State Geospatial Data Coordination Procedure

North Carolina

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Purpose of the Procedure

Flood insurance studies search for geospatial data during pre-scoping and scoping tasks. If needed data are not available, studies might fund the collection of new data and would like to know about other organizations that might share in these costs. Detailed information about the role geospatial data coordination plays in studies is in the *Geospatial Data Coordination Implementation Guide*, which is available at <https://hazards.fema.gov/femaportal/docs/GeoDataImplem.pdf>, and in *Scoping*

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Guidelines: Pre-scoping and the Scoping Meeting, which is available through the Regional Management Center (RMC).

Resources developed through FEMA's geospatial data coordination activities provide information about data and contacts for organizations that have geospatial data that cover large areas (like states) in which many studies are interested. Studies can avoid wasting time with dead-end searches and cold calls by starting with these proven sources of information.

One resource is this Geospatial Data Coordination Procedure. It outlines sources of geospatial data and contact information, preferences for base map data and state geospatial participation in studies, and other useful information for the State.

If you have questions about this procedure or other geospatial data coordination resources, contact the geospatial data coordination lead in your Regional Management Center:

Kagan Kuyu, Geospatial Data Coordination Lead
Regional Management Center IV
(678) 459-1041
KaganKuyu@mapmodteam.com

We appreciate the help of those who reviewed this document, in particular

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Date comments provided: April 10, 2007

Default Flood Hazard Base Map for the State

The default base map for flood hazard maps for the State is an image base map (orthophoto).

Geospatial Data Coverage

Find below information about and links to statewide (and Federal agencies' national) geospatial datasets. The list is provided to save time during pre-scoping and scoping activities when building a list of candidate geospatial datasets available for the study; it is not a prescription of datasets that must be used in a flood insurance study.

Major State Holdings

Orthophotos
Dataset name: Color Infrared Digital Orthophoto Quarter-Quadrangle (Doqq)

Data currentness: 1998
Scale: 1:12000
Ground sample resolution: 1 meter
Horizontal datum: NAD 83 (Projection: State Plane; Units: Meters)
Fee associated? No
Available for redistribution? Yes
Dataset source: http://www.nconemap.com
Dataset contact: David Giordano, Database Administrator, NC CGIA, 301 N. Wilmington St., Suite 700, Raleigh, NC 27601; 919-733-2090; david.giordano@ncmail.net .

Transportation (roads, railroads, and airports)

Dataset name: NC DOT GIS & CAD data products
Data currentness: 2005
Accuracy/Scale: 1:24,000-scale with updates from 1:12,000-scale orthophotos
Horizontal datum: NAD 83
Fee associated? No
Available for redistribution? Yes
Are road names part of the dataset? Route names are provided. Currently NC does not have a road name database that is maintained.
Dataset source: http://www.ncdot.org/it/gis/DataDistribution/default.html
Dataset contact: North Carolina Department of Transportation, Geographic Information Systems, 3401 Carl Sandburg Ct., Raleigh, NC 27610; 919-212-6000; gishelp@dot.state.nc.us

Hydrography (rivers, streams, lakes, and shorelines)

Dataset name: Hydrography - 1:24,000-scale
Data currentness: 2001
Scale: 1:24000
Horizontal datum: NAD 83 (Projection: State Plane; Units: Meters)
Fee associated? No
Available for redistribution? Yes
Are hydrography names part of the dataset? Yes
Dataset source: http://www.nconemap.com/data.html
Dataset contact: David Giordano, Database Administrator, 301 North Wilmington Street, Suite 700, Raleigh North Carolina 27601; (919) 733-2090; david.giordano@ncmail.net
Notes: CGIA has started a new hydrography mapping project using LIDAR to achieve a larger-scale, more accurate surface water dataset. Phase 1 is focused on a 19 county area in western NC. For more info, please contact Joe Sewash at CGIA – joe.sewash@ncmail.net – 919.733.2090

Political boundaries (county)

Dataset name: County Boundries
Data currentness: 2006
Scale: 1:100000
Horizontal datum: NAD 83 (Projection: State Plane; Units: Meters)
Fee associated? No
Available for redistribution? Yes

Dataset source: http://www.nconemap.com/data.html
Dataset contact: David Giordano, Database Administrator, 301 North Wilmington Street, Suite 700, Raleigh North Carolina 27601; telephone: (919) 733-2090; david.giordano@ncmail.net

Dataset name: Municipal Boundaries
Data Currentness: 2005
Scale: Varies
Horizontal Datum: NAD83 (Projection: State Plane; Units: Meters)
Fee associated: No
Available for redistribution: Yes
Dataset source: www.nconemap.com/data.html
Dataset contact: David Giordano, Database Administrator, 301 North Wilmington Street, Suite 700, Raleigh North Carolina 27601; telephone: (919) 733-2090; david.giordano@ncmail.net

Publicly owned lands (national, state, and local parks, forests, etc)

Dataset name: Lands Managed for Conservation and Open Space
Data currentness: 2002
Accuracy/Scale: 1:24000
Horizontal datum: NAD 83
Fee associated? No
Available for redistribution? Yes
Dataset source: http://www.nconemap.com/data.html
Dataset contact: David Giordano, Database Administrator, 301 North Wilmington Street, Suite 700, Raleigh North Carolina 27601; telephone: (919) 733-2090; david.giordano@ncmail.net

Cadastral (parcels)

No statewide coverage available.
Notes: Cadastral data is created and maintained by counties. Many counties offer their cadastral data as a free download from their website.

Extraterritorial jurisdiction (ETJ) boundaries

ETJs are created and maintained by county and local governments in NC. The State Floodplain Mapping Program collected ETJs statewide for updated FEMA flood maps. The program provides an ArcSDE layer of ETJs that appears in the NC Floodplain Mapping Information System at http://149.168.101.8/fmis/flood.

Terrain (elevation)

Dataset name: Elevation Grid
Data currentness: 2004
Accuracy/Scale: The accuracy of the underlying LIDAR data is about 25cm
Vertical datum: NAVD 88
Fee associated? No
Available for redistribution? Yes
Dataset source:
http://www.ncdot.org/it/gis/DataDistribution/ContourElevationData/default.html

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Dataset contact: L. C. Smith, Director, North Carolina Department of Transportation, Geographic Information Systems (GIS) Unit, 1587 Mail Service Center, Raleigh, 27699-1587; Phone (919) 212-6001; lcsmith@dot.state.nc.us

Notes: The Flood Mapping web site (http://www.ncfloodmaps.com/default_swf.asp) provides access to the most current and accurate information, but does not provide contours or countywide grids.

Data Distribution Process for State Data

NC OneMap, at www.nconemap.com, will serve as a central distribution portal once it is complete. In the meantime state data can be accessed from:

- NC Center for Geographic Information and Analysis: Aaron Lowery, aaron.lowery@ncmail.net, 919-733-2090
- NC Department of Transportation: L.C. Smith, lcsmith@dot.state.nc.us, 919-212-6000
- NC Floodplain Mapping Program: Charity Peterson, cpeterson@ncem.org, 919-715-5711 ext. 113

There are no licensing policies; the public records policy requires open public use of the data without licenses.

Currently there is not a single source but for all county data, some counties have to be contacted directly.

Federal Nationwide Geospatial Data Holdings

Information about nationwide holdings and programs of Federal agencies is available from the Mapping Information Platform web site at <https://hazards.fema.gov/femaportal/docs/ProgFacts.pdf>.

Finding and Accessing Other Existing Geospatial Data

Find below information about and links to ways of searching for additional geospatial data available for the State. These capabilities can be useful for finding geospatial data other than the statewide and Federal data listed above, including those of special governments, counties and parishes, municipalities, tribes, universities, and other organizations.

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Clearinghouses and Inventories for the State

The state has an existing inventory of geospatial products. NC participates in RAMONA, a national web based GIS Data inventory that allows a county to document their data holdings. See http://www.nc.gisinventory.net/

The inventory surveys the following levels of government:

    a. Municipal
    b. County/Parish
    c. State

The inventory is available to FEMA at no charge for use in state maps. The contact for the inventory is Diana Hales at diana.hales@ncmail.net or (919) 733-2090.

Other inventories for the data in the State include:

- NC OneMap Data Inventory (http://www.nconemap.com/inventory.html): On-line GIS data inventory tool. Contains status maps and GIS contacts. Contact diana.hales@ncmail.net.
- NC State Libraries Geospatial Data Services (http://www.lib.ncsu.edu/gis/): Links to mapping sites, city and county produced data, and web mapping and feature services. Contact http://www.lib.ncsu.edu/gis/gisform.html
- NC DOT Data Distribution (http://www.ncdot.org/it/gis/DataDistribution/): Data: streets, imagery, elevation, State Travel Map, Coastal Boating Guide. Contact gishelp@dot.state.nc.us
- NC Floodplain Mapping Information System (http://www.ncfloodmaps.com/default_swf.asp): Data: elevation, imagery, flood hazard areas, flood insurance rate maps. Contact http://149.168.101.8/fmis/html/Feedback.html

National Digital Orthophoto Program (NDOP) and National Digital Elevation Program (NDEP) Tracking Systems

These systems allow the search of orthophoto and elevation project information entered by federal and other organizations. To access the NDOP system, go to the NDOP web site at <http://www.ndop.gov> and follow the link "Project Tracking." For the NDEP system, go to the NDEP web site at <http://www.ndep.gov> and follow the link "Project Tracking."

TED Query Tool

This tool provides access to information about Federal, state, and local government agency and private sector data holdings gathered by the Census Bureau. It is available through the geospatial data coordination lead at the Regional Management Center.

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Geospatial One-Stop

Geospatial One-Stop, available at <http://www.geodata.gov>, provides access to geospatial data from many sources. Two parts of the site that should be investigated are the "data categories" for existing data and the "marketplace" for data that are planned or in-work and for potential partners for new data collection activities.

Working with People

Useful Local, State and Federal Contacts

The main contacts for the State's geospatial activities and Federal agencies' representatives in State are available on the Mapping Information Platform web site at <https://hazards.fema.gov/contacts/statecontacts/contacts.asp?page=NC>

Local contacts in NC for geospatial activities are available at: http://www.ncgicc.org/Default.aspx?tabid=167. This list is the Executive Committee of the Local Government Committee (a subcommittee of the NC Geographic Information Coordinating Council).

Additional useful contacts for the State can be found in the Statewide Mapping Advisory Committee membership list available through <http://www.ncgicc.org/Default.aspx?tabid=142>.

The UNC School of Government also maintains list servers that can be used to forward FEMA program information and production notices to state and county GIS contacts. The NC PMA (Property Mappers Association) list is available through http://lists.unc.edu/read/?forum=ncpma.

Involving the State's Geospatial Coordinator in Flood Studies

This state already has a working relationship with the office in the state that is responsible for updating the multi-hazard maps.

State Coordination Process for Building Geospatial Partnerships

The website www.ncgicc.org is the home to the NC Geographic Information Coordinating Council. The Council was formed in 1991 to develop policies regarding the use of geographic information, GIS, and other related technologies. The GICC conducts strategic planning, resolves policy and technology issues, and provides coordination of State, local and other GIS efforts.

The Council has 35 members, representing local, state, and federal governments. Council subcommittees routinely work on multiple issues that improve the quality, access, cost-effectiveness and usefulness of North Carolina's geographic information.

Provide Feedback on This Procedure

When you find information in this Procedure or in other FEMA or State resources that are outdated, please tell the geospatial data coordination lead in the Regional Management Center what was wrong and the correct information (if you know it). Use the contact information for the lead listed in the section Purpose of the Procedure.

The lead will use your feedback to update this Procedure.

Other Useful Information

Lead Regional Organizations in the State

As of March 2006:

- Albemarle Commission
- Cape Fear Council of Governments
- Centralina Council of Governments
- Eastern Carolina Council of Governments
- Isothermal Planning and Development Commission
- Kerr-Tar Regional Council of Governments
- Land of Sky Regional Council
- Lumber River Council of Governments
- Mid-Carolina Council of Governments
- Mid-East Commission
- Northwest Piedmont Council of Governments
- Piedmont Triad Council of Governments
- Region D Council of Governments
- Southwestern Commission
- Triangle J Council of Governments
- Upper Coastal Plain Council of Governments
- Western Piedmont Council of Governments