS ANNUAL REPORTS FOR ALL STATEWIDE MONITORS OR AS REPORTS FROM EACH STATION)

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
P. DEMARTE 717-782-4514
UNITED STATES GEOLOGICAL SURVEY
228 WALNUT STREET
HARRISBURG, PENNSYLVANIA, USA 17108

GRID LOCATOR:
COMPLETE FILE DESCRIPTION LOCATED IN ANNEX II, PAGE 236.

DATA COLLECTED: JANUARY 1965 TO PRESENT

MONITORING PROJECTS:
FISH KILL INVESTIGATIONS IN MARYLAND WATERS

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, COASTAL, U. S., CHESAPEAKE BAY, MARYLAND

ABSTRACT:
REPORTED FISH KILLS IN MARYLAND WATERS ARE INVESTIGATED. WATER ANALYSES AND ANALYSES OF FISH FOR CAUSE OF DEATH ARE CONDUCTED. COUNTS, SIZES, SPECIES LISTS AND VALUES FOR FISHES INVOLVED ARE RECORDED. (SUMMARY SHEETS BY YEAR WITH DATE, LOCATION, SPECIES, PROBABLE CAUSE OF KILL)

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
HOWARD KING 301-269-3783
FISHERIES ADMINISTRATION
MARYLAND DEPARTMENT OF NATURAL RESOURCES
TAWES STATE OFFICE BUILDING
ANNAPOLIS, MARYLAND, USA 21401

GRID LOCATOR:
COMPLETE FILE DESCRIPTION LOCATED IN ANNEX II, PAGE 40.

DATA COLLECTED: JANUARY 1966 TO PRESENT

MONITORING PROJECTS:
EUTHROPHICATION STUDIES IN PAMLICO RIVER, ALBERMARLE SOUND, AND NEUSE RIVER, NORTH CAROLINA

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, COASTAL, U. S., NORTH CAROLINA, PAMLICO AND NEUSE RIVERS, ALBERMARLE SOUND

ABSTRACT:
EUTHROPHICATION STUDIES FOR THE PAMLICO RIVER WERE BEGUN IN 1966, FOR THE ALBERMARLE SOUND AND NEUSE RIVER STUDIES BEGUN IN 1970. PARAMETERS MONITORED INCLUDE TEMPERATURE, SALINITY, DISSOLVED OXYGEN, PHOSPHORUS, NITROGEN, AND CHLOROPHYLL. THIRTY STATIONS IN THE PAMLICO WERE SAMPLED BIWEEKLY, 15 STATIONS IN THE NEUSE RIVER, AND 15 STATIONS IN ALBERMARLE SOUND WERE SAMPLED MONTHLY.

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
JOHN E. HOBBIE 919-737-2589
DEPARTMENT OF ZOOLOGY
NORTH CAROLINA STATE UNIVERSITY
RALEIGH, NORTH CAROLINA, USA 27607

GRID LOCATOR:
COMPLETE FILE DESCRIPTION LOCATED IN ANNEX II, PAGE 192.

DATA COLLECTED: 1967 TO PRESENT

MONITORING PROJECTS:
PEACH BOTTOM ATOMIC POWER STATION PREOPERATIONAL REPORT ON THE ECOLOGY OF CONOWINGO POND

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, COASTAL, U. S., PENNSYLVANIA, MARYLAND, SUSQUEHANNA RIVER, CONOWINGO DAM TO HOLTWOOD DAM

ABSTRACT:
THIS STUDY WAS DESIGNED TO SERVE THE TWO PURPOSES OF ESTABLISHING BASELINE ECOLOGICAL DATA IN THE AREA OF AN ATOMIC POWER STATION AND OF MONITORING CHANGES THAT OCCURRED IN THE ECOLOGY OF THAT AREA BECAUSE OF THE OPERATION OF THE POWER STATION. BASIC WATER QUALITY PARAMETERS SUCH AS TEMPERATURE, PH, DISSOLVED OXYGEN AND CARBONATE/BICARBONATE CONTENT ARE INCLUDED WITH A COMPREHENSIVE BIOLOGICAL SURVEY COMPRISED OF TAXONOMIC LISTS AND POPULATIONS OF PHYTOPLANKTON, BENTHOS AND FISH. STATISTICAL ANALYSES OF FISH POPULATIONS AND FEEDING HABITS ARE INCLUDED AS ARE RESULTS OF AN EXPERIMENT TO DETERMINE TEMPERATURE PREFERENCES OF FISH.

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
WALTER ROSENGARTEN 215-841-6380
PHILADELPHIA ELECTRIC COMPANY
2301 MARKET STREET
PHILADELPHIA, PENNSYLVANIA, USA 19101

GRID LOCATOR:
COMPLETE FILE DESCRIPTION LOCATED IN ANNEX II, PAGE 239.

DATA COLLECTED: JUNE 1968 TO PRESENT

MONITORING PROJECTS:
CHESAPEAKE BAY, CALVERT CLIFFS SURVEY REPORTS FOR THE BALTIMORE GAS AND ELECTRIC COMPANY

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, COASTAL, U. S., CHESAPEAKE BAY

ABSTRACT:
TO DETERMINE THE ECOSYSTEM STRUCTURE AND ITS ECOLOGICAL CHARACTERISTICS, PARTICULARLY DIVERSITY, IN CERTAIN SELECTED, SHALLOW-WATER AREAS IN THE VICINITY OF CALVERT CLIFFS NUCLEAR GENERATING STATION. A BAY SURVEY IS BEING CARRIED OUT INCLUDING BIOLOGICAL, CHEMICAL, PHYSICAL, AND BACTERIOLOGICAL STUDIES OF THE WATER. THE STUDY IS TO DETERMINE A BASELINE PICTURE OF CHESAPEAKE BAY CONDITIONS BEFORE PLANT OPERATIONS BEGIN.

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
DR. CLYDE E. GOULDEN 215-567-3700
THE ACADEMY OF NATURAL SCIENCES
NINETEENTH AND THE PARKWAY
PHILADELPHIA, PENNSYLVANIA, USA 19103

GRID LOCATOR:
COMPLETE FILE DESCRIPTION LOCATED IN ANNEX II, PAGE 184.

DATA COLLECTED: JANUARY 1969 TO PRESENT

MONITORING PROJECTS:
CHEMICAL, BACTERIOLOGICAL AND PHYSICAL STUDY ON THE CHESAPEAKE BAY IN THE VICINITY OF CALVERT CLIFFS, MARYLAND

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, U. S., COASTAL, CHESAPEAKE BAY, CALVERT CLIFFS

ABSTRACT:
WATER SAMPLES OBTAINED MONTHLY FROM STATIONS IN THE VICINITY OF THE CALVERT CLIFFS NUCLEAR GENERATING STATION, MARYLAND ARE ANALYZED FOR A NUMBER OF CHEMICAL, BACTERIOLOGICAL AND PHYSICAL PARAMETERS. THE RESULTS OF THESE ANALYSES ARE AVAILABLE FROM THE BALTIMORE GAS AND ELECTRIC COMPANY (BGE) IN THE FORM OF YEARLY CONTRACT REPORTS BY THE ACADEMY OF NATURAL SCIENCES OF PHILADELPHIA BENEDICT ESTUARINE RESEARCH LABORATORY.

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:

DIRECTOR 301-274-3134
BENEDICT ESTUARINE RESEARCH LABORATORY
ACADEMY OF NATURAL SCIENCES OF PHILADELPHIA
BENEDICT, MARYLAND, USA 20612

N. G. LASSAHN 301-234-6188
BALTIMORE GAS AND ELECTRIC COMPANY
1020 GAS AND ELECTRIC BUILDING
LEXINGTON AND LIBERTY STREETS
BALTIMORE, MARYLAND, USA 21203

GRID LOCATOR:
COMPLETE FILE DESCRIPTION LOCATED IN ANNEX II, PAGE 179.

DATA COLLECTED: JANUARY 1969 TO PRESENT

MONITORING PROJECTS:
PHYTOPLANKTON ECOLOGY IN ESTUARINE ENVIRONMENT

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, COASTAL, U. S., CHESAPEAKE BAY, MARYLAND

ABSTRACT:
INVESTIGATION INTO PHYTOPLANKTON ECOLOGY IN THE RHODE, SOUTH AND WEST RIVERS AND THE CHESAPEAKE BAY. DATA INCLUDES SPECIES DETERMINATION AND COUNTS FOR PHYTO- AND ZOOPLANKTON, PRODUCTIVITY, HETEROTROPHY, NUTRIENTS AND PHYSO-CHEMICAL PROPERTIES. (WRITE DR. SELIGER FOR BIBLIOGRAPHIC LISTING.)

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
DR. H. H. SELIGER 301-338-7330
DEPARTMENT OF BIOLOGY
THE JOHNS HOPKINS UNIVERSITY
BALTIMORE, MARYLAND, USA 21218

GRID LOCATOR:
COMPLETE FILE DESCRIPTION LOCATED IN ANNEX II, PAGE 202.

DATA COLLECTED: OCTOBER 1969 TO PRESENT

MONITORING PROJECTS:
HYDROGRAPHIC, CHEMICAL AND BACTERIOLOGICAL SURVEY

GENERAL GEOGRAPHIC AREA:
U. S., COASTAL, NORTH ATLANTIC, CHESAPEAKE BAY, MARYLAND, PATUXENT RIVER, POTOMAC RIVER, CALVERT CLIFFS AREA, MARYLAND

ABSTRACT:
HYDROGRAPHIC, CHEMICAL AND BACTERIOLOGICAL SURVEYS ARE CONDUCTED BY THE ACADEMY OF NATURAL SCIENCES OF PHILADELPHIA BENEDICT ESTUARINE RESEARCH LABORATORY IN THE VICINITY OF THREE POWER GENERATING STATIONS IN MARYLAND. THEY ARE THE CHALK POINT STATION ON THE PATUXENT RIVER, THE MORGANTOWN GENERATING STATION ON THE POTOMAC RIVER AND THE CALVERT CLIFFS NUCLEAR GENERATING STATION ON THE CHESAPEAKE BAY. THE CONTRACT AGENCIES ARE THE BALTIMORE GAS AND ELECTRIC COMPANY (BGE) FOR THE CALVERT CLIFFS STATION AND THE POTOMAC ELECTRIC POWER COMPANY (PEPCO) FOR BOTH THE CHALK POINT AND THE MORGANTOWN STATIONS.

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
DIRECTOR 301-274-3134
BENEDICT ESTUARINE RESEARCH LABORATORY
ACADEMY OF NATURAL SCIENCES OF PHILADELPHIA
BENEDICT, MARYLAND, USA 20612

GRID LOCATOR:
COMPLETE FILE DESCRIPTION LOCATED IN ANNEX II, PAGE 120.

DATA COLLECTED: DECEMBER 1969 TO PRESENT

MONITORING PROJECTS:
R/V EASTWARD CRUISE PROGRESS REPORTS, NORFOLK CANYON STUDIES, CAPE HATTERAS BIOGEOGRAPHIC STUDIES

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, COASTAL, U. S., CONTINENTAL SHELF OFF VIRGINIA AND NORTH CAROLINA

ABSTRACT:
YEARLY SURVEY OF HYDROGRAPHIC PARAMETERS AND ZOOPLANKTON ON THE CONTINENTAL SHELF AND SLOPE OFF THE COAST OF NORTH CAROLINA AND VIRGINIA. SAMPLING DESIGNED TO STUDY THE BIOGEOGRAPHIC REGIONS AND FAUNAL BOUNDARY NORTH AND SOUTH OF CAPE HATTERAS AS WELL AS THE NORFOLK CANYON AREA.

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
GEORGE GRANT 804-642-2111
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT, VIRGINIA, USA 23062

GRID LOCATOR:
COMPLETE FILE DESCRIPTION LOCATED IN ANNEX II, PAGE 145.

DATA COLLECTED: MARCH 1971 TO PRESENT

MONITORING PROJECTS:
PRIMARY PRODUCTIVITY STUDIES IN THE POTOMAC RIVER

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, COASTAL, U. S., MARYLAND, POTOMAC RIVER

ABSTRACT:
STUDIES ON THE RATE OF PRIMARY PRODUCTIVITY RELATED TO VARIOUS ABIOTIC PARAMETERS. PRODUCTIVITY RATES CORRELATED TO CHLOROPHYLL CONCENTRATIONS. SPECIAL EMPHASIS PLACED ON PRODUCTIVITY RATES OF THE NANNOPLANKTON (SAMPLED MARCH, MAY, JUNE, AUGUST, OCTOBER, NOVEMBER, 2 DAYS EACH MONTH).

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
DENNIS BURTON 301-274-3134
BENEDICT ESTUARINE LABORATORY
BENEDICT, MARYLAND, USA 20612

GRID LOCATOR:
COMPLETE FILE DESCRIPTION LOCATED IN ANNEX II, PAGE 112.

DATA COLLECTED: APRIL 1971 TO PRESENT

MONITORING PROJECTS:
PRIMARY PRODUCTIVITY STUDIES IN THE CHESAPEAKE BAY

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, COASTAL, U. S., MARYLAND, CALVERT CLIFFS

ABSTRACT:
STUDIES ON THE RATE OF PRIMARY PRODUCTIVITY IN THE WATERS NEAR THE CALVERT CLIFFS POWER STATION; RESPIRATION RATES COMPUTED. VARIOUS BIOTIC AND ABIOTIC PARAMETERS MEASURED. SPECIAL EMPHASIS ON PRODUCTIVITY OF NANOPLANKTON. (STATION OCCUPIED IN APRIL, SEPTEMBER, DECEMBER).

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
DENNIS BURTON 301-274-3134
BENEDICT ESTUARINE LABORATORY
BENEDICT, MARYLAND, USA 20612

GRID LOCATOR:
COMPLETE FILE DESCRIPTION LOCATED IN ANNEX II, PAGE 114.

DATA COLLECTED: JUNE 1971 TO PRESENT

MONITORING PROJECTS:
CARBON FLUX IN AN ESTUARINE MARSH

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, COASTAL, U. S., VIRGINIA, YORK RIVER, WARE AND CARTER CREEKS

ABSTRACT:
LEVELS OF ORGANIC AND INORGANIC CARBON, ADENOSINE TRIPHOSPHATE, OXYGEN AND SALINITY HAVE BEEN MEAUSRED ON WATER SAMPLES COLLECTED MONTHLY AT A DEPTH OF 6 INCHES IN THE CHESAPEAKE BAY, BEGINNING JUNE 1971 AND CONTINUING TO THE PRESENT.

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
LIBRARIAN 804-642-2111
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT, VIRGINIA, USA 23062

GRID LOCATOR:
COMPLETE FILE DESCRIPTION LOCATED IN ANNEX II, PAGE 63.

DATA COLLECTED: JUNE 1971 TO PRESENT

MONITORING PROJECTS:
THE ROLE OF MARSHES IN PHOSPHORUS, NITROGEN AND DETRITUS DYNAMICS OF COASTAL PLAIN ESTUARIES

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, COASTAL, U. S., VIRGINIA, YORK RIVER, WARE AND CARTER CREEKS

ABSTRACT:
PHOSPHORUS, NITROGEN AND DETRITUS DYNAMICS OF COASTAL ESTUARIES IN THE LOWER YORK RIVER. TWO STATIONS WERE SAMPLED EVERY MONTH AT HOURLY INTERVALS OVER A 24 HOUR CYCLE FROM 1971 TO THE PRESENT. DATA IS PART OF A DISSENTATION.

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
LIBRARIAN 804-642-2111
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT, VIRGINIA, USA 23062

GRID LOCATOR:
COMPLETE FILE DESCRIPTION LOCATED IN ANNEX II, PAGE 71.

DATA COLLECTED: JUNE 1971 TO PRESENT

MONITORING PROJECTS:
PRIMARY PRODUCTIVITY STUDIES IN THE PATUXENT RIVER

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, COASTAL, U. S., MARYLAND, PATUXENT RIVER

ABSTRACT:
STUDIES ON THE RATE OF PRIMARY PRODUCTIVITY RELATED TO VARIOUS ABIOTIC PARAMETERS. PRODUCTIVITY RATES CORRELATED TO CHLOROPHYLL CONCENTRATION. SPECIAL EMPHASIS PLACED ON PRODUCTIVITY RATES OF THE NANOPLANKTON. (SAMPLED JULY, AUGUST, SEPTEMBER, OCTOBER).

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
DENNIS BURTON 301-274-3134
BENEDICT ESTUARINE LABORATORY
BENEDICT, MARYLAND, USA 20612

GRID LOCATOR:
COMPLETE FILE DESCRIPTION LOCATED IN ANNEX II, PAGE 116.

DATA COLLECTED: JUNE 1971 TO PRESENT

MONITORING PROJECTS:
EFFECTS OF NUCLEAR STATION OPERATIONS ON ESTUARINE SYSTEMS

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, COASTAL, U. S., MARYLAND, CALVERT COUNTY

ABSTRACT:
STARTED IN JUNE OF 1971, THIS CONTINUING STUDY ON THE ECOLOGICAL EFFECTS OF NUCLEAR STEAM ELECTRIC STATION OPERATIONS ON THE ESTUARINE SYSTEMS ON THE WESTERN SHORE OF THE CHESAPEAKE BAY IN CALVERT COUNTY, MARYLAND IS CONCERNED WITH PARAMETERS SUCH AS WEATHER DATA, SALINITY, DISSOLVED OXYGEN, AND THE GENERAL CONDITIONS OF PHYTOPLANKTON, ZOOPLANKTON AND BENTHIC ANIMALS INHABITING THE ECOSYSTEM.

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
DIRECTOR 301-535-2121
HALLOWING POINT FIELD STATION
NATURAL RESOURCES INSTITUTE
ROUTE 1
PRINCE FREDERICK, MARYLAND, USA 20678

GRID LOCATOR:
COMPLETE FILE DESCRIPTION LOCATED IN ANNEX II, PAGE 242.

DATA COLLECTED: AUGUST 1971 TO PRESENT

MONITORING PROJECTS:
NUTRIENT STUDIES ON THE RHODE RIVER ECOSYSTEM AND AUTOTROPHIC - HETEROTROPHIC PHOSPHORUS METABOLISM IN MICROBIAL COMMUNITIES

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, COASTAL, U. S., CHESAPEAKE BAY, MARYLAND, RHODE RIVER

ABSTRACT:
EXTENSIVE BASELINE NUTRIENT STUDIES ON THE RHODE RIVER ECOSYSTEM INCLUDING HYDROGRAPHIC DATA, PHOSPHORUS METABOLISM OF PLANKTON AND PERIPHYTON, PRIMARY PRODUCTIVITY OF PERIPHYTON, UPLAND PLANTS, AND MARSH PLANTS, NEW TECHNIQUES FOR PHOSPHORUS METABOLISM STUDY IN PLANKTON AND PERIPHYTON.

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
DAVID L. CORRELL 301-261-4190
CHESAPEAKE BAY CENTER FOR ENVIRONMENTAL STUDIES
SMITHSONIAN INSTITUTION
ROUTE 4, BOX 622
EDGEWATER, MARYLAND, USA 21037

GRID LOCATOR:
COMPLETE FILE DESCRIPTION LOCATED IN ANNEX II, PAGE 6.

DATA COLLECTED: AUGUST 1971 TO PRESENT

MONITORING PROJECTS:
CALVERT CLIFFS WATER QUALITY AND PHYTOPLANKTON SURVEY

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, COASTAL, U. S., MARYLAND, CALVERT CLIFFS

ABSTRACT:
PHYTOPLANKTON AND WATER QUALITY SAMPLES ARE OBTAINED AT BIWEEKLY INTERVALS FROM SEVEN STATIONS IN THE VICINITY OF THE CALVERT CLIFFS NUCLEAR S.E.S. SITE ON THE WESTERN SHORE OF THE CHESAPEAKE BAY. DATA WILL BE USED FOR PRE- AND POST- OPERATIVE ASSESSMENT OF POWER PLANT'S ENVIRONMENTAL INFLUENCE. (PROGRESS REPORTS TO U. S. ATOMIC ENERGY COMMISSION).

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
DIRECTOR 301-326-4281
CHESAPEAKE BIOLOGICAL LABORATORY
SOLOMONS, MARYLAND, USA 20688

GRID LOCATOR:
COMPLETE FILE DESCRIPTION LOCATED IN ANNEX II, PAGE 54.

DATA COLLECTED: OCTOBER 1971 TO PRESENT

MONITORING PROJECTS:
PRIMARY PRODUCTIVITY IN THE AREA OF THE CALVERT CLIFFS OUTFALL

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, COASTAL, U. S., MARYLAND, CALVERT CLIFFS

ABSTRACT:
STUDIES ON THE RATE OF PRIMARY PRODUCTIVITY RELATED TO VARIOUS ABIOTIC PARAMETERS. PRODUCTIVITY RATES CORRELATED TO CHLOROPHYLL CONCENTRATION. SPECIAL EMPHASIS PLACED ON THE PRODUCTIVITY RATES OF NANNOPLANKTON.

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
DENNIS BURTON 301-274-3134
BENEDICT ESTUARINE LABORATORY
BENEDICT, MARYLAND, USA 20612

GRID LOCATOR:
COMPLETE FILE DESCRIPTION LOCATED IN ANNEX II, PAGE 118.

DATA COLLECTED: APRIL 1972 TO PRESENT

MONITORING PROJECTS:
VEPCO YORKTOWN POWER STATION ECOLOGICAL STUDY

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, COASTAL, U. S., VIRGINIA, LOWER YORK RIVER

ABSTRACT:
A CONTINUING ECOLOGICAL STUDY OF THE VEPCO YORKTOWN POWER STATION IN THE YORK RIVER CONSISTING OF 4 STATIONS SAMPLED MONTHLY FROM THE SURFACE TO THE BOTTOM AT 2 METER INTERVALS. PHYSICAL AND CHEMICAL PARAMETERS ARE STRESSED.

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
ROBERT JORDAN 804-642-2111
VIRGINIA INSTITUTE OF MARINE SCIENCE
GLOUCESTER POINT, VIRGINIA, USA 23062

GRID LOCATOR:
COMPLETE FILE DESCRIPTION LOCATED IN ANNEX II, PAGE 69.

DATA COLLECTED: JUNE 1972 TO PRESENT

MONITORING PROJECTS:
ENVIRONMENTAL CONSULTATION-WETLANDS LYNNHAVEN AREA OF LOWER CHESAPEAKE BAY AND ELIZABETH RIVER

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC COEAN, COASTAL, U. S., LOWER CHESAPEAKE BAY, VIRGINIA, LYNNHAVEN BAY, ELIZABETH RIVER

ABSTRACT:
SURVEY OF HYDROGRAPHIC AND BIOLOGICAL PARAMETERS OF LOWER CHESAPEAKE BAY AND ELIZABETH RIVER, VIRGINIA. DATA COLLECTED IN CONJUNCTION WITH CONTRACT WORK FOR CONTRACTORS AND LAND DEVELOPERS.

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
PAUL KIRK 804-489-6000
INSTITUTE OF OCEANOGRAPHY
OLD DOMINION UNIVERSITY
NORFOLK, VIRGINIA, USA 23508

GRID LOCATOR:
COMPLETE FILE DESCRIPTION LOCATED IN ANNEX II, PAGE 139.

DATA COLLECTED: AUGUST 1972 TO PRESENT

MONITORING PROJECTS:
CHLOROPHYLL AND SUSPENDED MATERIAL IN THE WATERS OF LOWER CHESAPEAKE BAY

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, COASTAL, U. S., LOWER CHESAPEAKE BAY

ABSTRACT:
ONGOING STUDY (STARTED AUGUST 1972) OF CHLOROPHYLL AND SUSPENDED MATERIAL IN THE WATERS OF THE LOWER CHESAPEAKE BAY IN CONJUNCTION WITH REMOTE SENSING, NASA ERTS PROJECT, GODDARD SPACE FLIGHT CENTER, GREENBELT, MARYLAND.

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
PETER FLEISCHER 804-489-6000
INSTITUTE OF OCEANOGRAPHY
OLD DOMINION UNIVERSITY
NORFOLK, VIRGINIA, USA 23508

GRID LOCATOR:
COMPLETE FILE DESCRIPTION LOCATED IN ANNEX II, PAGE 134.

DATA COLLECTED: SEPTEMBER 1972 TO PRESENT

MONITORING PROJECTS:
THE EFFECTS OF MORGANTOWN STEAM ELECTRIC STATION ON ORGANISMS PUMPED THROUGH A COOLING SYSTEM

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, COASTAL, U. S., MARYLAND, POTOMAC RIVER, MORGANTOWN

ABSTRACT:
EFFECTS ON ORGANISMS PUMPED THROUGH A COOLING SYSTEM AT THE MORGANTOWN, MARYLAND STEAM ELECTRIC STATION. FOLLOWING PATTERNS WERE MEASURED: TEMPERATURE, SALINITY, CHLORINITY, DISSOLVED OXYGEN, TOTAL CHLOROPHYLL, PHOTOSYNTHETIC RATE.

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
DIRECTOR 301-535-2121
HALLOWING POINT FIELD STATION
NATURAL RESOURCES INSTITUTE
ROUTE 1
PRINCE FREDERICK, MARYLAND, USA 20678

GRID LOCATOR:
COMPLETE FILE DESCRIPTION LOCATED IN ANNEX II, PAGE 108.

DATA COLLECTED: MAY 1973 TO PRESENT

MONITORING PROJECTS:
HAMPTON ROADS SEWAGE OUTFALL SURVEY

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, COASTAL, U. S., VIRGINIA, HAMPTON ROADS, ELIZABETH, JAMES AND LAFAYETTE RIVERS

ABSTRACT:
SURVEY OF HYDROGRAPHIC AND WATER QUALITY PARAMETERS IN HAMPTON ROADS, VIRGINIA, NEAR SEVERAL SEWAGE TREATMENT PLANTS.

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
DONALD ADAMS 804-489-6000
INSTITUTE OF OCEANOGRAPHY
OLD DOMINION UNIVERSITY
NORFOLK, VIRGINIA, USA 23508

GRID LOCATOR:
COMPLETE FILE DESCRIPTION LOCATED IN ANNEX II, PAGE 130.

DATA COLLECTED: MAY 1973 TO PRESENT

MONITORING PROJECTS:
NASA SKYLAB: APPLICATION OF SKYLAB IN THE STUDY OF COASTAL PRODUCTIVITY AREAS

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, COASTAL, U. S., MARYLAND, ASSATEAGUE ISLAND

ABSTRACT:
PROJECT TO CORRELATE CHLOROPHYLL AND PHYTOPLANKTON CONCENTRATIONS TO REMOTE SENSING TECHNIQUES. REMOTE SENSING WITH THE USE OF SKYLAB 2 IN COOPERATION WITH NASA, LANGLEY.

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
HAROLD G. MARSHALL 804-489-6000
DEPARTMENT OF BIOLOGICAL SCIENCES
OLD DOMINION UNIVERSITY
NORFOLK, VIRGINIA, USA 23508

GRID LOCATOR:
COMPLETE FILE DESCRIPTION LOCATED IN ANNEX II, PAGE 141.

DATA COLLECTED: JULY 1973 TO PRESENT

MONITORING PROJECTS:
CHESTER RIVER SAMPLING PROGRAM

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, COASTAL, U. S., CHESAPEAKE BAY, MARYLAND, CHESTER RIVER

ABSTRACT:
MONTHLY WATER SAMPLES ARE OBTAINED FROM CHESTER RIVER BY CITIZENS OF CHESTERTOWN, MARYLAND AND ARE MEASURED FOR WATER QUALITY BY USE OF A TEST KIT.

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
DIRECTOR 301-268-8816
CHESAPEAKE BAY FOUNDATION, INC.
BOX 1709
ANNAPOLIS, MARYLAND, USA 21404

GRID LOCATOR:
COMPLETE FILE DESCRIPTION LOCATED IN ANNEX II, PAGE 17.

DATA COLLECTED: JULY 1973 TO PRESENT

MONITORING PROJECTS:
EVALUATION OF CHANNELIZATION EFFECTS ON AQUATIC HABITAT

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, COASTAL, U. S., MARYLAND, EASTERN SHORE

ABSTRACT:
EXTENSIVE DATA BASE ON 19 CHANNELIZED STREAMS INCLUDING WATER CHEMISTRY, BENTHOS, AND FISHES. COMPARISONS ACROSS STREAMS BASED UPON TIME SINCE CHANNELIZED. DETERMINATION OF RECOVERY TIME AND SEQUENCE OF BIOTA AND CHEMICAL FACTORS.

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
W. C. CARTER 301-269-5361
MARYLAND DEPARTMENT OF NATURAL RESOURCES
TAWES STATE OFFICE BUILDING
ANNAPOLIS, MARYLAND, USA 21401

GRID LOCATOR:
COMPLETE FILE DESCRIPTION LOCATED IN ANNEX II, PAGE 48.

DATA COLLECTED: JULY 1973 TO PRESENT

MONITORING PROJECTS:
LOWER RIVER TRIBUTARY DATA

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, COASTAL, U. S., DELAWARE, DELAWARE RIVER BASIN

ABSTRACT:
FISH WERE SAMPLED MONTHLY FROM 21 STATIONS IN THE DELAWARE RIVER TRIBUTARIES EMPLOYING OTTER TRAWL, FRAME TRAWL, AND HALL SEINE. CHLORINE, PH, TURBIDITY, ORTHOPHOSPHATE, NITRATE, CARBON DIOXIDE, HARDNESS, ALKALINITY, DISSOLVED OXYGEN, AND TEMPERATURE WERE MONITORED.

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
JOSEPH P. MILLER 609-397-0115
DELAWARE RIVER BASIN, ANADROMOUS FISHERIES STUDY
P. O. BOX 95
ROSEMONT, NEW JERSEY, USA 08556

GRID LOCATOR:
COMPLETE FILE DESCRIPTION LOCATED IN ANNEX II, PAGE 194.

DATA COLLECTED: MARCH 1974 TO PRESENT

MONITORING PROJECTS:
PHYTOPLANKTON RESPONSE TO WATER QUALITY IN THE CHOWAN RIVER ESTUARY

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, COASTAL, U. S., NORTH CAROLINA, CHOWAN RIVER

ABSTRACT:
A SURVEY TO MONITOR WATER QUALITY AND HOW IT AFFECTS POPULATIONS OF PHYTOPLANKTON IN THE CHOWAN RIVER ESTUARY OF NORTH CAROLINA.

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
DR. A. M. WITHERSPOON 919-737-2589
DEPARTMENT OF BOTANY
NORTH CAROLINA STATE UNIVERSITY
RALEIGH, NORTH CAROLINA, USA 27607

GRID LOCATOR:
COMPLETE FILE DESCRIPTION LOCATED IN ANNEX II, PAGE 198.

DATA COLLECTED: JULY 1974 TO PRESENT

MONITORING PROJECTS:
POLLUTION FROM RURAL LAND RUNOFF IN CHOWAN RIVER

GENERAL GEOGRAPHIC AREA:
NORTH ATLANTIC OCEAN, COASTAL, U. S., NORTH CAROLINA, CHOWAN RIVER

ABSTRACT:
A SURVEY TO MONITOR CHEMICAL AND WASTE POLLUTION AND ITS RUNOFF INTO THE CHOWAN RIVER ESTUARY OF NORTH CAROLINA.

DATA AVAILABILITY:

PLATFORM TYPE:

ARCHIVE MEDIA:

FUNDING:

INVENTORY:

PUBLICATIONS:

CONTACT:
DR. A. M. WITHERSPOON 919-737-2589
DEPARTMENT OF BOTANY
NORTH CAROLINA STATE UNIVERSITY
RALEIGH, NORTH CAROLINA, USA 27607

GRID LOCATOR:
COMPLETE FILE DESCRIPTION LOCATED IN ANNEX II, PAGE 200.