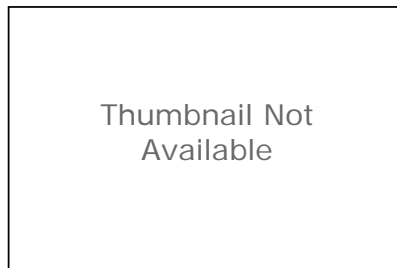


Chesapeake Watershed Fresh Water Stream Benthic Index of Biotic Integrity



Tags

biota, environment, Biology, Ecology, Ecosystem, Environment, Health, Indicator, Monitoring, Natural Resources, Water, Benthos, Macro Invertebrates

Summary

The objective of the Chesapeake Bay basin-wide Benthic Index of Biological Integrity, or "Chessie B-IBI," is to evaluate macroinvertebrate community health in non-tidal streams and wadeable rivers in a uniform manner and in the context of the entire Chesapeake Bay basin.

Description

Chesapeake Bay Program (CBP) partners collaborated in 2010 to refine a prototype benthic index of biotic integrity ("Chessie B-IBI") for regional assessments of the health of the streams and wadeable rivers in the Chesapeake Bay watershed (basin). Multiple federal, state, river basin, and local monitoring programs collect benthic macroinvertebrate samples in the 64,000 square mile Chesapeake Bay watershed. These programs use somewhat similar field methods and calculate a common suite of indicators from the data. The challenge is that each program scores and evaluates these indicators differently in order to assess its waters for regulatory purposes, which sometimes makes assessments of the data at a regional scale impossible. The purpose of the Chessie B-IBI is to evaluate non-tidal benthic macroinvertebrate community health in a uniform manner and in the context of the entire Chesapeake Bay basin.

Credits

There are no credits for this item.

Use limitations

None. Please check sources, scale, accuracy, currentness and other available information. Please confirm that you are using the most recent copy of both data and metadata. Acknowledgement of the EPA would be appreciated.

ArcGIS Metadata ►

Citation ►

TITLE Chesapeake Watershed Fresh Water Stream Benthic Index of Biotic Integrity

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Resource Details ►

CREDITS

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Resource Constraints ►

CONSTRAINTS

LIMITATIONS OF USE

None. Please check sources, scale, accuracy, currentness and other available information. Please confirm that you are using the most recent copy of both data and metadata. Acknowledgement of the EPA would be appreciated.

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FGDC Metadata (read-only) ►

Identification ►

CITATION

CITATION INFORMATION

ORIGINATOR EPA Chesapeake Bay Program Office

PUBLICATION DATE 2013-04-24

TITLE

Chesapeake Watershed Fresh Water Stream Benthic Index of Biotic Integrity

PUBLICATION INFORMATION

PUBLICATION PLACE Annapolis, MD

PUBLISHER Chesapeake Bay Program (CBP)

ONLINE LINKAGE http://data.chesapeakebay.net/?DB=CBP_NTBENDB

ONLINE LINKAGE

http://www.chesapeakebay.net/data/downloads/watershed_wide_benthic_invertebrate_database

ONLINE LINKAGE <http://www.chesapeakebay.net>

DESCRIPTION

ABSTRACT

Chesapeake Bay Program (CBP) partners collaborated in 2010 to refine a prototype benthic index of biotic integrity ("Chessie B-IBI") for regional assessments of the health of the streams and wadeable rivers in the Chesapeake Bay watershed (basin). Multiple federal, state, river basin, and local monitoring programs collect benthic macroinvertebrate samples in the 64,000 square mile Chesapeake Bay watershed. These programs use somewhat similar field methods and calculate a common suite of indicators from the data. The challenge is that each program scores and evaluates these indicators differently in order to assess its waters for regulatory purposes, which sometimes makes assessments of the data at a regional scale impossible. The purpose of the Chessie B-IBI is to evaluate non-tidal benthic macroinvertebrate community health in a uniform manner and in the context of the entire Chesapeake Bay basin.

PURPOSE

The objective of the Chesapeake Bay basin-wide Benthic Index of Biological Integrity, or "Chessie B-IBI," is to evaluate macroinvertebrate community health in non-tidal streams and wadeable rivers in a uniform manner and in the context of the entire Chesapeake Bay basin.

TIME PERIOD OF CONTENT

TIME PERIOD INFORMATION

RANGE OF DATES/TIMES

BEGINNING DATE 2000-01-01

ENDING DATE 2010-12-31

CURRENTNESS REFERENCE

Ground condition

STATUS

PROGRESS Complete

MAINTENANCE AND UPDATE FREQUENCY As needed

SPATIAL DOMAIN

BOUNDING COORDINATES

WEST BOUNDING COORDINATE -80.4381
EAST BOUNDING COORDINATE -74.62521
NORTH BOUNDING COORDINATE 42.884166
SOUTH BOUNDING COORDINATE 36.7077

KEYWORDS

THEME

THEME KEYWORD THESAURUS ISO 19115 Topic Category
THEME KEYWORD biota
THEME KEYWORD environment

THEME

THEME KEYWORD THESAURUS EPA GIS Keyword Thesaurus
THEME KEYWORD Biology
THEME KEYWORD Ecology
THEME KEYWORD Ecosystem
THEME KEYWORD Environment
THEME KEYWORD Health
THEME KEYWORD Indicator
THEME KEYWORD Monitoring
THEME KEYWORD Natural Resources
THEME KEYWORD Water

THEME

THEME KEYWORD THESAURUS User
THEME KEYWORD Benthos
THEME KEYWORD Macro Invertebrates

PLACE

PLACE KEYWORD THESAURUS None
PLACE KEYWORD Chesapeake Bay
PLACE KEYWORD Delaware
PLACE KEYWORD Maryland
PLACE KEYWORD New York
PLACE KEYWORD Pennsylvania
PLACE KEYWORD Virginia
PLACE KEYWORD Washington DC
PLACE KEYWORD West Virginia

ACCESS CONSTRAINTS

None.

USE CONSTRAINTS

None. Please check sources, scale, accuracy, currentness and other available information.
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Acknowledgement of the EPA would be appreciated.

POINT OF CONTACT

CONTACT INFORMATION

CONTACT PERSON PRIMARY
CONTACT PERSON Peter Tango

CONTACT ORGANIZATION U.S. Environmental Protection Agency, Chesapeake Bay Program
 CONTACT POSITION Monitoring Coordinator
 CONTACT ADDRESS
 ADDRESS TYPE mailing and physical address
 ADDRESS 410 Severn Ave, Suite 109
 CITY Annapolis
 STATE OR PROVINCE MD
 POSTAL CODE 21403

CONTACT VOICE TELEPHONE 410-267-9875
 CONTACT FACSIMILE TELEPHONE 410-267-5777
 CONTACT ELECTRONIC MAIL ADDRESS Ptango@chesapeakebay.net
 CONTACT INSTRUCTIONS
<http://www.chesapeakebay.net>

SECURITY INFORMATION
 SECURITY CLASSIFICATION SYSTEM FIPS Pub 199
 SECURITY CLASSIFICATION No Confidentiality
 SECURITY HANDLING DESCRIPTION Standard Technical Controls

Hide Identification ▲

Data Quality ►

LOGICAL CONSISTENCY REPORT
 Not Applicable

COMPLETENESS REPORT
 Unknown

POSITIONAL ACCURACY

HORIZONTAL POSITIONAL ACCURACY

HORIZONTAL POSITIONAL ACCURACY REPORT

Data were collected using methods that are accurate to within 6-25 meters (EPA National Geospatial Data Policy [NGDP] Accuracy Tier 3). For more information, please see EPA's NGDP at <http://epa.gov/geospatial/policies.html>

LINEAGE

PROCESS STEP

PROCESS DESCRIPTION

Indicators are calculated on an as needed bases

PROCESS DATE 2012-06-22

Hide Data Quality ▲

Spatial Reference ►

HORIZONTAL COORDINATE SYSTEM DEFINITION

GEOGRAPHIC

LATITUDE RESOLUTION 0.000001

LONGITUDE RESOLUTION 0.000001

GEOGRAPHIC COORDINATE UNITS Decimal degrees

GEODETTIC MODEL

HORIZONTAL DATUM NAME North American Datum of 1983
 ELLIPSOID NAME Geodetic Reference System 1980
 SEMI-MAJOR AXIS 6378137.000000
 DENOMINATOR OF FLATTENING RATIO 298.257222

Hide Spatial Reference ▲

Distribution Information ►

DISTRIBUTOR

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RESOURCE DESCRIPTION Downloadable Data

DISTRIBUTION LIABILITY

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Metadata Reference ►

METADATA DATE 2013-04-24

METADATA FUTURE REVIEW DATE 2017-04-24

METADATA CONTACT

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CONTACT PERSON PRIMARY

CONTACT PERSON Peter Tango

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METADATA STANDARD NAME NBII Content Standard for National Biological National Biological Information Infrastructure Meta data

METADATA STANDARD VERSION FGDC-STD-001-1998

Hide Metadata Reference ▲