

View Results

The “Results” Tab - (Figure 1) executes a search using the search criteria and displays the results.

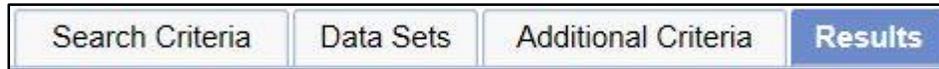


Figure 1 - Results Tab

The left side of the page displays the results panel with thumbnail and textual information for each scene returned from the search. The right side of the page displays the Google Map interface with the identified area of interest (Figure 2).

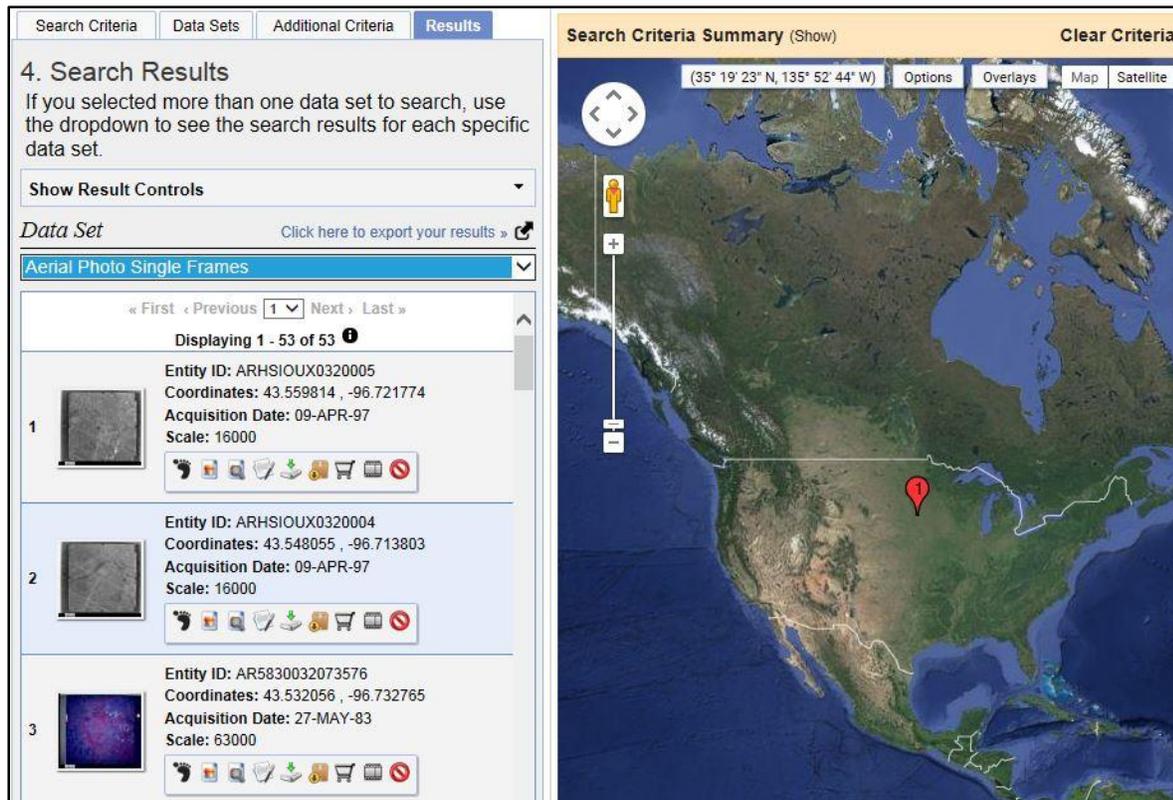


Figure 2 - Results

The Search Results panel includes the following components:

- Search Results
- Show Result Controls
- Scene level result controls
- Google Map Interface
- Export Metadata

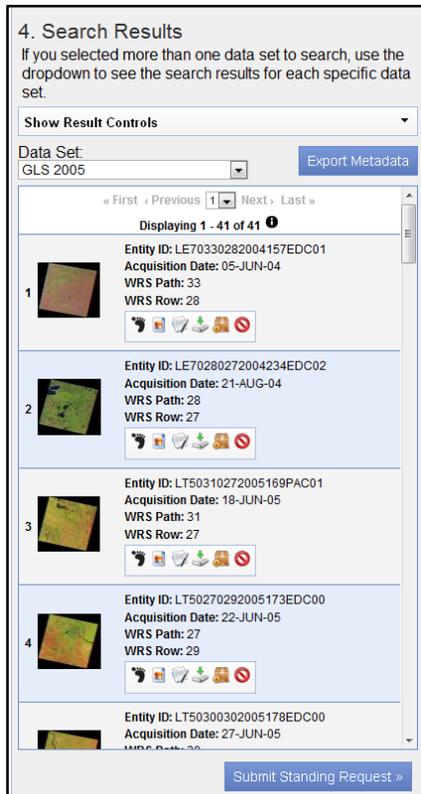


Figure 3 - Search Results

Search Results - Each search result includes a thumbnail image, attribute information on each scene, links to view, browse and download, and other visualization controls (Figure 3).

Earth Explorer searches multiple datasets; (Figure 4) the results of the first dataset display in the results panel.

Use the 'Data Set' selection box to select and view each additional dataset.

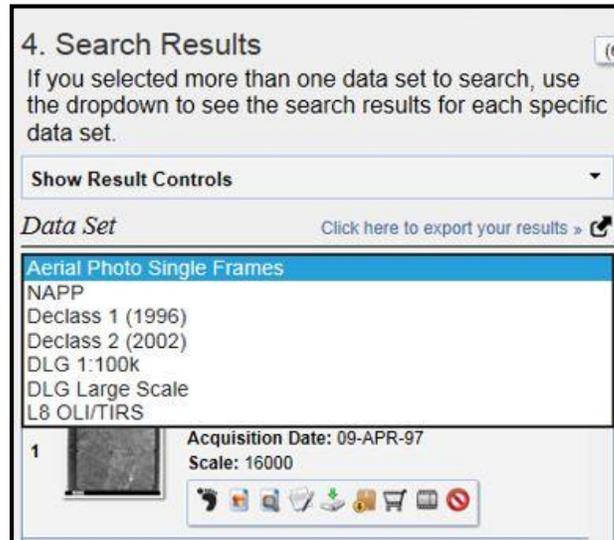


Figure 4 - Data Set

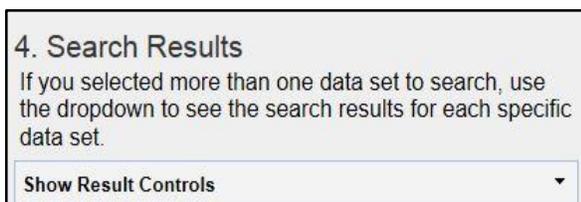


Figure 5 - Show Result Controls

Show Result Controls - Provide result control options (Figure 5).

- Show All Footprints From Current Page
- Show All Browse From Current Page
- Add All Results From Current Page to Bulk Download
- Add All Results From Current Page to Order
- Compare Browse - Map Overlay All Scenes

The 'Browse Opacity' slider adjusts the opacity level of the overlay browse images. You must be logged in for all options to be displayed.



Figure 6 - Example Scene Results

Results - Include a thumbnail image and attribute information on each scene. Based on the dataset and user profile, some controls may not be available (Figure 6).

The icon menu for scene level result controls includes the following:

-  Show Footprint
-  Show Browse Overlay
-  Compare Browse
-  Show Metadata and Browse
-  Download Options
-  Bulk Download
-  Order Scene
-  Exclude Scene

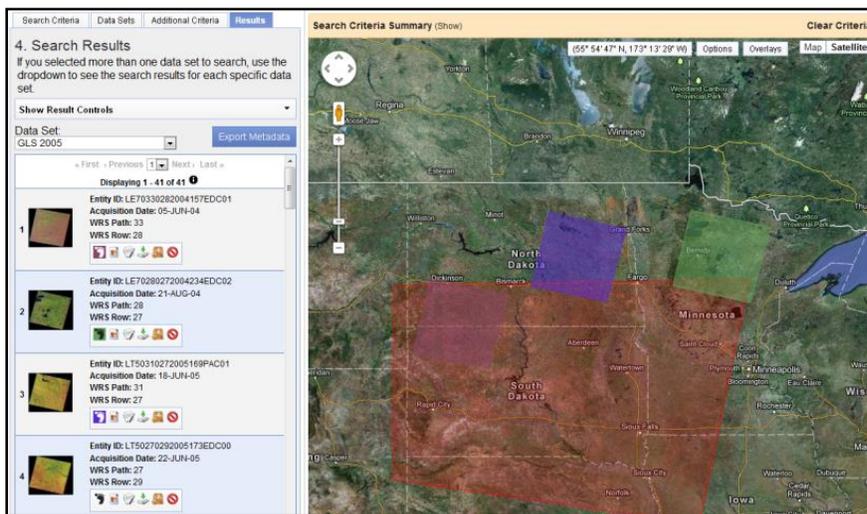


Figure 7 - Footprint Overlay

Show Footprint - Click the “Show Footprint”  the “Show Footprint” icon to display the footprint of the selected scenes on Google Map (Figure 7). When the footprint option is on, the footprint icon is highlighted. Click the highlighted icon to turn off the footprint option. Multiple footprints can be selected and displayed on the map. Each footprint displays in a different color.

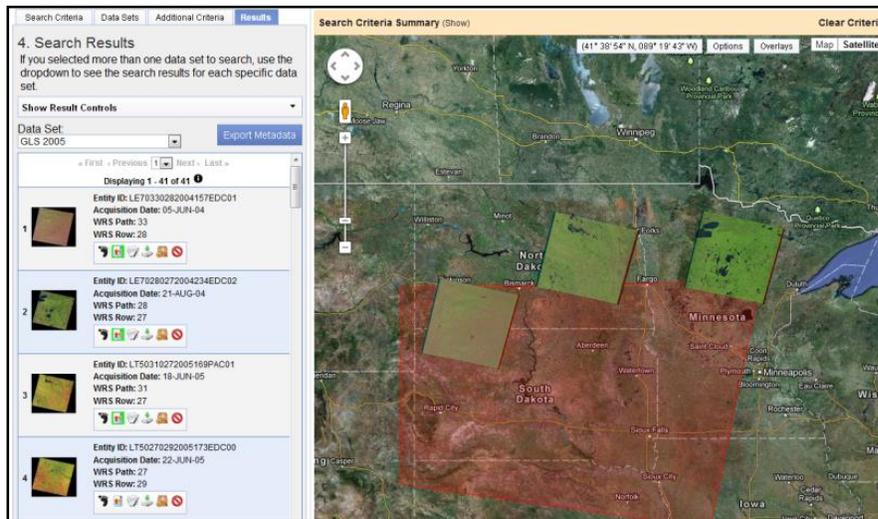


Figure 8 - Browse Overlay

Show Browse Overlay

- Click the “Show



Browse Overlay” icon to display a preview image (browse) of the scene on the map (Figure 8). When the browse option is on, the browse icon is highlighted. Click the highlighted icon to turn off the browse option. Multiple browse can be selected and displayed on the map.

Compare Browse



- Click the “Compare Browse” icon on all images that you would like to compare. Go to “Show Result Control” and open the menu. Select “Compare”. The new list will show the selected scenes and give the option to add to the map. Select “Home” from the top tool bar to return to the full result listing.

Show Metadata and Browse - Click the thumbnail image or  icon to display the browse image and full metadata for the selected scene.

Download Options - Click the “Download Options” icon  to download the selected data. Selecting the 'Download Options' icon before registering or logging in displays the following prompt.



Figure 9 - Login Prompt

Click the “Login” to log in to EarthExplorer.

After logging in, click the “Download Options” icon , a window similar to the following displays the download options for the data set (Figure 10).

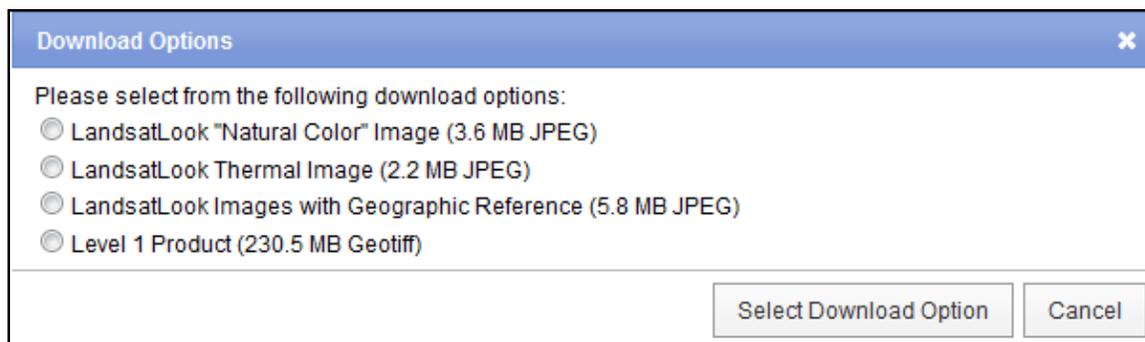


Figure 10 - Download Options

Depending on the dataset, multiple download options may be available. Click “Download” to start the download process.

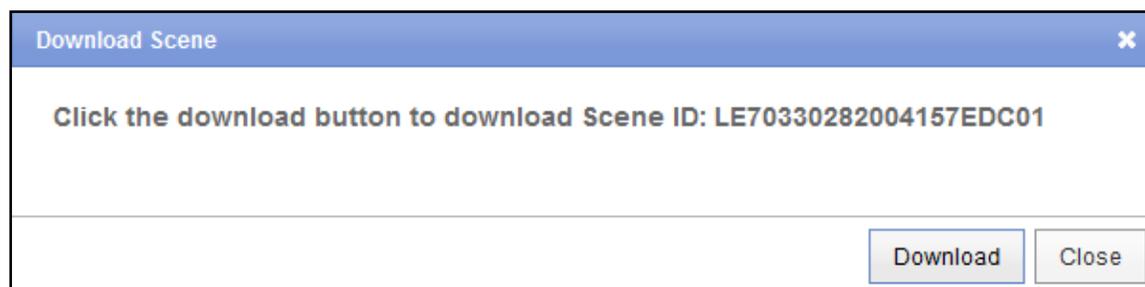
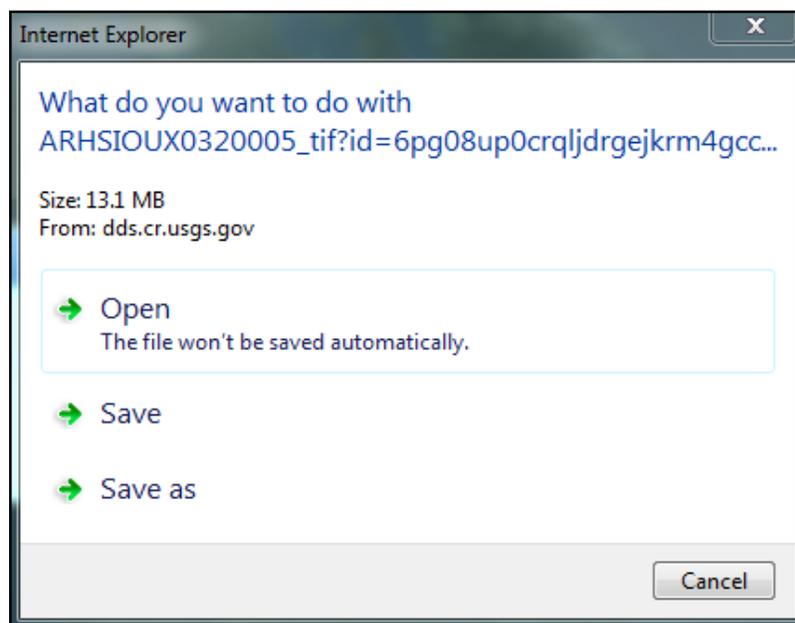


Figure 11 - Download Scene



The Browser Download box displays (Figure 12). Click “Save” to save the file to your computer.

Figure 12 - Save

Bulk download - Click the “Bulk Download” icon  to set up a bulk download order (Figure 13). The images selected will be added to the Item Basket.

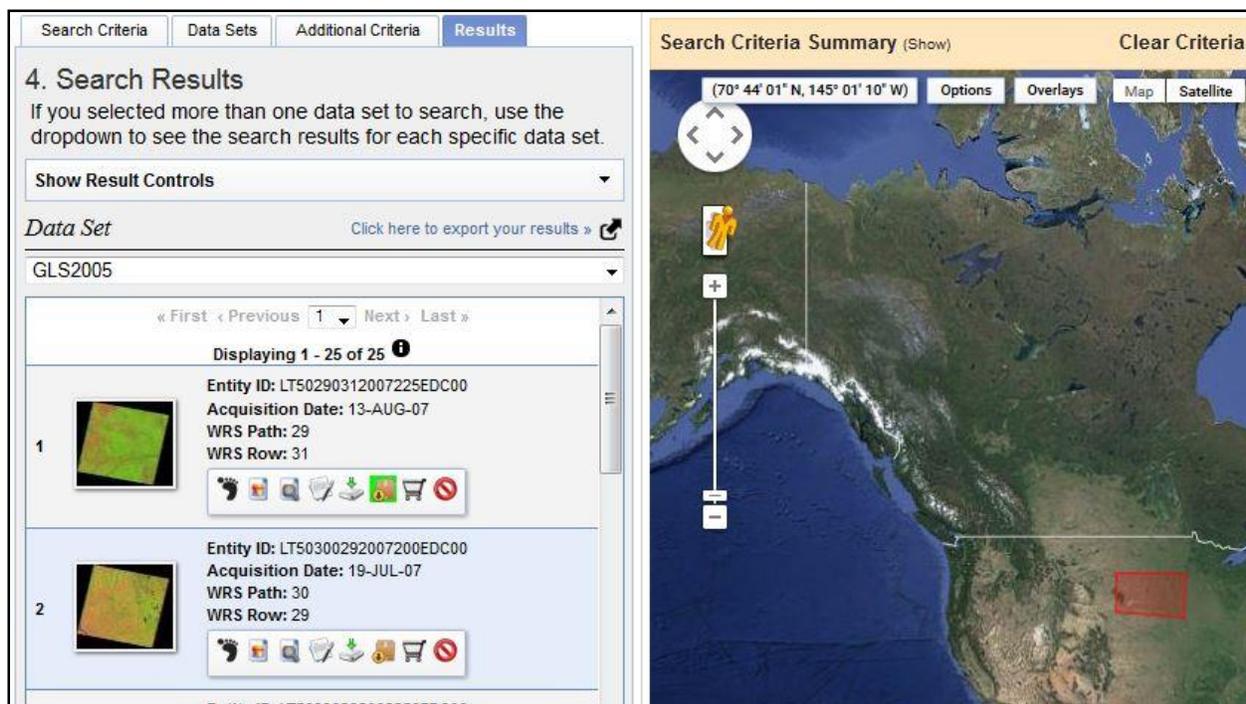


Figure 13 - Bulk Download Selected

Click the “Item Basket” in the menu, to display the Bulk Download Item Basket (Figure 14).

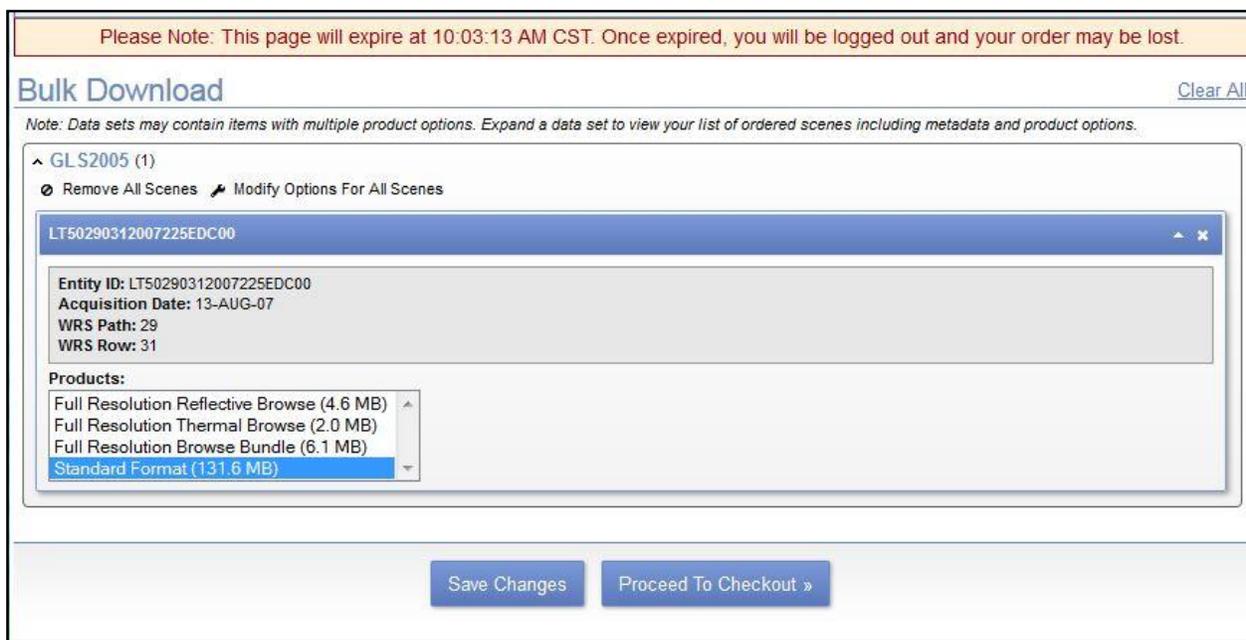


Figure 14 - Bulk Download Item Basket

Expand the data set to view the list of ordered scenes and product options. Based on the dataset, multiple options may be available, select the type of product options to download. Select “Modify Options for All Scenes” to change the type of product to download for the entire order (Figure 15).

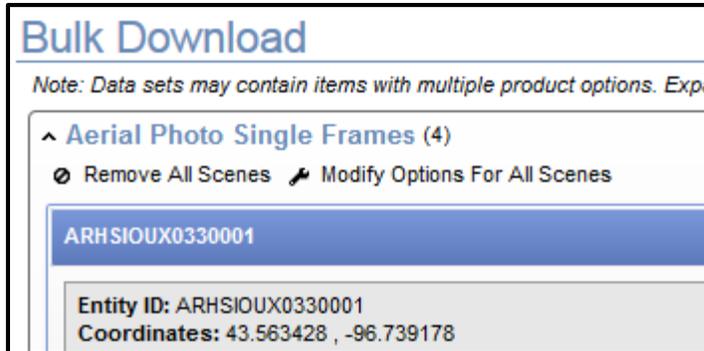


Figure 15 - Remove or Modify Options

After identifying the desired product(s), click “Proceed to Checkout”, then review the bulk order request.

Select the 'Submit Order' button to submit the bulk order for processing (Figure 16).



Figure 16 - Bulk Download Basket

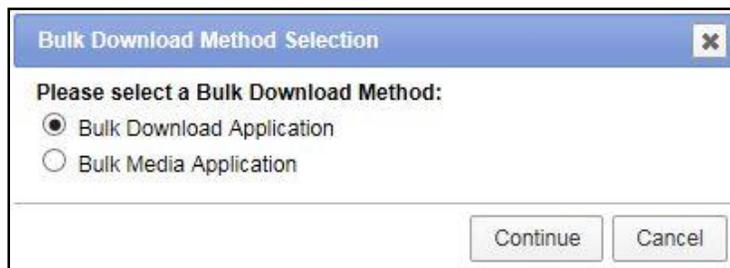


Figure 17 – Bulk Download Method

Bulk Download Method -

- Bulk Download Application
- Bulk Media Application

To begin the download process, the Bulk Download Application (BDA) <http://earthexplorer.usgs.gov/bulk/> is required. **First time users:** please download, install and open the BDA. **Returning users:** please open the

BDA installed on your system. You will be required to login using the EE username and password used to complete your bulk download request.

Home 1 New System Message Item Basket (0) skautz Feedback Help

Bulk Download

Your Bulk Download order number 528166 has been received. A notification has also been sent to the email provided in your USGS Registration profile. **To begin the download process, the Bulk Download Application (BDA) is required. First time users: please download, install and open the BDA. Returning users: please open the BDA installed on your system.** You will be required to login using the EarthExplorer username and password used to complete your download request. Information and installation links can also be found at <http://earthexplorer.usgs.gov/bulk>

If your order is Available, highlight the order number and click Select Order. On the next page, navigate to the download destination, make changes as you see fit for your system, highlight the first item in the list, and click Begin Download. When all items are downloaded you can select another order or close the window. The system will also keep track of failed downloads and retry them.

Bulk download orders are available for two weeks, after which they are removed. You will need to place a new order to obtain data products if you do not download them from original order.

Data Set	Scenes	File Size
Aerial Photo Single Frames	3	65.1 MB
Total:	3	65.1 MB

[Return To EarthExplorer](#)

Figure 18 - Bulk Download

Home 1 New System Message Item Basket (0) skautz Feedback Help

USGS Online Bulk Media Order Confirmation — 528145

Thank you for submitting a Bulk Media order. This order will be active for one month. If you cannot provide the necessary drives within that time limit, please contact customer services at the address below. After one month of inactivity, your order will be subject to deletion.

Media Drive Submission

To receive bulk data, we require you to supply the external hard drive(s), within the specifications listed below, and pay for shipping to Sioux Falls, SD and their return to you via FEDEX or a UPS account. USGS/EROS can not accept payment for shipping fees or drives.

Turn around time may take up to 4 weeks upon receipt of your drive; no guarantee or priority service available. Delivery time may vary, depending on the workload at the time of your request. Drives are reformatted to NTSF format and **any data already on the external hard drive will be lost.** EROS will place content labels on drives.

All correspondence must include your order confirmation number. Your shipment to USGS/EROS must include: external hard drive(s), this order summary email, a return shipping address, and return shipping FEDEX or a UPS account number or label(s).

No warranty expressed or implied is made by the USGS regarding the condition of received or distributed external hard drives. The USGS shall not be liable for any received or distributed damaged external hard drives. These data have been processed successfully on a computer system at the USGS, no warranty expressed or implied is made by the USGS regarding the use of the data on any other system, nor does the act of distribution constitute any such warranty. Data may have been compiled from various outside sources. The information may be updated without notification. The USGS shall not be liable for any activity involving these data, installation, fitness of the data for a particular purpose, its use, or analyses results. Any questions, please contact fta@usgs.gov.

Hard Drive Restrictions: USB 3.0 and USB 2.0 interfaces only between 120GB and 2TB. For orders larger than 2TB multiple drives are required.
Hard Drive Specifications: Cache Buffer of 8 megabits or higher with spin rate of 7,200 RPM
Incompatible Hard Drives: My Book Premium

Mailing Address
 Attention: Bulk Media Area 600
 528145
 USGS/EROS Center
 47914 252nd Street
 Sioux Falls, SD 57198-0001

Data Set	Scenes	File Size
Aerial Photo Single Frames	3	65.1 MB
Total:	3	65.1 MB

Note: Hard disk manufacturers use a base 10 notation when describing drive capacity. Total order size is calculated in base 2 notation. Therefore, the hard drive capacity requirements will not match your total order size. Please use the hard drive capacity requirement listed below, otherwise **order data may not fit on your drive(s) and will not be included in the returned drive(s).** Please see the Media Drive Submission section detailed above for additional restrictions on drives.

Minimum Hard Drive(s) Total Capacity Required: 75.1 MB

[Return To EarthExplorer](#)

Figure 19 - Bulk Media Download

Order Controls - The majority of the products available through EE for registered users are available via download. In some cases, order requests are available for selected products. Ordering products usually requires some specialized image or data processing. If a dataset has an option for ordering, the "Order Scene" icon  displays. This option allows registered users to order or request specialized processing on certain products. The 'Order Scene' icon is greyed out unless you are registered and logged in. In addition, a few products require a small fee for the cost of processing.

Click the 'Order Scene' icon to add the selected scene to the 'Item Basket'. As each scene is added to the 'Item Selection' basket on the menu bar, the number of scenes added to the basket is updated and the 'Order Scene' icon changes to green (Figure 20).

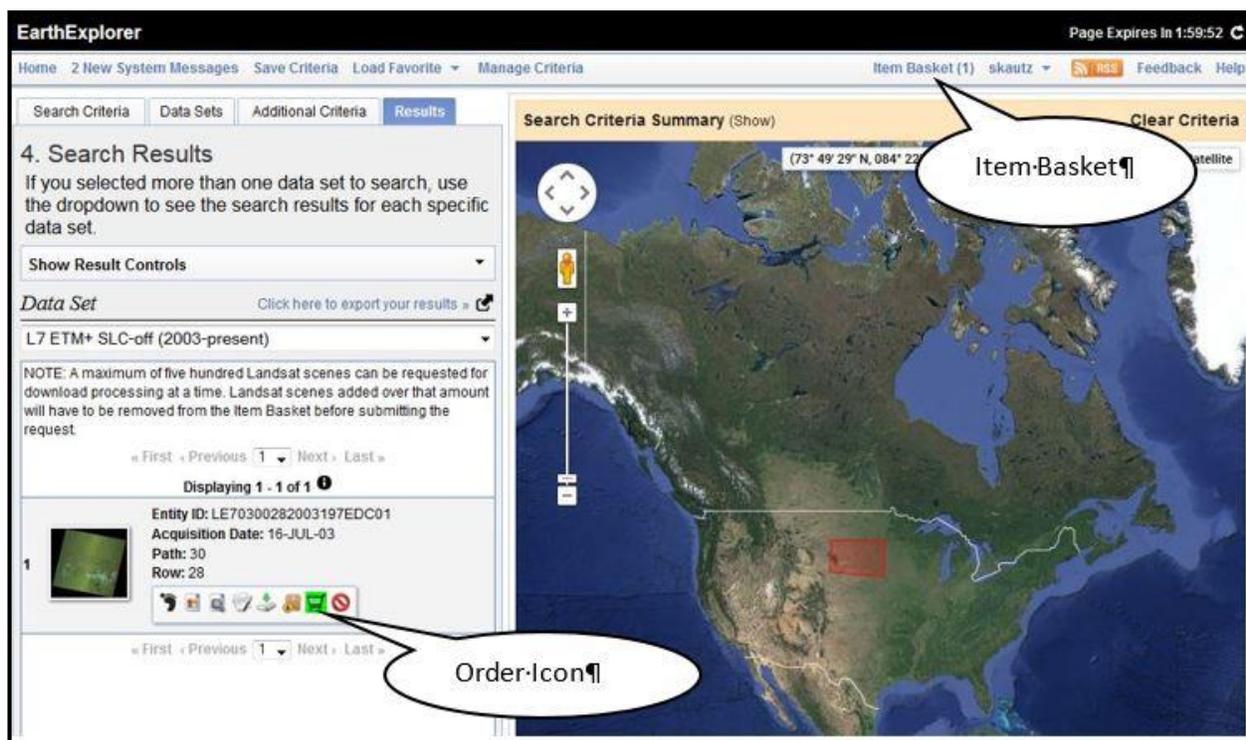


Figure 20 - Order Scene

In some cases, additional ordering parameters may be required to complete an order. To view items in the Item Basket, click 'Item Basket' in the menu bar or the 'View Item Basket'  button at the bottom of the results page.

In the following example (Figure 21), the first item is for an Aerial Photo Single Frame scanning request. There is one option for the micron size of processing parameters. The cost of scanning is \$30 per scene.

The second item is a request for a Landsat 7 Enhanced Thematic Mapper Plus (ETM+) Level 0, Scan Line Corrector (SLC) OFF On-Demand product. Processing parameters are not available for this product; this item is at no cost.

Order [Clear All](#)

Note: Data sets may contain items with multiple product options. Expand a data set to view your list of ordered scenes including metadata and product options.

^ **Aerial Photo Single Frames (1)**
 Remove All Scenes Modify Options For All Scenes

AR1CE0000030050 [Close]

Entity ID: AR1CE0000030050
Coordinates: 42.645234 , -98.435477
Acquisition Date: 30-DEC-46
Scale: 27200

Product: High Resolution Scanned 9 X 9 in. [v]
Options: 25 Micron [v]
Output Media: DWNLD
Price: \$30.00

^ **L7 ETM+ SLC-off (2003-present) Level 0 (2)**
 Remove All Scenes Modify Options For All Scenes

LE70280312003199EDC02 [Close]

Entity ID: LE70280312003199EDC02
Coordinates: 41.7572 , -96.1515
Path: 28
Row: 31
Acquisition Date: 18-JUL-03

Product: L7 SLC-OFF (2003-present) Level 0 [v]
Options: None
Output Media: DWNLD

LE70330282003202EDC01 [Close]

Entity ID: LE70330282003202EDC01
Coordinates: 46.0287 , -102.388
Path: 33
Row: 28
Acquisition Date: 21-JUL-03

Product: L7 SLC-OFF (2003-present) Level 0 [v]
Options: None
Output Media: DWNLD

Figure 21 - Item Basket

The overall cost is \$30 for the scanned product with a \$5 handling fee per order.

Click 'Submit Order' to submit the order for processing. You will receive a confirmation email. The Checkout Summary page displays and you can print or save this summary for your records (Figure 22).

Order

Data Set	Qty.	Price
Aerial Photo Single Frames	1	\$ 30.00
L7 ETM+ SLC-off (2003-present) Level 0	2	\$ 0.00
Subtotal:		\$ 30.00
Handling Fee:		\$ 5.00
Order Total:		\$ 35.00

Figure 22 - Checkout Summary

Ordering Aerial Photography provides a method for downloading scenes from an entire roll of film. Select the roll icon  to 'View Related Scenes' to display all of the images that were acquired for the selected scenes roll (Figure 23). These results will show all frames on a roll of film, including untitled images without coordinates.



Figure 23 - View Related Scenes

For each scene on the roll, you can download, add to a bulk order, or order images.

Browse and Metadata - EE displays a thumbnail image, browse, and detailed metadata information for each scene returned from a search (Figure 24).

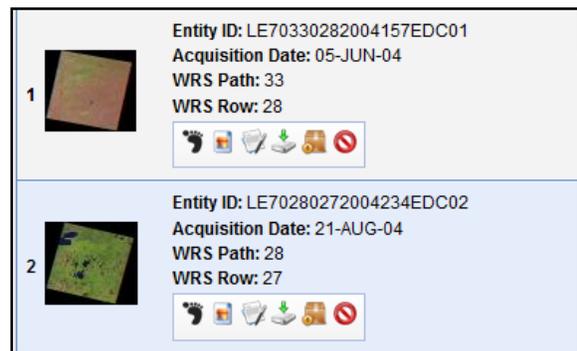


Figure 24 - Scene Level Results

Show Browse and Metadata - On the thumbnail, mouse over to display the 'Show Browse and Metadata' (Figure 25).

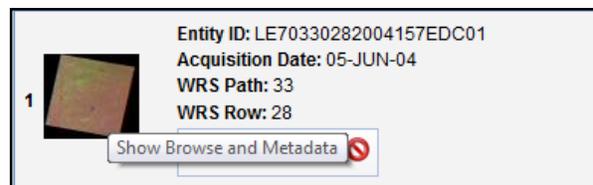


Figure 25 - Show Browse and Metadata

Click the thumbnail image or the 'Show Metadata and Browse' (🖼️) icon to display the reduced resolution browse image and full metadata for the selected scene (Figure 26).

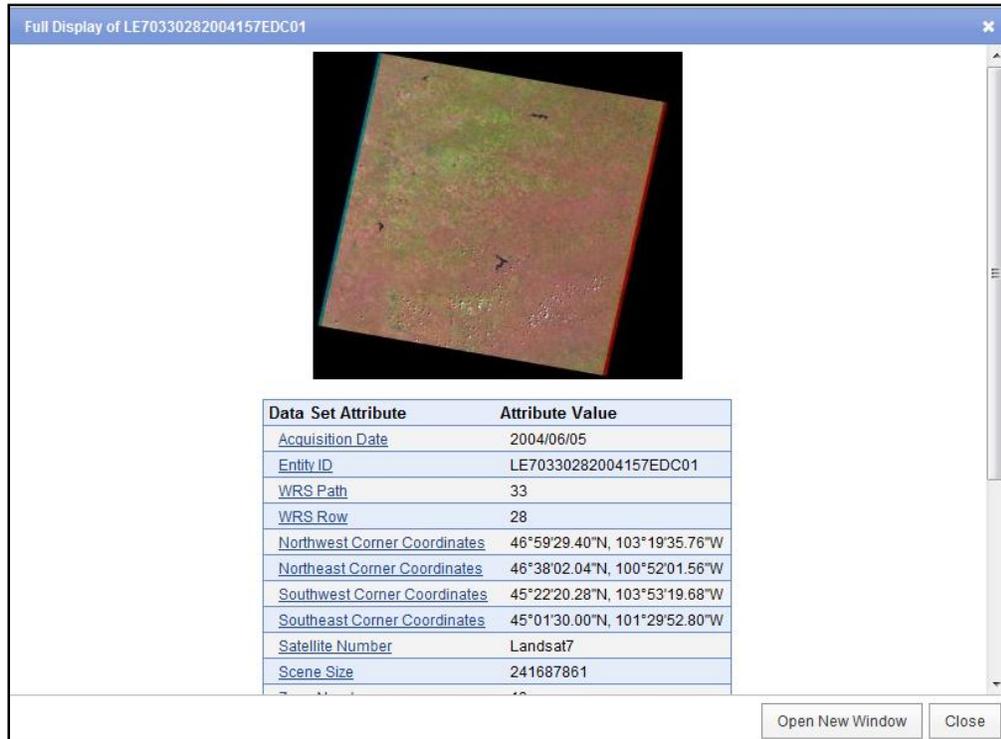


Figure 26 - Browse and Metadata View

The Browse and Metadata view includes the following:

Standard Browse - The Browse image of the selected scene displays at the top center of the lightbox display.

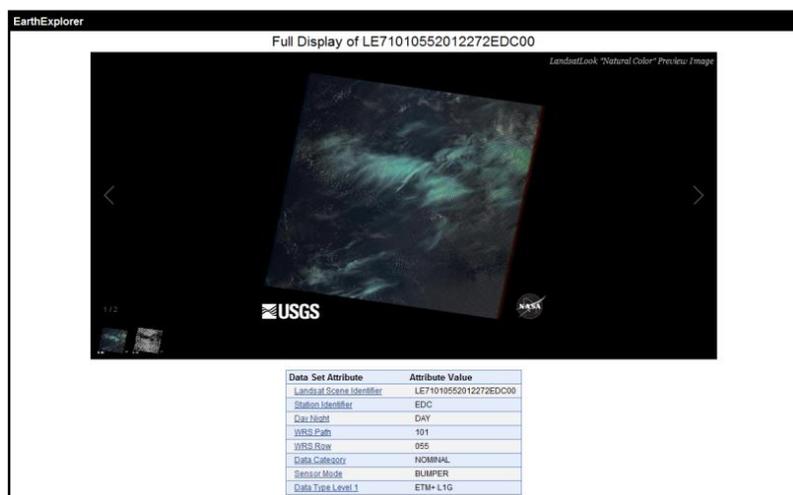


Figure 27 - Full Display

If multiple browse areas are available for the image, an image control is displayed to allow viewing multiple browse images.

Figure 27 is an example of multiple browse for an image. Each available image displays as a thumbnail in the lower left corner of the display. To switch between browse, click the arrow (<>) or click one of the thumbnails at the lower left corner for the page.

Data Set Attributes - Each dataset has unique attributes describing the metadata associated with the scene. Each attribute has a hyperlink to the data dictionary to provide detailed information on that particular dataset.

Open New Window - Click 'Open New Window' to display the selected browse in a separate window.

FGDC Format - Click the 'FGDC Format' button at the bottom of the Data Set Attributes screen to display the metadata in the Federal Geographic Data Committee (FGDC) format. Scroll down to the bottom of the FGDC view and Click 'Table Format' to return to the 'Browse and Metadata' view (Figure 28).



Figure 28 - FGDC Format

Display Controls

The EE user interface controls on the Search Results Display include:

Scroll bar - Click to view additional items returned from the search.

Displaying Number of Results Per Page - The default 'Results per Page' is ten records.

To show more results on the page, change the 'Results per Page' in the 'User Profile' to a higher number of returns. The 'User Profile' requires you to be registered. Additional information on the 'User Profile' is covered in more detail in the Profile Section.



Figure 29 - Default Search Results

Information icon (i) - Click to see the number of records in the dataset. Figure 29 provides an example. search that returned 50 of 50 records.



Figure 30 - Total Search Results

Figure 30 shows the total number of items in the dataset (1,036,237).

To modify the number of search results, go to “Settings” found under your username on the EE menu. Select “Interface Options” “Results per Page”, increase the results shown on each page (Figure 31).

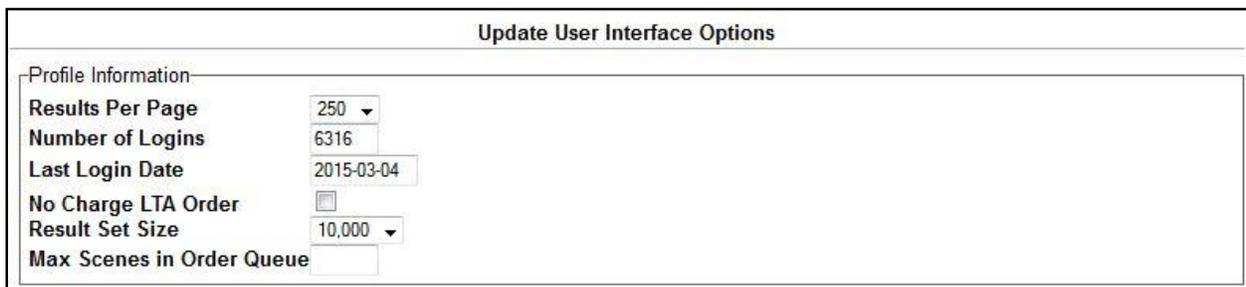


Figure 31 - Update User Interface Options

You can also increase the “Results Set Size”. When done select “Update” at the bottom of the window to save the changes.

Export Metadata

EE provides an option to “Export Metadata” results in a number of popular formats. Select “Click here to export your results” on the results page (Figure 32).



Figure 32 - Export Metadata

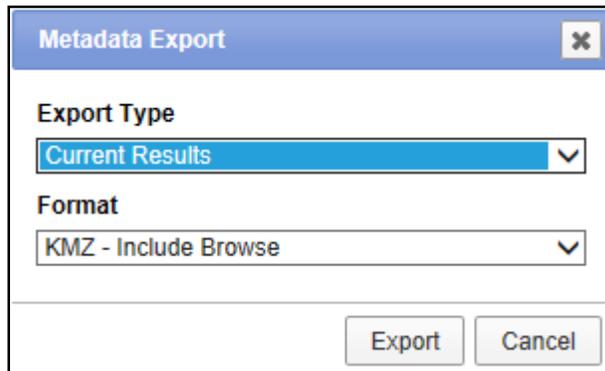


Figure 33- Metadata Export

Export Type –

- Current Results
- Non - Limited Results

Format –

- KMZ - Include Browse
- KMZ - No Browse
- Comma (,) Delimited
- Pipe (|) Delimited
- FGDC
- CSV
- Shapefile

- **KMZ Include Browse** - KMZ files are zipped [.KML](#) files, which make them easier to distribute and share with multiple users. Please note that exports with a large number of browse images will take longer to load in a GIS software package or mapping application.
- **KMZ No Browse** - KMZ files are zipped [.KML](#) files, which make them easier to distribute and share with multiple users.
- **Comma Delimited** - Generates a .txt file with a comma delimiter for the results from a search. The information includes the full metadata as displayed in the lightbox.
- **Pipe Delimited** - Generates a .txt file with a pipe delimiter for the results from a search. The information includes the full metadata as displayed in the lightbox.
- **FGDC** - Generates a FGDC format file in ISO 19115 format.
- **CSV** - Creates a comma-separated values (CSV) file containing the full metadata as displayed in the lightbox.
- **Shapefile** - Generates a .zip file with the returned, non-excluded results from a search. Files included in the .zip file include a .shp, .shx, .dbf, and .prj. Shapefiles are generated using the ERSI standards. Limited metadata is included with this export. **This export is not available for result sets larger than 1000 results.**

You will receive an 'USGS EE Metadata Export email with a link to download your data. This link will expire after 72 hours. If the file cannot be downloaded within this time frame, you will need to submit another export request. Please note: large exports can take several minutes to load in some software packages.