

State Geospatial Data Coordination Procedure

Rhode Island

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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 in studies is in the *Geospatial Data Coordination Implementation Guide*, which is available at https://hazards.fema.gov/femaportal/docs/GeoDataImplem_V3.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 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 Region 1 Service Center:

Diana Rodriguez
Compass Regional Service Center 1
(312) 780-7710
diana.maties@starr-team.com

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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).

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.

Datasets for DFIRM Production

Orthophotos

Dataset name: April 2014 Rhode Island Statewide High Resolution Orthoimages

Data currentness: Publication date: March 2015

Accuracy/Scale: The design accuracy is estimated not to exceed 1.52-meters [4.99 feet] NSSDA 95% confidence (0.88-meters [2.89 feet] Root Mean Squared (RMSE) Error XY (0.62 meter [2.03 feet] RMSE X or Y).

Ground sample resolution: 4-band, 0.3 m pixel resolution

Horizontal datum: NAD 83

Fee associated? No fee for downloading directly from the RIGIS Data Distribution System located at <http://www.edc.uri.edu/rigis>.

Available for redistribution? Restrictions include prohibiting the secondary distribution of RIGIS data without prior written approval. The RIGIS license is also available as a .RTF document in the documents file folder.

Dataset source: Rhode Island Geographic Information System (RIGIS), University of Rhode Island - Environmental Data Center

Dataset contact: Erica Tefft erica@edc.uri.edu

Notes: These data consist of 0.3-meter pixel resolution (approximately 1-foot), 4-band (R,G,B,IR) orthoimages covering the State of Rhode Island collected April 9-10 and 17, 2014. An orthoimage is remotely sensed image data in which displacement of features in the image caused by terrain relief and sensor orientation have been mathematically removed. Orthoimagery combines the image characteristics of a photograph with the geometric qualities of a map. Each orthoimage provides imagery over a 5000-foot by 5000-foot block on the ground. There is no image overlap between adjacent files. The projected coordinate system is Rhode Island State Plane with a NAD83 datum.

Dataset name: July 2014 USDA NAIP Statewide Orthophotography

Data currentness: Publication date: October 2014

Accuracy/Scale: +/- 6 meters

Ground sample resolution: 4-band color (RGBIR), 1 meter spatial resolution

Horizontal datum: NAD 83

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Fee associated? No fee for downloading directly from the RIGIS Data Distribution System located at <http://www.edc.uri.edu/rigis>.

Available for redistribution? Restrictions include prohibiting the secondary distribution of RIGIS data without prior written approval. The RIGIS license is also available as a .RTF document in the documents file folder.

Dataset source: Rhode Island Geographic Information System (RIGIS), University of Rhode Island - Environmental Data Center

Dataset contact: Erica Tefft erica@edc.uri.edu

Notes: Rhode Island statewide orthophotographs collected in July 12 & 18, 2014, by the National Agriculture Imagery Program (NAIP). The 1 meter and 1/2 meter NAIP imagery is generally acquired in projects covering full states in cooperation with state government and other federal agencies that use the imagery for a variety of purposes including land use planning and natural resource assessment.

Transportation (roads, railroads, and airports)

Dataset name: RI E-911 Road Centerlines - e911Roads15r2; Roads – RIDOT - RIDOTrds10

Data currentness: Publication dates: July 2015

Accuracy/Scale: 1:5,000, plus or minus 3 to 5 meters

Horizontal datum: NAD 83

Fee associated? No

Available for redistribution? Yes. The RIGIS license is also available as a .RTF document in the documents file folder.

Are road names part of the dataset? Yes

Dataset source: RI Department of Transportation, MIS-GIS section

Dataset contact: Kevin Baillargeon; KevinBaillargeon@AKAssociates911.com and Stephen Kut, Database Administrator, RI Department of Transportation; skut@dot.state.ri.us

Notes: RI E-911- These data were originally developed and designed for Rhode Island Enhanced 9-1-1 purposes only. These data contain street center lines and address ranges for all highways, roads, and streets for the entire state of Rhode Island. AK Associates conflated this data from the existing road data developed by MicroDATA GIS, RI DOT, 2008 Pictometry and data provided by Municipal Agencies for Rhode Island Enhanced 9-1-1 (RI E-911). RIDOT - This dataset contains street center lines for all Transportation highways, roads, and streets for the entire state of Rhode Island. Includes road names conflated road names from the current RIGIS "Roads-E911" dataset.

Dataset name: Railroad Right of Way ; rail10

Data currentness: Publication date: March 2010

Accuracy/Scale: 1:5,000

Horizontal datum: NAD 83

Fee associated? No

Available for redistribution? Yes. The RIGIS license is also available as a .RTF document in the documents file folder.

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Are railroad names part of the dataset? Yes

Dataset source: RI Department of Transportation, MIS-GIS section

Dataset contact: Stephen Kut, Database Administrator, RI Department of Transportation;
skut@dot.state.ri.us

Notes:

Dataset name: Airports ; airports13

Data currentness: Publication date: October 2013

Accuracy/Scale: RIDOT staff verified line, polygon, and attribute accuracy. Corrections were made by RIDOT staff. All line work was checked by RIDOT staff using orthophotos. Linear and attribute input finalized by RIDOT staff. 1:5,000

Horizontal datum: NAD 83

Fee associated? No

Available for redistribution? Yes. The RIGIS license is also available as a .RTF document in the documents file folder.

Are airport names part of the dataset? Yes

Dataset source: RI Department of Transportation, MIS-GIS section

Dataset contact: Mary Hutchinson, Manager, Mapping and Planning Services;
mhutch@mappingplanning.com

Notes: This data set depicting approximate extent and major features of all airports in the state of Rhode Island. This data set was created for the Rhode Island Department of Transportation to show and reference all airports in the state of Rhode Island.

Hydrography (rivers, streams, lakes, and shorelines)

Dataset name: Freshwater Rivers and Streams, Streams; streams5k

Data currentness: Publication date: June 2001

Accuracy/Scale: 1:5,000

Horizontal datum: NAD 83

Fee associated? No

Available for redistribution? Yes. The RIGIS license is also available as a .RTF document in the documents file folder.

Are hydrography names part of the dataset? No

Dataset source: RIGIS

Dataset contact: RIGIS Coordinator , rigis@admin.ri.gov

Notes: Rivers and streams in Rhode Island derived from the 1997 National Grid_USA/RIDOT Orthophoto Project.

Dataset name: Lakes and Ponds (1:5000); lakes5k10

Data currentness: Publication date: October 2010

Accuracy/Scale: 1:5,000

Horizontal datum: NAD 83

Fee associated? No

Available for redistribution? Yes. The RIGIS license is also available as a .RTF document in the documents file folder.

Are hydrography names part of the dataset? No

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Dataset source: RIGIS

Dataset contact: RIGIS Coordinator , rigis@admin.ri.gov

Notes: Lakes and ponds in Rhode Island as identified and delineated from 1997 1:5000 orthophotography with feature attribute names for major water bodies. Features consistent with RIGIS 1:5000 scale orthophotography base with a nominal accuracy of 10 to 15 feet.

Dataset name: Coastline

Data currentness: Publication date: Sept. 1993

Accuracy/Scale: RIGIS standards 99 percent; horizontal acc. +/- 50 feet

Horizontal Datum: NAD 83

Fee associated? No

Available for redistribution? Yes. The RIGIS license is also available as a .RTF document in the documents file folder.

Are hydrography names part of the dataset? No

Dataset source: RIGIS

Dataset contact: RIGIS Coordinator, rigis@admin.ri.gov

Notes: This dataset shows the Coastline of RI and nearby CT and MA including Narragansett Bay its tributaries along with near shore and offshore islands.

Political boundaries (county, municipal)

Dataset name: Municipal Boundaries (1997); muni97

Data currentness: Publication date: Aug. 2001

Accuracy/Scale: 1:5,000

Horizontal datum: NAD 83

Fee associated? No

Available for redistribution? Yes. The RIGIS license is also available as a .RTF document in the documents file folder.

Dataset source: RIGIS

Dataset contact: Steve Kut, skut@dot.state.ri.us.

Notes: Political boundary lines for Rhode Island municipalities with city and town feature attributes and name annotation including physical shoreline features for bay and coastal waters including islands and coastal ponds. Terrestrial boundaries from USGS topographic quad 1:24000 scale maps. Bay and coastal boundaries manually digitized from 1997 aerial photography. City and town municipal boundaries defined by established roadways delineated by road centerline vector data created by manually digitizing from 1:5000 aerial photography obtained in 1997.

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

Dataset name: State Conservation Lands; StaCons14

Data currentness: Publication date: Dec 2014

Accuracy/Scale: 1:24,000

Horizontal datum: NAD 83

Fee associated? No

Available for redistribution? Yes. The RIGIS license is also available as a .RTF document for disclaimer that must appear on all map products with this dataset.

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Dataset source: RIGIS

Dataset contact: Paul Jordan, pjordan@dem.state.ri.us

Notes: Approximate edges of Conservation Lands protected by the State of Rhode Island through Fee Title Ownership, Conservation Easement, or Deed Restriction. Includes: Wildlife Management Areas, Drinking Water Supply Watersheds, State Parks, Beaches, Bike Paths, Fishing Access Areas, Local Parks and Recreation Facilities that have been developed with State Grant Funds.

Terrain (elevation)

Dataset name: Digital Terrain Model of Rhode Island; 5KDTM_TIN

Data currentness: Publication date: June 2001

Accuracy/Scale: 1:5,000 - 3 Meter Contour Lines

Vertical datum: NAVD88

Fee associated? No

Available for redistribution? Yes. The RIGIS license is also available as a .RTF document in the documents file folder.

Dataset source: RIGIS

Dataset contact: RIGIS Coordinator , rigis@admin.ri.gov

Notes:

Dataset name: LIDAR: USGS 2011

Data currentness: Publication date: March 2012

Vertical datum: NAVD88 (GEOID09) meters

Horizontal coordinate system: NAD83 UTM Zone 19 North, meters

Fee associated? No

Available for redistribution? Yes. The RIGIS license is also available as a .RTF document in the documents file folder.

Dataset source: RIGIS

Dataset contact: RIGIS Coordinator , rigis@admin.ri.gov

Notes: Preliminary sample datasets for Rhode Island from the USGS-managed Northeast LiDAR Project. Data is available on a provisional basis. Due to tremendous interest, these data are being distributed by RIGIS on a provisional basis for the sake of expediency.

These have not been verified by RIGIS, and are shared in their original formats as delivered by the vendor. Partially-classified point cloud data and bare earth digital elevation model data are available at this time. Raw point cloud data will be distributed via RIGIS at a later date.

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

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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 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 | Discovery Data Repository |
| Jurisdictional boundaries | National | Discovery Data Repository |
| | State | RIGIS State, Coastline, Town Boundaries: http://www.edc.uri.edu/rigis/data/data.aspx?ISO=boundaries |
| Tribal land boundaries | National | Discovery Data Repository |
| State lands | State | RIGIS Conservation Lands (State, Municipal, and NGO): http://www.edc.uri.edu/rigis/data/data.aspx?ISO=planningCadastre |
| Federal lands | National | Discovery Data Repository |
| Major roads | State | RIGIS transportation layers: http://www.edc.uri.edu/rigis/data/data.aspx?ISO=transportation |
| | National | Discovery Data Repository |
| Streams | State | RIGIS hydrolines, lakes, ponds, reservoirs: http://www.edc.uri.edu/rigis/data/data.aspx?ISO=inlandWaters |
| | National | Discovery Data Repository |
| Coastal Barrier Resource Areas | National | Discovery Data Repository |
| Coordinated Needs Management Strategy | National | See National Operating Procedure |
| Topographic/ bathymetric data | National | See National Operating Procedure |

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| Data | Data Source | Location |
|--|-------------|--|
| AAL data from HAZUS | National | Please contact the RSC if you have problems retrieving the data. |
| Coverage areas for known community and Tribal risk assessment data | Regional | Risk class deciles by Census Block Group Discovery Data Repository |
| Status of Hazard Mitigation Plans | Regional | AMPS - Region 1 Mitigation Plan Tracking: https://riskmapportal.msc.fema.gov/FEMA_REGIONS/REGIONI/AMPS/default.aspx Contact RSC1 for further information |
| | National | Discovery Data Repository |
| Flood control structure data | National | See National Operating Procedure |
| | State | RIGIS Dams: http://www.edc.uri.edu/rigis/data/data.aspx?ISO=structure |
| Locations of stream gages | National | Discovery Data Repository |
| Locations of past flood claims and repetitive loss properties | CIS Report | Contact the geospatial data coordination lead at your RSC referenced earlier in this document. |
| Locations of clusters of Letters of Map Change | National | See National Operating Procedure |
| Known flooding issues not represented on effective FIRMs or listed in Coordinated Needs Management Strategy database | Local Only | |
| Areas of planned development | Local Only | |
| Areas of land use change datasets | National | See National Operating Procedure |
| | State | RIGIS historic and projected landuse: http://www.edc.uri.edu/rigis/data/data.aspx?ISO=environment |
| Locations of ongoing projects or updated stream studies (e.g. highway improvements) | Regional | USACE, New England District maintains a list of ongoing and recent projects: http://www.nae.usace.army.mil/Missions/ProjectsTopics.aspx http://www.nae.usace.army.mil/Media/StateUpdateReports.aspx |
| Locations of wave and tide gauges | National | See National Operating Procedure |

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| Data | Data Source | Location |
|--|------------------------|---|
| Locations of wind gauges | National | See National Operating Procedure |
| Proposed inland limit of the Primary Frontal Dune, if present | | See Effective or Preliminary DFIRM data. PFD Delineations generally are created during the DFIRM process. |
| Locations of any beach nourishment or dune restoration projects | SLOSH Zones | See National Operating Procedure |
| Comparison of preliminary stillwater elevations with effective stillwater elevations | Local Only | |
| Available effective study data | National | See National Operating Procedure |
| Orthophotography | National | See National Operating Procedure |
| | State | RIGIS has multiple datasets; map services available as well as GDBs: http://www.edc.uri.edu/rigis/data/imageryBaseMapsEarthCover.html |
| Proposed discussion areas, problem areas, areas of proposed mitigation projects | Local Only | |
| Land use and soil information | Land Use | RIGIS historic and projected landuse: http://www.edc.uri.edu/rigis/data/data.aspx?ISO=environment |
| | Soils | See National Operating Procedure |
| Reference points to locate areas with flooding issues | Local Only | |
| Hydraulic structures | | See National Operating Procedure |
| | Levees, Dams, Airports | RIGIS statewide dam data: http://www.edc.uri.edu/rigis/data/data.aspx?ISO=structure |
| Coastal structures, including flood protection structures, shoreline structures, manmade embankments, surge conveyance pathways, and shoreline change data | Regional | The MLI database (See levees and National Operating Procedure, above) may contain coastal levees or structures. FAST Tracker on FEMA SharePoint, please contact RSC1 for further information. |
| | State | RIGIS breakwaters and hardened shorelines: http://www.edc.uri.edu/rigis/data/data.aspx?ISO=structure |

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| Data | Data Source | Location |
|---|------------------------------------|--|
| Local structure and topographic data from the existing hazard mitigation plans | Regional | AMPS - Region 1 Mitigation Plan Tracking: https://riskmapportal.msc.fema.gov/FEMA_REGIONS/REGIONI/AMPS/default.aspx Contact RSC1 for further information |
| Historic inundation areas and high water marks | Historic Riverine Inundation Areas | See National Operating Procedure |
| | Storm Surge Inundation Areas | See National Operating Procedure |
| | High Water Marks | USGS & USACE HWM as of May 2011: Discovery Data Repository |
| Clusters or locations of Individual Assistance/Public Assistance grants and locations of grant projects completed, planned, or underway | National | See National Operating 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 Operating Procedure |
| Other information on FEMA grants, as described in G&S Appendix I | Local only | |
| Any data deficiencies identified in hazard mitigation plans | Regional | AMPS - Region 1 Mitigation Plan Tracking: https://riskmapportal.msc.fema.gov/FEMA_REGIONS/REGIONI/AMPS/default.aspx Contact RSC1 for further information |
| Information from FloodSmart on market penetration | FEMA | http://www.floodsmart.gov/floodsmart/ |
| Community Assistance Visits / Community Assistance Contacts | National | Discovery Data Repository |
| Community Rating System class information | National | See National Operating Procedure |
| Information from other Federal agencies | National Only | See National Operating Procedure |
| Information from State agencies, non-profit organizations, universities, etc. | Regional | |

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| Data | Data Source | Location |
|---|---|--|
| Current community plans, ordinances, or programs to alleviate flooding or manage stormwater | Local only | |
| Other known hazards with geographical boundaries (e.g. earthquake faults) | Tsunami Landslide Volcanic Eruptions Wildfire Hurricane | Discovery Data Repository Discovery Data Repository Discovery Data Repository Discovery Data Repository RIGIS Hurricane Surge (Worst Case): http://www.edc.uri.edu/rigis/data/data.aspx?ISO=planningCadastre |
| Information on active disasters | Regional State | USGS Hurricane Irene information: http://coastal.er.usgs.gov/hurricanes/irene/ Rhode Island Emergency Management Agency: http://www.riema.ri.gov/ |
| Campgrounds, recreational areas, emergency access routes, etc. | National State | Discovery Data Repository RIGIS Conservation and Recreational Open Space 1990 (contains campsites, recreation, etc.) http://www.edc.uri.edu/rigis/data/data.aspx?ISO=planningCadastre |
| Wellhead protection areas and reservoirs | State | http://www.edc.uri.edu/rigis/data/data.aspx?ISO=inlandWaters |

Data Distribution Process for State Data

Downloadable data can be found at the [Rhode Island Geographic Information System website](#).

Rhode Island requires a licensing agreement to distribute their data. The RSC has been designated as the distributor of the orthophotography data, which is only to be used for updating FEMA maps. Raster and vector data can be downloaded from the RIGIS website.

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>.

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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

The Environmental Data Center within the Department of Natural Resource Sciences at the University provides on line access (web-browser only) to most RIGIS data via the [RIGIS website](#).

Data can also be provided on optical media by request from the RIGIS coordinator at the RI Department of Administration's Division of Information Technology at rigis@admin.ri.gov.

CDROM products \$50/CD; Ordering Instructions: CDROM from RIGIS Coordinator at Statewide Planning: rigis@admin.ri.gov.

FTP download from www.edc.uri.edu.

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://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-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=RI>.

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Of special interest are:

Rhode Island Geographic Information System (RIGIS) - The Rhode Island Geographic Information System (RIGIS; <http://www.edc.uri.edu/RIGIS/>) is a consortium of government and private organizations employing computer and communications technology to manage and use a collective database of comprehensive geographically related information. Its mission is to monitor, coordinate, and provide leadership for activities related to the use of GIS technology within Rhode Island, to support initiatives to implement or use the technology, and to manage and provide access to a common database of geographically referenced information.

USGS New England Mapping Partnership Office

(http://www.usgs.gov/contact_us/?state=RI) – The USGS partnership program is the geospatial liaison between the USGS and the New England States. The office is responsible for Rhode Island and other New England states.

Involving State's Geospatial Coordinator in Flood Studies

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

- RIGIS prefers to be contacted annually by the RSC, and periodically informed of what counties are being worked on.
- Rhode Island has a working relationship with the RIEMA and they have access to their state's flood map modernization business plan.

State Coordination Process for Building Geospatial Partnerships

RIGIS Executive Committee

The Rhode Island Geographic Information System (RIGIS) Executive Committee provides policy guidance, oversight, and coordination of the collective efforts of organizations in Rhode Island using GIS technology. It seeks to coordinate data development, adopt technical standards, set distribution policy for GIS products, promote the use of GIS, and provide information and assistance to users. The Committee does not have authority over RIGIS participants but reaches decisions by consensus. Quarterly meetings are held. See the [Rhode Island Statewide Planning Program](#).

The RIGIS Coordinator at the Rhode Island Department of Administration/Division of Information Technology provides staff support and acts as liaison for RIGIS within the state, the Northeast region, and nationally. Member organizations also contribute assistance. The Committee is not funded as a separate unit of state government.

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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>.

- Washington County Regional Planning Council, <http://www.wcrpc.org/>, 401-792-9900
- Aquidneck Island Planning Commission, <http://www.aquidneckplanning.org/>, 401-845-9299

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 Service 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.