



# ESRI ArcMap Extension for MetaCarta

## Perform Geographic Searches Within ESRI ArcMap

The **ESRI ArcMap Extension for MetaCarta** allows end users to search for documents from within the ESRI ArcMap interface.

Results from a search query appear as icons on the ESRI map. The location of each document icon coincides with the geographic locations mentioned within the document. If a user wants to find all documents relative to a geographic area - a country, city, LAT/LON pair or U.S. street address - MetaCarta renders a map appropriately speckled with icons representing every document that mentions a place within the map extent. By clicking on a document icon, a user gains direct access to the original document.

This extension allows you to:

- Search and retrieve documents
- Display result sets on a map
- Store result sets as intelligent layers or shapefiles

To use MetaCarta within ESRI ArcMap, you must have ESRI ArcMap installed on your desktop and have network access to a MetaCarta appliance (on-premise or hosted).

### Performing a geographic text search

Simply enter a keyword, choose a time constraint, select a document collection, and click "search". Results appear as hyperlinks in a search results window.

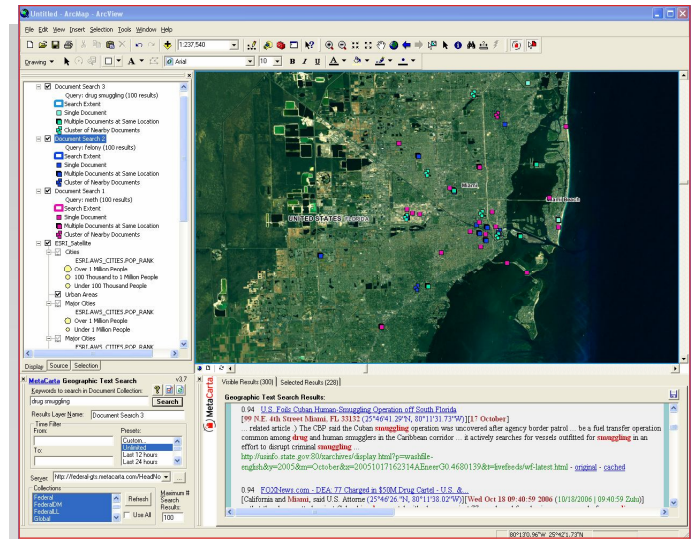
### Viewing a search result document

A search result document can be opened by clicking a hyperlinked title from either the Visible Results or Selected Results tab of the results window. You can also open a search result document by holding down the Control key and clicking directly on the icon in the map.

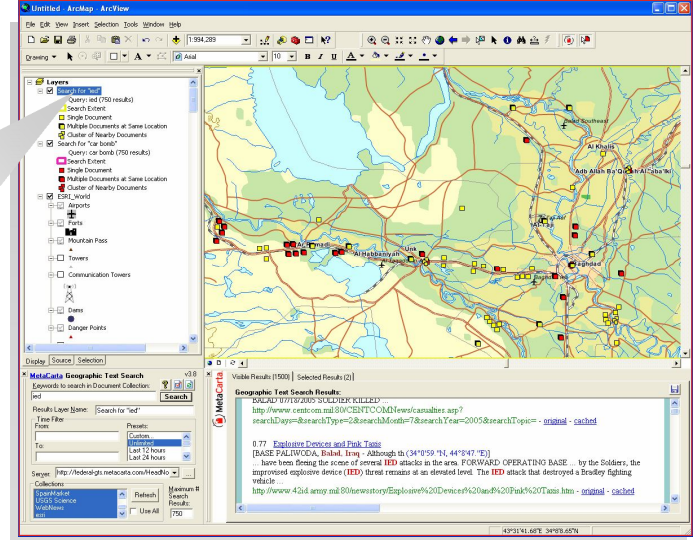
### Attribute table for each search layer

ID	Shape	Title	Confidence	Keywords	Collection	Geography
1	Point	Update on Mustang Agent Release at Uniqtor Ammunition Storage...	0.46	read; bomb; ...	50000 "Al Qaeda" "Bin Laden" "Energy" "Federal"	Heal; later refers to the Baghdad Province District
2	Point	US Navy 2003: American soldiers & troops killed in Iraq	0.91	read; bomb; ...	50000 "Al Qaeda" "Bin Laden" "Energy" "Federal"	Heal; Hussein's body in Baghdad 1/11/2003
3	Point	James Linneman: A Close View On the US War On Terrorism	0.53	read; bomb; ...	50000 "Al Qaeda" "Bin Laden" "Energy" "Federal"	Heal; Johnson 7. All-Falshah under curfew
4	Point	Iraqi Detainees: Camps and Infiltration	0.91	read; bomb; ...	50000 "Al Qaeda" "Bin Laden" "Energy" "Federal"	Heal; and 8 via H. Falsh. These are th
5	Point	U.S. Air Force AFB Reports U.S. Troop Deaths Break Up Rebel Camp	0.93	read; bomb; ...	50000 "Al Qaeda" "Bin Laden" "Energy" "Federal"	Heal; Iraq, Dances Car Bomb
6	Point	Iraqi Detainees: Camps and Infiltration	0.51	read; bomb; ...	50000 "Al Qaeda" "Bin Laden" "Energy" "Federal"	Heal; Iraq, Dances Car Bomb
7	Point	Delaware-Like News: Soccer, Marine Killed, Terror Suspects, Ila	0.93	read; bomb; ...	50000 "Al Qaeda" "Bin Laden" "Energy" "Federal"	Heal; Iraq, Dances Car Bomb
8	Point	Pakistan News: 25 Dead as Suicide Car Bomb Rips Through Ins	0.93	read; bomb; ...	50000 "Al Qaeda" "Bin Laden" "Energy" "Federal"	Heal; Iraq, Dances Car Bomb
9	Point	Delaware-Like News: Officials Provide More Details of Baghdad B	0.52	read; bomb; ...	50000 "Al Qaeda" "Bin Laden" "Energy" "Federal"	Heal; Iraq, Dances Car Bomb
10	Point	KVOZ (2011) Idaho News: Theater & Sports, Interim/Cont	0.96	read; bomb; ...	50000 "Al Qaeda" "Bin Laden" "Energy" "Federal"	Heal; Iraq, Dances Car Bomb
11	Point	James Linneman: News Archive	0.52	read; bomb; ...	50000 "Al Qaeda" "Bin Laden" "Energy" "Federal"	Heal; Iraq, Dances Car Bomb
12	Point	Waco: News Archive	0.91	read; bomb; ...	50000 "Al Qaeda" "Bin Laden" "Energy" "Federal"	Heal; Iraq, Dances Car Bomb
13	Point	Waco: News Archive	0.91	read; bomb; ...	50000 "Al Qaeda" "Bin Laden" "Energy" "Federal"	Heal; Iraq, Dances Car Bomb
14	Point	U.S. Air Force AFB Reports U.S. Troop Deaths Break Up Rebel Camp	0.93	read; bomb; ...	50000 "Al Qaeda" "Bin Laden" "Energy" "Federal"	Heal; Iraq, Dances Car Bomb
15	Point	U.S. Air Force AFB Reports U.S. Troop Deaths Break Up Rebel Camp	0.93	read; bomb; ...	50000 "Al Qaeda" "Bin Laden" "Energy" "Federal"	Heal; Iraq, Dances Car Bomb
16	Point	U.S. Air Force AFB Reports U.S. Troop Deaths Break Up Rebel Camp	0.93	read; bomb; ...	50000 "Al Qaeda" "Bin Laden" "Energy" "Federal"	Heal; Iraq, Dances Car Bomb
17	Point	U.S. Air Force AFB Reports U.S. Troop Deaths Break Up Rebel Camp	0.93	read; bomb; ...	50000 "Al Qaeda" "Bin Laden" "Energy" "Federal"	Heal; Iraq, Dances Car Bomb
18	Point	U.S. Air Force AFB Reports U.S. Troop Deaths Break Up Rebel Camp	0.93	read; bomb; ...	50000 "Al Qaeda" "Bin Laden" "Energy" "Federal"	Heal; Iraq, Dances Car Bomb
19	Point	U.S. Air Force AFB Reports U.S. Troop Deaths Break Up Rebel Camp	0.93	read; bomb; ...	50000 "Al Qaeda" "Bin Laden" "Energy" "Federal"	Heal; Iraq, Dances Car Bomb
20	Point	U.S. Air Force AFB Reports U.S. Troop Deaths Break Up Rebel Camp	0.93	read; bomb; ...	50000 "Al Qaeda" "Bin Laden" "Energy" "Federal"	Heal; Iraq, Dances Car Bomb
21	Point	U.S. Air Force AFB Reports U.S. Troop Deaths Break Up Rebel Camp	0.93	read; bomb; ...	50000 "Al Qaeda" "Bin Laden" "Energy" "Federal"	Heal; Iraq, Dances Car Bomb
22	Point	U.S. Air Force AFB Reports U.S. Troop Deaths Break Up Rebel Camp	0.93	read; bomb; ...	50000 "Al Qaeda" "Bin Laden" "Energy" "Federal"	Heal; Iraq, Dances Car Bomb
23	Point	U.S. Air Force AFB Reports U.S. Troop Deaths Break Up Rebel Camp	0.93	read; bomb; ...	50000 "Al Qaeda" "Bin Laden" "Energy" "Federal"	Heal; Iraq, Dances Car Bomb
24	Point	U.S. Air Force AFB Reports U.S. Troop Deaths Break Up Rebel Camp	0.93	read; bomb; ...	50000 "Al Qaeda" "Bin Laden" "Energy" "Federal"	Heal; Iraq, Dances Car Bomb
25	Point	U.S. Air Force AFB Reports U.S. Troop Deaths Break Up Rebel Camp	0.93	read; bomb; ...	50000 "Al Qaeda" "Bin Laden" "Energy" "Federal"	Heal; Iraq, Dances Car Bomb
26	Point	U.S. Air Force AFB Reports U.S. Troop Deaths Break Up Rebel Camp	0.93	read; bomb; ...	50000 "Al Qaeda" "Bin Laden" "Energy" "Federal"	Heal; Iraq, Dances Car Bomb
27	Point	U.S. Air Force AFB Reports U.S. Troop Deaths Break Up Rebel Camp	0.93	read; bomb; ...	50000 "Al Qaeda" "Bin Laden" "Energy" "Federal"	Heal; Iraq, Dances Car Bomb

### Geographic search in ArcMap interface



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## Technical Specifications

**ArcMap:** ESRI ArcMap v8.x, v9.x

**Base Map:** Map backdrops based on the Digital Chart of the World (DCW); useful to 1:1,000,000 scale; Military Specification Mil-C-89009. Also complies with 3rd party maps.

### Supported Document Types:

- ASCII Text Files with or without extensions (.txt, etc...)
- HTML Documents (.htm, .html)
- Adobe Acrobat files (.pdf)
- Adobe PostScript files (.ps)
- Microsoft Word documents (.doc)
- Microsoft Excel spreadsheets (.xls)
- Microsoft PowerPoint presentations (.ppt)
- Rich Text Format documents (.rtf)

**Updates:** New releases shipped directly from MetaCarta on DVD/CD-ROM; or remotely if using a hosted solution.

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## The MetaCarta Geographic Search and Referencing Platform (GSRP)

MetaCarta enables documents from any sources to appear in any map.

Whether you are using a high-end GIS like ArcMap, a mobile device, or a browser based map with Microsoft Virtual Earth an internal WMS, MetaCarta can display relevant map-based search results.

You can push documents into MetaCarta, or use our Connector Framework to crawl your shared drives and content management systems and all the repositories that matter to you.

### MetaCarta's Processing & Indexing Technology

MetaCarta applies natural language processing (NLP) to unstructured content to discover geographic references.

The process relies on MetaCarta's various Geographic Data Modules to resolve latitude, longitude, and confidence for:

- Explicit location names and landmarks (e.g. towns, cities, states)
- Implicit location references (e.g. 40 miles west of Boston, MA)
- Latitude/Longitude formats
- Universal Transverse Mercator (UTM)
- Military Grid Reference System (MGRS)

## MetaCarta Geographic Data Module (GDM)

A GDM is a knowledge base used to identify and disambiguate geographic references, assign lat/lon coordinates, confidence scores, and relevance ranking.

MetaCarta's Base GDM includes more than 7 million unique names and 13 million name variations.

A GDM carries information about how to determine geographic from non-geographic interpretations of a candidate placename, such as when "Media" does not mean a city. GDMs also carry patterns, such as "\_\_\_ miles [compass direction] from \_\_\_" that indicate the presence of a placename.

> 194 Million places

IHS Global Oil & Gas GDM	Custom Gaz.
Spanish GDM	
Russian GDM	
French GDM	
Arabic GDM	Base GDM
Spain Street Address GDM	
Australia Street Address GDM	
U.S. Street Address GDM	

## MetaCarta/ESRI in Action: Geographic Search for USDA Crop Explorer Content

