



FEMA

NDEP Project Tracking System Quick Reference Guide



Welcome to the NDEP Project Tracking System

On this site, you can choose any of three options:

- 1) **Upload Project Information** to load projects by uploading XML files directly to the Project Tracking System
- 2) **Enter Project Information** to enter project information in the Project Tracking System through online forms
- 3) **Search Project Information** to query the Project Tracking System for existing projects

The online forms are used to generate an FGDC-compliant metadata record. A copy will be emailed to you for your use.

For help on how to use the NDEP Project Tracking System, see the quick Reference Guide([Adobe PDF](#)). Adobe PDF documents require the [Adobe Reader](#).

If you experience technical difficulties using the system, please send us an email (MIPHelp@mapmodteam.com). You will receive a response promptly.

If you have questions about the National Digital Elevation Program project coordination activities, please see the [NDEP Project Coordination Subcommittee web page](#).

Most of the metadata terms can be found in this [glossary](#) .

There are several tools and explanations of how metadata is used at the [USGS's geology metadata page](#).

Another good source for researching metadata terminology and definitions is at the [Image Map of the Content Standard for Digital Geospatial Metadata](#).

And, of course, there is the [FGDC website](#).

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What is the NDEP Project Tracking System?

The NDEP Project Tracking System is an application that allows the entry and search of elevation project information for projects available in the NDEP Tracking System Registry. It also allows the search of imagery project information for projects in the NDOP Tracking System Registry and elevation and imagery projects in the Ramona GIS Inventory System. More information on Ramona can be found at http://www.nsgic.org/hottopics/ramona_announcement.pdf.

NDEP Project Tracking System Overview

The NDEP Project Tracking System Quick Reference Guide contains useful information that will help guide you through using the application.

Conventions used in this application are:

- All data entry boxes with a yellow background must be completed.
- All data entry boxes with a white background are optional and do not have to be completed.

Quick Reference Guide

Project Tracking System Help Page



Welcome to the NDEP Project Tracking System

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At the top of this and every page, there are five options on the navigation bar (where 'Help' is highlighted):

- **Search Projects** allows the user to navigate to the search section of the application and to search the data currently in the system.
- **Enter Projects** allows the user to enter project information screens where the data is entered interactively on several different screens.
- **Upload Projects** allows the user to upload the project information from a preformatted XML file. The Sample section contains an example of the file.
- **Export All Projects** allows the user to export all the data currently in the system in a variety of formats.
- **Help** (this page) provides further assistance in using the system.

Upload Project Information

If Upload Project Information is selected, the following screen appears:



The screenshot shows the NDEP Project Tracking System interface. At the top, there is a blue header with the NDEP logo (National Digital Elevation Program) and the FEMA logo. Below the header is a navigation bar with links: Search Projects, Enter Projects, Upload Projects (highlighted), Export All Projects, and Help. The main content area is titled "Upload" and "XML Upload". It contains instructions: "If you have a valid metadata file in XML format, please use this form to upload your file. The Project Tracking System will validate your XML file against the FGDC Content Standard for Digital Geospatial Metadata Version 2 (FGDC-STD-001-1998). Please note that in addition to the requirements of the FGDC standard, the Project Tracking System has its own formatting requirements to allow proper search and retrieval of the metadata document. See the quick Reference Guide (Adobe PDF). Adobe PDF documents require the Adobe Reader." Below the text is a form field labeled "Submit a XML Metadata File :" with a "Browse..." button. At the bottom of the form is an "Upload File" button.

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Use the Browse button to browse for the XML file. Once located, select Upload File.

If the file loads properly, the user will start on page 1 of project information entry, with the form fields populated with the information from the XML file.

If the file does not load, an error page will appear with descriptions of the errors in the XML file. Use a text editor to correct the XML file and try to upload it again. It should be noted that this is not the easy way to load a project into the system, but it can be quicker if the user is knowledgeable about metadata formats. The file will not be loaded until the errors are corrected and the upload steps are performed again.

Note: Shapefiles can be used to define the project location. Shapefiles containing project boundary geometry are uploaded using the "Project location" form of the "Project Information Entry" process.

Enter Project Information

If Enter Project Information is chosen, the following screen will appear:

Enter Project Organization and Contact Information

This page is used to capture the organization and contact information of the project.

The screenshot shows the 'Project Information Entry - Page 1 of 3' form. At the top, there is a header with the NDEP logo (National Digital Elevation Program) and the FEMA logo. Below the header is a navigation bar with links: Search Projects, Enter Projects, Upload Projects, Export All Projects, and Help. The main content area is titled 'Project Information Entry - Page 1 of 3' and contains the following sections:

- Identification Information** (* and yellow denote required fields)
 - Who is the NDEP lead funding Agency or Organization? *
 - Please Select-- Set Template
 - If other, please enter here: [text input]
 - Are there other agencies or organizations funding the data collection? (Hold Control key for multiple entries)
 - Not Specified----- [dropdown menu]
 - for use by FEMA Map Mod
 - NRCS
 - FS
 - USGS
 - If other, please enter here: [text input]
- Who is the point of contact for partnering or information about the project?
 - Who is the contact person? * [text input]
 - Contact Phone: * [text input]
 - Contact E-Mail: * [text input]
- When the data are complete, how can someone obtain a copy?
 - Organization: * [text input]
 - Contact Phone: * [text input]
 - Website for data distribution: * [text input]

At the bottom of the form are three buttons: Next Page, Reset, and Cancel.

The fields can be filled in as follows:

“Who is the NDEP lead funding Agency or Organization?” – Select the lead agency from the list, or key in the agency name if it is not on the list.

“Are there other agencies or organizations funding the data collection?” – Select other funding agencies from the list if desired. Multiple agencies can be selected by holding down the Control key and picking each agency. If an agency is not on the list, the user may key in the name in the box to the right of the list.

“Who is the contact person?” – Enter the name of the contact person for this project

“Contact Phone:” – Enter the phone number of the contact. Please use xxx-xxx-xxxx format.

“Contact E-Mail:” – Enter the email address of the contact person.

“Organization:” – Enter the name of the organization that can supply a copy of the data.

“Contact Phone:” – Enter the phone number of the contact for the data.

“Website for data distribution” – Enter the web address for the data, or enter “None” if a website is not yet determined.

Once all fields are complete, select the “Next” button. This will validate the data. If data meets the criteria, entry form page 2 of 3 will be displayed. If invalid data was entered or a required field was not filled out, the error will be identified to the user and must be corrected. Select the “Next” button when the errors have been corrected.

Enter Project Details

The following screen is used for entry of specific details about the data to be collected for the project.

The screenshot shows the 'Project Information Entry - Page 2 of 3' form. At the top, there is a header with the NDEP logo (National Digital Elevation Program) and the FEMA logo. Below the header is a navigation bar with links: Search Projects, Enter Projects, Upload Projects, Export All Projects, and Help. The main form area is titled 'Project Information' and contains several fields and dropdown menus:

- Project Information**
 - What is the title of your project? * (please include a place name or at least a state abbreviation) [Text input field]
 - In what fiscal year will the data be collected? * [Dropdown menu: Please Select]
 - What will be the estimated starting and ending dates? (yyyyymmdd) [Beginning Date: Text input field, Ending Date: Text input field]
 - What is the status of your project? * [Dropdown menu: Proposed (very early stages, looking for partners)]
 - Abstract:** Provide a brief description of the project, the products planned and the purpose [Text area]
- What Vertical Datum will be used in collecting the data? * [Dropdown menu: Please Select]
- What is the planned NSSDA vertical accuracy of the data (in meters)? * [Text input field] Online length conversion tool OR: To be Determined
- What is the approximate planned posting spacing of the data (in meters)? * [Dropdown menu: Please Select] OR: If other, please enter here: [Text input field]
- What type of elevation data (Data Model) will you produce? * NDEP Elevation Guidelines * (Hold Control key for multiple entries) [Dropdown menu: Not Specified, Regular Grid, Multi-Resolution Grid, Mass Points/Variable Spacing, Mass Points/Break Lines]
- How will the data be collected? * [Dropdown menu: Please Select]
- What will be the surface mapped by the data? * (Hold Control key for multiple entries) [Dropdown menu: Not Specified, Bare Earth Surface, Reflective Surface]
- Use Constraints: Do you anticipate licensing or usage restrictions? * (What can one do with the data after receiving it?) [Dropdown menu: Please Select]

At the bottom of the form are four buttons: Previous Page, Next Page, Reset, and Cancel.

The fields can be filled in as follows:

“What is the title of your project?” – Enter a project name. Please keep this to less than 30 characters

“In what fiscal year will the data be collected?” – Select the year the data will be collected from the drop-down list.

“What will be the estimated starting and ending dates?” – These are optional fields to enter starting and ending dates for the project.

“What is the status of your project?” – Select the status of the project from the list.

“Abstract:” – This is an optional field that allows the user to further identify the project in under 200 characters.

“What vertical datum will be used in collecting the data?” – Select the vertical datum from the drop down list.

“What is the planned NSSDA vertical accuracy of the data (in meters)?” – Enter the horizontal accuracy in meters. There is a link to a conversion tool and to the NSSDA guidelines if the user requires help.

“What is the approximate planned posting spacing of the data (in meters)?” – Select the approximate planned posting spacing.

“What type of elevation data (data model) will you produce?” - Select the type of elevation data that will be collected in from the list. Multiple selections may be made by holding down the Ctrl-key. If the user does not yet know the type of elevation data, please select ‘To be determined’ from the list.

“How will the data be collected?” – Select how the data will be collected from the list. If the user does not yet know how the data will be collected, please select ‘To be determined’ from the list.

“What will be the surface mapped by the data?” - Select the surface mapped by the data from the list. Multiple selections may be made by holding down the Ctrl-key. If the user does not yet know what the surface mapped will be, please select ‘To be determined’ from the list.

“Use constraints:” – Select the use constraints for the data from the list.

Once all fields are completed, select the “Next” button. This will validate the data. If data meets the criteria, entry form page 3 of 3 will be displayed. If invalid data was entered or a required field was not filled out, the error will be identified to the user and must be corrected. Select the “Next” button when the errors identified have been corrected.

Enter Project Location Information:

The following screen is used for entering information about the geographic location of the project. There are three different ways to enter this information.

Project Location
What area will be covered by this data?
Please enter Bounding Rectangle for the data

North Bounding Coordinate: *
(Decimal degrees)

South Bounding Coordinate: *
(Decimal degrees)

East Bounding Coordinate: *
(Decimal degrees)

West Bounding Coordinate: *
(Decimal degrees)

OR

Please select a state or a corresponding county to insert the bounding box coordinates into the FGDC record

Select State

OR

No irregular geometry attached

Is there a specific description of the area you would like to provide?

First method - Enter bounding box

If the user knows the bounding box then the coordinates can be entered in fields 3-1 through 3-4.

“North Bounding Coordinate” – Enter the North coordinate (must be larger than the South coordinate)

“South Bounding Coordinate” – Enter the South coordinate (must be smaller than the North coordinate)

“East Bounding Coordinate” – Enter the East coordinate (remember to use a minus (-) in front of western hemisphere projects).

“West Bounding Coordinate” - Enter the West coordinate (remember to use a minus (-) in front of western hemisphere projects).

“Is there a specific description of the area you would like to provide?” – If desired the user may describe the area for the project in greater detail (limited to 200 characters)

If the user has completed fields 3-1 through 3-4, select the “Submit” button to validate the submission and place it in the system so that it is immediately searchable. An email will be sent to the email address of the contact listed in the input along with a copy of the project information record.

Second method - Select State

If the user wants to select a state use the following method and select from field 3-5.

“Please select a state...” – Select the state from the list. If the project is a state level project the user can then optionally fill the subsequent field.

Select the “Submit” button to validate the submission and place it in the system so that it is immediately searchable. An email will be sent to the email address of the contact listed in the input along with a copy of the project information record.

Second method - Select State and County

If the user wants to select a state and county use the following method.

“Select state” – Select the state from the list. Select the radio button for “Select a county.” Then select the “County List” button. The user will then have a list of counties to select from. Only one county can be chosen from the list. If the project is a county level project, the user can then optionally select a county.

Select the “Submit” button to validate the submission and place it in the system so that it is immediately searchable. An email will be sent to the email address of the contact listed in the input along with a copy of the project information record.

Third method – Upload Shape File

If the user wants to upload a shapefile use the following method.

The polygons found in the shapefile are used to specify project boundaries.

“Upload Shape File” – Click the “browse” button and then navigate to the location of and select the Shape File. After clicking “Ok”, the application will load the geometry of the uploaded Shape File into the current project record. When successful, the number of coordinates defining the project boundary polygons will be displayed above the “Upload Shape File” button.

Select the “Submit” button to validate the submission and place it in the system so that it is immediately searchable. An email will be sent to the email address of the contact listed in the input along with a copy of the project information record.

Processing of uploaded Shape Files will be limited by these constraints:

- All coordinates must be in the “WGS84 Lat/Long” coordinate reference system.
- Only the geometry attribute of the first feature in the Shape File will be processed.
- Only the first five polygons of a multi-polygon geometry attribute will be processed.
- Polygons must not have more than 1000 coordinate vertices.

Search Project Information

If Search Project Information is chosen, the following screen will appear:

Search Project Information

Overview

Map

Base Layers

- County Boundary
- Interstate Highways
- Highways
- Major Roads
- Streets
- States(1)
- States(2)
- Counties
- Major Cities
- Cities
- Minor Rivers
- Lakes, Major Rivers(1)
- Lakes, Major Rivers(2)
- Land Areas(1)
- Land Areas(2)

Overlay Layers

- USGS reference data
- FEMA Map Mod flood data
- JPL OnEarth satellite imagery
- NOAA hydrographic data

Search Parameters

Also Search: NDDP projects Ramona imagery projects Ramona elevation projects

Search All Fields:

Search by Content Status

Progress:

Search by Location

Place Keyword: (state or county)

Search by Time Period

Fiscal Year:
OR
Fiscal Year Range: From To

Search by Agency

Lead Agency:
BLM
CENSUS
FEMA
FS
NGA

Participating Agency:
for use by FEMA Map Mod
BLM
CENSUS
FEMA

Search by Elevation Details

Surface Mapped:

Horizontal Posting Range: (meters)
From To

Vertical Accuracy Range: (meters)
From To

Collection Method:

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In order to search the project information for other projects in the system, select one or more criteria using the drop-down boxes, data entry boxes, or by zooming in to an area on the map. The user may search by one or multiple criteria. Be aware that if too many criteria are chosen, the user may limit the search to a point where no records meet the criteria.

The base and overlay layers may be turned on and off to change the map display. Zoom controls can also be used to change the current map extent, either to zoom to a state or a county. Other pre-defined extents exist in the Quick Zoom box.

You can choose to search both NDOP and NDEP sources simultaneously, as well as Ramona imagery and elevation projects, by checking the 'Also Search' choices. Note that some search options may be disabled if they don't apply to the search sources currently chosen.

Once the criteria are chosen, select "Search" and the following results page will be displayed. Alternatively, the "Quick Search" icon (in the Selection box) can be chosen to initiate an immediate search based only on the geographical extent selected.

Search Results

Overview

Map

Base Layers

- County Boundary
- Interstate Highways
- Highways
- Major Roads
- Streets
- States(1)
- States(2)
- Counties
- Major Cities
- Cities
- Minor Rivers
- Lakes, Major Rivers(1)
- Lakes, Major Rivers(2)
- Land Areas(1)
- Land Areas(2)

Overlay Layers

- USGS reference data
- FEMA Map Mod flood data
- JPL OnEarth satellite imagery
- NOAA hydrographic data

Search Results

Delete

Check: All, None

Delete	View	Edit	Project Name	Source	Lead Agency	Fiscal Year	Find Overlapping Projects
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Fauquier County Virginia 5 Foot Contours	NDEP	Fauquier County Virginia		Find
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Jefferson County, FL, lidar mapping	NDEP	NOAA	2007	Find
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Colleton County lidar	NDEP	NOAA	2007	Find
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Okaloosa County lidar	NDEP	NOAA	2008	Find
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Charleston County lidar	NDEP	NOAA	2008	Find
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Boyle County Floodplain Mapping	NDEP	USGS	2005	Find
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Casey County Floodplain Mapping	NDEP	USGS	2005	Find
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Crittenden County KY Floodplain Mapping	NDEP	USGS	2005	Find
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Crittenden County Floodplain Mapping	NDEP	USGS	2005	Find
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Henderson County Floodplain Mapping	NDEP	USGS	2005	Find

Displaying 1 - 10 of 22 results | View 10 results per page | 1 2 3

[Upload Project Information](#)
[Enter Project Information](#)
[Search Project Information](#)

Export All Search Results

Brief Summary Full

CSV [download](#) [download](#) [download](#)

XML [download](#) [download](#) [download](#)

Shapefile [download](#)

The search results are displayed in the table, 10 records per page. A table row can be selected by clicking on it, which will highlight in red that project's bounding box in the map. The non-selected projects on

that page have their bounding boxes displayed in blue on the map. And the other projects in the results set (on other results pages) have their bounding boxes displayed in green.

Clicking on the icon in the View column will display a summary of the project information for that project. From the summary view, the user can choose to view the project's complete record.

The "Refine Search" icon (in the Selection box) can be chosen to refine the results set, based on the geographical extent selected. If the Find button to the right of each project is selected, then all projects in the system (not just those in the current results set) that overlap the spatially bounding rectangle for that project will be displayed in a new set of results.

Deleting and Editing Existing Records:

Records can also be deleted or edited, but a username and password are required. Contact your agency's NDOP Project Coordination Subcommittee representative if you need access to edit or delete records.

Exporting All Search Records:

The Export All Search Results dialog allows the user to export selected information projects in a search result set in a variety of formats.

Export All Search Results

	Brief	Summary	Full
CSV	<input type="button" value="download"/>	<input type="button" value="download"/>	<input type="button" value="download"/>
XML	<input type="button" value="download"/>	<input type="button" value="download"/>	<input type="button" value="download"/>
Shapefile		<input type="button" value="download"/>	

Export Types:

The different types return certain fields from the project.

"Brief" – Returns Title, Publisher, Metadata Date, and Record ID.

"Summary" – Returns the following information about projects: Title, License, Themekey, Placekey, Tempkey, Metadata modified date, Contact Voice 1, Contact Voice 2, West Bounding Coordinate, East Bounding Coordinate, North Bounding Coordinate, South Bounding Coordinate, Originator, Online Linkage, Record ID, Format Name, Contact Person, Contact Email, Contact Organization, Network Resource Name, Beginning Date, Ending Date, Status, Altitude Datum, Attribute Accuracy Value, Geospatial Data Presentation Form, Entity Type label, Source Cite Abbreviation, Currentness Abbreviation, Indirect Spatial Reference, Grid System Name, Horizontal Datum.

"Full" – Returns all fields within the record.

Export Formats:

"CSV" – Comma Separated Values, selected project information is returned in a format that can be imported into a spreadsheet (e.g. Excel).

"XML" – eXtensible Markup Language, selected project information is returned in FGDC CSDGM XML format.

"Shapefile" – The summary project information and the project boundary polygons are exported for each project in the search results into a single shapefile document and compressed into a WinZip archive.

Contact for Assistance

If you need assistance with this tool, please contact the FEMA Help Desk by e-mail (miphelp@mapmodteam.com).

Sample XML File

Shown below is an example of a correct XML File that will pass the validator in the upload process. For more details about the XML input file, see the NDEP Project Tracking System User Guide.

```
<?xml version="1.0" encoding="UTF-8" ?>
<metadata xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:noNamespaceSchemaLocation="C:\Metadata\fgdc-std-001-1998\fgdc-std-
  001-1998-ann.xsd">
  <idinfo>
    <citation>
      <citeinfo>
        <origin>LeadBLM</origin>
        <origin>ParticipatingFS</origin>
        <origin>ParticipatingUSGS</origin>
        <pubdate>00000000</pubdate>
        <title>Email Test</title>
        <geoform>Multi-Resolution Grid</geoform>
        <geoform>Mass Points/Variable Spacing</geoform>
        <onlink>www.test.com</onlink>
      </citeinfo>
    </citation>
    <descript>
      <abstract>This is a test</abstract>
      <purpose>See Abstract</purpose>
    </descript>
    <timeperd>
      <timeinfo>
        <rngdates>
          <begdate>20060101</begdate>
          <enddate>20061231</enddate>
        </rngdates>
      </timeinfo>
      <current>Not Applicable</current>
    </timeperd>
    <status>
      <progress>Proposed</progress>
      <update>Not Applicable</update>
    </status>
    <spdom>
      <bounding>
        <westbc>-90.305350</westbc>
        <eastbc>-81.652440</eastbc>
        <northbc>36.679630</northbc>
        <southbc>34.988680</southbc>
      </bounding>
    </spdom>
    <keywords>
      <theme>
        <themekt>None</themekt>
        <themekey>Elevation</themekey>
      </theme>
    </keywords>
  </idinfo>
</metadata>
```



```

    <themekey>NDEP</themekey>
  </theme>
  <place>
    <placekt>None</placekt>
    <placekey>Tennessee</placekey>
  </place>
  <temporal>
    <tempkt>None</tempkt>
    <tempkey>2007</tempkey>
  </temporal>
</keywords>
<acconst>See Use Constraints</acconst>
<useconst>Yes, contact the lead agency</useconst>
<ptcontac>
  <cntinfo>
    <cntperp>
      <cntper>Joe Somebody</cntper>
    </cntperp>
    <cntaddr>
      <addrtype>Mailing</addrtype>
      <address>Not Applicable</address>
      <city>Not Applicable</city>
      <state>Not Applicable</state>
      <postal>Not Applicable</postal>
      <country>USA</country>
    </cntaddr>
    <cntvoice>410-555-1212</cntvoice>
    <cntemail>someone@someagency.gov</cntemail>
  </cntinfo>
</ptcontac>
  <native>Unknown</native>
</idinfo>
<dataqual>
  <logic>Unknown</logic>
  <complete>Unknown</complete>
  <posacc>
    <horizpa>
      <horizpar>Not Applicable</horizpar>
      <qhorizpa>
        <horizpav>1</horizpav>
        <horizpae>Planned post spacing for the data</horizpae>
      </qhorizpa>
    </horizpa>
  </posacc>
  <vertacc>
    <vertaccr>Not applicable</vertaccr>
    <qvertpa>
      <vertaccv>1</vertaccv>
      <vertacce>NSSDA Vertical Accuracy Value</vertacce>
    </qvertpa>
  </vertacc>

```

```

</posacc>
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    <srccite>
      <citeinfo>
        <origin>Not Applicable</origin>
        <pubdate>00000000</pubdate>
        <title>Not Applicable</title>
      </citeinfo>
    </srccite>
    <typesrc>online</typesrc>
    <srctime>
      <timeinfo>
        <sngdate>
          <caldate>Unknown</caldate>
        </sngdate>
      </timeinfo>
      <srccurr>Not Applicable</srccurr>
    </srctime>
    <srccitea>LIDAR</srccitea>
    <srctr>Not Applicable</srctr>
  </srcinfo>
  <procstep>
    <procdesc>Not Applicable</procdesc>
    <procdat>Unknown</procdat>
  </procstep>
</lineage>
</dataqual>
<spdoinfo>
  <indspref>This will be redone every three years</indspref>
  <direct>Raster</direct>
  <rastinfo>
    <rasttype>Grid Cell</rasttype>
  </rastinfo>
</spdoinfo>
<spref>
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</eainfo>

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Metadata</metstdn>
<metstdv>FGDC-STD-001-1998</metstdv>
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</metadata>
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Use of “Data Set G-Polygon” for project boundaries

The FGDC CSDGM supports the ability to represent the spatial domain of resources using “complex” geometries such as irregularly shaped polygons (i.e., geometries other than just a simple bounding box). Shown below is an FGDC CSDGM “spatial domain” (<spdom>) block specifying a “mult-geometry” of four polygons, the first three containing “inner rings,” that altogether define the boundary of single NDEP/NDOP project. Notice how the individual polygons can be represented, per the CSDGM specification, using either <gring> or <grngpoin> elements.

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    <southbc>36.6004</southbc>
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85.5544, 40.8728, -85.7890, 40.6095, -86.0508, 40.6548, -86.3421,
40.6168, -86.4340, 40.3378, -86.5548, 40.1181, -86.6171, 39.8753, -
86.7411, 39.6090, -86.6710, 39.3359, -86.3329, 39.2357, -86.2624,
38.9795, -86.1040, 38.7321, -85.7890, 38.8905, -85.5622, 38.7520, -
85.3160, 38.7989, -85.0892, 38.9057, -84.8960, 39.0655, -84.8582,
39.3285, -84.7775, 39.5324, -84.7500, 39.7500</gring>
    </dsgpolyo>
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    ...
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72.9385,40.0721,-73.1171,39.8753,-73.2411,39.6090,-72.9385,39.4278,-

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