

# U.S. Territory Geospatial Data Coordination Procedure

Commonwealth of Northern Mariana Islands  
(CNMI)

FINAL

October 2017



**FEMA**

# U.S. Territory Geospatial Data Coordination Procedure

## Commonwealth of Northern Mariana Islands (CNMI)

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# U.S. Territory 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 Implementation Guide*, which is available at [https://hazards.fema.gov/femaportal/docs/GeoDataImplem\\_V3.pdf](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 flood insurance studies, information for the project Discovery stage, and other useful information for the Territory.

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):

Kevin Gabelman, Geospatial Data Coordination Lead  
Regional Service Center IX  
(415) 671-7188  
[Kevin.Gabelman@atkinglobal.com](mailto:Kevin.Gabelman@atkinglobal.com)

## Default Flood Hazard Base Map for the Territory

This section will be completed by the GDC team in a future version of this document.

## 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.

### Major Territory Holdings

#### *Orthophotos*

Dataset name:  
Data currentness:  
Accuracy/Scale:

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Horizontal datum:  
Fee associated?  
Available for redistribution?  
Dataset source:  
Dataset contact:

This section will be completed by the GDC team in a future version of this document.

### *Transportation (roads, railroads, and airports)*

Dataset name:  
Data currentness:  
Accuracy/Scale:  
Horizontal datum:  
Fee associated?  
Available for redistribution?  
Dataset source:  
Dataset contact:

This section will be completed by the GDC team in a future version of this document.

### *Hydrography (rivers, streams, lakes, and shorelines)*

Dataset name:  
Data currentness:  
Accuracy/Scale:  
Horizontal datum:  
Fee associated?  
Available for redistribution?  
Dataset source:  
Dataset contact:

This section will be completed by the GDC team in a future version of this document.

### *Political boundaries (county, municipal)*

Dataset name:  
Data currentness:  
Accuracy/Scale:  
Horizontal datum:  
Fee associated?  
Available for redistribution?  
Dataset source:  
Dataset contact:

This section will be completed by the GDC team in a future version of this document.

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

Dataset name:  
Data currentness:  
Accuracy/Scale:

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Horizontal datum:  
Fee associated?  
Available for redistribution?  
Dataset source:  
Dataset contact:

This section will be completed by the GDC team in a future version of this document.

## *Cadastral (parcels)*

Dataset name:  
Data currentness:  
Accuracy/Scale:  
Horizontal datum:  
Fee associated?  
Available for redistribution?  
Dataset source:  
Dataset contact:

This section will be completed by the GDC team in a future version of this document.

## *Terrain (elevation)*

Dataset name:  
Data currentness:  
Accuracy/Scale:  
Horizontal datum:  
Fee associated?  
Available for redistribution?  
Dataset source:  
Dataset contact:

This section will be completed by the GDC team in a future version of this document.

## Data Distribution Process for Territory Data

This section will be completed by the GDC team in a future version of this document.

## 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 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

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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 Major State Holdings section of this document for geospatial data that meets FIRM production requirements).

**Table 1. Discovery Data Resources**

Data	Agency	Location
Watershed boundaries	National	See National Operating Procedure
Jurisdictional boundaries	ESRI	Political boundaries data for CNMI are available through The Digital Chart of the World (DCW), an ESRI product originally developed for the US Defense Mapping Agency (DMA) using DMA data. Information can be found at: <a href="http://data.geocomm.com/catalog/NM/group109.html">http://data.geocomm.com/catalog/NM/group109.html</a>
Tribal land boundaries	National	See National Operating Procedure
State lands	ESRI	Land ownership data for CNMI are available through The Digital Chart of the World (DCW), an ESRI product originally developed for the US Defense Mapping Agency (DMA) using DMA data. Information can be found at: <a href="http://data.geocomm.com/catalog/NM/group109.html">http://data.geocomm.com/catalog/NM/group109.html</a>
Federal lands	ESRI	Land ownership data for CNMI are available through The Digital Chart of the World (DCW), an ESRI product originally developed for the US Defense Mapping Agency (DMA) using DMA data. Information can be found at: <a href="http://data.geocomm.com/catalog/NM/group109.html">http://data.geocomm.com/catalog/NM/group109.html</a>
Major roads	US Census Bureau	US Census Bureau has Tiger/Line file from 2002 for CNMI available for download at: <a href="http://data.geocomm.com/catalog/NM/71739/group144.html">http://data.geocomm.com/catalog/NM/71739/group144.html</a>

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Data	Agency	Location
Streams	ESRI	Hydrography data for CNMI are available through the Digital Chart of the World (DCW), an ESRI product originally developed for the US Defense Mapping Agency (DMA) using DMA data. Information can be found at: <a href="http://data.geocomm.com/catalog/NM/group105.html">http://data.geocomm.com/catalog/NM/group105.html</a>
Coastal Barrier Resource Areas	National	See National Operating Procedure
Coordinated Needs Management Strategy	National	CNMS data is available by request from each of FEMA's Regional Service Centers (RSC). Contact information for each RSC is available at the following website: <a href="https://hazards.fema.gov/femaportal/docs/RSC%20Contact%20Information.pdf">https://hazards.fema.gov/femaportal/docs/RSC%20Contact%20Information.pdf</a>
Topographic/bathymetric data	FEAMA Regional Office	FEMA Region IX Geo-index RSC 9 Geospatial Data Coordination Lead
AAL data from HAZUS	National	See National Operating Procedure
Coverage areas for known community and Tribal risk assessment data	N/A	No known data exists for CNMI
Status of Hazard Mitigation Plans	Emergency Management Office of CNMI	EMO of CNMI maintains hazard mitigation plan for the commonwealth. POC is Mr. Patrick Tenorio Emergency Management Office P.O. Box 825 Saipan, MP 96950 Phone: (670) 322-9528 Fax: (670) 322-7743
Flood control data	National	See National Operating Procedure
Locations of stream gages	National – USGS	See National Operating Procedure
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 beyond effective FIRMs and the Coordinated Needs Management Strategy database	FEMA Regional Office	Region IX keeps track of known flooding issues beyond FIRMs and CNMS through a "flood issue ad hoc requests" list maintained by the RSC9 Geospatial Data Coordination Lead
Areas of planned development, high growth, or other natural land changes	N/A	No known data exists for CNMI

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Data	Agency	Location
Areas of land use change datasets	Multiple	NOAA and other agencies created land cover change data derived from high resolution imagery and was analyzed according to the Coastal Change Analysis Program (C-CAP) protocol to determine land cover. This data set utilized 1 full Quickbird multispectral scene upto 4 additional scenes were used to replace cloud obscured areas within the base imagery both scenes were processed to detect C-CAP land cover features on Tinian, CNMI. Information can be found at: <a href="http://www.geodata.gov/E-FW/DiscoveryServlet?uuid={DFD5CD4C-151D-81D0-15A7-AD44A545201C}&amp;xmltransform=metadata_details.xsl">http://www.geodata.gov/E-FW/DiscoveryServlet?uuid={DFD5CD4C-151D-81D0-15A7-AD44A545201C}&amp;xmltransform=metadata_details.xsl</a>
Locations of ongoing or updated stream studies	FEMA Regional Office	RSC9 Geospatial Data Coordination Lead
Locations of wave and tide gauges	National – NOAA	See National Operating Procedure
Locations of wind gauges	National – NOAA	See National Operating Procedure
Primary frontal dune	N/A	No known data exists for CNMI
Beach nourishment or dune restoration projects	N/A	No known data exists for CNMI
Comparison of stillwater elevations	N/A	No known data exists for CNMI
Available effective study data	National	See National Operating Procedure
Orthophotography	Local	RSC9 Geospatial Data Coordination Lead maintains NDOP records of orthophotography for CNMI
Proposed discussion areas, problem areas, areas of proposed mitigation projects	Local	RSC9 Geospatial Data Coordination Lead maintains records of problem areas based on Region's communications with local communities and logs them as CNMS "ad hoc" requests
Land use and soil information	National Cooperative Soil Survey (NCSS)	SSURGO soil data for CNMI available for download at: <a href="http://data.geocomm.com/catalog/NM/group201.html">http://data.geocomm.com/catalog/NM/group201.html</a>
Reference points to locate areas with flooding issues	Local	RSC9 Geospatial Data Coordination Lead maintains records of known flooding issues on Region's communications with local communities and logs them as CNMS "ad hoc" requests
Hydraulic structures: bridges	National	See National Operating Procedure or links to National Inventory of Bridges

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Data	Agency	Location
Hydraulic structures: culverts	N/A	No known data exists for CNMI
Hydraulic structures: dams	National	See National Operating Procedure or links to National Inventory of Dams
Coastal structures , shoreline structures, manmade embankments, surge conveyance pathways, and shoreline change data	N/A	No known data exists for CNMI
Local structure and topographic data from the existing hazard mitigation plans	N/A	No known data exists for CNMI
Historic inundation areas and High Water Marks	N/A	No known data exists for CNMI
Clusters or locations of Individual Assistance/Public Assistance grants and locations of grant projects completed, planned, or underway	N/A	No known data exists for CNMI
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	N/A	No known data exists for CNMI
Other information on FEMA grants, as described in G&S Appendix I	N/A	No known data exists for CNMI
Data deficiencies identified in hazard mitigation plans	N/A	No known data exists for CNMI
Information from FloodSmart on market penetration	N/A	No known data exists for CNMI
Community Assistance Visits / Community Assistance Contacts	National	See National Operating Procedure
Community Rating	National	See National Operating Procedure

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Data	Agency	Location
System class information		
Information from other Federal agencies	National	See National Operating Procedure
Information from State agencies	N/A	No known data exists for CNMI
Current community plans, ordinances, or programs to alleviate flooding or manage stormwater	N/A	No known data exists for CNMI
Other known hazards	N/A	No known data exists for CNMI
Information on active disasters	N/A	No known data exists for CNMI
Campgrounds, recreational areas, emergency access routes, etc.	N/A	No known data exists for CNMI

### 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 Territory. 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 Territory

This section will be completed by the GDC team in a future version of this document.

#### 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.”

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## 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.

## 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.

This section will be completed by the GDC team in a future version of this document.

## Working with People

### Useful Territory and Federal Contacts

This section will be completed by the GDC team in a future version of this document.

### Involving the Territory’s Geospatial Coordinator in Flood Studies

This section will be completed by the GDC team in a future version of this document.

### Territory Coordination Process for Building Geospatial Partnerships

This section will be completed by the GDC team in a future version of this document.

### Finding Local Geospatial Contacts

This section will be completed by the GDC team in a future version of this document.

## Provide Feedback on This Procedure

When you find information in this Procedure or in other FEMA or Territory resources that are outdated, please tell the geospatial data coordination lead in the Regional Support Center what was wrong and the correct information (if you know it). Use the contact information for the lead listed in the section