

Digital Geomorphic-GIS Map of the New Inlet to Rodanthe Area (1:10,000 scale 2006 mapping), North Carolina (NPS, GRD, GRI, CAHA, NWIR_geomorphology digital map) adapted from a East Carolina University unpublished digital data map by Ames and Riggs (2006)

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What does this data set describe?

Title:

Digital Geomorphic-GIS Map of the New Inlet to Rodanthe Area (1:10,000 scale 2006 mapping), North Carolina (NPS, GRD, GRI, CAHA, NWIR_geomorphology digital map) adapted from a East Carolina University unpublished digital data map by Ames and Riggs (2006)

Abstract:

The Digital Geomorphic-GIS Map of the New Inlet to Rodanthe Area (1:10,000 scale 2006 mapping), North Carolina is composed of GIS data layers and GIS tables, and is available in the following GRI-supported GIS data formats: 1.) a 10.1 file geodatabase (nwir_geomorphology.gdb), and a 2.) Open Geospatial Consortium (OGC) geopackage. The file geodatabase format is supported with a 1.) ArcGIS Pro map file (.mapx) file (nwir_geomorphology.mapx) and individual Pro layer (.lyrx) files (for each GIS data layer), as well as with a 2.) 10.1 ArcMap (.mxd) map document (nwir_geomorphology.mxd) and individual 10.1 layer (.lyr) files (for each GIS data layer). Upon request, the GIS data is also available in ESRI 10.1 shapefile format. Contact Stephanie O'Meara (see contact information below) to acquire the GIS data in these GIS data formats. In addition to the GIS data and supporting GIS files, three additional files comprise a GRI digital geologic-GIS dataset or map: 1.) A GIS readme file (caha_fora_wrbr_geology_gis_readme.pdf), 2.) the GRI ancillary map information document (.pdf) file (caha_fora_wrbr_geomorphology.pdf) which contains geologic unit descriptions, as well as other ancillary map information and graphics from the source map(s) used by the GRI in the production of the GRI digital geologic-GIS data for the park, and 3.) a user-friendly FAQ PDF version of the metadata (nwir_geomorphology_metadata_faq.pdf). Please read the caha_fora_wrbr_geology_gis_readme.pdf for information pertaining to the proper extraction of the GIS data and other map files. QGIS software is available for free at: <https://www.qgis.org/en/site/>. The data were completed as a component of the Geologic Resources Inventory (GRI) program, a National Park Service (NPS) Inventory and Monitoring (I&M) Division funded program that is administered by the NPS Geologic Resources Division (GRD). For a complete listing of GRI products visit the GRI publications webpage: For a complete listing of GRI products visit the GRI publications webpage: <https://www.nps.gov/subjects/geology/geologic-resources-inventory-products.htm>. For more information about the Geologic Resources Inventory Program visit the GRI webpage: <https://www.nps.gov/subjects/geology/gri.htm>. At the bottom of that webpage is a "Contact Us" link if you need additional information. You may also directly contact the program coordinator, Jason Kenworthy (jason_kenworthy@nps.gov). Source geologic maps and data used to complete this GRI digital dataset were provided by the following: East Carolina University. Detailed information concerning the sources used and their contribution the GRI product are listed in the Source Citation section(s) of this metadata record (nwir_geomorphology_metadata.txt or nwir_geomorphology_metadata_faq.pdf). Users of this data are cautioned about the locational accuracy of features within this dataset. Based on the source map scale of 1:10,000 and United States National Map Accuracy Standards features are within (horizontally) 8.5 meters or 27.8 feet of their actual location as presented by this dataset.

Users of this data should thus not assume the location of features is exactly where they are portrayed in ArcGIS, QGIS or other software used to display this dataset. All GIS and ancillary tables were produced as per the NPS GRI Geology-GIS Geodatabase Data Model v. 2.3. (available at: <https://www.nps.gov/articles/gri-geodatabase-model.htm>).

Supplemental_Information:

The data layers (feature classes) that comprise the Digital Geomorphic-GIS Map of the New Inlet to Rodanthe Area (1:10,000 scale 2006 mapping), North Carolina include: Geomorphic Units (NWIRMRPH) and Geomorphic Unit Boundaries (NWIRMRPHA). In addition to the data layers, there are three GIS tables, the Geomorphic Unit Information Table (Detailed) (cahaunit_geomorphic) Table, the short-version of the Geomorphic Unit Information Table (Detailed) (cahaunit_geomorphic_short) Table, and the Source Map Information Table (cahamap) Table. Refer to the NPS GRI Geology-GIS Geodatabase Data Model v. 2.3 (available at: <https://www.nps.gov/articles/gri-geodatabase-model.htm>) for detailed data layer (feature class) and table specifications including attribute field parameters, definitions and domains, and implemented topology rules and relationship classes. The GIS data projection is NAD83, UTM Zone 18N.

1. How should this data set be cited?

National Park Service (NPS) Geologic Resources Inventory (GRI) program, 20210107, Digital Geomorphic-GIS Map of the New Inlet to Rodanthe Area (1:10,000 scale 2006 mapping), North Carolina (NPS, GRD, GRI, CAHA, NWIR_geomorphology digital map) adapted from a East Carolina University unpublished digital data map by Ames and Riggs (2006).

2. What geographic area does the data set cover?

West_Bounding_Coordinate: -75.497825127
East_Bounding_Coordinate: -75.4646154053
North_Bounding_Coordinate: 35.678366427
South_Bounding_Coordinate: 35.6070805638

3. What does it look like?

4. Does the data set describe conditions during a particular time period?

Calendar_Date: 07-Jan-2021
Currentness_Reference: ground condition

5. What is the general form of this data set?

Geospatial_Data_Presentation_Form: map

6. How does the data set represent geographic features?

- a. **How are geographic features stored in the data set?**
- b. **What coordinate system is used to represent geographic features?**

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: -75.0
Latitude_of_Projection_Origin: 0.000000
False_Easting: 500000.000000
False_Northing: 0.000000

Planar coordinates are encoded using coordinate pair
Abcissae (x-coordinates) are specified to the nearest 0.000007
Ordinates (y-coordinates) are specified to the nearest 0.000007
Planar coordinates are specified in meters

The horizontal datum used is North American Datum of 1983.
The ellipsoid used is Geodetic Reference System 80.
The semi-major axis of the ellipsoid used is 6378137.000000.
The flattening of the ellipsoid used is 1/298.257222.

7. **How does the data set describe geographic features?**

Entity_and_Attribute_Overview:

Refer to the NPS GRI Geology-GIS Geodatabase Data Model v. 2.3 (available at: <https://www.nps.gov/articles/gri-geodatabase-model.htm>) for detailed feature class and table attribute field parameters, definitions and domains, and implemented relationship classes, as well as for implemented feature class topology rules.

Entity_and_Attribute_Detail_Citation:

NPS GRI Geology-GIS Geodatabase Data Model v. 2.3. (available at: <https://www.nps.gov/articles/gri-geodatabase-model.htm>)

Who produced the data set?

1. **Who are the originators of the data set?** (may include formal authors, digital compilers, and editors)
 - o National Park Service (NPS) Geologic Resources Inventory (GRI) program
2. **Who also contributed to the data set?**

Stephanie O'Meara (Colorado State University)

3. **To whom should users address questions about the data?**

Stephanie O'Meara
Colorado State University
Research Associate, Geologist/GIS Specialist/Data Manager

1201 Oak Ridge Drive, Suite 200
Fort Collins, Colorado 80525
USA

(970) 491-6655 (voice)
stephanie_o'meara@partner.nps.gov

Hours_of_Service: 9:00 a.m. to 5:00 p.m. (MST), Monday - Friday

Why was the data set created?

The data are intended to assist NPS personnel in the protection and management of Cape Hatteras National Seashore.

How was the data set created?

1. From what previous works were the data drawn?

ECU unpublished digital data (New Inlet to Rodanthe) (source 1 of 1)

Ames, V., Dorothea and Riggs, Stanley R., 2006, Geomorphic Framework of the North Carolina Outer Banks (New Inlet to Rodanthe Area digital data): unpublished digital data (New Inlet to Rodanthe), East Carolina University (ECU), Greenville, North Carolina.

Type_of_Source_Media: digital data

Source_Scale_Denominator: 10000

Source_Contribution:

Features and attribution were derived from source digital data. Ancillary map text, including unit descriptions, and graphics, if present on the source map, were captured, formatted and added to the ancillary map information document. See the Process Step section for additional information.

2. How were the data generated, processed, and modified?

Date: 07-Jan-2021 (process 1 of 1)

1.) GIS features were produced from source digital data. See the Source Information Contribution section(s) for specific source map details. GIS features were first imported into a GRI data model compliant geodatabase. For details on the GRI data model see the NPS GRI Geology-GIS Geodatabase Data Model v. 2.3 (available at: <https://www.nps.gov/articles/gri-geodatabase-model.htm>). 2.) Line quality was checked and if warranted edited to ensure good quality linework. 3.) Feature attribution was derived using the source data attribution, and the source printed/plotted map if available. 4.) Data Model topology rules were validated for all features and any topology errors corrected. 5.) Quality control (QC) consisted of checking features and their attribution

against the source digital data, as well as against the source printed/plotted map if available. A GRI developed ArcObjects tool was run to check for GRI data model validation and feature-related consistency. 6.) The UNIT and MAP tables were populated and checked against the source(s). Relationship classes were also added and used to ensure attribution consistency between feature class and table attribution. 7.) Feature symbology was produced for all feature classes. An attempt was made to best match symbology to its source map, however, in some cases features symbology maybe slightly modified, primarily based on the limitations of the ArcGIS geology styles. In some cases, however, symbology may have been modified to reconcile differences from multiple sources. 8.) An ArcMap Document was produced, in part by a GRI finalize mxd tool, and layer (.lyr) files saved for all data layers. 9.) The ancillary map information PDF document, see the Supplemental Information section for additional information, was produced from textual information and figures present on the source map(s) and/or in digital data files. If applicable, source map images were produced at 150dpi or greater resolution and optical character recognition (OCR) software was used to produce text from source map text. The text, source map images and other ancillary source map information were added to a Help & Manual (.hmxz) template file. The .hmxz file was then compiled to produce the ancillary map information document. Any compilation errors were then checked and corrected and the document was reviewed for content, usability and grammatical errors. 10.) A OGC GeoPackage was produced from the finalized file geodatabase.

Person who carried out this activity:

Stephanie O'Meara
Colorado State University
Research Associate, Geologist/GIS Specialist/Data Manager
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Fort Collins, Colorado 80525-5589
USA

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Hours_of_Service: 9:00 a.m. to 5:00 p.m. (MST), Monday - Friday

Data sources used in this process:

- o ECU unpublished digital data (New Inlet to Rodanthe)

3. What similar or related data should the user be aware of?

National Park Service Geologic Resources Inventory (GRI) program, 20210107, Metadata for the Digital Geomorphic-GIS Map of the New Inlet to Rodanthe Area (1:10,000 scale 2006 mapping), North Carolina (NPS, GRD, GRI, CAHA, NWIR_geomorphology digital map).

How reliable are the data; what problems remain in the data set?

1. How well have the observations been checked?

Feature and table attribution was derived and checked with the source map(s). Attribution was checked (QCd) for errors. Users of this data are advised to FULLY and CAREFULLY READ the "DISTRIBUTION LIABILITY" section of this metadata before using the data.

2. How accurate are the geographic locations?

Data was produced from digital source data. Users of this data are cautioned about the locational accuracy of features within this dataset. Based on the source map scale and United States National Map Accuracy Standards features are within (horizontally) 8.5 meters or 27.8 feet of their actual location as presented by this dataset. Users of this data should thus not assume the location of features is exactly where they are portrayed in ArcGIS or other software used to display this dataset. The PRECISION of any Shapefile (.shp) files is DOUBLE.

3. How accurate are the heights or depths?

4. Where are the gaps in the data? What is missing?

All data is considered complete to the extent of the source map(s).

5. How consistent are the relationships among the observations, including topology?

GIS data in 10.1 file geodatabase and QGC geopackage file formats.

How can someone get a copy of the data set?

Are there legal restrictions on access or use of the data?

Access_Constraints: None

Use_Constraints:

Not for use at scale greater than 1:10,000 (source map scale). Users of this data are cautioned about the locational accuracy of features within this dataset. Based on the source map scale and United States National Map Accuracy Standards features are within (horizontally) 8.5 meters or 27.8 feet of their actual location as presented by this dataset. Users of this data should thus not assume the location of features is exactly where they are portrayed in Google Earth, ArcGIS or other software used to display this dataset.

1. **Who distributes the data set?** (Distributor 1 of 1)

Stephanie O'Meara
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stephanie_o'meara@partner.nps.gov

Hours_of_Service: 8:00 a.m. to 4:00 p.m. (MST), Monday - Friday

Contact_Instructions:

GRI data are available at: <http://irma.nps.gov/App/Reference/Search>

2. **What's the catalog number I need to order this data set?**

GIS map data available in several GRI-supported GIS data formats

3. **What legal disclaimers am I supposed to read?**

The National Park Service shall not be held liable for improper or incorrect use of the data described and/or contained herein. These data and related graphics are not legal documents and are not intended to be used as such.

The information contained in these data is dynamic and may change over time. The data are not better than the original sources from which they were derived. It is the responsibility of the data user to use the data appropriately and consistent within the limitations of geospatial data in general and these data in particular. The related graphics are intended to aid the data user in acquiring relevant data; it is not appropriate to use the related graphics as data.

The National Park Service gives no warranty, expressed or implied, as to the accuracy, reliability, or completeness of these data. It is strongly recommended that these data are directly acquired from an NPS server and not indirectly through other sources which may have changed the data in some way. Although these data have been processed successfully on a computer system at the National Park Service, no warranty, expressed or implied is made regarding the utility of the data on another system or for general scientific purposes, nor shall the act of distribution constitute any such warranty. This disclaimer applies to both to individual use of the data and aggregate use with other data.

4. How can I download or order the data?

- **Availability in digital form:**

Data format: GDB (version ArcGIS Pro 2.4) GIS (file geodatabase format) data package with a Pro map (.mapx) file (nwir_geomorphology_gdb_pro.zip) Size: 0.73

Network links: NPS Data Store, <https://irma.nps.gov/DataStore/>

Data format: GDB (version ArcGIS 10.1) GIS (file geodatabase format) data package with an ArcMap map document (.mxd) file (nwir_geomorphology_gdb.zip) Size: 0.76

Network links: NPS Data Store, <https://irma.nps.gov/DataStore/>

Data format: GPKG (version OGC geopackage) GIS (geopackage format) data package (nwir_geomorphology_gpkg.zip) Size: 0.52

Network links: NPS Data Store, <https://irma.nps.gov/DataStore/>

Data format: PDF (version 9) Ancillary Map Information Document Size: 28.83

Network links: NPS Data Store, <https://irma.nps.gov/DataStore/>

Data format: PDF (version 9) GIS Readme Document Size: 0.1

Network links: NPS Data Store, <https://irma.nps.gov/DataStore/>

Data format: PDF (version 9) FAQ Metadata File Size: 0.1

Network links: NPS Data Store, <https://irma.nps.gov/DataStore/>

- **Cost to order the data:** None

- **Special instructions:**

Search for the GRI map, then download the GRI data at:
<https://irma.nps.gov/DataStore/>

Who wrote the metadata?

Dates:

Last modified: 07-Jan-2021

Metadata author:

Stephanie O'Meara
Colorado State University
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1201 Oak Ridge Drive, Suite 200
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Hours_of_Service: 9:00 a.m. to 5:00 p.m. (MST), Monday - Friday

Metadata standard:

FGDC Content Standards for Digital Geospatial Metadata (FGDC-STD-001-1998)

Metadata extensions used:

- <http://www.fgdc.gov/standards/>

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