

State Geospatial Data Coordination Procedure

Louisiana

FINAL

October 31, 2015



FEMA

State Geospatial Data Coordination Procedure

Louisiana

Table of Contents

| | |
|---|----|
| Purpose of the Procedure | 1 |
| Default Flood Hazard Base Map for the State | 2 |
| Geospatial Data Coverage..... | 2 |
| Major State Holdings..... | 2 |
| Orthophotos | 2 |
| Transportation (roads, railroads, and airports) | 2 |
| Hydrography (rivers, streams, lakes, and shorelines)..... | 3 |
| Political boundaries (county, municipal)..... | 3 |
| Publicly owned lands (national, state, and local parks, forests, etc)..... | 4 |
| Public land survey system (PLSS) (township and section lines)..... | 4 |
| Cadastral (parcels) | 4 |
| Extraterritorial jurisdiction (ETJ) boundaries..... | 4 |
| Terrain (elevation) | 5 |
| Data Distribution Process for State Data..... | 5 |
| Useful Risk MAP Discovery Data Sources | 5 |
| Federal Nationwide Geospatial Data Holdings | 10 |
| Finding and Accessing Other Existing Geospatial Data | 10 |
| Clearinghouses and Inventories for the State | 10 |
| National Digital Orthophoto Program (NDOP) and National Digital Elevation Program (NDEP) Tracking Systems..... | 11 |
| Geospatial One-Stop | 11 |
| Working with People | 11 |
| Useful State and Federal Contacts..... | 11 |
| Involving the State’s Geospatial Coordinator in Flood Studies..... | 11 |
| State Coordination Process for Building Geospatial Partnerships | 11 |
| Finding Local Geospatial Contacts..... | 11 |
| Provide Feedback on This Procedure..... | 12 |

State Geospatial Data Coordination Procedure

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 portal, which is available at https://riskmapportal.msc.fema.gov/riskmap_usergroups/GeoCoord/default.aspx (password required).

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):

John Barr, Geospatial Data Coordination Lead
RAMPP Regional Support Center (RSC) 6
(972)829-8966
john.barr@aecom.com

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

Joe Holmes, IT Geographic Manager
Office of Management and Finance
Louisiana Department of Environmental Quality
(225) 219-3348
joe.holmes@la.gov

Craig Johnson, Director
Louisiana Geographic Information Center
Phone: (225) 578-3479
cjohnson@lsu.edu

Date Procedure last discussed: February 2012

State Geospatial Data Coordination Procedure

Default Flood Hazard Base Map for the State

The default base map for flood hazard maps for the State is 2004 Statewide Digital Ortho Quarter Quads.

Geospatial Data Coverage

Below, you will find links to statewide and federal agencies' national geospatial datasets and information about them. 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: Digital Ortho Photography

Data currentness: Statewide Feb. 2004, Dec. 2005 (Coastal Flight)

Accuracy/Scale: 1:12,000

Ground sample resolution: 1 meter

Horizontal datum: NAD 83

Fee associated? No

Available for redistribution? Yes

Dataset source: <http://atlas.lsu.edu/>

Dataset contact: Farrell Jones at fjones@lsu.edu

Notes: Full Coverage for State Available for 2004. Coverage also is available for 2005 for areas affected by hurricanes Katrina/Rita; sometimes referred to as the coastal flight, the coverage was primarily south of Interstate 10.

Transportation (roads, railroads, and airports)

Dataset name: LaDOTD's State Maintained Highways, TeleAtlas Commercial dataset (local roads)

Data currentness: State Maintained Highways: 2/2007; Commercial data updated every 6 months

Accuracy/Scale: Varies, 1:24,000

Horizontal datum: NAD 83

Fee associated? No

Available for redistribution? State data – Yes, with source citation; Commercial data - No

Are road names part of the dataset? No - State data. Yes – licensed data

Are road names in TIGER format? No, this dataset cannot be used for FIRMs that are using the 2013 FIRM Database schema without authorization by the FEMA Project Officer and conversion of its attributes to the 2013 FEMA schema.

Dataset source: Highways: Louisiana Dept. of Transportation and Development (LaDOTD)

Dataset contact: Darryl W. Mack, LaDOT, at (225) 379-1283, darrylmack@dotd.la.gov

Available for download at http://logic.lsu.edu/data/losco/state_highways_ldotd_2007.zip

Dataset name: Railroads in Louisiana

State Geospatial Data Coordination Procedure

Data currentness: 4/2007
Accuracy/Scale: Varies
Horizontal datum: NAD 83
Fee associated? No
Available for redistribution? Yes, with source citation
Dataset source: Louisiana Dept. of Transportation and Development (LaDOTD)
Dataset contact: Darryl W. Mack, LA DOT, at (225) 379-1283, darrylmack@dotd.la.gov. Download at http://lagic.lsu.edu/data/losco/railroads_ldotd_2007.zip
Notes: Statewide coverage available as of 2007.

Dataset name: Airports in Louisiana
Data currentness: 2/2007
Accuracy/Scale: Varies
Horizontal datum: NAD 83
Fee associated? No
Available for redistribution? Yes
Dataset source: Louisiana Dept. of Transportation and Development (LaDOTD)
Dataset contact: Darryl Mack, LA DOT, at (225) 379-1283, darrylmack@dotd.la.gov. Available for download at http://lagic.lsu.edu/data/losco/airports_ldotd_2007.zip
Notes: Statewide coverage available as of 2007.

Hydrography (rivers, streams, lakes, and shorelines)

Dataset name: Louisiana NHD
Data currentness: Varies with the age of the quad it was taken from.
Accuracy/Scale: 1:24,000
Horizontal datum: NAD 83
Fee associated? No
Available for redistribution? Completed units available for redistribution
Are hydrography names part of the dataset? Yes, from the Geographic Names Information System
Dataset source: USGS at <http://nhd.usgs.gov>
Dataset contact: Joe Holmes, Louisiana Dept. of Environmental Quality, (225) 219-3348, joe.holmes@la.gov
Notes: Commercially available statewide hydrography layer available from TeleAtlas.

Political boundaries (county, municipal)

Dataset name: Parish boundaries
Data currentness: Current
Accuracy/Scale: Accuracy to +/- 40 ft.; Horizontal datum: NAD 83
Fee associated? No
Available for redistribution? Yes, with all metadata elements; for governmental agencies
Dataset source: Louisiana Dept. of Transportation and Development (LaDOTD)
Dataset contact: Darryl Mack, LA DOT, at (225) 379-1283, darrylmack@dotd.la.gov. Available for download at http://lagic.lsu.edu/data/losco/parishes_ldotd_2007.zip
Notes: Downloadable and ArcIMS website.

State Geospatial Data Coordination Procedure

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

Dataset name: SLABS (State Lands & Buildings), Nature Conservancy Dataset

Data currentness: Current, varies

Accuracy/Scale: Varies

Horizontal datum: NAD 83

Fee associated? No

Available for redistribution? Yes

Dataset source: http://wwwtst.doa.la.gov/osl/slabs/slabs_utm83_09-18-14.zip

SLABS – Louisiana State Lands Office, Nature Conservancy – DW&F

Dataset contact: SLABS – Marty Beasley (State Land Office), (225) 342-4450, marty.beasley@la.gov, Nature Conservancy – Doug Albert (DW&F), (225) 342-4450

Notes: SLABS – updated regularly, some boundaries disputed.

Public land survey system (PLSS) (township and section lines)

Dataset name: PLSS

Data currentness: varies with the currentness of 1:100,000 DLG

Accuracy/Scale: 100K only

Horizontal datum: NAD27

Fee associated? No

Available for redistribution? Yes

Dataset source: State Lands Office

Dataset contact: Marty Beasley, State Lands Office, (225) 342-4450, marty.beasley@la.gov

Notes: State Lands Office has a more comprehensive set of PLSS data acquired from Tobin Aerial Surveys. These data are not available for distribution.

Cadastral (parcels)

Dataset name: Varies by parish (county)

Data currentness: Varies by parish (county)

Accuracy/Scale: Varies by parish (county)

Horizontal datum: NAD 83

Fee associated? No, with a few exceptions

Available for redistribution? Only a handful of parishes have their cadastral data on the web.

Dataset source: Available from Parish Assessor, see the Louisiana Assessors Association website at <http://louisianaassessors.org/> for the contact list.

Dataset contact: Celeste Moss at LA Tax Comm. 225-925-7830 x 210 CMoss@latax.state.la.us and Marty Beasley at State Lands Office 225-342-4455, marty.beasley@la.gov

Notes: Approximately half of Louisiana Assessors have digital cadastral data, but fewer than six have those data on a public website available for download.

Extraterritorial jurisdiction (ETJ) boundaries

Does not exist as a geospatial data layer

State Geospatial Data Coordination Procedure

Terrain (elevation)

Dataset name: LIDAR data

Data currentness: 2009

Accuracy/Scale: Full coverage at 5-m Digital Elevation Models (DEMs)

Vertical datum: NAVD 88

Fee associated? No

Available for redistribution: Yes

Dataset source: <http://atlas.lsu.edu/lidar>

Dataset contact: David Gisclair at the Louisiana Oil Spill Coordinator's Office (LOSCO), (225) 219-5816, dgisclair@lsu.edu

Notes: Statewide coverage available as of 2009.

Data Distribution Process for State Data

State data is available online through Louisiana Geographic Information Center (LAGIC) at <http://lagic.lsu.edu/>. State data are public and no licensing is required. The State's Atlas Data Portal provides access to statewide GIS layers, imagery, LiDAR and more at <http://atlas.lsu.edu>.

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 meet FIRM production requirements).

State Geospatial Data Coordination Procedure

Table 1. Discovery Data Resources

| Data | Data Source | Location |
|---------------------------------------|--|---|
| Watershed boundaries | Dept. of Environmental Quality | Joe Holmes, Louisiana Dept. of Environmental Quality, (225) 219-3348, joe.holmes@la.gov |
| | National | See <i>National Discovery Data Coordination Procedure</i> |
| Jurisdictional boundaries | Louisiana Dept. of Transportation and Development (DOTD) | http://lagic.lsu.edu/data/losco/parishes_ldotd_2007.zip Dr. Jim Mitchell, (225) 379-1881 jimmitchell@dotd.la.gov |
| | National | See <i>National Discovery Data Coordination Procedure</i> |
| Tribal land boundaries | National | See <i>National Discovery Data Coordination Procedure</i> |
| State lands | Louisiana State Lands Office | http://www.tst.doa.la.gov/osl/slabs/slabs_utm83_09-18-14.zip Marty Beasely GIS Manager (225) 342-4450 |
| Federal lands | National | See <i>National Discovery Data Coordination Procedure</i> |
| Major roads | Louisiana Dept. of Transportation and Development (LaDOTD) | http://www.sp.dotd.la.gov/ Darryl Mack, (225) 379-1283 darrylmack@dotd.la.gov |
| | National | See <i>National Discovery Data Coordination Procedure</i> |
| Streams | ATLAS: The Louisiana Statewide GIS | http://atlas.lsu.edu/ Farrell Jones LSU CADGIS Research Laboratory fjones@lsu.edu |
| | National | See <i>National Discovery Data Coordination Procedure</i> |
| Coastal Barrier Resource Areas | National | See <i>National Discovery Data Coordination Procedure</i> |
| Coordinated Needs Management Strategy | National | See <i>National Discovery Data Coordination Procedure</i> |

State Geospatial Data Coordination Procedure

| Data | Data Source | Location |
|--|--|---|
| Topographic/bathymetric data | ATLAS: The Louisiana Statewide GIS National | http://atlas.lsu.edu/ Farrell Jones (225) 578-6134 LSU CADGIS Research Laboratory fjones@lsu.edu <i>See National Discovery Data Coordination Procedure</i> |
| AAL data from Hazus | National | <i>See National Discovery Data Coordination Procedure</i> |
| Coverage areas for known community and Tribal risk assessment data | Local | Local |
| Status of Hazard Mitigation Plans | National | <i>See National Discovery Data Coordination Procedure</i> |
| Flood control structure data | National | <i>See National Discovery Data Coordination Procedure</i> |
| Locations of stream gages | ATLAS: The Louisiana Statewide GIS National | http://atlas.lsu.edu/ Farrell Jones LSU CADGIS Research Laboratory fjones@lsu.edu <i>See National Discovery Data Coordination Procedure</i> |
| Locations of past flood claims and repetitive loss properties | Region National | Available through coordination with Region 6 RSC. Jessica Baker 1001 Cross Timbers Road Suite 2020 Flower Mound, TX 75028 jBaker@half.com <i>See National Discovery Data Coordination Procedure</i> |
| Locations of clusters of Letters of Map Change | National | <i>See National Discovery Data Coordination Procedure</i> |
| 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 |

State Geospatial Data Coordination Procedure

| Data | Data Source | Location |
|--|------------------------------------|--|
| Locations of ongoing projects or updated stream studies (e.g., highway improvements) | Local | Local |
| Locations of wave and tide gages | National | See <i>National Discovery Data Coordination Procedure</i> |
| Locations of wind gages | National | See <i>National Discovery Data Coordination Procedure</i> |
| 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 | Local | Local |
| Available effective study data | National | See <i>National Discovery Data Coordination Procedure</i> |
| Orthophotography | ATLAS: The Louisiana Statewide GIS | http://atlas.lsu.edu/ Farrell Jones LSU CADGIS Research Laboratory fjones@lsu.edu |
| | National | See <i>National Discovery Data Coordination Procedure</i> |
| Proposed discussion areas, problem areas, areas of proposed mitigation projects | Local | Local |
| Land use and soil information | ATLAS: The Louisiana Statewide GIS | http://atlas.lsu.edu/ Farrell Jones LSU CADGIS Research Laboratory fjones@lsu.edu |
| | National | See <i>National Discovery Data Coordination Procedure</i> |
| Reference points to locate areas with flooding issues | Local | Local |

State Geospatial Data Coordination Procedure

| Data | Data Source | Location |
|---|--|---|
| Hydraulic structures | Louisiana Dept. of Transportation and Development (LaDOTD) National | http://www.sp.dotd.la.gov/ Dr. Jim Mitchell, (225) 379-1881 jimmitchell@dotd.la.gov <i>See National Discovery Data Coordination Procedure</i> |
| Coastal structures, including flood protection structures, shoreline structures, manmade embankments, surge conveyance pathways, and shoreline change data | National | <i>See National Discovery Data Coordination Procedure</i> |
| 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 | <i>See National Discovery Data Coordination Procedure</i> |
| 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 | <i>See National Discovery Data Coordination Procedure</i> |
| Other information on FEMA grants | Local | Local |
| Any data deficiencies identified in hazard mitigation plans | Local | Local |
| Information from FloodSmart on market penetration | National | <i>See National Discovery Data Coordination Procedure</i> |
| Community Assistance Visits / Community Assistance Contacts | National | <i>See National Discovery Data Coordination Procedure</i> |
| Community Rating System class information | National | <i>See National Discovery Data Coordination Procedure</i> |

State Geospatial Data Coordination Procedure

| Data | Data Source | Location |
|---|--|--|
| Information from other Federal agencies | National | See <i>National Discovery Data Coordination Procedure</i> |
| Information from State agencies, non-profit organizations, universities, etc. | Local | Local |
| Current community plans, ordinances, or programs to alleviate flooding or manage stormwater | National | See <i>National Discovery Data Coordination Procedure</i> |
| Other known hazards with geographical boundaries (e.g., earthquake faults) | National | See <i>National Discovery Data Coordination Procedure</i> |
| Information on active disasters | National | See <i>National Discovery Data Coordination Procedure</i> |
| Campgrounds, recreational areas, emergency access routes, etc. | Louisiana Dept. of Transportation and Development (LaDOTD) | http://wwwsp.dotd.la.gov/ Dr. Jim Mitchell, (225) 379-1881 jimmitchell@dotd.la.gov |
| | National | See <i>National Discovery Data Coordination Procedure</i> |
| Any other data that might be appropriate | Local | Local |

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/ProgFacts1.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

Atlas: The Louisiana Statewide GIS at <http://atlas.lsu.edu/>

The Louisiana Oil Spill Coordinator's Office (LOSCO) Data Catalog at <http://lagic.lsu.edu/loscoweb/>

The Louisiana Geographic Information Center at <http://lagic.lsu.edu/>

State Geospatial Data Coordination Procedure

The Louisiana Department of Environmental Quality maintains an Interactive Mapping Application at <http://map.ldeq.org/Default.aspx>

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.”

Geospatial One-Stop

Geospatial One-Stop, available at <http://www.data.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 the State are available on the Mapping Information Platform web site at <https://hazards.fema.gov/contacts/statecontacts/contacts.asp?page=LA>

Additional useful contacts for the State can be found at http://lagic.lsu.edu/links_contacts.asp.

Involving the State’s Geospatial Coordinator in Flood Studies

The State has strong involvement with FEMA on Discovery efforts related to identifying base map and terrain data suitable for flood mapping purposes.

State Coordination Process for Building Geospatial Partnerships

The Louisiana Geographic Information Systems Council (LGISC) was created by an act of the Louisiana legislature in 1995, to promote geospatial data sharing and data coordination. See <http://lagic.lsu.edu/lgiscweb/>

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>.

State Geospatial Data Coordination Procedure

The State maintains a statewide GIS contacts list in the following formats:

- a. Web Accessible

Contact or URL information for list: http://logic.lsu.edu/links_contacts.asp

The levels of government in the list are:

- a. Municipal
- b. County/Parish
- c. State

The State has strong involvement with FEMA in the area of collecting LiDAR data on a statewide basis, suitable for floodplain mapping.

The State has regional planning commissions/councils of government.

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 RSC 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.