State Geospatial Data Coordination Procedure

Mississippi

Final

November 2019

FEMA

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Purpose of the Procedure

Flood Insurance Studies involve searching for geospatial data during Discovery (formerly pre-scoping and scoping) tasks. If needed data are not available, studies might include funds that allow for the collection of new data and, where applicable, encourage cost sharing among existing organizations. 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_V3.pdf, and in *Scoping Guidelines: Pre-scoping and the Scoping Meeting*, which is available through the Regional Service Center (RSC).

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 agencies are interested. Dead-end searches and cold calls can be avoided 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 RSC:

Nicole Ryerson
COMPASS Regional Support Center 4
1360 Peachtree Street, Suite 500
Atlanta, GA 30309
(404) 965-7082
nicole.ryerson@aecom.com

This document will be shared with the appropriate Regional and State geospatial leads for feedback and comments.

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

Below, you will find links to statewide (and Federal agencies' national) geospatial datasets and information about them. The list is provided to save time when building a list of candidate geospatial datasets available for the study during Discovery activities; it is not a prescription of datasets that must be used in a Flood Insurance Study.

Major State Holdings

Orthophotos

Dataset name: Ortho Rectified Mississippi Compressed County Mosaics
Data currentness: 2006
Accuracy/Scale: 1:400
Ground sample resolution: 2 feet
Horizontal datum: NAD 83 HARN, UTM
Fee associated? No
Available for redistribution? Yes
Dataset source: http://www.maris.state.ms.us/HTM/DownloadData/20062ftMDEM.html

Dataset contact: MARIS, Steve Walker, 3825 Ridgewood Road, Suite 717, Jackson, MS 39211, Phone: (601) 432-6149 or Email: swalker@ihl.state.ms.us
Note: This data is only to be used where local county data is unavailable.

Transportation (roads, railroads, and airports)

Dataset name: Designated Highways, County Roads – use statewide source
Data currentness: December 2010, March 2012, July 2010
Accuracy/Scale: unknown, 1:100,000
Horizontal datum: NAD 83 Transverse Mercator, UTM (GRS80)
Fee associated? No
Available for redistribution? Yes
Dataset source: http://www.maris.state.ms.us
Dataset contact: MARIS, Steve Walker, 3825 Ridgewood Road, Suite 717, Jackson, MS 39211, Phone: (601) 432-6149 or Email: swalker@ihl.state.ms.us

Hydrography (rivers, streams, lakes, and shorelines)

Dataset name: National Hydrography Dataset (NHD) - High-resolution; Named Streams [2008] – use statewide source
Data currentness: 2013
Accuracy/Scale: 1:24,000/1:12,000
Horizontal datum: NAD 83 Transverse Mercator
Fee associated? No
Available for redistribution? Yes
Are hydrography names parts of the dataset? Yes
Dataset source: http://www.maris.state.ms.us
Dataset contact: MARIS, Steve Walker, 3825 Ridgewood Road, Suite 717, Jackson, MS 39211, Phone: (601) 432-6149 or Email: swalker@ihl.state.ms.us

Political boundaries (county, municipal)

Dataset name: 2010 Incorporated Cities, County Boundaries for Mississippi (2010) – use statewide source
Data currentness: 2009, 2007
Accuracy/Scale: 1:24,000 & 1:100,000
Horizontal datum: NAD 83
Fee associated? No
Available for redistribution? Yes
Dataset source: http://www.maris.state.ms.us
Dataset contact: MARIS, Steve Walker, 3825 Ridgewood Road, Suite 717, Jackson, MS 39211, Phone: (601) 432-6149 or Email: swalker@ihl.state.ms.us

Dataset name: TIGER
Data currentness: 2013
Accuracy/Scale: 1:100,000
Horizontal datum: NAD 83
Fee associated? No
Available for redistribution? Yes
Dataset source: http://www.census.gov/cgi-bin/geo/shapefiles2013/main
Dataset contact: U.S. Census Bureau, 4600 Silver Hill Road, Washington, DC 20233

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

Dataset name: National Park Boundaries – use statewide source
Data currentness: 1997
Accuracy/Scale: 1:24,000 & 1:100,000
Horizontal datum: NAD 1983 Transverse Mercator
Fee associated? No
Available for redistribution? Yes
Dataset source: (U.S.G.S) http://www.maris.state.ms.us
Dataset contact: MARIS, Steve Walker, 3825 Ridgewood Road, Suite 717, Jackson, MS 39211, Phone: (601) 432-6149 or Email: swalker@ihl.state.ms.us

Dataset name: State Park Boundaries – use statewide source
Data currentness: 1997
Accuracy/Scale: 1:24,000
Horizontal datum: NAD 1983 Transverse Mercator
Fee associated? No
Available for redistribution? Yes
Dataset source: MS Department of Wildlife, Fisheries, and Parks, http://www.maris.state.ms.us
Dataset contact: MARIS, Steve Walker, 3825 Ridgewood Road, Suite 717, Jackson, MS 39211, Phone: (601) 432-6149 or Email: swalker@ihl.state.ms.us

Dataset name: Choctaw Indian Boundaries – use statewide source
Data currentness: 1996
Accuracy/Scale: 1:24,000
Horizontal datum: NAD 1983 Transverse Mercator
Fee associated? No
Available for redistribution? Yes
Dataset source: MS Band of Choctaw Indians, http://www.maris.state.ms.us
Dataset contact: MARIS, Steve Walker, 3825 Ridgewood Road, Suite 717, Jackson, MS 39211, Phone: (601) 432-6149 or Email: swalker@ihl.state.ms.us

Dataset name: National Wildlife Refuge – use statewide source
Data currentness: 1997
Accuracy/Scale: 1:100,000
Horizontal datum: NAD 1983 Transverse Mercator
Fee associated? No
Available for redistribution? Yes
Dataset source: MS Department of Wildlife, Fisheries, and Parks, http://www.maris.state.ms.us
Dataset contact: MARIS, Steve Walker, 3825 Ridgewood Road, Suite 717, Jackson, MS 39211, Phone: (601) 432-6149 or Email: swalker@ihl.state.ms.us

Dataset name: National Forest Boundaries – use statewide source
Data currentness: 1993
Accuracy/Scale: 1:24,000
Horizontal datum: NAD 1983 Transverse Mercator
Fee associated? No
Available for redistribution? Yes
Dataset source: U.S. Forest Service, http://www.maris.state.ms.us
Dataset contact: MARIS, Steve Walker, 3825 Ridgewood Road, Suite 717, Jackson, MS 39211,

Phone: (601) 432-6149 or Email: swalker@ihl.state.ms.us
Dataset contact: MARIS, Steve Walker, 3825 Ridgewood Road, Suite 717, Jackson, MS 39211

Terrain (elevation)

Dataset name: Corrected 10 m DEM derived from USGS Topographic Quads 1:24,000 scale
Data currentness: 2007
Accuracy/Scale: 5ft (+/- 3-7m ASPRS)
Vertical datum: NAD 1983 Transverse Mercator
Fee associated? No
Available for redistribution? Yes
Dataset source: http://www.maris.state.ms.us/HTM/DownloadData/DEM.html
Dataset contact: MARIS, Steve Walker, 3825 Ridgewood Road, Suite 717, Jackson, MS 39211
Notes: There are area specific LIDAR data available at
http://www.gis.ms.gov/Portal/detail.aspx?aspect=Elevation&realm=All&dom=

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 Geospatial 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 for accessing the Discovery Data Repository are provided in the National Geospatial 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 Preferred Base Map Sources section of this document for geospatial data that meets FIRM production requirements).

Table 1. Discovery Data Resources

Data	Data Source	Location
Watershed boundaries	National	See National Operating Procedure
Jurisdictional boundaries	State SOP	http://www.maris.state.ms.us
Tribal land boundaries	National	See National Operating Procedure
State lands	State SOP	http://www.maris.state.ms.us
Federal lands	National	See National Operating Procedure

Data	Data Source	Location
Major roads	National; State SOP	See National Operating Procedure http://www.maris.state.ms.us
Streams	State SOP	http://www.maris.state.ms.us
Coastal Barrier Resource Areas	National Only	See National Operating Procedure
Coordinated Needs Management Strategy	National Only	CNMS data is available by request from each of FEMAs Regional Service Centers (RSC). Contact information for each RSC is available at the following website: https://hazards.fema.gov/femaportal/wps/portal/usercare_guidesAndDocs#Contact List
Topographic/ bathymetric data	National; State SOP	See National Operating Procedure http://www.maris.state.ms.us/HTM/DownloadData/DEM.html
AAL data from HAZUS	National; FEMA Regional Office	See National Operating Procedure R4 Contact: samuel.wilkins@fema.dhs.gov
Coverage areas for known community and Tribal risk assessment data	FEMA Regional Office	darlene.booker@fema.dhs.gov (Tribal)
Status of Hazard Mitigation Plans	FEMA Regional Office	carl.mickalonis@fema.dhs.gov
Flood control structure data	National; FEMA Regional Office	See National Operating Procedure RSC4 contact for MLI Data – nicole.ryerson@aecom.com
Locations of stream gages	National – USGS	See National Operating Procedure
Locations of past flood claims and repetitive loss properties	National	See National Operating Procedure
Locations of clusters of Letters of Map Change	National – FEMA	See National Operating Procedure
Known flooding issues not represented on effective FIRMs or listed in Coordinated Needs Management Strategy database	Local	No statewide coverage
Areas of planned development	Local	No statewide coverage
Areas of land use change datasets	National – USGS	The USGS Land Cover Institute (LCI) provides access to a wide variety of land use change and land cover data sets including the National Land Cover Dataset (NLCD). Data sets can be downloaded from the USGS at http://landcover.usgs.gov/

Data	Data Source	Location
Locations of ongoing projects or updated stream studies (e.g. highway improvements)	Local	No statewide coverage
Locations of wave and tide gauges	National – NOAA	See National Operating Procedure
Locations of wind gauges	National – NOAA	See National Operating Procedure
Proposed inland limit of the Primary Frontal Dune, if present	For ongoing studies contact the CTP; For completed studies contact the FEMA Map Library	Ongoing: Steve Champlin – stephen_champlin@deq.state.ms.us Completed: http://msc.fema.gov/
Locations of any beach nourishment or dune restoration projects	Local	No statewide coverage
Comparison of preliminary stillwater elevations with effective stillwater elevations	Local	No statewide coverage
Available effective study data	National	See National Operating Procedure
Orthophotography	State SOP	http://www.maris.state.ms.us/HTM/DownloadData/20062ftMDEM.html
Proposed discussion areas, problem areas, areas of proposed mitigation projects	Local	No statewide coverage
Land use and soil information	National – NRCS	The USDA Natural Resources Conservation Service (NRCS) maintains national soil data in a GIS format. Data can be downloaded from their Data Mart at this address http://websoilsurvey.sc.egov.usda.gov/App/HomePage.htm or from the NRCS Data Gateway listed in the Other Resources section of this document.
Reference points to locate areas with flooding issues	Local	No statewide coverage
Hydraulic structures	National	See National Operating Procedure
Coastal structures, including flood protection structures, shoreline structures, manmade embankments, surge conveyance pathways, and shoreline change data	For ongoing studies contact the CTP; For completed studies contact the FEMA Map Library	Ongoing: Steve Champlin – stephen_champlin@deq.state.ms.us Completed: http://msc.fema.gov/

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Data	Data Source	Location
Local structure and topographic data from the existing hazard mitigation plans	State Hazard Mitigation Officer (SHMO) Local Community Mitigation Planning Lead	Jana Henderson jhenderson@mema.ms.gov Billy Patrick bpatrick@mema.ms.gov
Historic inundation areas and high water marks	FEMA Regional Office	lynne.keating@fema.dhs.gov
Clusters or locations of Individual Assistance/Public Assistance grants and locations of grant projects completed, planned, or underway	National; FEMA Region IV	See National Operating Procedure R4 Contact, Individual Assistance: Tarsha.Monk@fema.dhs.gov R4 Contact, Public Assistance: Saidat.Thomas.fema.dhs.gov
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; FEMA Regional Office	See National Operating Procedure R4 Contact: Catherine.Stickland@fema.dhs.gov
Other information on FEMA grants, as described in G&S Appendix I	National	See National Operating Procedure
Any data deficiencies identified in hazard mitigation plans	FEMA Regional Office	jessica.gibson@fema.dhs.gov
Information from FloodSmart on market penetration	National	See National Operating Procedure
Community Assistance Visits / Community Assistance Contacts	National; FEMA Regional Office	See National Operating Procedure R4 Contact: Dewana.Davis@fema.dhs.gov
Community Rating System class information	National; FEMA Regional Office	See National Operating Procedure R4 Contact: Dewana.Davis@fema.dhs.gov
Information from other Federal agencies	National	See National Operating Procedure
Information from State agencies, non-profit organizations, universities, etc.	Local	No statewide coverage
Current community plans, ordinances, or programs to alleviate flooding or manage stormwater	Local	No statewide coverage

Data	Data Source	Location
Other known hazards with geographical boundaries (e.g. earthquake faults)	Local	No statewide coverage
Information on active disasters	FEMA Regional Office	Risk Analysis Contact: Derek.Fellows@fema.dhs.gov Mariam.Yousuf@fema.dhs.gov FMI Contact: Dewana.Davis@fema.dhs.gov State HMA Contact: Catherine.Stickland@fema.dhs.gov
Campgrounds, recreational areas, emergency access routes, etc.	National	See National Operating Procedure
Any other data that might be appropriate	Local	No statewide coverage

Data Distribution Process for State Data

Online GIS Data Clearinghouse at http://www.maris.state.ms.us and http://www.gis.ms.gov/Portal/

Federal Nationwide Geospatial Data Holdings

Information about nationwide holdings and Federal agencies' programs is available from the Mapping Information Platform website at https://hazards.fema.gov/femaportal/docs/ProgFacts.pdf.

Finding and Accessing Other Existing Geospatial Data

Listed below is 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. Of course, local community data should be sought as a primary source, as it is likely to be the best available.

Clearinghouses and Inventories for the State

- Mississippi Automated Resource Information System (MARIS) Online GIS Data Clearinghouse at http://www.maris.state.ms.us
- The Mississippi Geospatial Clearinghouse http://www.gis.ms.gov/Portal/

3D Elevation Program

The U.S. Geological Survey (USGS) National Geospatial Program is developing the 3D Elevation Program (3DEP) to respond to growing needs for high-quality topographic data and for

a wide range of other three-dimensional (3D) representations of the Nation's natural and constructed features. The primary goal of 3DEP is to systematically collect 3D elevation data in the form of light detection and ranging (lidar) data over the conterminous United States, Hawaii, and the U.S. territories, with data acquired over an 8-year period. Interferometric synthetic aperture radar (IfSAR) data will be acquired for Alaska, where cloud cover and remote locations preclude the use of lidar in much of the State. The 3DEP initiative is based on the results of the National Enhanced Elevation Assessment that documented more than 600 business uses across 34 Federal agencies, all 50 States, selected local government and Tribal offices, and private and nonprofit organizations.

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 Service Center.

Geospatial One-Stop

Geospatial One-Stop, available at http://geo.data.gov/geoportal/, 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-progress, 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 website at https://hazards.fema.gov/contacts/statecontacts/contacts.asp?page=MS.

Involving the State's Geospatial Coordinator in Flood Studies

The State Flood Mapping Coordinator with the Mississippi Department of Environmental Quality is the primary source for data used in FEMA flood mapping projects. For geospatial inquires relating to flood mapping, contact:

Stephen Champlin, RPG
Geospatial Resources Division/Flood Mapping Director
Office of Geology
Mississippi Department of Environmental Quality (MDEQ)
P.O. Box 2279, Jackson, MS 39225-2279
Office: 601-961-5506
Schamplin@mdeq.ms.gov

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 archives and government link portals such as http://www.statelocalgov.net.

Provide Feedback on This Procedure

If you find information in this Procedure or in other FEMA or State resources that are outdated, please contact the geospatial data coordination lead in the RSC. Please provide 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 and redistribute this Procedure.