State Geospatial Data Coordination Procedure

New York

Table of Contents

Purpose of the Procedure

Flood Insurance Studies search for geospatial data during Discovery 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>.

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 flood insurance studies, information for the project Discovery stage, 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 Support Center (RSC):

Rosemary Bolich, Geospatial Data Coordination Lead
Regional Support Center 2
(646) 490-3848
rosemary.bolich@stantec.com

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). The preferred projection and datums are UTM Zone 18, NAD 83, and NAVD 88.

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 Discovery 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: New York Statewide Digital Orthoimagery Program
Data currentness: The program's goal is to continue obtaining imagery for the entire State on repeated 4-5 year cycles.
Accuracy/Scale: +/-4 ft. at the 95% confidence level (NSSDA) for 0.5-foot and 1-foot resolution. +/-8 ft. at the 95% confidence level (NSSDA) for 2-foot resolution.
Ground sample resolution: 0.5 feet for New York City metropolitan area (including NYC, Nassau County and Westchester County), 1-foot for urban areas, 2-foot for non-urban areas. Optional upgrades for entire counties or designated urban areas for 1-foot, 0.75-foot, or 0.5-foot resolution imagery are available. In the first two years of the program, participants obtaining optional upgrades have included Counties and several State Agencies.
Horizontal datum: NAD83
Fee associated? No
Available for redistribution? Yes

State Geospatial Data Coordination Procedure

Dataset source: NYS GIS Clearinghouse at http://www.gis.ny.gov/
Dataset contact: Frank Winters, (518) 242-5036, Frank.Winters@its.ny.gov
Available for download at NYS GIS Clearinghouse, 518-242-5029, nysgis@its.ny.gov

Transportation (roads, railroads, and airports)
Dataset name: NYS Streets
Data currentness: Updated quarterly.
Accuracy/Scale: The New York State Office of Cyber Security and Critical Infrastructure Coordination makes no claims to the accuracy of the information in this file.
Horizontal datum: NAD83
Fee associated? No
Available for redistribution? May not be redistributed, commercial use is prohibited with out special license arrangements.
Are road names part of the dataset? Yes
Are road names in TIGER format? Yes
Dataset source: NYS GIS Clearinghouse at http://www.gis.ny.gov/
Dataset contact: NYS GIS Clearinghouse, (518) 242-5029, nysgis@its.ny.gov
Notes: Vector file of public streets compiled from orthoimagery and attributed with street names, addresses, and route numbers. This data was created as part of the Accident Location Information System (ALIS) project. ALIS is a multi-agency project involving the NYS Office of Cyber Security & Critical Infrastructure Coordination (CSCIC), the NYS Department of Motor Vehicles (DMV) and the NYS Department of Transportation (DOT). A major component of the ALIS Project was the creation of up-to-date statewide Geographic Information System (GIS) files.

Dataset name: NYS Railroad Lines
Data currentness: May 2013
Accuracy/Scale: In most cases, when Geom_Acc = T the segment has a positional accuracy error of less than or equal to 12 meters. If Geom_Acc = F then the segment was not found on the resource used for realignment but has been confirmed by Tele Atlas to exist. This only indicates that its accuracy is unknown.
Horizontal datum: NAD83
Fee associated? No
Available for redistribution? May not be redistributed, commercial use is prohibited without special license arrangements.
Dataset source: NYS DOT
Dataset contact: Ray Hessinger, 518-457-8075, rhessinger@dot.state.ny.us; NYS GIS Clearinghouse, (518) 242-5029, nysgis@its.ny.gov

Hydrography (rivers, streams, lakes, and shorelines)
Dataset name: NHD – High Resolution
Data currentness: Continuous update process, per watershed
Accuracy/Scale: 1:24,000 or better
Horizontal datum: NAD83
Fee associated? No
Available for redistribution? Yes

Are hydrography names part of the dataset? Yes. These names are the same as those in USGS's Geographic Names Information System (GNIS) database.
Dataset source: USGS NHD data page at http://nhd.usgs.gov/data.html
Dataset contact: NYSDEC, 518-402-8163, watergis@gw.dec.state.ny.us
Notes: This dataset is maintained by NYSDEC under an agreement with USGS.

Political boundaries (county, municipal)

Dataset name: NYS Civil Boundaries
Data currentness: Revised June 2019
Accuracy/Scale: The New York State Office of Cyber Security and Critical Infrastructure Coordination makes no claims to the accuracy of the information in this file.
Horizontal datum: NAD83
Fee associated? No
Available for redistribution? See notes section.
Dataset source: NYS GIS Clearinghouse at http://www.gis.ny.gov/
Dataset contact: NYS GIS Clearinghouse, (518) 242-5029, nysgis@its.ny.gov
Notes: Available to members of the New York State Data Sharing Cooperative. Members are those organizations that have signed the New York State Data Sharing Agreement. At the time of the Discovery and Preliminary map presentation meetings, the County Assesor office should be queried about any changes to municipal boundaries within the previous State Fiscal year (Apr 1st – Mar 31st), as these might not have made it to the state-wide compilation distributed by CSCIC; if any such changes do exist, please contact NYS Floodplain Mapping coordinator on how to proceed.

Cadastral (parcels)

Dataset name: NYS Tax Parcels
Data currentness: July 2019
Accuracy/Scale: The maps from which the points are derived have a horizontal positional accuracy of +/- 10 feet. The points represent the visual center of the parcel and therefore can occur anywhere inside the polygon that makes up the parcel. The accuracy, therefore, cannot be guaranteed.
Horizontal datum: NAD83
Fee associated? No
Available for redistribution? No; see Notes section.
Dataset source: NYS GIS Clearinghouse at http://www.gis.ny.gov/
Dataset contact: NYS GIS Clearinghouse, (518) 242-5029, nysgis@its.ny.gov
Notes: Available to members of the New York State Data Sharing Cooperative. Members are those organizations that have signed the New York State Data Sharing Agreement. Parcels may not be developed for some counties, as the statewide layer is still under development.

Terrain (elevation)

Dataset name: New York State Digital Elevation Models (DEM)
Data currentness: Unknown
Accuracy/Scale: 6 to 8 meters vertical accuracy. Vertical Positional Accuracy Value varies with each quad.
Vertical datum: NGVD29

Fee associated? No

Available for redistribution? Yes. Acknowledgement of the U.S. Geological Survey and NYSDEC would be appreciated in products derived from these data.

Dataset source: NYS GIS Clearinghouse at https://gis.ny.gov/elevation/

Dataset contact: NYS GIS Clearinghouse, (518) 242-5029, nysgis@its.ny.gov

Notes: The USGS makes these data available through the National Elevation Dataset; see http://ned.usgs.gov. Several other sources of higher accuracy elevation data sets are available within the state; see **Error! Reference source not found.** section **Error! Reference source not found.**.

Data Distribution Process for State Data

New York has central distribution capability through the New York State GIS Clearinghouse. Spatial data published to the Clearinghouse are available for distribution to the general public or members of the data sharing cooperative depending on the licensing agreement. Federal, county and state owned data is distributed from this site. The distribution is only limited by entities that publish to the site.

Data can be searched and distributed by data set name, sector and organization. Data licensing agreements are identified where needed. CSCIC, in coordination with the data sharing cooperative, maintains and is responsible for the distribution of data on this site.

The Cornell University Geospatial Information Repository (CUGIR) is an online repository in the National Spatial Data Clearinghouse program. CUGIR hosts geospatial data and metadata for New York State. CUGIR coordinates its activities with those of the NYS GIS Clearinghouse.

Datasets that are part of the National Spatial Data Infrastructure are maintained by the State through agreements with the responsible federal agencies, e.g. NHD, and are distributed primarily through the corresponding federal facilities.

The State has created a centralized elevation data update, acquisition, and processing resource which is a part of the clearinghouse website (http://gis.ny.gov/elevation/).

Useful Risk MAP Discovery Data Sources

Preliminary information on Discovery data sources is provided in this document to reduce the level of effort needed on each subsequent Discovery data collection effort. Coordination with local community sponsors for additional local data still remains an integral part of Discovery and local data should be used where appropriate.

The *National Discovery Data Coordination Procedure* document contains information on data resources available from other Federal agencies (OFAs), including those that FEMA maintains at the national level, and should be used in conjunction with this State Geospatial Data Coordination Procedure document. In addition, FEMA and its contractors have created a geospatial Discovery Data Repository to host data that are not readily accessible through direct sources such as Web sites or subscription services and/or are not

updated on a frequent basis. Instructions on accessing the Discovery Data Repository are given in the *National Discovery Data Coordination Procedure* document.

Table 1 identifies data resources that are available at the regional and State levels, and also if there are no data available other than the national datasets. Resources in this table have been identified as appropriate for Discovery projects and may not represent the best data sources for FIRM production (please see the Major State Holdings section of this document for geospatial data that meets FIRM production requirements).

Table 1: Discovery Data Resources

Data	Agency	Location
Watershed boundaries	National	See *National Discovery Data Coordination Procedure*
Jurisdictional boundaries	New York State (NYS) GIS Clearinghouse National	http://gis.ny.gov/ Phone:518-242-5029 Email: nysgis@its.ny.gov See *National Discovery Data Coordination Procedure*
Tribal land boundaries	National	See *National Discovery Data Coordination Procedure*
State lands	NYS GIS Clearinghouse	http://gis.ny.gov/
Federal lands	NYS GIS Clearinghouse National	http://gis.ny.gov/ See *National Discovery Data Coordination Procedure*
Major roads	NYS GIS Clearinghouse National	http://gis.ny.gov/ See *National Discovery Data Coordination Procedure*
Streams	NYS GIS Clearinghouse National	http://gis.ny.gov/ See *National Discovery Data Coordination Procedure*
Coastal Barrier Resource Areas	National	See *National Discovery Data Coordination Procedure*
Coordinated Needs Management Strategy	National	See *National Discovery Data Coordination Procedure*
Topographic/ bathymetric data	NYS GIS Clearinghouse National	http://gis.ny.gov/elevation See *National Discovery Data Coordination Procedure*
AAL data from Hazus	National	See *National Discovery Data Coordination Procedure*

State Geospatial Data Coordination Procedure

Data	Agency	Location
Coverage areas for known community and Tribal risk assessment data	Local	Local
Status of Hazard Mitigation Plans	National	See *National Discovery Data Coordination Procedure*
Flood control structure data	NYS GIS Clearinghouse National	http://gis.ny.gov/gisdata/inventories/details.cfm?DSID=1130 See *National Discovery Data Coordination Procedure*
Locations of stream gages	National	See *National Discovery Data Coordination Procedure*
Locations of past flood claims and repetitive loss properties	National	See *National Discovery Data Coordination Procedure*
Locations of clusters of Letters of Map Change	National	See *National Discovery Data Coordination Procedure*
Known flooding issues not represented on effective FIRMs or listed in Coordinated Needs Management Strategy database	Local	Local
Areas of planned development	Local	Local
Areas of land use change datasets	Local	Local
Locations of ongoing projects or updated stream studies (e.g., highway improvements)	Local	Local
Locations of wave and tide gages	National	See *National Discovery Data Coordination Procedure*
Locations of wind gages	National	See *National Discovery Data Coordination Procedure*
Proposed inland limit of the Primary Frontal Dune, if present	Local	Local
Locations of any beach nourishment or dune restoration projects	Local	Local
Comparison of preliminary stillwater elevations with effective stillwater elevations for coastal areas	Local	Local
Available effective study data	National	See *National Discovery Data Coordination Procedure*
Orthophotography	NYS GIS Clearinghouse National	http://gis.ny.gov/gisdata/inventories/results.cfm?themeIDs=18 See *National Discovery Data*

State Geospatial Data Coordination Procedure

Data	Agency	Location
		Coordination Procedure
Proposed discussion areas, problem areas, areas of proposed mitigation projects	Local	Local
Land use and soil information	NYS GIS Clearinghouse National	http://gis.ny.gov/gisdata/inventories/details.cfm?DSID=574 See *National Discovery Data Coordination Procedure*
Reference points to locate areas with flooding issues	Local	Local
Hydraulic structures	NYS GIS Clearinghouse National	http://gis.ny.gov/gisdata/inventories/details.cfm?DSID=1130 http://gis.ny.gov/gisdata/inventories/details.cfm?DSID=397 See *National Discovery Data Coordination Procedure*
Coastal structures, including flood protection structures, shoreline structures, manmade embankments, surge conveyance pathways, and shoreline change data	NYS GIS Clearinghouse National	http://gis.ny.gov/ See *National Discovery Data Coordination Procedure*
Local structure and topographic data from the existing hazard mitigation plans	Local	Local
Historic inundation areas and High Water Marks	Regional	Discovery Data Repository
Clusters or locations of Individual Assistance/Public Assistance grants and locations of grant projects completed, planned, or underway	National	See *National Discovery Data Coordination Procedure*
Locations of projects and structures completed or planned for FEMA Hazard Mitigation Assistance grant programs or mitigation funds from other agencies or entities, such as the Small Business Administration	National	See *National Discovery Data Coordination Procedure*
Other information on FEMA grants, as described in G&S Appendix I	Local	Local
Any data deficiencies identified in hazard mitigation plans	Local	Local
Information from FloodSmart	National	See *National Discovery Data*

State Geospatial Data Coordination Procedure

Data	Agency	Location
on market penetration		*Coordination Procedure*
Community Assistance Visits / Community Assistance Contacts	National	See *National Discovery Data Coordination Procedure*
Community Rating System class information	National	See *National Discovery Data Coordination Procedure*
Information from other Federal agencies	National	See *National Discovery Data Coordination Procedure*
Information from State agencies, non-profit organizations, universities, etc.	NYS GIS Clearinghouse	http://gis.ny.gov/
Current community plans, ordinances, or programs to alleviate flooding or manage stormwater	NYS GIS Clearinghouse National	http://gis.ny.gov/ See *National Discovery Data Coordination Procedure*
Other known hazards with geographical boundaries (e.g., earthquake faults)	National	See *National Discovery Data Coordination Procedure*
Information on active disasters	National	See *National Discovery Data Coordination Procedure*
Campgrounds, recreational areas, emergency access routes, etc.	NYS GIS Clearinghouse National	http://gis.ny.gov/gisdata/inventories/details.cfm?DSID=1114 See *National Discovery Data Coordination Procedure*
Any other data that might be appropriate	Local	Local

State Geospatial Data Coordination Procedure

Federal Nationwide Geospatial Data Holdings

Information about nationwide holdings and programs of Federal agencies is available from USGS at https://www.usgs.gov/core-science-systems/national-geospatial-program/national-map.

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.

Clearinghouses and Inventories for the State

An inventory of existing geospatial data products can be found at the New York State GIS Clearinghouse http://gis.ny.gov/gisdata/index.cfm?nysgis=

Metadata formats for the inventory of geospatial products vary depending on the data set's owner. Data requiring fees and special licensing restrictions is identified on the site.

The sharing and coordination of geospatial data in New York is organized through the NYS GIS Data Sharing Cooperative. This group consists of governmental entities and not-for-profit organizations that have executed data sharing agreements for the purpose of improving access to GIS data among members.

The state has an existing inventory of geospatial products that is available via download. In cases where data is not available for download, a contact person for the data is listed on the site.

FEMA is a NYS GIS Data Sharing Cooperative member, allowing the agency access to data sets at no charge and with no access restrictions beyond what's defined in license agreements.

The URL for the inventory is as follows: http://gis.ny.gov/

National Elevation Dataset (NED) and 3D Elevation Program (3DEP)

These systems allow the search of orthophoto and elevation project information entered by Federal and other organizations. The NEP system can be accessed at https://www.nrcs.usda.gov/wps/portal/nrcs/main/national/ngce/elevation/. The 3DEP system can be accessed at https://www.usgs.gov/core-science-systems/ngp/3dep.

Working with People

Useful 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=NY

State Geospatial Data Coordination Procedure

A listing of New York GIS contacts for all levels of government and private, academic and nonprofit organizations can be found at: http://gis.ny.gov/outreach/whoswho

Involving the State's Geospatial Coordinator in Flood Studies

The New York state flood mapping coordinator is:
Tim Daly
NYS Office of Information Technology Services
625 Broadway
Albany, NY 12233
(518) 402-9872
timothy.daly@its.ny.gov

When participating in the FEMA flood hazard mapping effort, the RSC will coordinate with CSCIC through NYSDEC. NYSDEC prefers to be contacted in the following ways:

    a. Send project list at the start of each year
    b. Conference call at the start of data Discovery for each individual project
    c. Coordinate at local GIS meetings and conferences
    d. Send information once project scope is finalized
    e. CSCIC will continue to coordinate with the State's Flood Plain Management Office (NYSDEC).

CSCIC has a working relationship with FEMA Region 2 and NYSDEC, the agency responsible for updating the multi-hazard maps and providing input to the state's Risk MAP business plan.

State Coordination Process for Building Geospatial Partnerships

Coordination with New York State government is primarily through the New York State Department of Environmental Conservation. Coordination activities take place at conferences, FEMA meetings and phone conferences to discuss specific FEMA projects.

Future coordination activities will include working with the New York State GIS Clearinghouse, NYS GIS Data Sharing Cooperative and the Data Coordination, Standards & Clearinghouse Work Group. Future coordination activities will include using the NYS GIS Data Sharing Cooperative as an avenue to distribute DFIRM data.

Finding Local Geospatial Contacts

Local contacts, including those from special government districts (for example, a regional planning commission); counties, parishes, or equivalent governments; tribes, municipal governments; and other organizations (for example, local universities) also have geospatial data that can help a Flood Insurance Study. Contact information is available from the FEMA archive and web searches at government link portals such as https://hazards.fema.gov/contacts/statecontacts.

State Geospatial Data Coordination Procedure

Local contacts are identified by NYSDEC during Discovery activities and all local communities and county agencies are invited to Discovery meetings.

Coordination with local GIS contacts is maintained through the NYS GIS Coordination Program. Participants and contact information for those in the coordination program is listed on the Clearinghouse website. Every NY county is included and those municipal governments that are part of the data sharing cooperative are also identified.

The state also maintains a list server that can be used to forward FEMA program information and production notices to state and county GIS contacts. The contact information for using this list server is:
http://gis.ny.gov/outreach/listserv/index.cfm?nysgis=. The levels of government in the contact list are primarily county governments, though state and municipal governments and authorities also retain GIS data. The counties maintain the majority of spatial data though the state administers the DOQQ program.

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 Support 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.