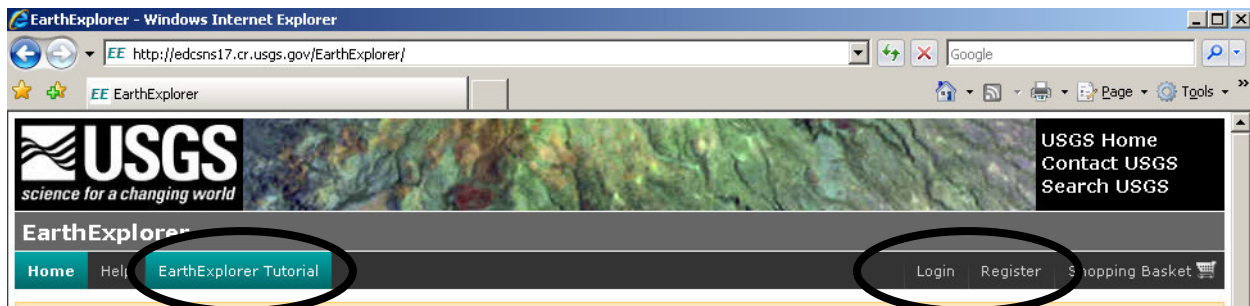


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Earth Explorer may not work with some internet browsers such as FireFox. You may also need to have your “Internet Explorer” Browser up to date to the latest version.

Go to <http://edcsns17.cr.usgs.gov/EarthExplorer>

We recommend that you read through the EarthExplorer Tutorial to get a full over view of the web site. The instructions listed below are for getting data into GK Technology Inc. – Ag Data Viewer software.



If you are on a “Dialup internet connection” we recommend not using this site, find a DSL or Broadband connection. Download sizes are 120 MB to 200 MB.

Before getting started, either “Login” or “Register”

Keep in mind Landsat imagery is Free. **There are images on this site that must be purchases and you will be charged for these other images!!!!** So pay attention to what you are clicking on and ordering.

1. Select your dataset(s)

- “CHECK” the images you want to work with or look for. Below is a list of all the images that Ag Data Viewer can work with and compile in to useable .tif files..
- Select the **“Landsat Archive”** Or **“Landsat Decadal”**
 - Most Common - Landsat 4-5 TM
 - L7 SLC-on (1999-2003)
 - ETM+ (1999-2003)
 - ETM+ Pan (1999-2003)
 - TM (1985-1996)

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2. Enter your search criteria

- Type in your city, state where you are looking for data – Click “Search”
- Select the date range you want view (*working in 1 year “Cropping” ranges makes for easier navigation*).
- Check “Search these months only.”
- Change your “Number of Results” to 50 (easier navigation)

3. Search

- Click “3. Search”

The screenshot shows the EarthExplorer website interface with three main sections: 1. Select your dataset(s), 2. Enter your search criteria, and 3. Search >>>. Section 1 lists various datasets with checkboxes, and Section 2 includes a search box for 'Halstad, MN', a date range from 05/01/2008 to 10/31/2008, and a 'Search these months only' checkbox. A table shows search results for Halstad, MN, USA. Section 3 includes a map, coordinate input fields, and a 'Number of Results' dropdown set to 50. A '3. Search >>>' button is circled in red.

1. Select your dataset(s)
Click on next to the category name to show a list of datasets.
Icon means selected data within the Data Sets can be downloaded at no charge.

- Declassified Data
- Digital Elevation (Related Links)
- Digital Line Graphs (Related Links)
- Digital Maps (Related Links)
- EO-1
- Global Land Survey
- Landsat Archive (Related Links)
 - L7 Intl Ground Stations (Search Only)
 - L7 SLC-off (2003-present)
 - L7 SLC-on (1999-2003)
 - Landsat 1-5 MSS
 - Landsat 4-5 TM
- Landsat Decadal (Related Links)
 - ETM+ (1999-2003)
 - ETM+ Pan (1999-2003)
 - MSS (1972-1987)
 - TM (1985-1996)
 - TM and ETM+ Pan Mosaics
- Landsat Science (Related Links)
- Radar

Selected Datasets

- L7 SLC-on (1999-2003) (Additional Search Criteria...)
- Landsat 4-5 TM (Additional Search Criteria...)
- ETM+ (1999-2003) (Additional Search Criteria...)
- ETM+ Pan (1999-2003) (Additional Search Criteria...)
- TM (1985-1996) (Additional Search Criteria...)

2. Enter your search criteria

Address/Place name: Halstad, MN

Search: (US/World Feature Search)

Click on a Address/Place to show the location on the map and add coordinates to the Area Selected box.

Num	Address	Latitude	Longitude
1	Halstad, MN, USA	47.351775	-96.826163

From (mm/dd/yyyy): 05/01/2008 To (mm/dd/yyyy): 10/31/2008

Search these months only.

3. Search >>>

Map Satellite Terrain
 Show Labels

Area Selected
Degree/Minute/Second Decimal

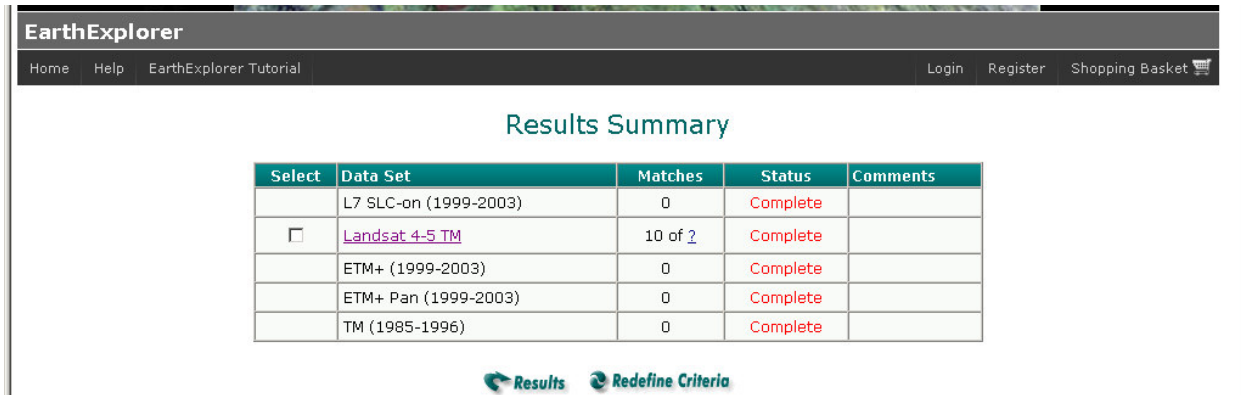
1. Latitude: 47° 21' 07" North Longitude: 096° 49' 35" West
2. Latitude: ° ' " North Longitude: ° ' " West

Number of Results
Find the first 50 records. Help
(Note: Results will contain this number of records for each individual data set selected.)

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Earth Explorer will open a “Results Summary” window.

- Left click on the “Data Set” you want to look at (below is “Landsat 4-5 TM”)



The screenshot shows the Earth Explorer interface. At the top, there is a navigation bar with links for Home, Help, Earth Explorer Tutorial, Login, Register, and Shopping Basket. Below this is the "Results Summary" section, which contains a table with the following data:

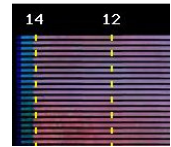
Select	Data Set	Matches	Status	Comments
	L7 SLC-on (1999-2003)	0	Complete	
<input type="checkbox"/>	Landsat 4-5 TM	10 of 2	Complete	
	ETM+ (1999-2003)	0	Complete	
	ETM+ Pan (1999-2003)	0	Complete	
	TM (1985-1996)	0	Complete	

Below the table, there are two buttons: "Results" and "Redefine Criteria".



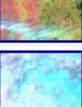
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The “Results” window will open

- Click on the “Landsat Scene Identifier” header. (*glance through, it’s helpful in understanding the labels*)
- Look at the preview images and pay attention to the dates and the % cloud cover
- When you find images that look good, Click on the “Image” under “Preview Images”
 - o Try to find geographic points that will tell you if the image is worth downloading
 - o Keep in mind these images are 120 miles x 120 miles
 - o Pay attention to the Path – Row number
 - o If the “Preview Images” have black bands in them they are not useable!!
- If it says download, click on “Download” and save the image back to your C:/GKData/Imagery folder
- If it does not have a “Download” and it says “Available by Ordering” check the “Order” box
 - o Click the “Add Selected Items to Shopping Basket” at the bottom of the screen.



Landsat 4-5 TM
23 of 23 metadata records retrieved. Showing 1-10

Preview Image	Show Footprint	Show All Fields	Exclude	Order	Qty	Price	DOWNLOADS	Landsat Scene Identifier	Date Acquired	WRS Path	WRS Row	WRS Type	Cloud Cover	Sun Elevation	Sun Azim
	Show	Show	<input type="checkbox"/>	<input checked="" type="checkbox"/>		\$0.00	Available by ordering	LT50300272008123EDC00	2008/05/02	030	027	2	40	54.15568927	145.83288
	Show	Show	<input type="checkbox"/>	<input type="checkbox"/>		N/A	Download now	LT50290272008132EDC00	2008/05/11	029	027	2	0	56.44335338	144.21205
	Show	Show	<input type="checkbox"/>	<input type="checkbox"/>		N/A	Download now	LT50300272008139EDC00	2008/05/18	030	027	2	0	57.89728007	142.81186
	Show	Show	<input type="checkbox"/>	<input type="checkbox"/>		N/A	Download now	LT50290272008148EDC00	2008/05/27	029	027	2	0	59.3141925	140.95949
	Show	Show	<input type="checkbox"/>	<input type="checkbox"/>		\$0.00	Available by ordering	LT50300272008155EDC00	2008/06/03	030	027	2	90	60.04616939	139.55318

Orders may take up to 3 or 4 months to process!!