View Results

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

| Search Criteria | Data Sets | Additional Criteria | 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 map interface with the identified area of interest (Figure 2).
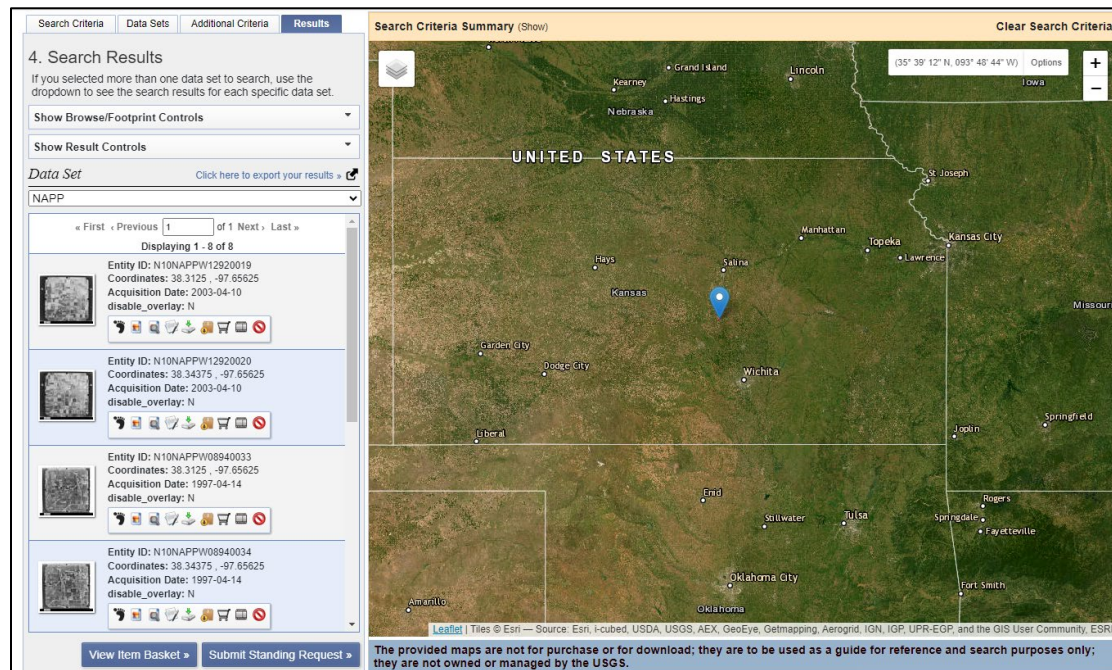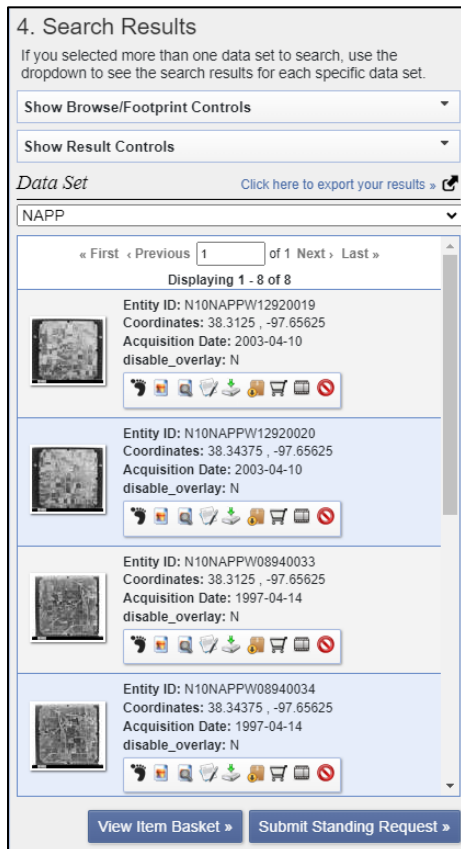

Figure 2 - Results

The Search Results panel includes the following components:

- Search Results
- Show Browse/Footprint Controls
- Show Results Controls
- Scene level result controls
- Map Interface
- Export Metadata

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).

Figure 3 - Search Results

EarthExplorer (EE) searches multiple data sets; (Figure 4) the results of the first data set display in the results panel.

Use the 'Data Set' selection box to select and view each additional data set.
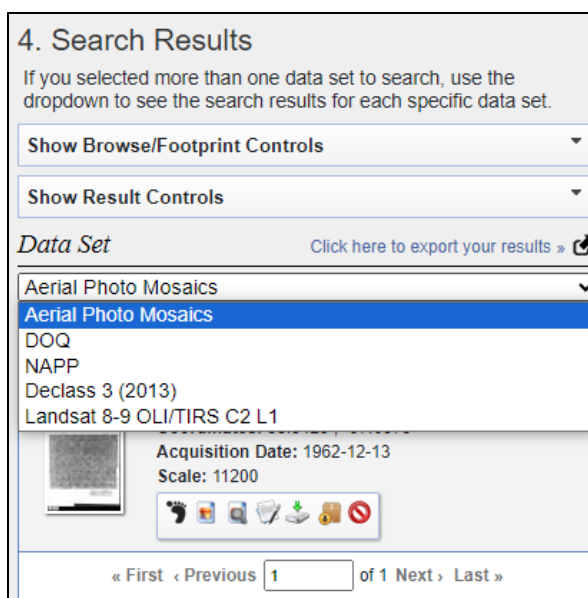
Figure 4 – Data Set

Show Browse/Footprint Overlay Controls (Figure 5) --

Figure 5 – Controls Options

The Browse/Footprint Control options consist of placing a visual on the map.
Dropdown provides the following options:

- **Show All Footprints from Current Result Page** – Displays footprints on the map interface.
- **Show All Browse from Current Result Page**
- **Compare Browse** - Map Overlay All Scenes
- **Browse Overlay Opacity** -- slider adjusts the opacity level of the overlay browse images. You must be logged in for all options to be displayed.
- **Default Browse Overlay Option (Visualization Only) --** Users can set a default and a secondary browse overlay within the Show Result Controls.
- **Alternate Browse Overlay Option (Visualization Only) --** Users can apply browse overlay for an individual scene/image in the Scene Level Results Controls.

Default Browse Overlay Option (Visualization Only) and Alternate Browse Overlay Option (Visualization Only). (Figure 6)

Only used for visualization purposes. Browse options are available for products that have more than one browse. Landsat users will need to download the individual bands and create the composite in their own tools. To learn more about different Landsat band combinations go to: https://www.usgs.gov/landsat-missions/landsat-surface-reflectance-derived-spectral-indices
Users can set a default and a secondary browse overlay within the Show Browse/Footprint Overlay Controls. This option would apply the selected browse for all scenes/images in the result page.
Note that if a result scene/image only offers one Browse Overlay, the options for browse overlay does not apply.
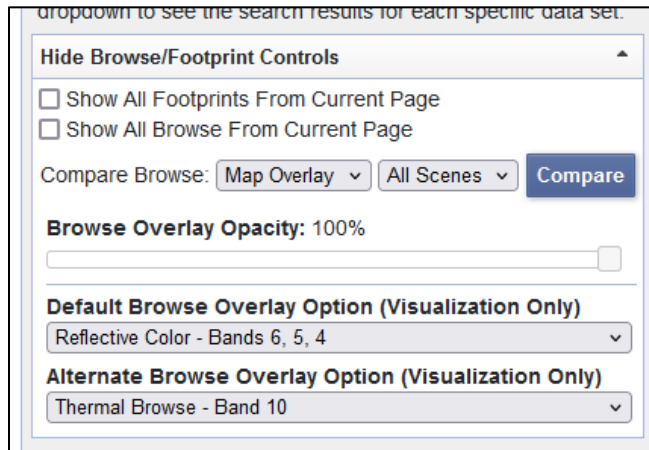
Figure 6 – Browse/Footprint Overlay Controls

Browse Overlay Options

Default Browse Overlay Option (Visualization Only) will be applied to all scenes of the results listing. The dropdown will display the options available for the results. (Figure 7) The browse overlay available depends on the data set.
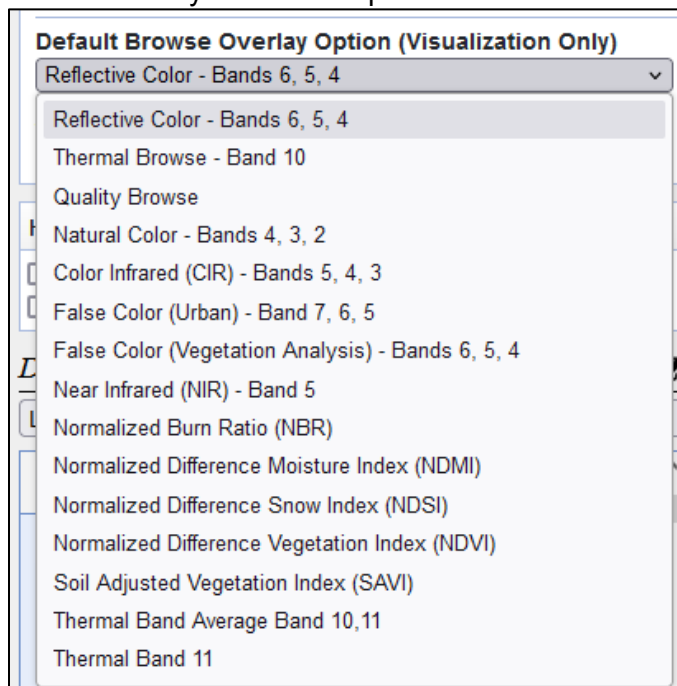
Figure 7 – Default Browse Overlay Option (Visualization Only)

For data sets that only have one browse overlay available the Default Browse Overlay Option and Alternate Browse Overlay Option with not be listed. (Figure 8)

Figure 8 – No Default Browse Overlay Option

Alternative Browse Overlay Option will be applied to all scenes of the results listing only if the Default Browse Overlay does not exist. Then the alternate will be applied. The dropdown will display the options available for the results. The browse overlay available depends on the data set. (Figure 9)

Figure 9 - Alternate Browse Overlay Option (Visualization Only)

Show Results Controls (Figure 5) – Contains the options for result page order controls.
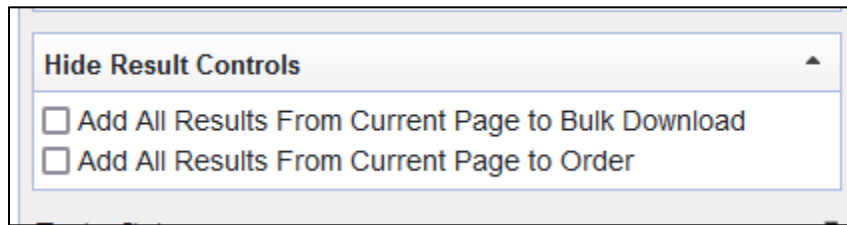
Figure 11 – Results Controls

Add All Results from Current Page to Bulk Download – Clicking this option will add the results on the current page to item basket for Bulk Download. (Figure 11)
Add All Results from Current Page to Order – Clicking this option will add the orderable data, i.e. data that needs extra processing, to the item basket. (Figure 11)

Export Metadata
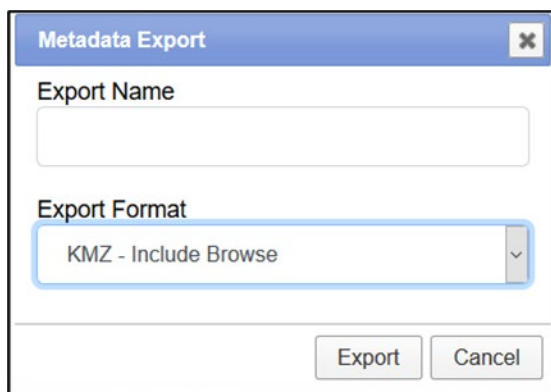
EE provides an option to "Export Metadata" results in number of popular formats. Select "Click here to export your results" on the results page (Figure 12).
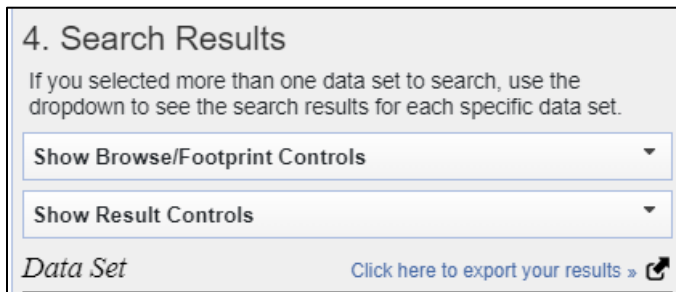
Figure 12 – Export Metadata

Export Name – Figure 13
- Type in desired name or leave blank.

Figure 13 – Export Name

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 many 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.

You will receive an 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.

Displaying Results – For the selected dataset, displays the number of results per page, along with total number of search results. (Figure 14)
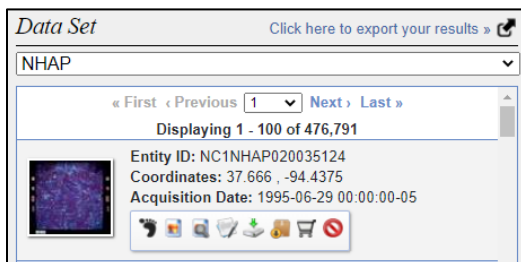

Figure 14 - Displaying Results

Results - Include a thumbnail image and attribute information on each scene. Based on the data set and user profile, some controls may not be available (Figure 15).
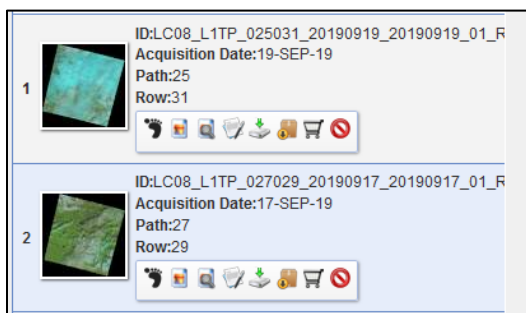

Figure 15 – Example Scene Results

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

Show Footprint - Click the "Show Footprint" icon to display the footprint of the selected scenes on the map interface (Figure 16). When you click on the footprint, a colored box appears around the footprint. The same color map appears on the map. This represents the area covered by this image. 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.
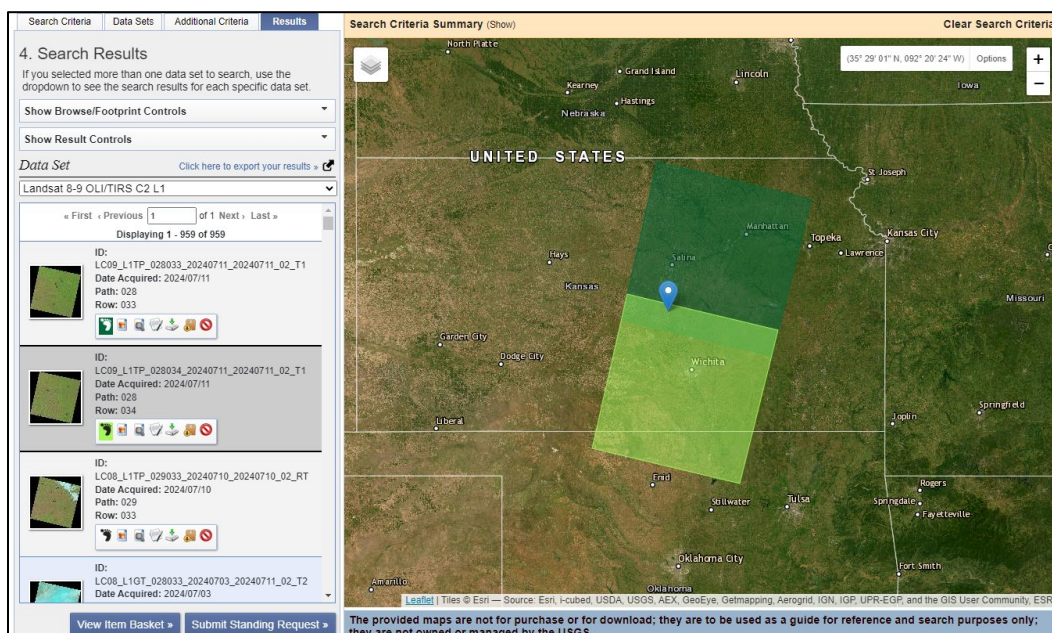

Figure 16 - Footprint Overlay

Show Browse Overlay - Click the "Show Browse Overlay" icon to display a preview image (browse) of the scene on the map (Figure 17). When you click on the browse, a green colored box appears around the browse overlay icon. Click the highlighted icon to turn off the browse option. Multiple browses can be selected and displayed on the map.

There are different band combinations available for the Browse Overlay. (Not available as a downloadable product). To change what browse overlay combination to utilize on

the map, Right Click on the Show Browse Overlay icon and two options are displayed. First is the capability to center the browse overlay onto that scene. Second is the Overlay Types. Click on Overlay Types and a list of available browses for
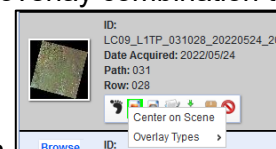
that scene displays. (Figure 17) Choose the desired browse overlay. Products with only one browse will not have an Overlay Types option.
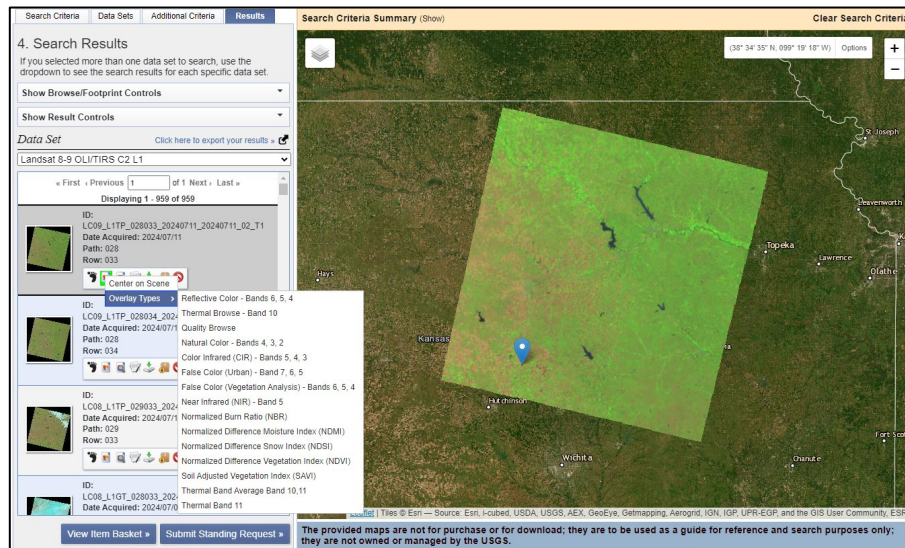
**Figure 17 – Browse Overlay**

Compare Browse - Click the "Compare [icon] 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] icon to display the browse image and full metadata for the selected scene. (Figure 18)
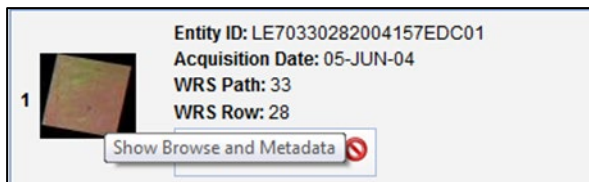
**Figure 18 – Show Browse and Metadata**

Show Metadata and Browse - Click the thumbnail image or the 'Show Metadata and Browse' [icon]) icon to display the reduced resolution browse image and full metadata for the selected scene (Figure 19).
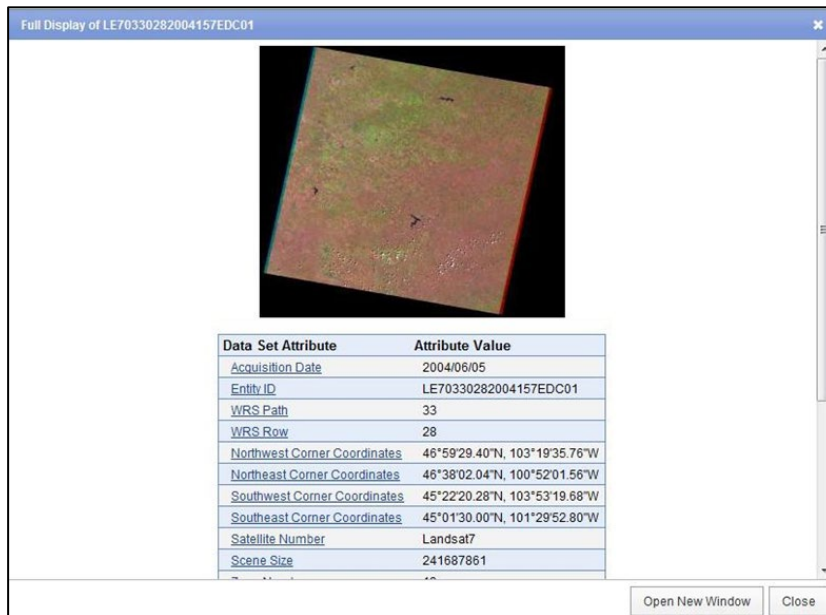
Figure 19 – Browse and Metadate View

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 20)
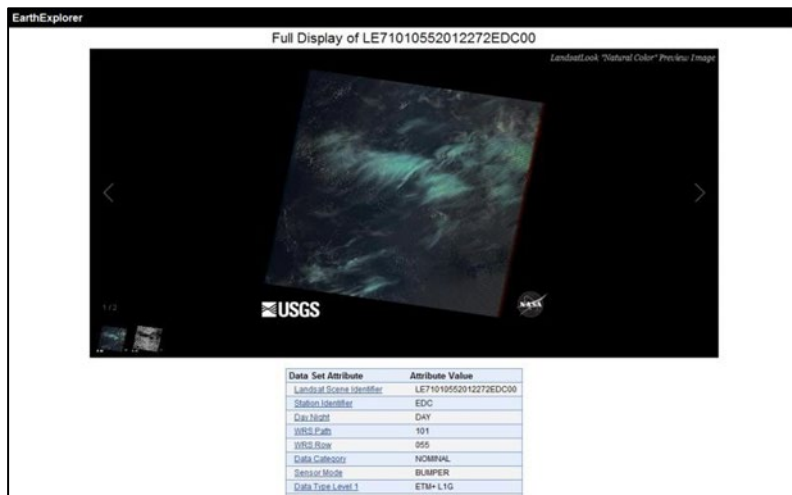
Figure 20 - Full Display

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

Figure 20 is an example of multiple browses for an image. Each available image displays as a thumbnail in the lower left corner of the display. To switch between browses, click the arrow (<>) or click one of the thumbnails at the lower left corner for the page.

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

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 21).
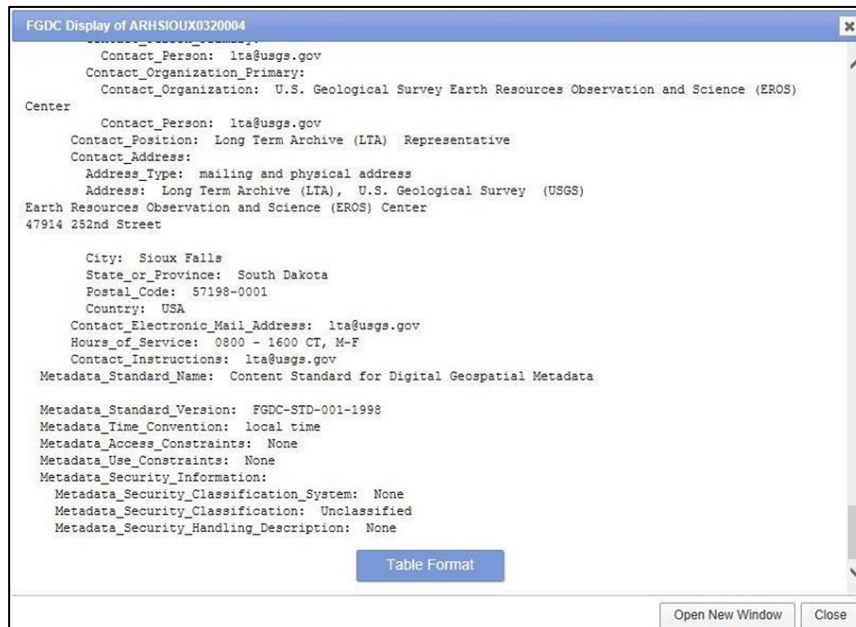

Figure 21 - FGDC Format

Download Options – The Download Options' icon is greyed out unless you are

registered and logged in. Click the "Download Options" icon to download the selected data.

After logging in, click the "Download Options" icon , displays the download options for the data set (Figure 22).

Figure 22 – Download Options

Depending on the data set, multiple download options may be available. Click "Download" to start the download process. (Figure 23)
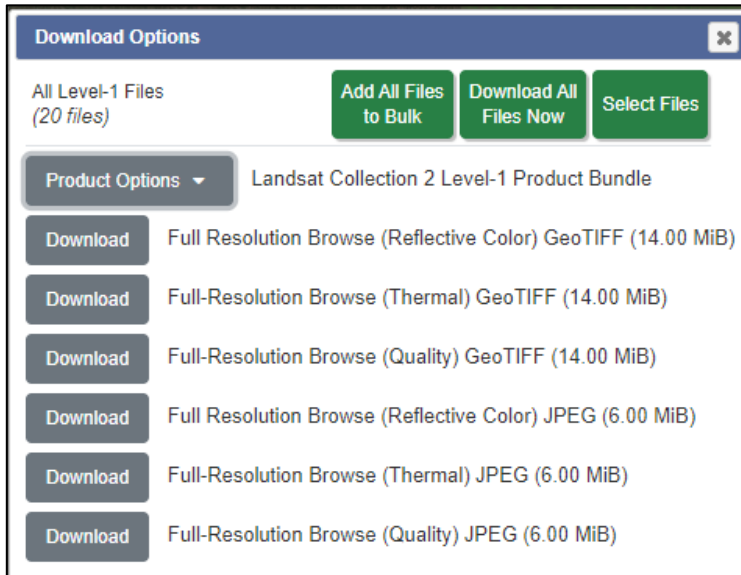
Figure 23 – Download Scene

The Web Browser Download box displays (Figure 24). Click "Save" to save the file to your computer.
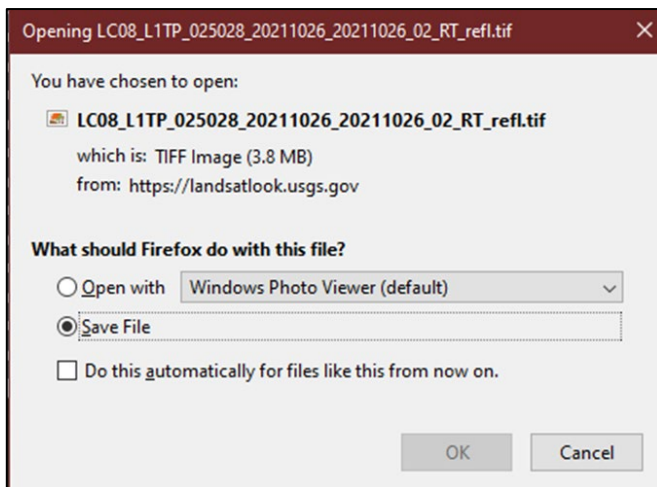

Figure 24 - Save

Order Controls - 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 (OnDemand Orders). If a data set has an option for ordering, the "Order Scene" icon [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.
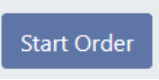
Click the 'Order Scene' icon to add the selected scene to the 'Item Basket'. As each scene is added to the 'Item Basket' on the menu bar, the number of scenes added to the basket is updated and the 'Order Scene' icon changes to green (Figure 25).
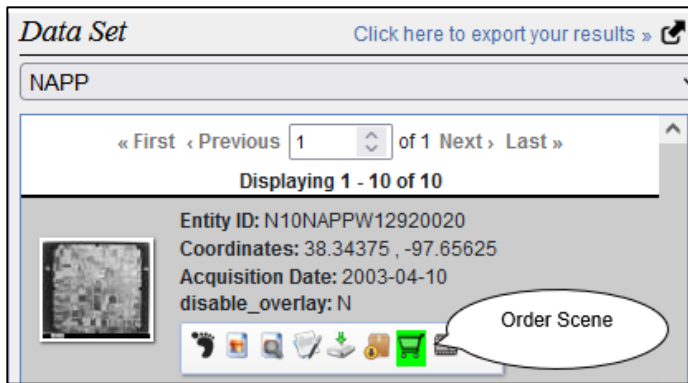
Figure 25 - Order Scene

In some cases, additional ordering parameters may be required to complete an order. View items in the Item Basket, click 'Item Basket' in the menu bar

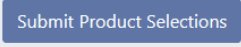 or the 'View Item Basket' button at the bottom of the results page.

Click 'Start Order' ( ) to view the products in the item basket. Then click the dropdown next ( ) to the product to view the additional parameters (Figure 26).
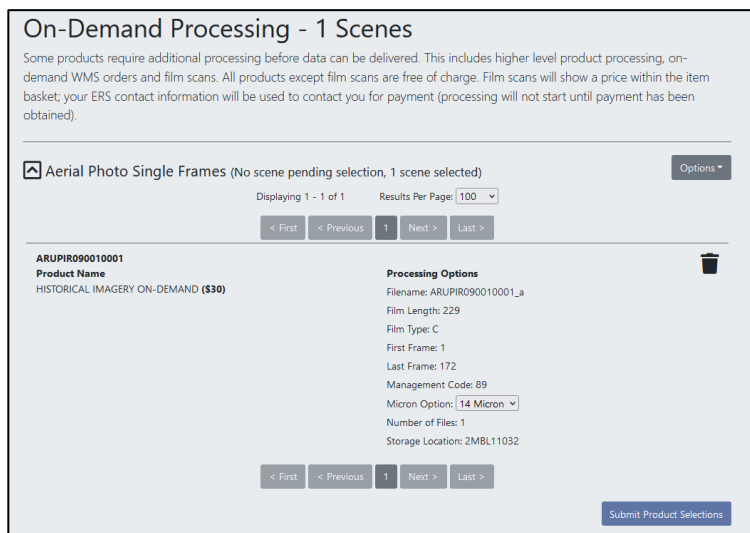

Figure 26 – Additional Parameters

High Resolution Film scans black and white (BW) images are scanned at 7 microns (3,600 dots per inch (dpi)). Color images are scanned at 14 micron (1,800 dot per inch (dpi)) due to file size.

The overall cost is $30 for each high-resolution scanned product with a $5 handling fee per order.

Click 'Submit Product Selections' ( ) to submit the order for processing.
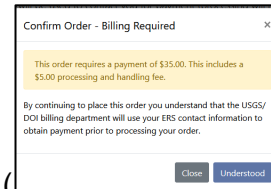
Confirm the order with the cost information to proceed. ( ) You will receive a confirmation email. The Checkout Summary page displays, and you can print or save this summary for your records (Figure 27).

Figure 27 – Check Out Summary

View Related Scenes - 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 the images that were acquired for the selected scenes roll (Figure 28). These results will show all frames on a roll of film, including untitled images without coordinates.

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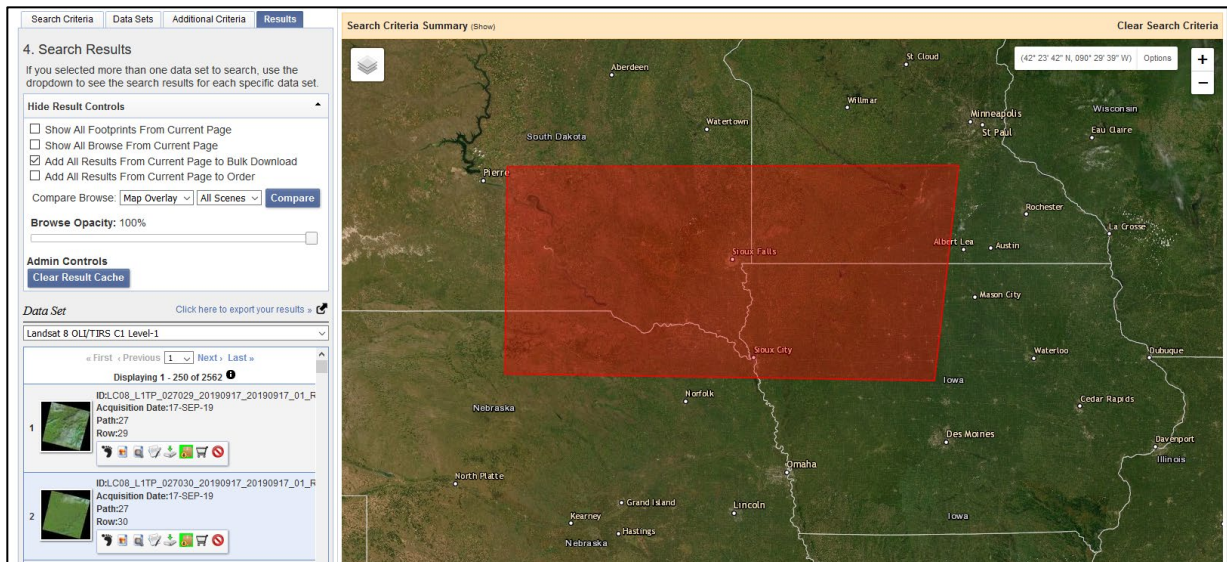

Figure 28 – Selected scenes

Bulk download - Click the "Bulk Download" icon to set up a bulk download order (Figure 29). The images selected will be added to the Item Basket.


Figure 29 – Bulk Download Selected

Click the "Item Basket" on the menu bar or the 'View Item Basket' button at the bottom of the results page.
to display the Bulk Download Item Basket (Figure 30). See the EarthExplorer Bulk Download Web Application Help Document for help with the bulk process.
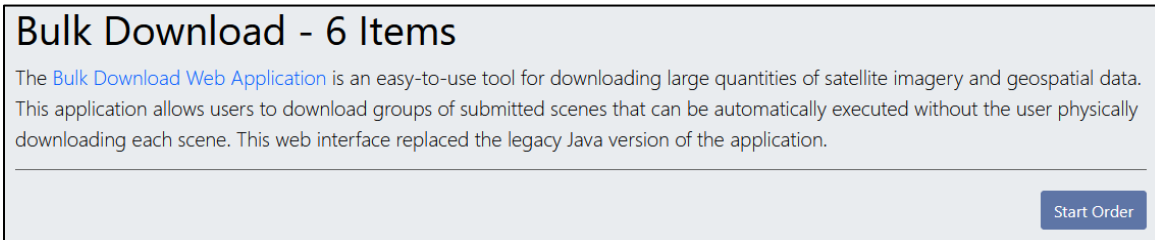
Figure 30 – Bulk Download Item Basket

Exclude Scene – The "Exclude Scene" icon is not visible unless you are registered and logged in. After logging in, click the "Exclude Scene" icon to exclude the scene from the Results page. These data will be excluded from you results page until they are Restored. (Figure 31)
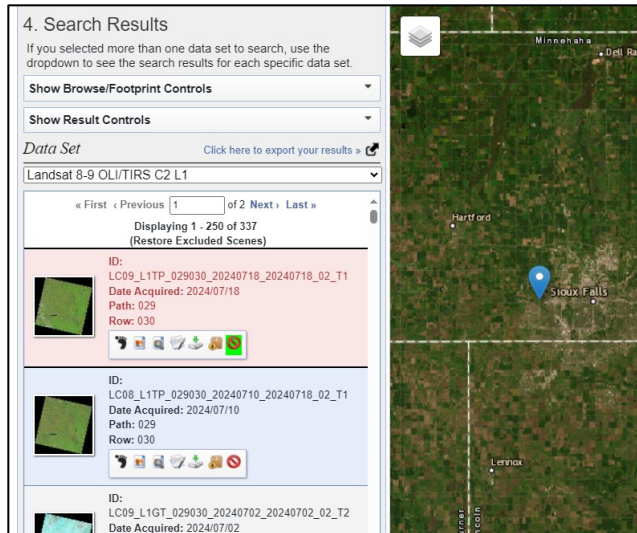
Figure 31 – Exclude/Restore

The results will remain Excluded until they are Restored. To Restore the results. Click the Exclude Scenes from Results.

Some users will abandon their search, come back later, and find not all results are included in the search. The results that were excluded will need to be restored to see them. Enter all parameters of previous search (Search Criteria, Data Sets and/or Additional Criteria), On the Results Tab you will need to select 'Restore Excluded Scenes'. Refresh (CTRL + Shift + R) your screen and the results will be listed again.