

# State Geospatial Data Coordination Procedure

## New York

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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:

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## 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: 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

Dataset source: NYS GIS Clearinghouse at <http://www.nysgis.state.ny.us/gateway/mg/>

Dataset contact: NYS GIS Clearinghouse, 518-474-5212, [nysgis@cscic.state.ny.us](mailto:nysgis@cscic.state.ny.us)

#### *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 without special license arrangements.

Are road names part of the dataset? Yes

Dataset source: NYS GIS Clearinghouse at <http://www.nysgis.state.ny.us/gateway/mg/>

Dataset contact: NYS GIS Clearinghouse, 518-474-5212, [nysgis@cscic.state.ny.us](mailto:nysgis@cscic.state.ny.us)

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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.

## *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](mailto: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 October 2006

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.nysgis.state.ny.us/gateway/mg/>

Dataset contact: NYS GIS Clearinghouse, 518-474-5212, [nysgis@cscic.state.ny.us](mailto:nysgis@cscic.state.ny.us)

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 scoping and Preliminary map presentation meetings, the County Assessor office should be queried about any changes to municipal boundaries within the previous State Fiscal year (Apr 1<sup>st</sup> – Mar 31<sup>st</sup>), 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.

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

Dataset name: NYS Public Land Boundaries

Data currentness: January 2005

Accuracy/Scale: unknown

Horizontal datum: NAD83

Fee associated? No

Available for redistribution? No; see Notes section

Dataset source: NYS GIS Clearinghouse at <http://www.nysgis.state.ny.us/gateway/mg/>

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Dataset contact: NYS GIS Clearinghouse, 518-474-5212, [nysgis@cscic.state.ny.us](mailto:nysgis@cscic.state.ny.us)

Notes: This file including derivative products is copyrighted by the New York State Office of Cyber Security and Critical Infrastructure Coordination (copyright 2005). A signed license is required or access through the New York State GIS Data Sharing Cooperative. Such file and derivative products may be used for any lawful purpose except commercial resale provided the following statement appears on all electronic or hardcopy created products: "This file or derivative product was created with information copyrighted by the New York State Office of Cyber Security and Critical Infrastructure Coordination (copyright 2005)."

## *Cadastral (parcels)*

Dataset name: 2006 Real Property Data

Data currentness: January 2006

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, can not be guaranteed.

Horizontal datum: NAD83

Fee associated? No

Available for redistribution? No; see Notes section.

Dataset source: NYS GIS Clearinghouse at <http://www.nysgis.state.ny.us/gateway/mg/>

Dataset contact: NYS GIS Clearinghouse, 518-474-5212, [nysgis@cscic.state.ny.us](mailto:nysgis@cscic.state.ny.us)

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.

## *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 <http://www.nysgis.state.ny.us/gateway/mg/>

Dataset contact: NYS GIS Clearinghouse, 518-474-5212, [nysgis@cscic.state.ny.us](mailto:nysgis@cscic.state.ny.us)

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 New York State Elevation Data Updates section below.

## *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 is 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.

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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 provides 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 is working on the development of a centralized elevation data updates acquisition, processing and distribution resource. Until it becomes available it will be necessary to go through the individual data set owners, see New York State Elevation Data Updates section below.

## 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.

## Clearinghouses and Inventories for the State

An inventory of existing geospatial data products can be found at the New York State GIS Clearinghouse <http://www.nysgis.state.ny.us/gisdata/>.

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

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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 URLs for the inventory are as follows:

- <http://www.nysgis.state.ny.us/cooplist.htm>
- [http://www.nysgis.state.ny.us/repository/data\\_subject.htm](http://www.nysgis.state.ny.us/repository/data_subject.htm)

## 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.

## 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 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>>

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A listing of New York GIS contacts for all levels of government and private, academic and non profit organizations can be found at:

<http://www.nysgis.state.ny.us/outreach/whoswho/>

## Involving the State's Geospatial Coordinator in Flood Studies

When participating in the FEMA flood hazard mapping effort, the RMC 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 flood map modernization 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 <<http://www.statelocalgov.net>>.

Local contacts are identified by NYSDEC during pre-scoping activities and all local communities and county agencies are invited to scoping 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



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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://www.nysgis.state.ny.us/outreach/listserv/index.cfm#newyork>. 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 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.

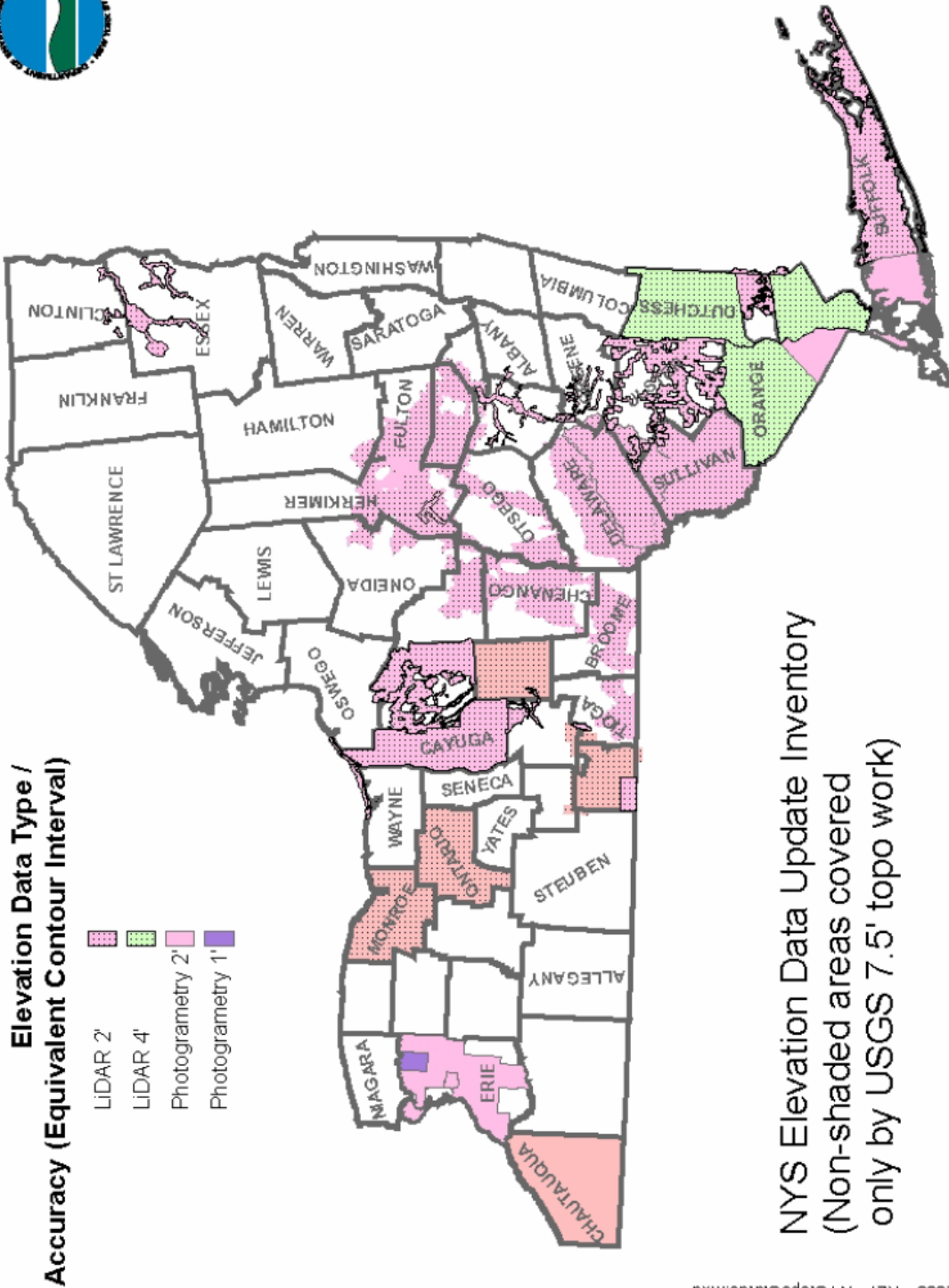
The lead will use your feedback to update this Procedure.

## Other Useful Information

### New York State Elevation Data Updates

The following information describes elevation data that have higher quality than does the statewide data coverage. The information was provided by Ricardo Lopez-Torrijos of the New York Dept. of Environmental Conservation. Please contact Mr. Lopez-Torrijos for changes in the status of such high-quality data for the State; his contact information is listed in the section Purpose of the Procedure section above.

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## NYS Elevation Data Updates As of February 2007

Collection Name	Data Coverage Counties	Collection Year	Collection Method	Vertical Accuracy		Published ?	Data Collection by	Data Custodian Contact	Contact details
				NSDA 95% CI (cm)	Equiv. Contour Interval (ft)				
1 Grand Island	Erie	1997	Stereo photogrammetry		2	No	TVGA Consultants	Grand Island	
2 Clarence	Erie	2003	Stereo photogrammetry		1	No	TVGA Consultants	Town of Clarence	
3 ECWA	Erie	1990	Stereo photogrammetry		2	No	Woolpert LLP	Erie County Water Authority	
4 West Seneca	Erie	1998	Stereo photogrammetry		2	No	Nussbaumer and Clarke, Inc	Town of West Seneca	
5 Erie-FIS	Erie	2007	LIDAR	18.5	2	No	Sanborn	FEMA	Medina Consultants
6 Chautauqua	Chautauqua	2004?	Stereo photogrammetry	18.5	2	No	?	Chautauqua County	
7 Monroe	Monroe	2006	LIDAR	18.5	2	No	Pictometry	Monroe County	
8 Ontario	Ontario	2006	LIDAR	18.5	2	No	Pictometry	Ontario County	
9 Cayuga	Cayuga	2000	LIDAR	18.5	2	No	EagleScan	Cayuga County	
10 Chemung rest	Chemung	2005	LIDAR	18.5	2	No	Spectrum	Chemung County	
11 Chemung SW	Chemung	2001	LIDAR	18.5	2	No	3Di	Chemung County	
12 Sulphur Springs	Tioga	2001	LIDAR	18.5	2	No	3Di	Upper Susquehanna Coalition	
13 Tomkins -Owasco	Tomkins	2001	LIDAR	18.5	2	No	EagleScan	Upper Susquehanna Coalition	
14 Cortland	Cortland	2005	LIDAR	18.5	2	No	EarthData	Cortland County	
15 Onondaga E	Onondaga	2006	LIDAR	18.5	2	No	Spectrum	NYS DEC	
16 Onondaga W	Onondaga	2002	LIDAR	18.5	2	No	Spectrum	NYS DEC	
17 Steele	Herkimer	1998	LIDAR	18.5	2	No	EagleScan	NYS DEC	
18 Dolgeville	Herkimer	2005	LIDAR	18.5	2	No	Spectrum	NYS DEC	
19 AuSable-Boquet	Essex/Clinton	2001	LIDAR	18.5	2	No	EagleScan	NYS DEC	
20 Schoharie	Schoharie	1998	LIDAR	18.5	2	No	EagleScan	NYS DEC	
21 Greene-Schoharie	Greene	1998	LIDAR	18.5	2	No	EagleScan	NYS DEC	
22 Reservoirs	Delaware/Ulster	2001	LIDAR	18.5	2	No	EagleScan	NYS DEC	
23 Delaware E	Delaware/Ulster/Sullivan/Greene	2005	LIDAR	18.5	2	No	TerraPoint	FEMA	

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24	NYCW-EOH Reservoirs	Putnam/Westchester	2001	LIDAR	18.5	2	No	EagleScan	NYS DEC	
25	Ulster FPM	Ulster	2005	LIDAR	18.5	2	No	Spectrum	NYS DEC	
26	Dutchess	Dutchess	2000?	LIDAR		4	No	ASI	Dutchess County	
27	Orange	Orange	2004	LIDAR		4	No	Delorme	Orange County	
28	Rockland	Rockland	2004	Stereo photogrammetry		2+	No	Chase Sells	Rockland County	
29	Westchester	Westchester	2000?	LIDAR		4	No	ASI	Westchester County	
30	NYC	NYC	?	Stereo photogrammetry			No	?	NYC	
31	Nassau	Nassau	1983	Stereo photogrammetry		2	No	Bowne Management	Nassau County	
32	Suffolk	Suffolk	2006	LIDAR		2	No	TerraPoint	FEMA	
33	GL bathymetry	Great Lakes Nassau/Suffolk	1998	LIDAR			Yes	USACE	USACE	<a href="http://maps.csc.noaa.gov/TCM/">http://maps.csc.noaa.gov/TCM/</a>
34	LI bathymetry	Suffolk	1999+	LIDAR			Yes	USACE	USACE	<a href="http://maps.csc.noaa.gov/TCM/">http://maps.csc.noaa.gov/TCM/</a>
35	Sullivan	Sullivan	2007	LIDAR	18.5	2	No	Merrick	REIS, Inc.	Dave Washburn
36	Niagara	Niagara, Erie Delaware, Sullivan, Ulster, Greene	2007	LIDAR	18.5	2	?	Sanborn	Sanborn	Some areas by FEMA for FIS thru Medina Consultants
37	DR 164? -HMTAP 2005	Sullivan, Delaware, Montgomery, Herkimer, Fulton, Chenango, Broome, Madison, Tioga, Oneida, Schoharie	2005	LIDAR	18.5	2	No	TerraPoint	FEMA	URS -John Dromski-Reed
38	DR1650 -HMTAP 2006		2007	LIDAR	18.5	2	No	Several?	FEMA	Thru USGS contract. Dewberry prime?
39										