

Identification_Information:

Citation:

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Originator: Commonwealth of Virginia, through the Virginia Geographic Network Division of its Department of Technology Planning (VGIN).

Publication_Date: 03012003

Publication_Time: Unknown

Title: Virginia Base Mapping Program (VBMP) 2002; Digital Terrain Model developed for 1"=200' scale Digital Orthophotography for the South Zone of the Virginia State Plane Grid

Geospatial_Data_Presentation_Form: Vector digital data

Online_Linkage: <http://www.vgin.state.va.us/VBMP/VBMP.htm>

Description:

Abstract: These files contain rectified digital vector terrain model data. The vector files are uncompressed complete with coordinate information. The VBMP project encompasses the entire land area of the Commonwealth of Virginia. The State boundary is buffered by 1000 feet. Coastal areas of the State bordering the Atlantic Ocean or the Chesapeake Bay are buffered by 1000 feet or the extent of man-made features extending from shore. All hydrographic features are collected if they contain water. Streams will be single line up to 8 feet wide for 100 scale or 30' for 200 and 400 scale. Digital Terrain Data to generate 1-foot resolution digital orthoimagery was developed over the majority of urban/suburban areas of the Commonwealth covering approximately 7,167 square miles and for 2-foot resolution digital orthoimagery over the rural areas of the Commonwealth covering approximately 31,923 square miles as defined by VGIN. Digital Terrain Model data to develop 6-inch resolution digital orthoimagery was generated in limited urban areas covering approximately 1000 square miles. This version of the VBMP metadata accompanies initial data distribution. Updated metadata for this dataset will be maintained on the VGIN web site at the following address: <http://www.vgin.state.va.us/VBMP/VBMP.html>.

Purpose: In October of 2001 the Commonwealth of Virginia began work on an initiative termed the Virginia Base Mapping Program (VBMP), to develop digital orthoimagery for the entire land base of the Commonwealth. The VBMP was funded by the Public Safety Services Board to support statewide implementation of Phase II wireless E911 (E911 for Cell Phones) by establishing one consistent, accurate, foundational base map upon all local government and many regional, state and federal spatial data applications could be built in order to establish and maintain an efficient statewide spatial information infrastructure. The VBMP was implemented and administered by the Virginia Geographic Information Network, a division of the Department of Technology Planning under the Commonwealth's Secretary of Technology. It can also serve as a reference layer for GIS analysis.

Supplemental_Information: Digital Terrain Models were collected for the purposes of orthorectification as well as a variety of other purposes including planning and hydrographic analysis.

Time_Period_of_Content:

Time_Period_Information:

Range_of_Dates/Times:

Beginning_Date: 02012002

Beginning_Time: unknown

Ending_Date: 04012002

Ending_Time: unknown

Currentness_Reference: Ground condition

Status:

Progress: Complete

Maintenance_and_Update_Frequency: None planned

Spatial_Domain:

Bounding_Coordinates:

West_Bounding_Coordinate: -83.200

East_Bounding_Coordinate: -75.229

North_Bounding_Coordinate: 38.226

South_Bounding_Coordinate: 36.534

Keywords:

Theme:

Theme_Keyword_Thesaurus:

Theme_Keyword: Digital Terrain Model

Theme_Keyword: Hydrography or hydrographic

Theme_Keyword: Emergency management

Theme_Keyword: Digital Elevation Model

Theme_Keyword: Economic Development

Theme_Keyword: Environment

Theme_Keyword: Wetlands

Theme_Keyword: Miscellaneous

Place:

Place_Keyword: Commonwealth of Virginia

Place_Keyword: Virginia

Place_Keyword: USA

Access_Constraints: The VBMP data are property of the Commonwealth of Virginia, copyright 2002.

Distribution of any of these data to anyone not licensed by the Commonwealth is strictly prohibited.

Use_Constraints: This VBMP data has been developed using procedures designed to produce digital terrain data and is intended for the production of digital orthophotos at 1" = 200' scale. This data is not suitable for the production of contours, although the source material used to generate the data will support contour production.

Point_of_Contact:

Contact_Information:

Contact_Person_Primary:

Contact_Person: Robert Rike

Contact_Organization: Virginia Geographic Information Network

Contact_Address:

Address_Type: mailing address

Address: 110 South 7th Street, Suite 135

City: Richmond

State_or_Province: VA

Postal_Code: 23219

Country: United States of America

Contact_Voice_Telephone: 804.786.6156

Contact_Electronic_Mail_Address: VBMP@vgin.state.va.us

Browse_Graphic:

Browse_Graphic_File_Name: Not Available

Browse_Graphic_File_Description: Not Available

Browse_Graphic_File_Type: Not Available

Security_Information:

Security_Classification_System: Not Available

Security_Classification: Unclassified

Security_Handling_Description: Not Available

Native_Data_Set_Environment: TBD

Cross_Reference:

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Originator: Commonwealth of Virginia, through the Virginia Geographic Network Division of its Department of Technology Planning (VGIN).

Publication_Date: 03012003

Publication_Time: Unknown

Title: Virginia Base Mapping Program (VBMP) 2002; Digital Terrain Model and Hydrographic information (1"=200' scale) for the South Zone of the Virginia State Plane Grid

Online_Linkage: <http://www.vgin.state.va.us/VBMP/VBMP.html>

Data_Quality_Information:

Logical_Consistency_Report: The dataset contains terrain models so the logical consistency report is not applicable. The file naming convention is based on the lower left/southwest corner of the image. Tile names are 14 characters long with a 3 character extension. An example tile name is: TM_N17_5100_11.TIF. The first two characters represent the product code (TM = terrain model). After an underscore to separate the code, the following three characters are the Prefix to maintain uniqueness in the project. The first character indicates the state plane zone (N = North, S = South), and the next two numbers indicate the coordinate pairing of the million units of the Easting and Northing coordinates for the lower left/southwest corner of the tile. An underscore separates the Prefix from the BMU (Base Modular Unit) of the next four numbers. The Base Modular Unit designates the name for 1:4800 scale imagery tiles which correspond to a 10,000 foot grid based on even 10,000 increments of the Virginia State Plane. Following another separator is a two number suffix. The first digit of the Suffix number designates the quadrant of the BMU that a nested 5,000 foot tile grid occupies. Quadrants are numbered from 1 to 4 starting with the Lower Left quadrant of the BMU, increasing in a clockwise direction. The second digit of the Suffix number designates the quadrant of the 5,000 foot tile that a nested 2,500-foot tile grid occupies. Quadrants are numbered from 1 to 4 starting with the Lower Left quadrant and increasing in a clockwise direction.

Completeness_Report: The project consisted of a total of 8189 total terrain models in the Virginia South State Plane Zone corresponding to the 1' = 200' scale imagery.

Positional_Accuracy:

Horizontal_Positional_Accuracy:

Horizontal_Positional_Accuracy_Report: See <http://www.vgin.state.va.us/VBMP/VBMP.html>

Quantitative_Horizontal_Positional_Accuracy_Assessment:

Horizontal_Positional_Accuracy_Value: 1.49

Horizontal_Positional_Accuracy_Explanation: Compiled to meet 4.9 feet horizontal accuracy at 95% confidence level in accordance with National Standards for Spatial Data Accuracy (NSSDA). Tested accuracy will be reported in future versions of the metadata posted at <http://www.vgin.state.va.us/VBMP/VBMP.html>

Vertical_Positional_Accuracy:

Vertical_Positional_Accuracy_Report: See <http://www.vgin.state.va.us/VBMP/VBMP.html>

Quantitative_Vertical_Positional_Accuracy_Assessment:

Vertical_Positional_Accuracy_Value: 1.49

Vertical_Positional_Accuracy_Explanation: Compiled to meet or exceed 4.9 feet horizontal accuracy at 95% confidence level in accordance with National Standards for Spatial Data Accuracy (NSSDA). Tested accuracy will be reported in future versions of the metadata posted at <http://www.vgin.state.va.us/VBMP/VBMP.html>

Lineage:

Process_Step:

Process_Description: The Commonwealth is divided into three major production areas for this project. A different producer was assigned to each major area. The following is a general description of the process. For more specific information on each producer's methods and equipment by production block, go to the project procedures guide at the VGIN web site <http://www.vgin.state.va.us/vbmp/vbmp.html>. Aerial film was acquired and imaged in 2002. The imagery was scanned at 21 microns. Ground control used to support the compilation and was collected by identifying strategic locations on the aerial photography plan and then determining the coordinates by GPS ground survey techniques. The Aerial Triangulation was performed using softcopy workstations. Bundle adjustment was performed and Digital Elevation Models were created using standard photogrammetric collection techniques for breaklines and masspoints on soft copy workstations. A "DTM apron" was created around each elevated bridge for orthorectification purposes. Final deliverables in MicroStation dgn file format were placed on DVD, DLT or FireWire.

Process_Date: 01012002

Cloud_Cover: 0

Spatial_Data_Organization_Information:

Direct_Spatial_Reference_Method: Vector

Point_and_Vector_Object_Information:

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type: Entity point

Point_and_Vector_Object_Count: Variable

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type: String

Point_and_Vector_Object_Count: Variable

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type: String

Point_and_Vector_Object_Count: Variable

Spatial_Reference_Information:

Horizontal_Coordinate_System_Definition:

Geodetic_Model:

Horizontal_Datum_Name: North American Datum of 1983 (HARN)

Ellipsoid_Name: Geodetic Reference System 80

Semi-major_Axis: 6378137.000000

Denominator_of_Flattening_Ratio: 298.257222

Entity_and_Attribute_Information:

Detailed_Description:

Entity_Type:

Entity_Type_Label: Point

Entity_Type_Definition: Mass Point

Entity_Type_Definition_Source: Elevation mass points derived by stereo autocorrelation

Attribute:

Attribute_Label: FID

Attribute_Definition: Internal Feature Number

Attribute_Definition_Source: Automatically generated feature identification number

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: 9999

Enumerated_Domain_Value_Definition: Variable upon the number of points in the data

Enumerated_Domain_Value_Definition_Source: Mass points generated by stereo autocorrelation

Attribute:

Attribute_Label: Entity

Attribute_Definition: Entity

Attribute_Definition_Source: Entity attributes

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: 9999

Enumerated_Domain_Value_Definition: Variable upon the number of points in the data

Enumerated_Domain_Value_Definition_Source: Mass points generated by stereo autocorrelation

Attribute:

Attribute_Label: Layer

Attribute_Definition: Layer

Attribute_Definition_Source: Layer value

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: 9999

Enumerated_Domain_Value_Definition: Variable upon the number of points in the data

Enumerated_Domain_Value_Definition_Source: Mass points generated by stereo autocorrelation

Attribute:

Attribute_Label: Level

Attribute_Definition: Level

Attribute_Definition_Source: Level

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: 58

Enumerated_Domain_Value_Definition: Mass Points

Enumerated_Domain_Value_Definition_Source: Mass points generated by stereo autocorrelation

Enumerated_Domain:

Enumerated_Domain_Value: 43

Enumerated_Domain_Value_Definition: Water Point

Enumerated_Domain_Value_Definition_Source: Mass points generated by stereo autocorrelation

Enumerated_Domain:

Enumerated_Domain_Value: 4

Enumerated_Domain_Value_Definition: Dams and Spillways

Enumerated_Domain_Value_Definition_Source: Point measured by stereo compiler

Enumerated_Domain:

Enumerated_Domain_Value: 6

Enumerated_Domain_Value_Definition: Bridges crossing hydrographic features

Enumerated_Domain_Value_Definition_Source: Point measured by stereo compiler

Enumerated_Domain:

Enumerated_Domain_Value: 21

Enumerated_Domain_Value_Definition: Headwall/Culvert

Enumerated_Domain_Value_Definition_Source: Point measured by stereo compiler

Attribute:

Attribute_Label: Color

Attribute_Definition: Default Line Color

Attribute_Definition_Source: Default line color

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: 9999

Enumerated_Domain_Value_Definition: Variable upon the number of points in the data

Enumerated_Domain_Value_Definition_Source: Mass points generated by stereo autocorrelation

Attribute:

Attribute_Label: Linetype

Attribute_Definition: Line Type

Attribute_Definition_Source: Line type

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: 9999

Enumerated_Domain_Value_Definition: Variable upon the number of points in the data

Enumerated_Domain_Value_Definition_Source: Mass points generated by stereo autocorrelation

Detailed_Description:

Entity_Type:

Entity_Type_Label: Polyline

Entity_Type_Definition: Breaklines

Entity_Type_Definition_Source: Breaklines generated for the purpose of creating digital orthophotography

Attribute:

Attribute_Label: FID

Attribute_Definition: Internal Feature Number

Attribute_Definition_Source: Automatically generated feature identification number

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: 9999

Enumerated_Domain_Value_Definition: Variable upon the number of breaklines in the data

Enumerated_Domain_Value_Definition_Source: Breaklines generated by stereo compiler

Attribute:

Attribute_Label: Entity

Attribute_Definition: Entity

Attribute_Definition_Source: Entity attributes

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: 9999

Enumerated_Domain_Value_Definition: Variable upon the number of breaklines in the data

Enumerated_Domain_Value_Definition_Source: Breaklines generated by stereo compiler

Attribute:

Attribute_Label: Layer

Attribute_Definition: Layer

Attribute_Definition_Source: Layer

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: 9999

Enumerated_Domain_Value_Definition: Variable upon the number of breaklines in the data

Enumerated_Domain_Value_Definition_Source: Breaklines generated by stereo compiler

Attribute:

Attribute_Label: Level

Attribute_Definition: Level

Attribute_Definition_Source: Level

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: 61

Enumerated_Domain_Value_Definition: Breaklines

Enumerated_Domain_Value_Definition_Source: Breaklines generated by stereo compiler

Enumerated_Domain:

Enumerated_Domain_Value: 7

Enumerated_Domain_Value_Definition: Bridge Apron

Enumerated_Domain_Value_Definition_Source: Breaklines generated by stereo compiler

Enumerated_Domain:

Enumerated_Domain_Value: 40

Enumerated_Domain_Value_Definition: Canals and Ditches

Enumerated_Domain_Value_Definition_Source: Breaklines generated by stereo compiler

Enumerated_Domain:

Enumerated_Domain_Value: 41

Enumerated_Domain_Value_Definition: Shorelines

Enumerated_Domain_Value_Definition_Source: Breaklines generated by stereo compiler

Enumerated_Domain:

Enumerated_Domain_Value: 42

Enumerated_Domain_Value_Definition: Water (shoreline)

Enumerated_Domain_Value_Definition_Source: Breaklines generated by stereo compiler

Enumerated_Domain:

Enumerated_Domain_Value: 44

Enumerated_Domain_Value_Definition: Stream (single line)

Enumerated_Domain_Value_Definition_Source: Breaklines generated by stereo compiler

Enumerated_Domain:

Enumerated_Domain_Value: 45

Enumerated_Domain_Value_Definition: Swamps and Marshes

Enumerated_Domain_Value_Definition_Source: Breaklines generated by stereo compiler

Enumerated_Domain:

Enumerated_Domain_Value: 5

Enumerated_Domain_Value_Definition: Bridge

Enumerated_Domain_Value_Definition_Source: Breaklines generated by stereo compiler

Attribute:

Attribute_Label: Color

Attribute_Definition: Default Line Color

Attribute_Definition_Source: Default Line Color

Attribute_Domain_Values:

Attribute:

Attribute_Label: Linetype

Attribute_Definition: Line Type

Attribute_Definition_Source: Line type

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: 9999

Enumerated_Domain_Value_Definition: Variable upon the number of breaklines in the data

Enumerated_Domain_Value_Definition_Source: Breaklines generated by stereo compiler

Detailed_Description:

Entity_Type:

Entity_Type_Label: Polygon

Entity_Type_Definition: Polygons for various features

Entity_Type_Definition_Source: Polygons for hydrography and bridge decks

Attribute:

Attribute_Label: FID

Attribute_Definition: Internal Feature Number

Attribute_Definition_Source: Automatically generated feature identification number

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: 9999

Enumerated_Domain_Value_Definition: Variable upon the number of polygons in the data

Enumerated_Domain_Value_Definition_Source: Polygons generated by stereo compiler

Attribute:

Attribute_Label: Entity

Attribute_Definition: Entity

Attribute_Definition_Source: Entity attributes

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: 9999

Enumerated_Domain_Value_Definition: Variable upon the number of polygons in the data

Enumerated_Domain_Value_Definition_Source: Polygons generated by stereo compiler

Attribute:

Attribute_Label: Layer

Attribute_Definition: Layer

Attribute_Definition_Source: Layer

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: 9999

Enumerated_Domain_Value_Definition: Variable upon the number of polygons in the data

Enumerated_Domain_Value_Definition_Source: Polygons generated by stereo compiler

Attribute:

Attribute_Label: Level

Attribute_Definition: Level

Attribute_Definition_Source: Level

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: 5

Enumerated_Domain_Value_Definition: Bridge

Enumerated_Domain_Value_Definition_Source: Polygons generated by stereo compiler

Enumerated_Domain:

Enumerated_Domain_Value: 7

Enumerated_Domain_Value_Definition: Bridge Apron

Enumerated_Domain_Value_Definition_Source: Breaklines generated by stereo compiler

Attribute:

Attribute_Label: Color

Attribute_Definition: Default Line Color

Attribute_Definition_Source: Default line color

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: 9999

Enumerated_Domain_Value_Definition: Variable upon the number of polygons in the data

Enumerated_Domain_Value_Definition_Source: Polygons generated by stereo compiler

Attribute:

Attribute_Label: Linetype

Attribute_Definition: Line Type

Attribute_Definition_Source: Line type

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: 9999

Enumerated_Domain_Value_Definition: Variable upon the number of polygons in the data

Enumerated_Domain_Value_Definition_Source: Polygons generated by stereo compiler

Distribution_Information:

Distributor:

Contact_Information:

Contact_Person_Primary:

Contact_Person: Robert Rike

Contact_Organization: Virginia Geographic Information Network

Contact_Address:

Address_Type: mailing address

Address: 110 South 7th Street, Suite 135

City: Richmond

State_or_Province: VA

Postal_Code: 23219

Country: United States of America

Contact_Voice_Telephone: 1.804.786.6156

Contact_Electronic_Mail_Address: VBMP@vgin.state.va.us

Distribution_Liability: he VBMP data are the property of the Commonwealth of Virginia, copyright 2002. Distribution of any of these data to anyone not licensed by the Commonwealth is strictly prohibited. VBMP license Agreement and distribution policies are available at <http://www.vgin.state.va.us/VBMP/VBMP.html>

Standard_Order_Process:

Digital_Form:

Digital_Transfer_Information:

Format_Name: DGN

File-Decompression_Technique: no compression applied

Transfer_Size: 0.154

Digital_Transfer_Option:

Online_Option:

Computer_Contact_Information:

Network_Address:

Network_Resource_Name: <http://www.vgin.state.va.us/VBMP/VBMP.html>

Access_Instructions: <http://www.vgin.state.va.us/vbmp/vbmp.html>

Fees: Contact VGIN at <http://www.vgin.state.va.us/VBMP/VBMP.html>

Metadata_Reference_Information:

Metadata_Date: 20030106

Metadata_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: Virginia Geographic Information Network

Contact_Person: Robert Rike

Contact_Address:

Address_Type: mailing address

Address: 110 South 7th Street, Suite 135

City: Richmond

State_or_Province: VA

Postal_Code: 23219

Country: United States of America

Contact_Voice_Telephone: 1.804.786.6156

Contact_Electronic_Mail_Address: VBMP@vgin.state.va.us

Metadata_Standard_Name: FGDC Content Standards for Digital Geospatial Metadata

Metadata_Standard_Version: FGDC-STD-001-1998

Metadata_Time_Convention: local time

Metadata_Security_Information:

Metadata_Security_Classification_System: Not Available

Metadata_Security_Classification: Unclassified

Metadata_Security_Handling_Description: Not Available

Metadata_Extensions:

Online_Linkage: This version of the VBMP metadata accompanies initial data distribution. Updated metadata for this dataset will be maintained on the VGIN web site at the following address: <http://www.vgin.state.va.us/VBMP/VBMP.html>

Profile_Name: ESRI Metadata Profile