Virginia Chesapeake Monitoring Bay Program-Fluorescence Monitoring Component

Metadata:

Identification_Information:
Citation:
Citation_Information:
Originator: Susan Daughton
Originator: Old Dominion University
Publication_Date: 20081001
Title:
Virginia Chesapeake Monitoring Bay Program-Fluorescence Monitoring Component
Edition: Unknown
Geospatial_Data_Presentation_Form: database
Publication_Information:
Publication_Place: Annapolis, Maryland USA
Publisher: US EPA Chesapeake Bay Program
Other_Citation_Details:
Unknown
Description:
Abstract:
Vertical fluorescence profiles were measured at station in the Chesapeake Bay Mainstem. Data were typically collected monthly between 1991 and present. At all stations in vivo fluorescence readings were made at 0.5, 1.0, 2.0, and 3.0 meters below the surface and ever three meters thereafter and one meter above the bottom. From 1991-1995 sampling was performed by the Virginia Institute of Marine Sciences and Old Dominion University.
Purpose:
The state of Virginia, in cooperation with the US EPA Chesapeake Bay Program, has used in vivo fluorescence to measure horizontal and vertical profiles of chlorophyll a between fixed monitoring stations in the Virginia Chesapeake Bay mainstem since January 1991. The program is designed to give comprehensive geographicl and seasonal information on phytoplankton. Sampling is performed in conjunction with the Virginia phytoplankton, zooplankton and water quality onitoring programs.
Supplemental_Information:
-Stations sampled by Old Dominion University from 1991-Present
CB7.3-Lower Chesapeake Bay, Near Light Buoy R20, Main Bay
CB7.3E-Lower Chesapeake Bay , Off of Old Plantation Light, Main Bay
CB7.4 -Baltimore Channel, Mouth of Bay, Main Bay
CB7.4N-Off of Fishermans Island, Mouth of Bay, Main Bay
CB8.1-Off of Norfolk Airport, Off of light Buoy G11, Main Bay
CB8.1E-Near Cape Henry Light, Near Bell Buoy G1TS. Mouth of Bay, Main Bay
LE5.5-Mouth of James River, off of Hamption Roads, Main Bay

Stations collected by the by Old Dominion University from 1996-Present.
CB5.4-Central Chesapeake Bay, Main Bay
CB5.4W-Mouth of Great Wicomico River, Main Bay
CB5.5 -Central Chesapeake Bay off of Dividing Creek, Main Bay
CB6.1-Central Chesapeake Bay off of Rappahannock Dumping Grounds, Main Bay
CB6.2-Central Chesapeake Bay, Main Bay
CB6.3-Central Chesapeake Bay North of Wolf Trap Light, Main Bay
CB7.1-Central Chesapeake Bay, Main Bay
CB7.1N-South of Tangier Island, Central Chesapeake Bay, Main Bay
CB7.1S-Central Chesapeake Bay off of Light Buoy G49, Main Bay
CB7.2-Central Chesapeake Bay off of Light Buoy G41, Main Bay
CB7.2E -Near Mouth of Mattawomam Creek, Main Bay
EE3.4-Off of Saxis Wildlife Management Area, Pocomoke Sound, Main Bay
EE3.5-Near Light 4S off Watts Island, Main Bay
LE3.6-Off Mouth of Rappahannock River
LE3.6N -Off Windmill Point of Rappahannock River
LE3.6S-Off Stingray Point of Rappahannock River
LE3.7-Mouth of Piankatank River, Main Bay
WE4.1-Central Bay, Mobjack Bay, York River
WE4.2-Off Mouth of York River
WE4.2N -Off of Hog Island, Mouth of York River, Mobjack Bay, York River
WE4.2S -Off of Goodwin Island, Mouth of York River, Mobjack Bay , York River
WE4.3-Mouth of Posquoson River, Mobjack\ Bay, York River
WE4.4-Mouth of Back River, Main Bay
Time_Period_of_Content:
Time_Period_Information:
Range_of_Dates/Times:
Beginning_Date: 19910101
Ending_Date: Present
Currentness_Reference:
ground condition
Status:
Progress: Complete

Maintenance_and_Update_Frequency: Biannually
Spatial_Domain:
Bounding_Coordinates:
West_Bounding_Coordinate: -76.38472
East_Bounding_Coordinate: -75.63389
North_Bounding_Coordinate: 37.95083
South_Bounding_Coordinate: 36.945
Keywords:
Theme:
Theme_Keyword_Thesaurus: None
Theme_Keyword: CHLOROPHYLL
Theme_Keyword: WATER QUALITY
Theme_Keyword: FLUORESCENCE
Place:
Place_Keyword_Thesaurus: None
Place_Keyword: CHESAPEAKE BAY
Stratum:
Stratum_Keyword_Thesaurus: None
Stratum_Keyword: WATER COLUMN
Temporal:
Temporal_Keyword_Thesaurus: None
Temporal_Keyword: MONTHLY
Access_Constraints: None
Use_Constraints:
Dataset credit required
Point_of_Contact:
Contact_Information:
Contact_Person_Primary:
Contact_Person: Jacqueline Johnson
Contact_Organization: Interstate Commission on Potomac River Basin
Contact_Position: Chesapeake Bay Program Living Resources Data Manager
Contact_Address:
Address_Type: mailing and physical address
Address:
410 Severn Avenue, Suite 109
City: Annapolis
State_or_Province: Maryland
Postal_Code: 21403
Country: USA
Contact_Voice_Telephone: 1-800-968-7229
Contact_Voice_Telephone: 410-267-5729
Contact_Facsimile_Telephone: 410-267-5777
Contact_Electronic_Mail_Address: jjohnson@chesapeakebay.net
Hours_of_Service: 8:00 a.m. to 4:00 p.m. Monday Through Friday
Contact Instructions:
unavailable
Data_Set_Credit:
Old Dominion University, Virginia Department of Environmental Quality, USEPA Chesapeake Bay Program
Security_Information:
Security_Classification: Unclassified
Cross_Reference:
Citation_Information:
Originator: Jacqueline Johnson
Publication_Date: 20000101
Publication_Time: Unknown
Title:
2000 Users' Guide to Chesapeake Bay Program Biological and Living Resources Data
Edition: Version 1
Publication_Information:
Publication_Place: Annapolis, MD
Publisher: USEPA CHESAPEAKE BAY PROGRAM OFFICE
Other_Citation_Details:
Unknown
Online_Linkage: https://archive.chesapeakebay.net/pub/living_resources/guide2000.pdf

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Data_Quality_Information:
Attribute_Accuracy:
Attribute_Accuracy_Report:
In Vivo fluorescence readings were converted into Chlorohhyll a estimates by a regression calibration for chlorophyll A taken in the field
Logical_Consistency_Report:
Not Available
Completeness_Report:
Spectrophotometric analysis of grab samples collected on Whatman GF/F filters during the cruise are used to formulate a linear regression of chlorophyll a against in vivo fluorescence (IVF). These linear regressions are then used to convert the remaining IVF's to chlorophyll. Only the resulting chlorophyll a, and not the IVF itself, is contained in this data file. Zero chlorophyll a values reflect values below detection threshold of methods. In the ASCII version of the data set a zero values with a detection limit flag of '0 >' indicate IVF values less than the detection limit of the method. In vivo fluorescence was measured using a Turner Model 57 Fluoreometer in all Virginia programs until 1997 (Cheapeake Bay Program Analytical

Method Codes-
CHLF102,CHL103,CHL104). After April 1997 a TURNER MODEL 10-005R Fluorometer was used for in vivo measurements (Cheapeake Bay Program Analytical Method Code-CHLF105,CHL106).

Positional_Accuracy:
Horizontal_Positional_Accuracy:
Horizontal_Positional_Accuracy_Report:

>DETERMINATION OF LATITUDE AND LONGITUDE IN ALL MAINSTEM VERTICAL FLUORESCENCE SURVEY FROM OLD DOMINION UNIVERSITY.

-Chesapeake Bay Program Analytical Method Code-CHLF103 From 1991 to present, station positions in data set are approximations of actual positions in the field. The sampling station latitudes and longitudes are programmed in to a Loran-C (from 1991 to July 1995) or GPS (after July 1995) receiver and the sampling commences when the boat reaches the preset coordinates. The actual Loran or GPS coordinates for each sampling event are not recorded in data set.

>DETERMINATION OF LATITUDE AND LONGITUDE IN HORIZONTAL FLUORESCENCE SURVEY FOR DATA COLLECTED BY OLD DOMINION UNIVE

Sampling sites along transects were determined using the simple geometry of right triangles to compute latitude and longitude, Loran-C or GPS. Fluorescence samples are collected every 30 seconds while the boat is underway. Fluorescence values are recorded directly to a data logger. The actual sampling site latitudes and longitudes recorded to the data logger from Loran-C (from 1991 to July 1995)(Cheapeake Bay Program Analytical Method Code-CHLF102) or GPS (after July 1995)(Chesapeake Bay Program Analytical Method Code-CHLF104 or CHLF106) receiver every five minutes. Samples site positions collected between the five minute intervals are interpolated using
the following procedures. Calculations were based on the following assumptions: a) the transect was over a straight line from departure or bench mark station to bench mark station or destination station, b) boat speed was assumed to be constant, Equations were based on the relationship of total strip recorder tape length being proportional to actual distance between measured boat positions. Sampling position was based on the distance from the starting position of the strip recorder tape of the at sample time against the total length of the tape at the destination station.

TOT_DIST=(((LONG_DES-LONG_DEP)**2)+((LAT_DES-LAT_DEP)**2))

ALPHA= ARCTAN((LAT_DES-LAT_DEP)/(LONG_DES-LONG_DEP))

SMP_DIST = TOT_DIST * (DIS_MM / TOT_LEN);

SAMPLE LONG ~IF LONG_DEP < LONG_DES THEN
LONG = LONG_DEP + ABS(COS(ALPHA) * SMP_DIST;
ELSE LONG = LONG_DEP - ABS(COS(ALPHA) *SMP_DIST;
SAMPLE LAT ~IF LAT_DEP < LAT_DES THEN
LAT = LAT_DEP + ABS(SIN(ALPHA) *SMP_DIST);
ELSE LAT = LAT_DEP - ABS(SIN(ALPHA) * SMP_DIST);
WHERE
TOT_DIST- Actual Total Distance Between Departure and Destination Station
LONG_DES- Longitude Destination Station
LONG_DEP- Longitude Departure Station
LAT_DES- Latitude Destination Station
LAT_DEP- Latitude Departure Station
SMP_DIST- Actual distance of sampling site from transect Departure Station
DIS_MM- Distance from beginning of strip chart recording to sampling point
TOT_LEN- Total Length of Strip Chart Recording in millimeters

Vertical_Positional_Accuracy:
Vertical_Positional_Accuracy_Report:
For horizontal fluorescence measurements-A hull pump mounted 0.5 meters below the boat waterline is used to pump water through the fluorometer. For vertical fluorescence measurements- Water is pumped from depth. A Hydrolab CTD and hose mounted on the sampling array are lowered through the water column to obtain profiles.

Lineage:
Source_Information:
Source_Citation:
Citation_Information:
Originator: Susan Daughton
Publication_Date: 20000407
Title:
Virginia Chesapeake Monitoring Bay Program-Fluorescence Monitoring Component
Edition: Unknown
Geospatial_Data_Presentation_Form: database
Publication_Information:
Publication_Place: Annapolis, Maryland USA
Publisher: US EPA Chesapeake Bay Program
Other_Citation_Details:
Unknown
Type_of_Source_Media: digital database file
Source_Time_Period_of_Content:
Time_Period_Information:
Range_of_Dates/Times:
Beginning_Date: 19910101
Ending_Date: Present
Source_Currentness_Reference:
ground condition
Source_Citation_Abbreviation:
None
Source_Contribution:
None
Process_Step:
Process_Description:
After collection of all field voltages and grab samples all data is returned to the lab. Chlorophyll A calibration samples are processed and regression conversions are determined and applied to fluorescence voltage inorder to
derive invivo chlopophyll a concentrations. Latitude and Longitude positions were then determined if necessary.
Process_Date: Unknown
Process_Step:
Process_Description:

Metadata imported.
Source_Used_Citation_Abbreviation:
C:\DOCUME~1\jjohnson\LOCALS~1\Temp\xml423.tmp
Process_Date: 20081002
Process_Time: 13251500

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Spatial_Data_Organization_Information:
Indirect_Spatial_Reference_Method:
Chesapeake Bay
Direct_Spatial_Reference_Method: Point
Point_and_Vector_Object_Information:
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type: Area point
SDTS_Terms_Description:
SDTS_Point_and_Vector_Object_Type: Entity point

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Spatial_Reference_Information:
Horizontal_Coordinate_System_Definition:
Geographic:
Latitude_Resolution: 30
Longitude_Resolution: 30
Geographic_Coordinate_Units: decimal minutes
Geodetic_Model:
Horizontal_Datum_Name: North American Datum of 1983
Ellipsoid_Name: Geodedic Reference System 80
Semi-major_Axis: 6378206.4
Denominator_of_Flattening_Ratio: 294.98
Vertical_Coordinate_System_Definition:
Altitude_System_Definition:
Altitude_Datum_Name: North American Vertical Datum of 1988
Altitude_Resolution: .1
Altitude_Distance_Units: meters
Altitude_Encoding_Method: Attribute Values
Depth_System_Definition:
Depth_Datum_Name: Chart datum; datum for sounding reduction
Depth_Resolution: .1
Depth_Distance_Units: meters
Depth_Encoding_Method: Attribute Values

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Entity_and_Attribute_Information:
Detailed_Description:
Entity_Type:
Entity_Type_Label: VAFLHFyy.TXT OR VAFLVFyy.TXT
Entity_Type_Definition:
HORIZONTAL OR VERTICAL FLUORESCENCE DATA
Entity_Type_Definition_Source:
CHESAPEAKE BAY PROGRAM FLUORESCENCE MONITORING DATABASE
Attribute:
Attribute_Label: SOURCE
Attribute_Definition:
Data Collection Agency
Attribute_Definition_Source:
LIVING RESOURCES DATA DICTIONARY
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: VIMS
Enumerated_Domain_Value_Definition:
VIRGINIA INSTITUTE OF MARINE SCIENCE
Enumerated_Domain_Value_Definition_Source:
LIVING RESOURCES DATA DICTIONARY
Detailed_Description:
Entity_Type:
Entity_Type_Label: VAFLHFyy.TXT OR VAFLVFyy.TXT
Entity_Type_Definition:
HORIZONTAL OR VERTICAL FLUORESCENCE DATA
Entity_Type_Definition_Source:
CHESAPEAKE BAY PROGRAM FLUORESCENCE MONITORING DATABASE
Attribute:
Attribute_Label: CRUISE
Attribute_Definition:
Chesapeake Bay Program Cruise Number
Attribute_Definition_Source:
LIVING RESOURCES DATA DICTIONARY
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum: BAY132

Range_Domain_Maximum: BAY231

Detailed_Description:

Entity_Type:

Entity_Type_Label: VAFLHFyy.TXT OR VAFLVFyy.TXT

Entity_Type_Definition:

HORIZONTAL OR VERTICAL FLUORESCENCE DATA

Entity_Type_Definition_Source:

CHESAPEAKE BAY PROGRAM FLUORESCENCE MONITORING DATABASE

Attribute:

Attribute_Label: SAMPLE_DATE

Attribute_Definition:

Sampling Date (YYYYMMDD)

Attribute_Definition_Source:

LIVING RESOURCES DATA DICTIONARY

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum: 19910101

Range_Domain_Maximum: 19951231

Attribute_Units_of_Measure: ment: YYYYMMDD

Detailed_Description:

Entity_Type:

Entity_Type_Label: VAFLHFyy.TXT OR VAFLVFyy.TXT

Entity_Type_Definition:

HORIZONTAL OR VERTICAL FLUORESCENCE DATA

Entity_Type_Definition_Source:

CHESAPEAKE BAY PROGRAM FLUORESCENCE MONITORING DATABASE

Attribute:

Attribute_Label: SAMPLE_TIME

Attribute_Definition:

Sample Collection Time(HH:MM:SS)

Attribute_Definition_Source:

LIVING RESOURCES DATA DICTIONARY

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum: 06:00:00

Range_Domain_Maximum: 22:00:00

Attribute_Units_of_Measure: ment: (24hour-HH:MM:SS)

Detailed_Description:

Entity_Type:

Entity_Type_Label: VAFLHFyy.TXT OR VAFLVFyy.TXT

Entity_Type_Definition:

HORIZONTAL OR VERTICAL FLUORESCENCE DATA

Entity_Type_Definition_Source:

CHESAPEAKE BAY PROGRAM FLUORESCENCE MONITORING DATABASE

Attribute:

Attribute_Label: LATITUDE

Attribute_Definition:

Station Latitude in Decimal Degrees

Attribute_Definition_Source:

LIVING RESOURCES DATA DICTIONARY

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum: 37.1100

Range_Domain_Maximum: 37.8000

Attribute_Units_of_Measure: ment: decimal degrees

Detailed_Description:

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Entity_Type_Label: VAFLHFyy.TXT OR VAFLVFyy.TXT

Entity_Type_Definition:

HORIZONTAL OR VERTICAL FLUORESCENCE DATA

Entity_Type_Definition_Source:

CHESAPEAKE BAY PROGRAM FLUORESCENCE MONITORING DATABASE

Attribute:

Attribute_Label: LONGITUDE

Attribute_Definition:

Station Longitude in Decimal Degrees

Attribute_Definition_Source:

LIVING RESOURCES DATA DICTIONARY

Attribute_Domain_Values:

Range_Domain:

Range_Domain_Minimum: 75.7917

Range_Domain_Maximum: 76.3867

Attribute_Units_of_Measure: ment: decimal degrees

Detailed_Description:

Entity_Type:

Entity_Type_Label: VAFLHFyy.TXT OR VAFLVFyy.TXT

Entity_Type_Definition:

HORIZONTAL OR VERTICAL FLUORESCENCE DATA

Entity_Type_Definition_Source:

CHESAPEAKE BAY PROGRAM FLUORESCENCE MONITORING DATABASE

Attribute:

Attribute_Label: STATION

Attribute_Definition:

Sampling Station

Attribute_Definition_Source:

LIVING RESOURCES DATA DICTIONARY
Attribute_Domain_Values:
Codeset_Domain:
Codeset_Name: Vertical Stations- CBP Station List
Codeset_Source: LIVING RESOURCES DATA DICTIONARY
Attribute_Domain_Values:
Unrepresentable_Domain:
Vertical Stations are collected at random transect sites
Detailed_Description:
Entity_Type:
Entity_Type_Label: VAFLHFyy.TXT OR VAFLVFyy.TXT
Entity_Type_Definition:
HORIZONTAL OR VERTICAL FLUORESCENCE DATA
Entity_Type_Definition_Source:
CHESAPEAKE BAY PROGRAM FLUORESCENCE MONITORING DATABASE
Attribute:
Attribute_Label: SAMPLE_TYPE
Attribute_Definition:
Sample Type
Attribute_Definition_Source:
LIVING RESOURCES DATA DICTIONARY
Attribute_Domain_Values:
Codeset_Domain:
Codeset_Name: Chesapeake Bay Program Sample Collection Types
Codeset_Source: Living Resources Data Dictionary
Detailed_Description:
Entity_Type:
Entity_Type_Label: VAFLHFyy.TXT OR VAFLVFyy.TXT
Entity_Type_Definition:
HORIZONTAL OR VERTICAL FLUORESCENCE DATA
Entity_Type_Definition_Source:
CHESAPEAKE BAY PROGRAM FLUORESCENCE MONITORING DATABASE
Attribute:
Attribute_Label: SAMPLE_DEPTH
Attribute_Definition:
Sample Collection Depth (Meters)
Attribute_Definition_Source:
LIVING RESOURCES DATA DICTIONARY
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum: 0.5
Range_Domain_Maximum: 36.0
Attribute_Units_of_Measure: ment: Meters
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Entity_Type_Definition_Source:
CHESAPEAKE BAY PROGRAM FLUORESCENCE MONITORING DATABASE
Attribute:
Attribute_Label: PARAMETER
Attribute_Definition:
Sampling Parameter
Attribute_Definition_Source:
LIVING RESOURCES DATA DICTIONARY
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: CHLF
Enumerated_Domain_Value_Definition:
Chlorophyll a Fluorescence
Enumerated_Domain_Value_Definition_Source:
Living Resources Data Dictionary
Detailed_Description:
Entity_Type:
Entity_Type_Label: VAFLHFyy.TXT OR VAFLVFyy.TXT
Entity_Type_Definition:
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Entity_Type_Definition_Source:
CHESAPEAKE BAY PROGRAM FLUORESCENCE MONITORING DATABASE
Attribute:
Attribute_Label: VALUE
Attribute_Definition:
Parameter Value
Attribute_Definition_Source:
LIVING RESOURCES DATA DICTIONARY
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum: 0
Range_Domain_Maximum: 200
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Entity_Type_Label: VAFLHFyy.TXT OR VAFLVFyy.TXT
Entity_Type_Definition:
HORIZONTAL OR VERTICAL FLUORESCENCE DATA

Entity_Type_Definition_Source:
CHESAPEAKE BAY PROGRAM FLUORESCENCE MONITORING DATABASE
Attribute:
Attribute_Label: UNITS
Attribute_Definition:
Parameter Reporting Units
Attribute_Definition_Source:
LIVING RESOURCES DATA DICTIONARY
Attribute_Domain_Values:
Codeset_Domain:
Codeset_Name: Living Resources Reporting Units
Codeset_Source: LIVING RESOURCES DATA DICTIONARY
Attribute_Domain_Values:
Range_Domain:
Attribute_Units_of_Measure: ment: micrograms per liter
Detailed_Description:
Entity_Type:
Entity_Type_Label: VAFLHFyy.TXT OR VAFLVFyy.TXT
Entity_Type_Definition:
HORIZONTAL OR VERTICAL FLUORESCENCE DATA
Entity_Type_Definition_Source:
CHESAPEAKE BAY PROGRAM FLUORESCENCE MONITORING DATABASE
Attribute:
Attribute_Label: QUALIFIER
Attribute_Definition:
Chlorophyll a Detection Limit
Attribute_Definition_Source:
LIVING RESOURCES DATA DICTIONARY
Attribute_Domain_Values:
Codeset_Domain:
Codeset_Name: CBP Detection Limit Codes
Codeset_Source: LIVING RESOURCES DATA DICTIONARY
Detailed_Description:
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Entity_Type_Label: VAFLHFyy.TXT OR VAFLVFyy.TXT
Entity_Type_Definition:
HORIZONTAL OR VERTICAL FLUORESCENCE DATA
Entity_Type_Definition_Source:
CHESAPEAKE BAY PROGRAM FLUORESCENCE MONITORING DATABASE
Attribute:
Attribute_Label: METHOD
Attribute_Definition:
Parameter Method Code
Attribute_Definition_Source:
LIVING RESOURCES DATA DICTIONARY
Attribute_Domain_Values:
Codeset_Domain:
Codeset_Name: CBP Living Resources Method Codes
Codeset_Source: LIVING RESOURCES DATA DICTIONARY
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Entity_Type_Label: VAFLHFyy.TXT OR VAFLVFyy.TXT
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Entity_Type_Definition_Source:
CHESAPEAKE BAY PROGRAM FLUORESCENCE MONITORING DATABASE
Attribute:
Attribute_Label: SALZONE
Attribute_Definition:
Salinity Zone
Attribute_Definition_Source:
LIVING RESOURCES DATA DICTIONARY
Attribute_Domain_Values:
Codeset_Domain:
Codeset_Name: Venicean Salinity Zones
Codeset_Source: LIVING RESOURCES DATA DICTIONARY
Detailed_Description:
Entity_Type:
Entity_Type_Label: VAFLHFyy.TXT OR VAFLVFyy.TXT
Entity_Type_Definition:
HORIZONTAL OR VERTICAL FLUORESCENCE DATA
Entity_Type_Definition_Source:
CHESAPEAKE BAY PROGRAM FLUORESCENCE MONITORING DATABASE
Attribute:
Attribute_Label: R_DATE
Attribute_Definition:
Version Date of Data(YYYYMMDD)
Attribute_Definition_Source:
LIVING RESOURCES DATA DICTIONARY
Attribute_Domain_Values:
Range_Domain:
Range_Domain_Minimum: 19971212
Range_Domain_Maximum: 19971212
Attribute_Units_of_Measure: ment: yyyymmdd
Detailed_Description:

Entity_Type:
Entity_Type_Label: VAFLHFyy.TXT OR VAFLVFyy.TXT
Entity_Type_Definition:
HORIZONTAL OR VERTICAL FLUORESCENCE DATA
Entity_Type_Definition_Source:
CHESAPEAKE BAY PROGRAM FLUORESCENCE MONITORING DATABASE
Attribute:
Attribute_Label: BASIN
Attribute_Definition:
Chesapeake Bay Basin Designation
Attribute_Definition_Source:
LIVING RESOURCES DATA DICTIONARY
Attribute_Domain_Values:
Codeset_Domain:
Codeset_Name: Chesapeake Bay Program Basin Designation
Codeset_Source: LIVING RESOURCES DATA DICTIONARY
Detailed_Description:
Entity_Type:
Entity_Type_Label: VAFLHFyy.TXT OR VAFLVFyy.TXT
Entity_Type_Definition:
HORIZONTAL OR VERTICAL FLUORESCENCE DATA
Entity_Type_Definition_Source:
CHESAPEAKE BAY PROGRAM FLUORESCENCE MONITORING DATABASE
Attribute:
Attribute_Label: PROJECT
Attribute_Definition:
Chesapeake Bay Program Project Id
Attribute_Definition_Source:
LIVING RESOURCES DATA DICTIONARY
Attribute_Domain_Values:
Codeset_Domain:
Codeset_Name: CBP Monitoring Program Indentifers
Codeset_Source: LIVING RESOURCES DATA DICTIONARY
Detailed_Description:
Entity_Type:
Entity_Type_Label: VAFLHFyy.TXT OR VAFLVFyy.TXT
Entity_Type_Definition:
HORIZONTAL OR VERTICAL FLUORESCENCE DATA
Entity_Type_Definition_Source:
CHESAPEAKE BAY PROGRAM FLUORESCENCE MONITORING DATABASE
Attribute:
Attribute_Label: SER_NUM
Attribute_Definition:
Sample Serial Number
Attribute_Definition_Source:
LIVING RESOURCES DATA DICTIONARY
Attribute_Domain_Values:
Unrepresentable_Domain:
Source generated tracking number
Detailed_Description:
Entity_Type:
Entity_Type_Label: VAFLHFyy.TXT OR VAFLVFyy.TXT
Entity_Type_Definition:
HORIZONTAL OR VERTICAL FLUORESCENCE DATA
Entity_Type_Definition_Source:
CHESAPEAKE BAY PROGRAM FLUORESCENCE MONITORING DATABASE
Attribute:
Attribute_Label: HUC8
Attribute_Definition:
USGS Eight Digit Hydrologic Unit Code
Attribute_Definition_Source:
LIVING RESOURCES DATA DICTIONARY
Attribute_Domain_Values:
Codeset_Domain:
Codeset_Name: USGS Eight Digit Hydrologic Unit Code
Codeset_Source: LIVING RESOURCES DATA DICTIONARY
Detailed_Description:
Entity_Type:
Entity_Type_Label: VAFLHFyy.TXT OR VAFLVFyy.TXT
Entity_Type_Definition:
HORIZONTAL OR VERTICAL FLUORESCENCE DATA
Entity_Type_Definition_Source:
CHESAPEAKE BAY PROGRAM FLUORESCENCE MONITORING DATABASE
Attribute:
Attribute_Label: FIPS
Attribute_Definition:
Federal Information Processing Code
Attribute_Definition_Source:
LIVING RESOURCES DATA DICTIONARY
Attribute_Domain_Values:
Codeset_Domain:
Codeset_Name: Federal Information Processing Code
Codeset_Source: LIVING RESOURCES DATA DICTIONARY
Detailed_Description:
Entity_Type:

Entity_Type_Label: VAFLHFyy.TXT OR VAFLVFyy.TXT
Entity_Type_Definition:
HORIZONTAL OR VERTICAL FLUORESCENCE DATA
Entity_Type_Definition_Source:
CHESAPEAKE BAY PROGRAM FLUORESCENCE MONITORING DATABASE
Attribute:
Attribute_Label: LL_DATUM
Attribute_Definition:
Latitude and Longitude Geographic Datum
Attribute_Definition_Source:
LIVING RESOURCES DATA DICTIONARY
Attribute_Domain_Values:
Enumerated_Domain:
Enumerated_Domain_Value: NAD83
Enumerated_Domain_Value_Definition:
NORTH AMERICAN DATUM 1983
Enumerated_Domain_Value_Definition_Source:
LIVING RESOURCES DATA DICTIONARY

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Distribution_Information:
Distributor:
Contact_Information:
Contact_Person_Primary:
Contact_Person: Jacqueline Johnson
Contact_Organization: Interstate Commission on Potomac River Basin
Contact_Position: Chesapeake Bay Program Living Resources Data Manager
Contact_Address:
Address_Type: mailing and physical address
Address:
410 Severn Avenue, Suite 109
City: Annapolis
State_or_Province: Maryland
Postal_Code: 21403
Country: USA
Contact_Voice_Telephone: 1-800-968-7229
Contact_Voice_Telephone: 410-267-5729
Contact_Facsimile_Telephone: 410-267-5777
Contact_Electronic_Mail_Address: jjohnson@chesapeakebay.net
Hours_of_Service: 7:00 a.m. to 2:00 p.m. Monday Through Friday
Contact Instructions:
unavailable
Distribution_Liability:
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Standard_Order_Process:
Digital_Form:
Digital_Transfer_Information:
Format_Name: ASCII
Digital_Transfer_Option:
Online_Option:
Computer_Contact_Information:
Network_Address:
Network_Resource_Name: WWW.CHESAPEAKEBAY.NET
Offline_Option:
Offline_Media: CD-ROM
Recording_Capacity:
Recording_Density: 650
Recording_Density_Units: MEGABITES
Recording_Format: ISO 9660
Compatibility_Information:
None
Fees: None
Ordering_Instructions:
None
Turnaround: 5 Working Days

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Metadata_Reference_Information:
Metadata_Date: 20000407
Metadata_Contact:
Contact_Information:
Contact_Person_Primary:
Contact_Person: Jacqueline Johnson
Contact_Organization: Interstate Commission on Potomac River Basin

Contact_Position: Chesapeake Bay Program Living Resources Data Manager
Contact_Address:
Address_Type: mailing and physical address
Address:
410 Severn Avenue, Suite 109
City: Annapolis
State_or_Province: Maryland
Postal_Code: 21403
Country: USA
Contact_Voice_Telephone: 1-800-968-7229
Contact_Voice_Telephone: 410-267-5729
Contact_Facsimile_Telephone: 410-267-5777
Contact_Electronic_Mail_Address: jjohnson@chesapeakebay.net
Hours_of_Service: 8:00 a.m. to 4:00 p.m. Monday Through Friday
Contact Instructions:
unavailable
Metadata_Standard_Name: NBII Content Standard for National Biological Information Infrastructure Metadata
Metadata_Standard_Version: FGDC-STD-001-1998
Metadata_Access_Constraints: None
Metadata_Use_Constraints:
None
Metadata_Security_Information:
Metadata_Security_Classification_System: None
Metadata_Security_Classification: Unclassified
Metadata_Security_Handling_Description:
None

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