

I Identification_Information:

Citation:

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Originator: Delaware Geological Survey, University of Delaware

Publication_Date: May 2007

Title: BayAllPolygons_level_0

Geospatial_Data_Presentation_Form: vector digital data

Publication_Information:

Publisher: Delaware Geological Survey, University of Delaware

Publication_Place: Newark, Delaware

Online_Linkage: <http://www.dgs.udel.edu/data>

Description:

Abstract:

Digital watershed and bay polygons for use in geographic information systems (GIS) were created for Rehoboth Bay, Indian River, and Indian River Bay in southeastern Delaware. The watersheds cover the entire Inland Bays watershed, are defined based on hydrologic boundary conditions at their downstream ends, incorporate a coastline coincident to coastlines on published topographic maps, and are appropriate for use at map scales as large as 1:24,000. Methodologies used to create the layers are described in McKenna, T.E., A.S. Andres, and K.P. Lepp, 2007, Digital Watershed and Bay Boundaries for Rehoboth Bay, Indian River Bay and Indian River: Delaware Geological Survey Open File Report 47, 8p.

This layer represents all open water of the bay and all marsh adjacent to the bay. The differentiation of water types in the original MINOR1A code of the DLG is preserved (bay, gut, stream, marsh).

Purpose: The layers enable unambiguous calculations of watershed and bay surface areas.

Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date: 1984-1992 (range of dates of topographic base maps)

Currentness_Reference: ground condition

Status:

Progress: Complete

Maintenance_and_Update_Frequency: None planned

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate: -75.291717

East_Bounding_Coordinate: -75.061381

North_Bounding_Coordinate: 38.717551

South_Bounding_Coordinate: 38.531839

Keywords:

Theme:

Theme_Keyword_Thesaurus: none

Theme_Keyword: inlandWaters

Theme_Keyword: watershed

Theme_Keyword: coastline

Theme_Keyword: shoreline
Theme_Keyword: bay
Theme_Keyword: estuary
Theme_Keyword: coastal

Place:

Place_Keyword: United States
Place_Keyword: mid-Atlantic
Place_Keyword: Delaware
Place_Keyword: Inland Bays
Place_Keyword: Rehoboth Bay
Place_Keyword: Indian River
Place_Keyword: Indian River Bay
Place_Keyword_Thesaurus: USGS GNIS

Access_Constraints: None. Please give proper credit to T. E. McKenna, A.S. Andres, K.P. Lepp, May 2007, BayAllPolygons_level_0: Delaware Geological Survey.

Use_Constraints: This digital polygon layer depicting watershed and/or bay boundaries in the area of Delaware's Inland Bays was constructed at a scale of 1:24,000. Using these layers at scales greater than 1:24,000 is a misuse of the information. Reasonable efforts have been made by DGS to verify that the layers provided herein accurately interpret the boundaries as determined by methodologies in McKenna, T.E., A.S. Andres, and K.P. Lepp, 2007, Digital Watershed and Bay Boundaries for Rehoboth Bay, Indian River Bay and Indian River: Delaware Geological Survey Open File Report 47, 8p. This digital polygon layer may also contain omissions and errors in scale, resolution, rectification, positional accuracy, development methodology, interpretations of source data, and other circumstances. This digital information is also date specific and as additional data become available and as verification of source data continues, this watershed information contained herein may be reinterpreted and updated by DGS without notification. These data should not be used for navigational, engineering, legal, or any other site-specific use. Nothing contained herein shall be deemed an expressed or implied waiver of the sovereign immunity of the University of Delaware and the State of Delaware or their duly authorized representatives, agents, or employees.

Point_of_Contact:

Contact_Information:

Contact_Address:

Address_Type: mailing and physical address

City: Newark

State_or_Province: Delaware

Postal_Code: 19716-7501

Country: USA

Address: Delaware Geological Survey, University of Delaware

Address: 257 Academy Street

Contact_Voice_Telephone: 302-831-2833

Contact_Organization_Primary:

Contact_Organization: Delaware Geological Survey

Contact_Person: Digital Data Coordinator

Contact_Position: Digital Data Coordinator

Contact_Facsimile_Telephone: 302-831-3579
Contact_Electronic_Mail_Address: DelGeoSurvey@udel.edu
Hours_of_Service: Mon - Fri; 8:00am to 4:30pm EST
Native_Data_Set_Environment: Microsoft Windows XP Version 5.1 (Build 2600) Service Pack 3; ESRI ArcCatalog 9.3.1.1850
Data_Quality_Information:
 Positional_Accuracy:
 Horizontal_Positional_Accuracy:
 Quantitative_Horizontal_Positional_Accuracy_Assessment:
 Horizontal_Positional_Accuracy_Value: 60 meters
 Horizontal_Positional_Accuracy_Explanation: Sixty-meter accuracy reflects the error estimate for the process of digitizing watershed boundaries on 1:24,000 topographic maps published by the United States Geological Survey that meet national map accuracy standards. The delineations are consistent with the topographic contours except where authors had other knowledge of altered drainage patterns (mostly along roadways). Unique watershed delineations are difficult in flat areas such as the Inland Bays watershed and especially in the southern part of the watershed where ditching is ubiquitous. In areas where a clear watershed boundary definition was not possible (mostly ditches and low-lying areas south of Indian River), a generalized boundary was drawn as recommended by the NRCS (1997) guidelines.
 Vertical_Positional_Accuracy:
 Quantitative_Vertical_Positional_Accuracy_Assessment:
 Vertical_Positional_Accuracy_Value: not applicable
 Lineage:
 Process_Step:
 Process_Description: Metadata imported.
 Source_Used_Citation_Abbreviation:
C:\DOCUME~1\mckennat\LOCALS~1\Temp\xml9C.tmp
 Process_Step:
 Process_Description: Metadata imported.
 Source_Used_Citation_Abbreviation:
C:\DOCUME~1\mckennat\LOCALS~1\Temp\xml9F.tmp
 Time_of_Day: 16093500
 Spatial_Data_Organization_Information:
 Direct_Spatial_Reference_Method: Vector
 Point_and_Vector_Object_Information:
 SDTS_Terms_Description:
 SDTS_Point_and_Vector_Object_Type: G-polygon
 Point_and_Vector_Object_Count: 4
 Spatial_Reference_Information:
 Horizontal_Coordinate_System_Definition:
 Planar:
 Planar_Coordinate_Information:
 Planar_Coordinate_Encoding_Method: coordinate pair
 Coordinate_Representation:
 Abscissa_Resolution: 0.000000
 Ordinate_Resolution: 0.000000
 Planar_Distance_Units: meters
 Grid_Coordinate_System:

Grid_Coordinate_System_Name: Universal Transverse Mercator
Universal_Transverse_Mercator:
 UTM_Zone_Number: 18
 Transverse_Mercator:
 Scale_Factor_at_Central_Meridian: 0.999600
 Longitude_of_Central_Meridian: -75.000000
 Latitude_of_Projection_Origin: 0.000000
 False_Easting: 500000.000000
 False_Northing: 0.000000
Geodetic_Model:
 Horizontal_Datum_Name: North American Datum of 1983
 Ellipsoid_Name: Geodetic Reference System 80
 Semi-major_Axis: 6378137.000000
 Denominator_of_Flattening_Ratio: 298.257222
Vertical_Coordinate_System_Definition:
 Altitude_System_Definition:
 Altitude_Resolution: 0.000010
 Altitude_Encoding_Method: Explicit elevation coordinate included
with horizontal coordinates
Entity_and_Attribute_Information:
 Detailed_Description:
 Entity_Type:
 Entity_Type_Label: BayAllPolygons_level_0
 Attribute:
 Attribute_Label: FID
 Attribute_Definition: Internal feature number.
 Attribute_Definition_Source: ESRI
 Attribute_Domain_Values:
 Unrepresentable_Domain: Sequential unique whole numbers that
are automatically generated.
 Attribute:
 Attribute_Label: Shape
 Attribute_Definition: Feature geometry.
 Attribute_Definition_Source: ESRI
 Attribute_Domain_Values:
 Unrepresentable_Domain: Coordinates defining the features.
 Attribute:
 Attribute_Label: Shape_Area
 Attribute_Definition: Area of feature in internal units squared.
 Attribute_Definition_Source: ESRI
 Attribute_Domain_Values:
 Unrepresentable_Domain: Positive real numbers that are
automatically generated.
 Attribute:
 Attribute_Label: Shape_Leng
 Attribute:
 Attribute_Label: LEVEL_0
 Attribute_Definition:
 LEVEL_0 facilitates polygon selection for dissolving of
polygon boundaries. Dissolving boundaries between polygons with
equivalent LEVEL_0 values results in four features each having

multiple polygons. The differentiation of water types in the original DLG MINOR1a code is preserved (bay, gut, stream, marsh).

Value	Feature
B	bay
G	gut
S	stream
M	marsh

Distribution_Information:

Distributor:

Contact_Information:

Contact_Address:

Address_Type: mailing and physical address

City: Newark

State_or_Province: Delaware

Postal_Code: 19716-7501

Country: USA

Address: Delaware Geological Survey, University of Delaware

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Contact_Organization_Primary:

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Contact_Person: Digital Data Coordinator

Contact_Position: Digital Data Coordinator

Contact_Facsimile_Telephone: 302-831-3579

Contact_Electronic_Mail_Address: DelGeoSurvey@udel.edu

Hours_of_Service: Mon - Fri; 8:00am to 4:30pm EST

Resource_Description: Downloadable Data

Standard_Order_Process:

Digital_Form:

Digital_Transfer_Information:

Transfer_Size: 0.848

Metadata_Reference_Information:

Metadata_Date: 20090731

Metadata_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: Delaware Geological Survey, University of Delaware

Contact_Person: Digital Data Coordinator

Contact_Address:

Address_Type: mailing and physical address

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Contact_Electronic_Mail_Address: DelGeoSurvey@udel.edu
Hours_of_Service: Mon - Fri; 8:00am to 4:30pm EST
Metadata_Standard_Name: FGDC Content Standards for Digital
Geospatial Metadata
Metadata_Standard_Version: FGDC-STD-001-1998
Metadata_Time_Convention: local time
Metadata_Extensions:
 Online_Linkage: <http://www.esri.com/metadata/esriprof80.html>
 Profile_Name: ESRI Metadata Profile
Metadata_Extensions:
 Online_Linkage: <http://www.esri.com/metadata/esriprof80.html>
 Profile_Name: ESRI Metadata Profile
Metadata_Extensions:
 Online_Linkage: <http://www.esri.com/metadata/esriprof80.html>
 Profile_Name: ESRI Metadata Profile