

Search Criteria Tab

Search Criteria - The Search Criteria tab provides a location to enter search criteria for an area of interest. Users have the option to either type the location criteria via the textual information component or with the Map interface. (Figure 1)

The screenshot shows the Search Criteria tab interface with the following components and annotations:

- ① Geocoder**: Points to the "Geocoder" tab.
- ② Upload shapefile or KML file**: Points to the "KML/Shapefile Upload" tab.
- ③ Map Interface – Polygon/Circle/Define AOI/Use Map**: Points to the "Polygon" tab.
- ④ Predefined Area**: Points to the "Predefined Area" tab.
- ⑤ Dates Selected**: Points to the "Date Range" tab.
- ⑥ Cloud Cover Slider**: Points to the "Cloud Cover" tab.
- ⑦ Result Options**: Points to the "Result Options" tab.

The interface includes the following fields and controls:

- Select a Geocoding Method**: A dropdown menu with "Feature (GNIS)" selected.
- Search Limits**: A text box stating "The search result limit is 100 records; select a Country, Feature Class, and/or Feature Type to reduce your chances of exceeding this limit."
- US Features** and **World Features**: Two buttons.
- Feature Name**: A text box with the placeholder "(use % as wildcard)".
- State**: A dropdown menu with "All" selected.
- Feature Type**: A dropdown menu with "All" selected.
- Show** and **Clear**: Two buttons.
- Polygon**, **Circle**, and **Predefined Area**: Three tabs.
- Degree/Minute/Second** and **Decimal**: Two tabs.
- No coordinates selected.**: A message box.
- Use Map**, **Add Coordinate**, and **Clear Coordinates**: Three buttons.
- Date Range**, **Cloud Cover**, and **Result Options**: Three tabs.
- Search from:** and **to:**: Two date input fields with a calendar icon.
- Search months:**: A dropdown menu with "(all)" selected.
- Data Sets >**, **Additional Criteria >**, and **Results >**: Three buttons.

Figure 1 - Search Criteria

- A. **Geocoder** ① - Choose between Feature (GNIS), Address/Place (ERS Login Required), and Path/Row - Choose search type and enter desired information. (Figure 2)

Figure 2 – Geocoding Method

- a. **Feature (GNIS)** - Select either a US or World Feature. Click the 'Feature' button to display the US/World Feature Search dialog box. Type in a geographic feature name or select a State/Country, Feature Class or Feature Type from dropdown menu. A pin mark will be placed on the map along with the latitude and longitude displayed under the 'Coordinates' section. (Figure 3)

US Features Selection

World Features

Place Name	Type	Region	Latitude	Longitude
CYRIL E KING AIRPORT	AIRPORT	VIRGIN ISLANDS	18.3381	-64.9725
STOUFFER GRAND BEACH	AIRPORT	VIRGIN ISLANDS	18.3436	-64.9035
REEDPORT HELIPORT	AIRPORT	VIRGIN ISLANDS	18.3393	-64.9401
CHARLOTTE AMALIE HARBOR	AIRPORT	VIRGIN ISLANDS	18.3393	-64.9388
SEAPLANE BASE	AIRPORT	VIRGIN ISLANDS	17.7001	-64.7859
SAINT THOMAS WATERFRONT	AIRPORT	VIRGIN ISLANDS	17.7450	-64.7044
SEAPLANE BASE	AIRPORT	VIRGIN ISLANDS	18.3347	-64.7900
CRUZZEVY SEAPLANE BASE	AIRPORT	VIRGIN ISLANDS	18.3177	-64.9215
FRENCHMAN'S REEF HELIPORT	AIRPORT	VIRGIN ISLANDS	18.3177	-64.9215

Entered Virgin Islands. Location

Place Name	Type	Region	Latitude	Longitude
Krakatau	VOLCANO	INDONESIA	-6.1167	105.4000
Krakatau	VOLCANO	INDONESIA	-6.1167	105.4000
Gunung Krakatau	VOLCANO	INDONESIA	-6.1167	105.4000
Krakatau	VOLCANO	INDONESIA	-6.1167	105.4000

Entered Indonesia. Location options

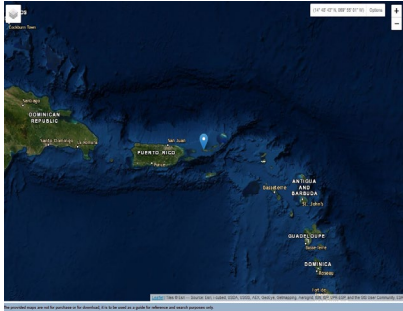
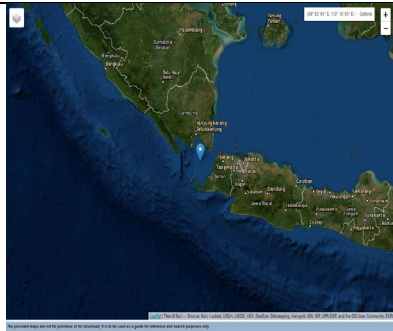
options are listed.	are listed.
 <p>Virgin Islands marked on the map interface.</p>	 <p>Indonesia marked on the map interface.</p>

Figure 3 - Feature (GNIS)

- b. **Path/Row** - Select the Path/Row option to enter WRS1 or WRS2 path row Select the Path/Row button to display the Path/Row WRS criteria dialog box Select either WRS1 or WRS2 and then type the Path and Row for the desired area. Click 'Show' to identify the path/row location on the map. A pin mark will be placed on the map along with the latitude and longitude displayed under the 'Coordinates' section. (Figure 4)

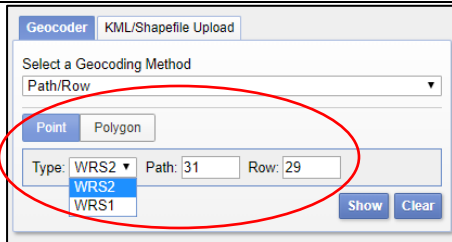
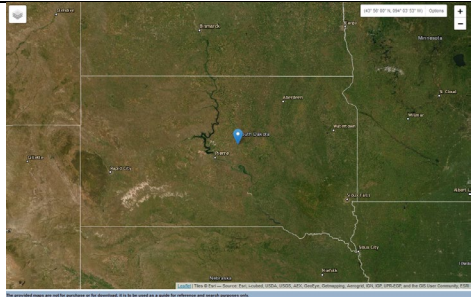
 <p>Enter desired Path/Row</p>	 <p>Path/Row center point marked on the map interface.</p>
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Figure 4 - Path/Row

- B. **Upload shapefile or KML file** ② - Upload a shapefile or KML file as the query area. (Figure 6)

Geocoder KML/Shapefile Upload

Files are limited to one record containing one polygon or line string with a maximum of 30 points.

KML/KMZ

KML/KMZ

Shapefile

Select File

Figure 6 - Upload KML/KMZ and Shapefile

- a. Upload KML/KMZ file.
Select the 'KML/Shapefile Upload' tab to display the input options for uploading a search area. Select KML/KMZ option. The KML or KMZ file is limited to one record containing one polygon or line string with a maximum 500 points. Click on 'Select File'. Note: A KMZ file is a compressed (zipped) version of a KML file.

Browse to the desired KML or KMZ file, select the desired file, and then select 'Open' to upload the KML/KMZ file.

- b. Upload ESRI Shapefile
Select the 'KML/Shapefile' tab to display the input form for uploading ESRI Shapefile information for a search area. Select the Shapefile option. Shapefiles are limited to one record containing one polygon or line string with a maximum 500 points. The shapefile dialog box allows for the upload of a zip file containing .shp, .shx, .dbf, and .prj files. Click on 'Select File'.

The ESRI Shapefile requires all of the following files: .shp, .shx, .dbf, and .prj files.

C. Map Interface ③ - Enter the area of interest through the Map interface.

- a. **Polygon** - Define an area of interest by manually typing the latitude/longitude in the Coordinates tab. (Figure 7)

<p>Polygon Circle Predefined Area</p> <p>Degree/Minute/Second Decimal</p> <p>No coordinates selected.</p> <p>Use Map Add Coordinate Clear Coordinates</p>	<p>To enter latitude/longitude coordinates manually, select the 'Degree/Minute/Second' or 'Decimal' option. This method displays how the latitude/longitude</p>
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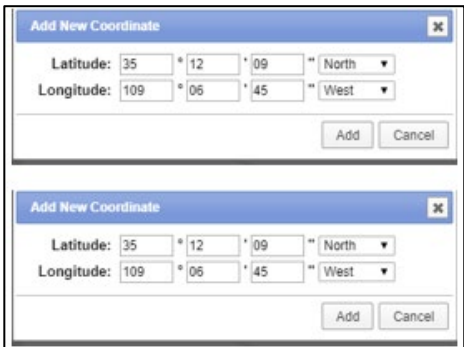

	information is entered.
	Click 'Add Coordinate' to display the 'Add new Coordinate' dialog box. Enter degrees, minutes, and seconds of a point in the dialog box. After clicking Add, the dialog disappears, the point displays on the map, and the coordinates are displayed. Use this method to enter multiple points.
	

Figure 7 - Map Interface Polygon

- b. **Circle** - Define an area of interest by manually typing the center point latitude/longitude in decimal degrees and setting the radius. (Figure 8)

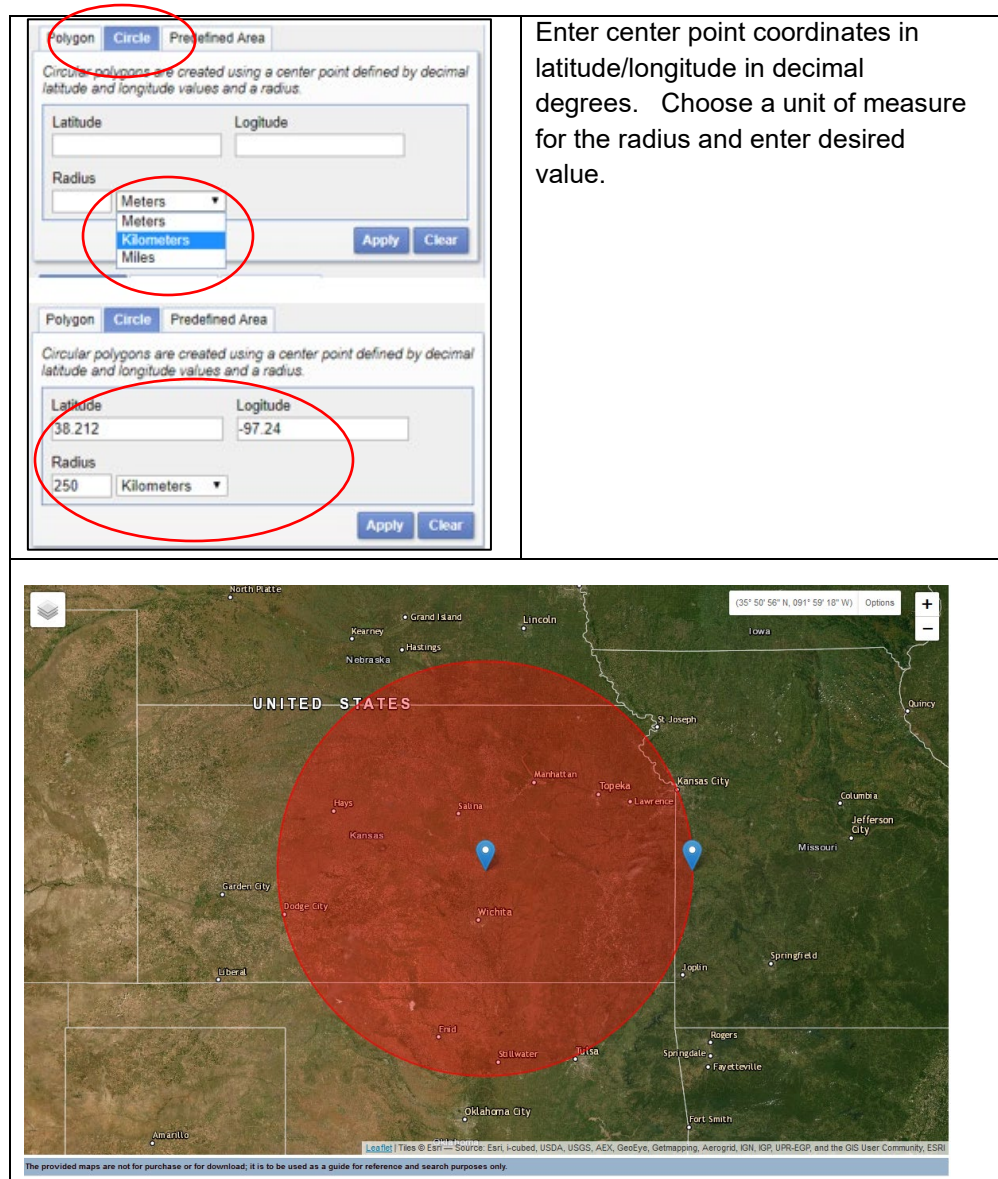


Figure 8 - Map Interface Circle

- c. **Define Area of Interest (AOI)** - Define a single point or multiple points on the Map Interface. (Figure 9)

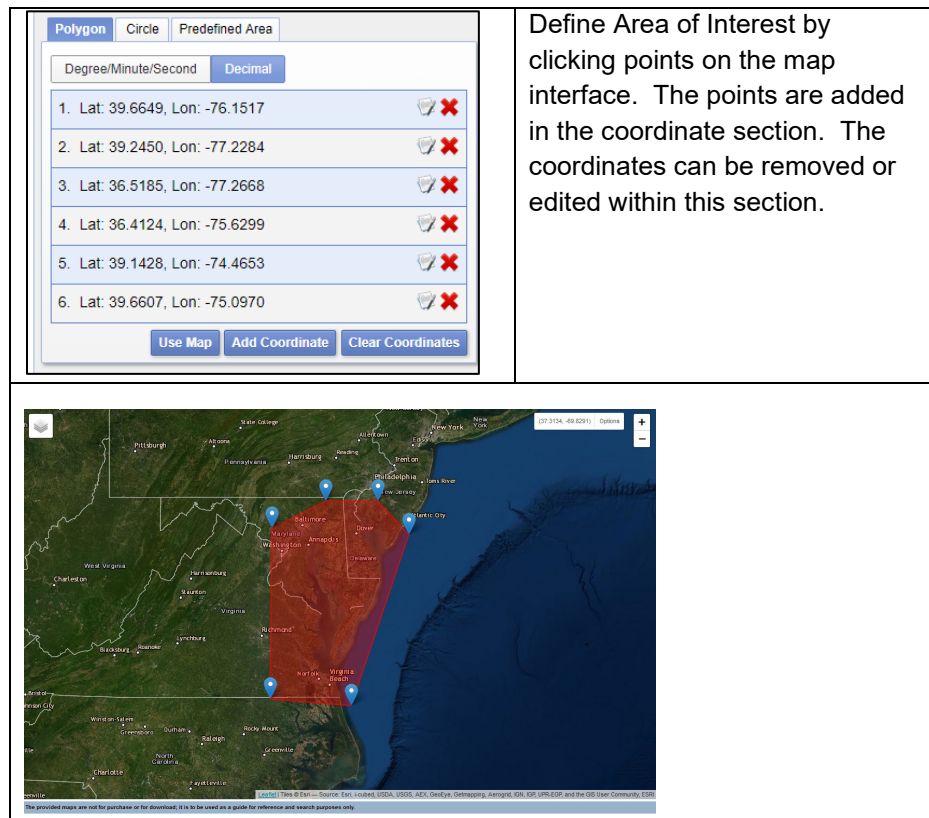


Figure 9 - Map Interface Draw AOI

- d. **Use Map** - On the map interface manipulate the map to display the Area of Interest within the map window. Then Click 'Use Map' (Figure 10)

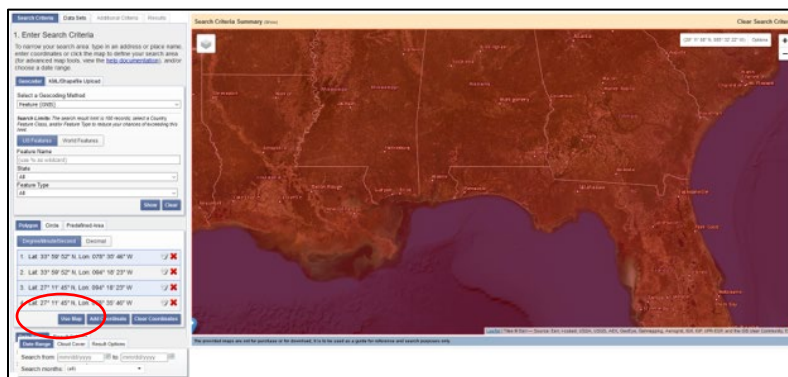


Figure 10 - Map Interface Use Map

- D. **Predefined Area ④** - Select from a list of predefined areas for a query. The available predefined areas include U.S. States, Area Type, and Area Name.

Select desired State, Area Type (Congressional District, County, State), and Area. Click 'Add' and the area will be highlighted on the map and area name displayed in the coordinates section. (Figure 11)

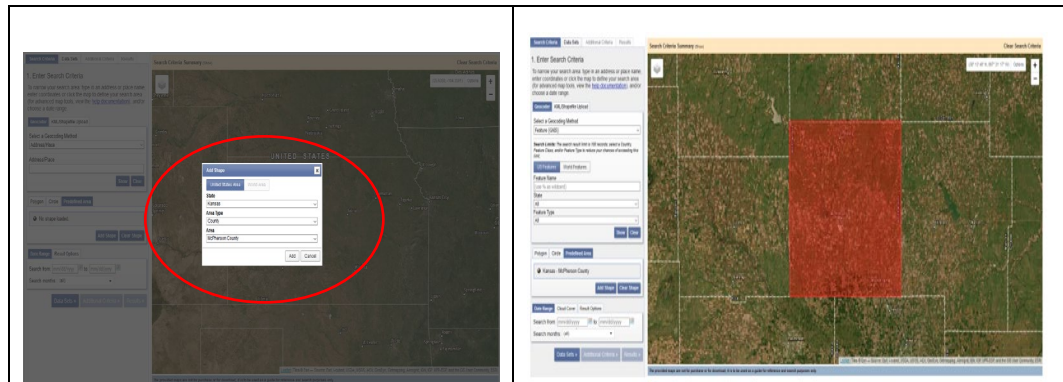


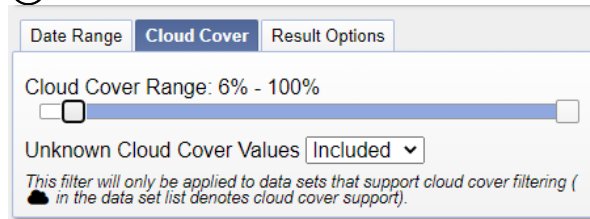
Figure 11 - Predefined Area

E. **Dates Selected** ⑤ - Enter a date or date range (Figure 12)

The Date Range option provides a method for entering a beginning and ending date range to refine the search criteria. It is not a required field to modify the default date range; however, a date range is highly recommended to reduce the number of search results returned from a search. 'Search Months' allows you to specify which months to search within the date range specified.

Figure 12 - Dates Selected

F. **Cloud Cover** ⑥ - Use slider to select desired/undesired Cloud Cover (scene)



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Date Range	Cloud Cover	Result Options
<div>Standard Search</div> <div>Results per Page: 100 ▼</div>		

Figure 13 - Results Options