State Geospatial Data Coordination Procedure

Utah

Table of Contents

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*

State Geospatial Data Coordination Procedure

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:

Mike Garner, Geospatial Data Coordination Lead
Regional Management Center 8
(720) 514-1105
mike.garner@mapmodteam.com

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

Dennis Goreham, State GIS Coordinator
Manager, Automated Geographic Reference Center
(801) 538-3163
dgoreham@utah.gov
Date Procedure discussed: February 27, 2007

Default Flood Hazard Base Map for the State

The default base map for flood hazard maps for the State is a vector base map (road centerlines). County-wide orthophotography may be used depending on the individual county being studied and the availability of a complete and accurate road base.

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.

State Geospatial Data Coordination Procedure

Major State Holdings

Orthophotos

Dataset name: Black and White Digital Orthophoto Quads (DOQ)
Data currentness: Varies: 1993-2004
Accuracy/Scale: 1:12,000 statewide; better for high-resolution coverage in urban areas
Ground sample resolution: 1 meter; finer for high-resolution urban areas
Horizontal datum: NAD83
Fee associated? None
Available for redistribution? Yes
Dataset source: ARGC at http://agrc.utah.gov/
Dataset contact: Cindy Clark, SGID Administrator, Automated Geographic Reference Center, 5130 State Office Building, Salt Lake City, UT 84114; phone: 801-537-9201
Notes: Same as National Dataset available form the USGS.

Dataset name: Natural Color Urban Area Orth-Imagery (UAO)
Data currentness: 2003
Accuracy/Scale: RMSE of 0.84 meters
Ground sample resolution: 1 foot
Horizontal datum: NAD83
Fee associated? None
Available for redistribution? Yes
Dataset source: ARGC at http://agrc.utah.gov/
Dataset contact: Cindy Clark, SGID Administrator, Automated Geographic Reference Center, 5130 State Office Building, Salt Lake City, UT 84114; phone: 801-537-9201
Notes: Wasatch Front Range north of Utah County. New coverage for all of Utah's populated areas should be available mid-summer 2007.

Dataset name: National Agriculture Imagery Program (NAIP) Imagery
Data currentness: 2006
Accuracy/Scale: 1:12,000
Ground sample resolution: 1 meter
Horizontal datum: NAD83
Fee associated? None
Available for redistribution? Yes
Dataset source: ARGC at http://agrc.utah.gov/
Dataset contact: Cindy Clark, SGID Administrator, Automated Geographic Reference Center, 5130 State Office Building, Salt Lake City, UT 84114; phone: 801-537-9201
Notes: NAIP imagery has many uses, and many states participate in NAIP. NAIP is leaf-on imagery and is not cloud-free, and so the ground might be obscured. So, while NAIP (and other such imagery) can be used as a base maps, the imagery must be checked to ensure that it provides a clear view of important features on the ground for areas of significance for flooding (see Appendix C of the Geospatial Data Coordination Implementation Guide for more discussion).

Transportation (roads, railroads, and airports)

Dataset name: Statewide Street
Data currentness: 2007

Accuracy/Scale: 1:24,000
Horizontal datum: NAD83
Fee associated? No
Available for redistribution? Yes
Are road names part of the dataset? Yes
Dataset source: ARGC at http://agrc.utah.gov/
Dataset contact: Cindy Clark, SGID Administrator, Automated Geographic Reference Center, 5130 State Office Building, Salt Lake City, UT 84114; phone: 801-537-9201
Notes:

Hydrography (rivers, streams, lakes, and shorelines)

Dataset name: Stream
Data currentness: 1990
Accuracy/Scale: 1:24,000
Horizontal datum: NAD83
Fee associated? No
Available for redistribution? Yes
Are hydrography names part of the dataset? Yes
Dataset source: ARGC at http://agrc.utah.gov/
Dataset contact: Cindy Clark, SGID Administrator, Automated Geographic Reference Center, 5130 State Office Building, Salt Lake City, UT 84114; phone: 801-537-9201
Notes:

Dataset name: National Hydrography Datasets (NHD)
Data currentness: 1999
Accuracy/Scale: 1:100,000 and 1:24,000
Horizontal datum: NAD83
Fee associated? No
Available for redistribution? Yes
Are hydrography names part of the dataset? Yes
Dataset source: USGS at http://nhd.usgs.gov/
Dataset contact: NHD@usgs.gov
Notes: Same as National Dataset. Currentness varies based on date of USGS topographic map used as source materials.

Political boundaries (county, municipal)

Dataset name: Municipalities
Data currentness: 2002
Accuracy/Scale: 1:24,000
Horizontal datum: NAD83
Fee associated? No
Available for redistribution? Yes
Dataset source: ARGC at http://agrc.utah.gov/
Dataset contact: Cindy Clark, SGID Administrator, Automated Geographic Reference Center, 5130 State Office Building, Salt Lake City, UT 84114; phone: 801-537-9201
Notes:

Dataset name: County Boundaries

Data currentness: 2005
Accuracy/Scale: 1:24,000
Horizontal datum: NAD83
Fee associated? No
Available for redistribution? Yes
Dataset source: ARGC at http://agrc.utah.gov/
Dataset contact: Cindy Clark, SGID Administrator, Automated Geographic Reference Center, 5130 State Office Building, Salt Lake City, UT 84114; phone: 801-537-9201
Notes:

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

Dataset name: Land Ownership
Data currentness: 2006
Accuracy/Scale: 1:24,000
Horizontal datum: NAD83
Fee associated? No
Available for redistribution? Yes
Dataset source: ARGC at http://agrc.utah.gov/
Dataset contact: Cindy Clark, SGID Administrator, Automated Geographic Reference Center, 5130 State Office Building, Salt Lake City, UT 84114; phone: 801-537-9201
Notes:

Dataset name: Federal Surface Management Agency Boundaries
Data currentness: 2004
Accuracy/Scale: 1:100,000 or better
Horizontal datum: NAD83
Fee associated? No
Available for redistribution? Yes
Dataset source: Bureau of Land Management (BLM) and U.S. Forest Service at http://www.geocommunicator.gov/GeoComm/fedland/home/index.html
Dataset contact:
Notes:

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

Dataset name: SectionsPLSS and TownshipsPLSS
Data currentness: 1993
Accuracy/Scale: 1:24,000
Horizontal datum: NAD83
Fee associated? No
Available for redistribution? Yes
Dataset source: ARGC at http://agrc.utah.gov/
Dataset contact: Cindy Clark, SGID Administrator, Automated Geographic Reference Center, 5130 State Office Building, Salt Lake City, UT 84114; phone: 801-537-9201
Notes:

Cadastral (parcels)

Dataset name: County Parcels
Data currentness: 2005

Accuracy/Scale: 1:24,000
Horizontal datum: NAD83
Fee associated? No
Available for redistribution? Yes
Dataset source: ARGC at http://agrc.utah.gov/
Dataset contact: Cindy Clark, SGID Administrator, Automated Geographic Reference Center, 5130 State Office Building, Salt Lake City, UT 84114; phone: 801-537-9201
Notes: only available for Cache, Salt Lake, Washington, and Weber Counties. Individual counties may have accurate up to date property ownership file. Contact local GIS department.

Extraterritorial jurisdiction (ETJ) boundaries

No coverage available.
Notes: Individual counties may have accurate up to date ETJ file, if applicable. Contact local GIS department.

Terrain (elevation)

Dataset name: Digital Elevation Model (DEM)
Data currentness: 2000-2006
Accuracy/Scale: 2.44 meter(vertical)
Vertical datum: NAVD88
Fee associated? No
Available for redistribution? Yes
Dataset source: ARGC at http://agrc.utah.gov/
Dataset contact: Cindy Clark, SGID Administrator, Automated Geographic Reference Center, 5130 State Office Building, Salt Lake City, UT 84114; phone: 801-537-9201
Notes: Same as National Data available from the National Elevation Dataset.

Dataset name: Tagged Vector Contour (TVC)
Data currentness: 1992-2006
Accuracy/Scale: 1:24,000-scale
Vertical datum: NAVD88
Fee associated? No
Available for redistribution? Yes
Dataset source: ARGC at http://agrc.utah.gov/
Dataset contact: Cindy Clark, SGID Administrator, Automated Geographic Reference Center, 5130 State Office Building, Salt Lake City, UT 84114; phone: 801-537-9201
Notes: Contours digitized from USGS topographic maps

Data Distribution Process for State Data

Utah's process for centralized distribution of GIS data is the Automated Geographic Reference Center. The AGRC is a national clearinghouse for GIS data. There are no licensing policies and data can be directly downloaded free of change without restrictions at the AGRC website at http://agrc.utah.gov.

State Geospatial Data Coordination Procedure

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

Utah maintains a Statewide Geographic Information Database (SGID) on its AGRC website (http://agrc.utah.gov/). The SGID is a comprehensive database containing non-sensitive spatial data and its associated metadata for all counties and cities within the state. The database contains a complete index of the datasets which are available in both ESRI personal geodatabase and ESRI Shapefile formats. In addition, aerial imagery, topographic maps, and elevation datasets are available through the SGID. Some areas may not have complete coverage for all datasets or may still be in progress. All data obtainable through the SGID is free of charge with no access or redistribution restrictions.

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.

State Geospatial Data Coordination Procedure

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=UT>

Involving the State's Geospatial Coordinator in Flood Studies

In order to participate in the FEMA flood hazard mapping effort, the Utah AGRC prefers to be contacted in all of the following ways:

    a. Meeting at the start of each year for the state
    b. Send project list at the start of each year
    c. Conference call at the start of data discovery for each individual project
    d. Jeannie Watanabe, or a representative of AGRC, would like to attend each kickoff/scooping meeting
    e. Send information once project scope is finalized
    f. Should be involved in determining data and other project activities for each county. Should receive all final data for the state database at the end of each county project.

This state already has a working relationship with the office in the state that is responsible for updating the multi-hazard maps, and they have access to their state's flood map modernization business plan.

State Coordination Process for Building Geospatial Partnerships

Utah has a State Geographic Information Advisory Committee that helps build and maintain partnerships between the state and local agencies. The role of this committee is to track and prioritize data enhancement projects within the state. In addition, Utah has a Memorandum of Understanding between the state and fourteen federal agencies for the purpose of sharing and exchanging non-sensitive digital spatial information in the State of Utah. These partnerships are beneficial in decreasing the development of duplicate information and standardizing spatial data through communication among agencies in the State of Utah. See http://agrc.utah.gov/agrc_giscoordination/coordinationintro.html.

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 list of primary GIS contacts for state and federal agencies, county and tribal governments, universities and some cities within the State of Utah. This list is in a hardcopy format available through the Utah Automated Geographic Refernce Center (AGRC) office. Eventually the goal is to have this information available online at http://agrc.utah.gov/ .

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.