



# **Bulk Download Application (HDDS) Help Documentation**

Version 1.0

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### *Document History*

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3	November 2012	Added verification of ports 4446 and 4448
4		
5		
6		

## Table of contents

Document History .....	ii
Table of contents .....	iii
Table of Figures .....	iv
I. Introduction .....	1
A. Key Features .....	1
B. System requirements .....	1
II. HDDS Bulk Order Process .....	3
A. Login .....	3
1. Login Process .....	3
B. Search Interface .....	5
C. Search Results .....	7
D. Bulk Download through the HDDS Results .....	8
III. Installation of Bulk Download Application .....	14
IV. Bulk Download Application User Interface .....	20
A. Bulk Download Login .....	20
B. Bulk Order Selection Form .....	20
C. Bulk Download Manager .....	21
D. Cleanup and Expiration of Orders .....	22
V. Warning Messages and Errors .....	25
Appendix .....	26

## Table of Figures

Figure 1 - Login .....	3
Figure 2 - Login/Password .....	4
Figure 3 - Access Verification.....	4
Figure 4 - HDDS Search Criteria .....	5
Figure 5 – Select Event .....	6
Figure 6 - Example Event Query .....	7
Figure 7 - Search Results - Ingested Data .....	8
Figure 8 - Search Results - Public Ad-hoc .....	8
Figure 9 - Show Result Controls .....	9
Figure 10 - Download Options.....	9
Figure 11 – Item Basket Display .....	10
Figure 12 - Bulk Download All Results .....	10
Figure 13 - Bulk Download Options.....	11
Figure 14 - Item Basket .....	11
Figure 15 - Order Confirmation Dialog .....	12
Figure 16 - Example Bulk Order Confirmation email.....	13
Figure 17 - Bulk Download Application Page.....	14
Figure 18 - Bulk Download Installation Wizard.....	15
Figure 19 - Installation folder .....	16
Figure 20 - Start Menu Folder .....	17
Figure 21 - Installation Complete .....	18
Figure 22 - Bulk Download App Icon on Start Menu .....	18
Figure 23 - Windows Firewall Warning.....	19
Figure 24 - BDA Login Screen .....	20
Figure 25 - BDA Orders Selection Form .....	21
Figure 26 - BDA Manager Form .....	21
Figure 27 – BDA Orders Selection Form.....	23
Figure 28 - Bulk Order Expiration Notice.....	23
Figure 29 - Bulk Download Order Deletion Message.....	24

## I. Introduction

The USGS has been working towards a long term goal of making data available to a wider audience of users. Users are demanding easier ways to get access to the data. To support these requirements the Bulk Download Application has been integrated with the EarthExplorer and HDDS systems to allow users the capability to download data without having to select each data file for download.

The overall goal of Bulk Download Application is to streamline and enhance the capability for delivering bulk data to customers, while also managing the resources that store the data. The EROS Bulk Download service requires the user to use either the EarthExplorer or Hazards Data Distribution System (HDDS) as the front end systems for access to the query systems for the desired data. The Bulk Download Application interfaces with the EROS Mass Storage System and other storage systems to facilitate download of data through a simple JAVA applet.

### A. Key Features

Some of the key features of the Bulk Download App:

- Login/Registration
- Operating System independent
- Simple user interface
- Allow the user to save files to a desired location
- Provide a fast, simple interface for unintended downloads
- Java interface

### B. System requirements

The following are the hardware and software requirements required to use the Bulk Download client:

- Hardware Requirements - Windows
  - 233mhz processor - 2Ghz or better recommended
  - Minimum of 256MB RAM - 4GB recommended
  - Minimum of 20GB of free space - 100GB recommended
  - Display capable of 800x600 with 256 colors, with 32MB of video RAM
  - Mouse
  - Keyboard
- Hardware Requirements – Apple Mac
  - Intel x86 or PowerPC G3, G4, or G5 - 2Ghz or better recommended
  - Minimum of 256MB RAM, 4GB recommended
  - Minimum of 20GB of free space, 100GB recommended
  - Display capable of 800x600 with 256 colors, with 32MB of video RAM
  - Mouse
  - Keyboard
- Hardware Requirements – Linux
  - Intel x86 or 2Ghz or better recommended
  - Minimum of 256MB RAM, 4GB recommended
  - Minimum of 20GB of free space, 100GB recommended
  - Display capable of 800x600 with 256 colors, with 32MB of video RAM
  - Mouse

- Keyboard
- Network Requirements
  - Broadband connection 1.5Mbps
  - 3G network will impact display speed
  - Port 4448 is open to the internet
- Software Requirements
  - Operating System: Windows XP, Windows Vista, Windows 7, Windows Server 2000, Windows Server 2003, Windows Server 2008
  - Mac OS X
  - Unix
  - Linux
  - Solaris

## II. HDDS Bulk Order Process

The Bulk Download Application is available for download through the EarthExplorer and HDDS User Interfaces. The user for bulk download must be a registered user of the HDDS system. In addition, the user's profile must be updated through the administration interface based on USGS approval, to allow the user access for bulk download of data.

### A. Login

The Login process allows the registered user to logon to the HDDS system. As a registered user, you are provided access to additional features within the HDDS system including the ability to request bulk download of data through the Bulk Download Application.

#### 1. Login Process

- a. To Login, select the 'Login' menu item from HDDS menu. (Note: you are automatically logged immediately after you register for the first time).

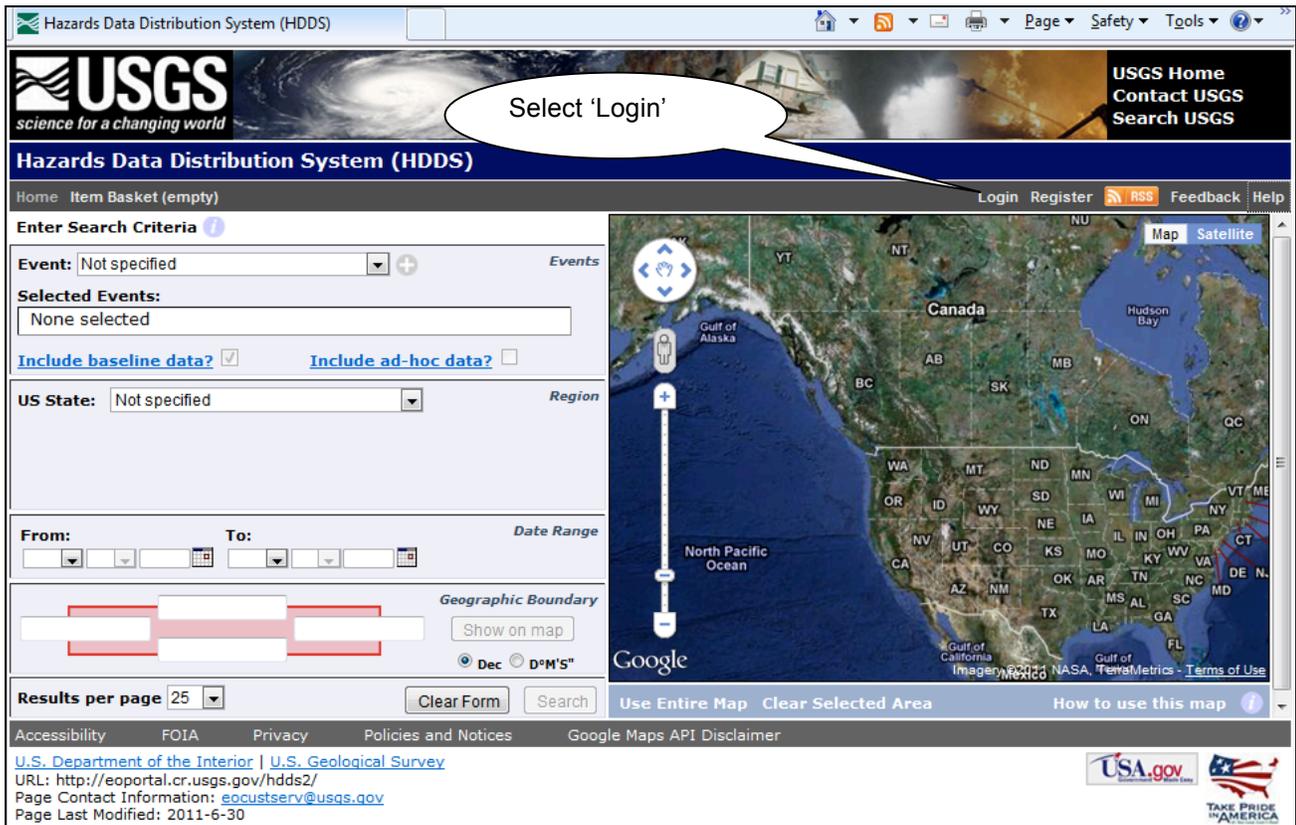


Figure 1 - Login

- b. Fill in Username and Password then select the 'Sign In' button:



When you sign in using your user name and password, information in your profile can be used to access a specific USGS site or to place orders for USGS EROS products.

**Sign in using your USGS registered username and password**

Username:

Password:

[Forgot your password?](#)

**Figure 2 - Login/Password**

- c. Select the [Forgot your password?](#) link to receive directions for updating your password.
- d. The 'Access Verification' form is displayed if the correct login/password is entered.

Hazards Data Distribution System (HDDS)

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science for a changing world

USGS Home  
Contact USGS  
Search USGS

**Hazards Data Distribution System (HDDS)**

Home Logout Access Feedback Help

When you sign into HDDS using your name and password, you can request access to restricted data by event. This page shows your current access status and will be shown whenever your access status changes. You can review your status at any time while logged in by selecting **Access** from the menubar.

**Welcome to HDDS**

---

**You have access to all restricted data**

---

**You can download bulk data**

---

All HDDS restricted data is to be used internally for the event response with no redistribution or public or commercial access.

Thank you.

[Continue to HDDS](#)

[Continue to HDDS](#)

**Figure 3 - Access Verification**

- e. Once you are logged-in additional items will appear in the main menu bar:

Home Item Basket (empty) Logout Access username RSS Feedback Help

After logging in to HDDS, the user is allowed search and download of data based on events.

## B. Search Interface

The Hazards Data Distribution System (HDDS) is a collection of imagery and documents designed to assist in the response to natural and artificial disasters. Like a traditional web-based interface to an imagery archive (such as USGS' Earth Explorer), HDDS provides geographic search capabilities based on latitude and longitude boundaries. The HDDS system is unique because it contains imagery and data that pertains to specific natural and artificial disaster events. HDDS contains imagery acquired in the aftermath of a disaster as well as imagery of the same region before the event.

HDDS includes the following categories of data:

- Pre-event imagery: Imagery processed with the HDDS automated ingest software that is not associated with any particular event.
- Post-event imagery: Imagery processed with the HDDS automated ingest software that is specific to a particular event.
- Post-event ad-hoc data: Raw imagery and documents that have been manually copied into the HDDS archive. This data is specific to a particular event.
- Restricted data: Ingested and ad-hoc data that is licensed by its copyright holder and cannot be distributed without authorization.

The HDDS allows users to search and download through the Search Interface page (Figure 4).

The screenshot displays the USGS Hazards Data Distribution System (HDDS) search interface. At the top, the USGS logo and navigation links (Home, Item Basket, 1 alert, Logout, Access, username, RSS, Feedback, Help) are visible. The main search area is divided into several sections: 'Enter Search Criteria' with an 'Event' dropdown (set to 'Not specified'), 'Selected Events' (set to 'None selected'), and checkboxes for 'include baseline data?' (checked) and 'include ad-hoc data?'. Below this is the 'US State' dropdown (set to 'Not specified'). The 'Date Range' section has 'From' and 'To' date pickers. The 'Geographic Boundary' section includes a red-outlined map preview and a 'Show on map' button. At the bottom of the search form are 'Results per page' (set to 25), 'Clear Form', and 'Search' buttons. On the right, a map of North America is shown with state abbreviations and major geographical features. The map includes a Google logo and copyright information for 2011 NASA, TerraMetrics, and Terms of Use.

Figure 4 - HDDS Search Criteria

HDDS provides three different kinds of search criteria. At least one must be specified. Additional criteria will further refine the result set.

- Events: Select one or more events to find only results that pertain to the specified events.
- Optional additional data for an event:

- Include baseline data: While baseline data is not specific to an event, selecting this option will include all baseline imagery that covers the same geographic area as the event-specific results.
- Include ad-hoc data: Include in the search results any ad-hoc, or manually assembled documents, that pertain to the specified events.
- Region: When searching for data in the United States, you can specify any subdivision from entire states to specific counties. Ingested imagery results will be limited to the specified areas.
- Date Range: You can use the date range filter to limit the ingested search results to a specific date range based on the acquisition date.
- Geographic Boundary: In addition to state and county searches, you can specify a latitude/longitude boundary area of interest. Only data that overlaps the specified area will be returned.
  - Use the Show on map button to highlight the selected area on the map.
  - You can enter coordinates in floating point or DMS notation.
  - You can also select a region using the map interface.

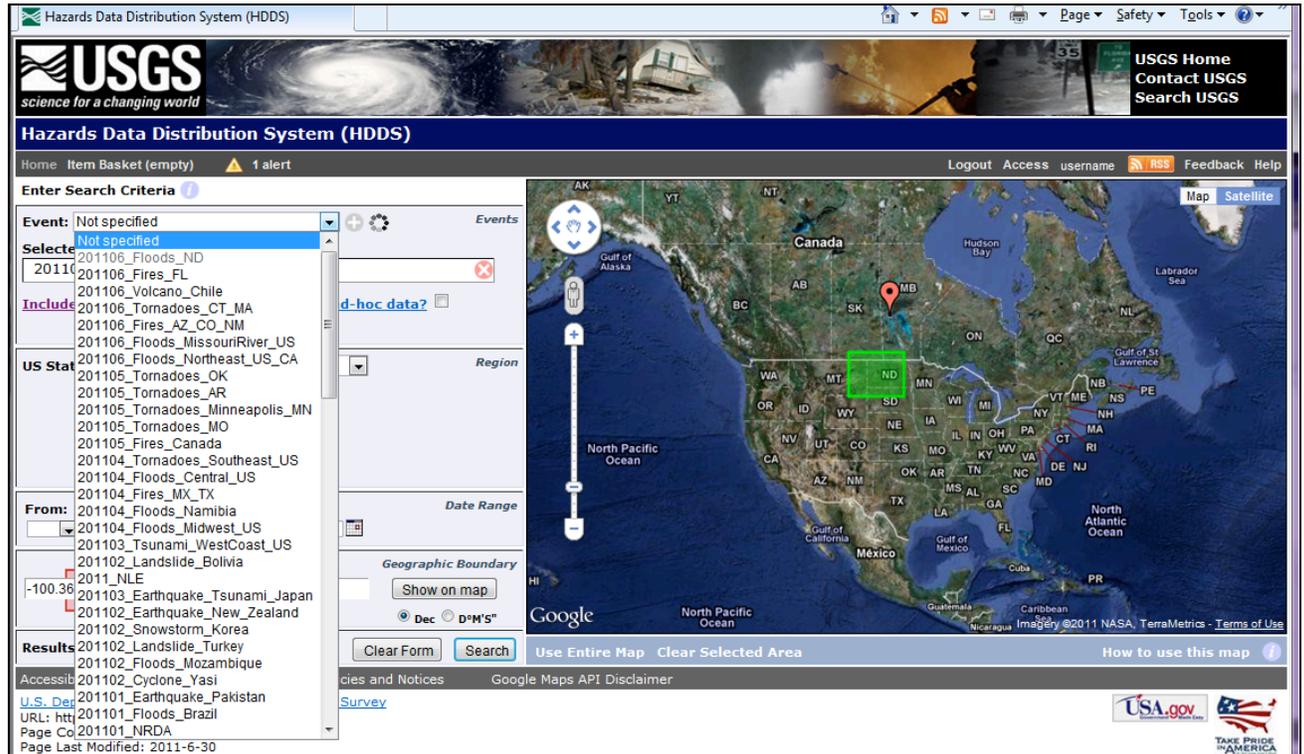


Figure 5 – Select Event

In the above example (Figure 5), the event 201106 was selected by using the  icon. Select the check boxes for baseline data or ad-hoc data, if required. The outline of the selected event data is highlighted on the map and the geographic boundary of the event area is displayed in the Geographic Boundary section on the page (Figure 6).

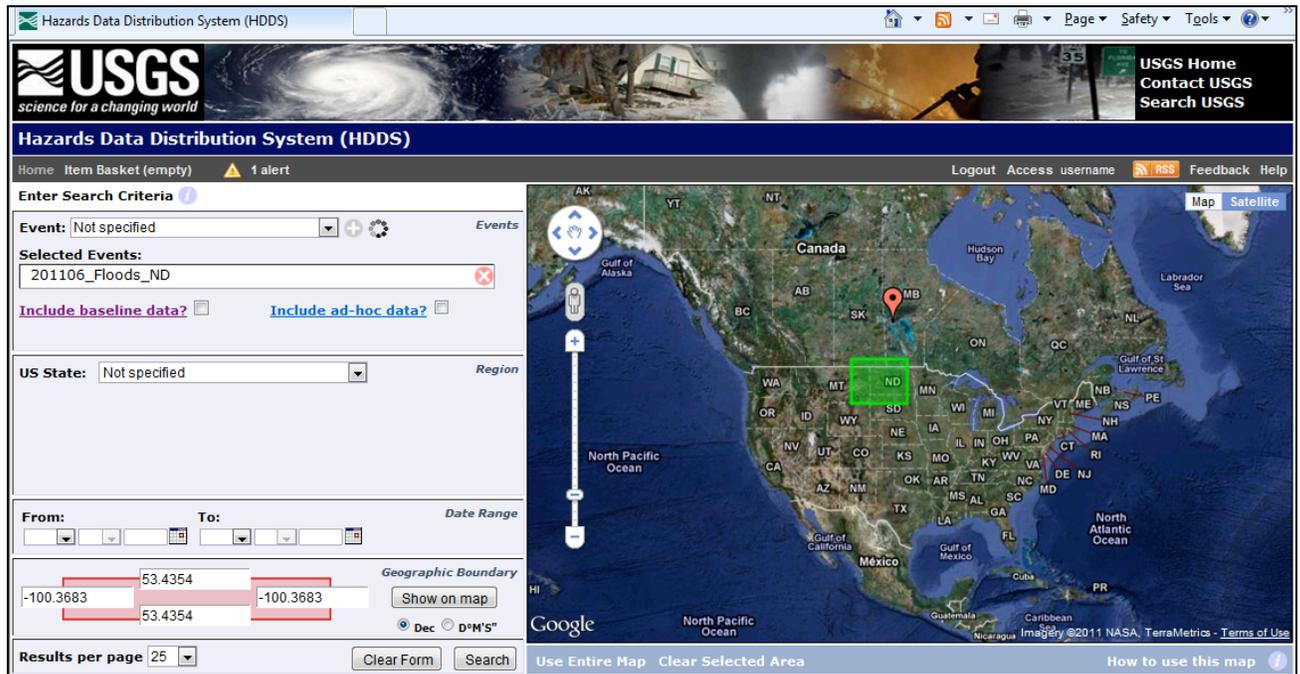


Figure 6 - Example Event Query

Selecting the 'Search' button performs the search.

### C. Search Results

The HDDS Search Results page displays the results of a search on the left side of the window in three tabs:

- Ingested Data - Displays a table of results where each row is an individual scene from the data repository.
- Public Ad-hoc - Displays a table of directories containing imagery and documents that have been manually copied into the HDDS archive. Select an individual row to display a file browser dialog for that directory
- Restricted Ad-hoc - This tab is identical to the Public Ad-hoc, but contains restricted data.

The right side of the window will show additional detail specific to the selected tab. If multiple events, or the baseline events option, were selected, you can select a specific event to view using the Event: pop-up menu.

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**Hazards Data Distribution System (HDDS) - Demo**

Home Item Basket (empty) Logout Access username RSS Feedback Help

Results per page: 25 50 100

Search Results Bulk Download Export results

Event: 201106\_Floods\_ND Show Additional Filters

**Ingested Data**

Results 1 - 25 of 185

ID	Acquisition Date	Platform	Sensor	Agency	File Format	Footprint	Browse	Download
LS07032027201107200000000MS01	2011-07-20	LANDSAT-7	ETM+	USGS	GEOTIFF	<input type="checkbox"/>	<input type="checkbox"/>	
LS0503202720110712000000000MS01	2011-07-12	LANDSAT-5	TM	USGS	GEOTIFF	<input type="checkbox"/>	<input type="checkbox"/>	
LS0503402720110710000000000MS01	2011-07-10	LANDSAT-5	TM	USGS	GEOTIFF	<input type="checkbox"/>	<input type="checkbox"/>	
LS0503402620110710000000000MS01	2011-07-10	LANDSAT-5	TM	USGS	GEOTIFF	<input type="checkbox"/>	<input type="checkbox"/>	

Show Footprints Clear Footprints Show Browse Clear Browse

Figure 7 - Search Results - Ingested Data

Figure 7 is a display of results from Ingested data.

**Hazards Data Distribution System (HDDS)**

Home Item Basket (7 items) 1 alert Logout Access username RSS Feedback Help

Search Results Export results

Event: 201106\_Floods\_MissouriRiver\_US

**Ingested Data** Public Ad-hoc Restricted Ad-hoc

csv  
data  
docs\_misc  
kml  
shapefiles  
xml

- AERIAL
  - NON\_INGESTED
    - NED
      - SD\_IA\_MissouriRiver
        - Metadata
          - sast\_prj.faq 22 K
          - sast\_prj.html 27 K
          - sast\_prj.sgml 16 K
          - sast\_prj.txt 17 K
          - sast\_prj.xml 16 K
          - sd\_missouri\_riv\_meta.faq 22 K
          - sd\_missouri\_riv\_meta.html 27 K
          - sd\_missouri\_riv\_meta.sgml 15 K
          - sd\_missouri\_riv\_meta.txt 16 K
          - sd\_missouri\_riv\_meta.xml 15 K
        - SD\_IA\_SAST
        - SD\_Missouri\_R
      - Map\_Products
        - FEMA
          - MO\_River\_East\_CrestForecast\_LeveeHeights\_20110608\_ef9c9831f1d0608111051hd 245 K
          - MO\_River\_West\_CrestForecast\_LeveeHeights\_20110608\_619a2405a010608111018h 287 K
          - Selected\_Gages-Mississippi\_and\_Ohio\_Rivers20110509-0600CDT.XLSX 17 K

Figure 8 - Search Results - Public Ad-hoc

Figure 8 is a display of results from Public Ad-hoc data.

#### D. Bulk Download through the HDDS Results

Users authorized for bulk download must be a registered user of the HDDS system. In addition, the user's profile must be updated through the administration interface based on USGS approval, to allow the user access for bulk download of data. If a user is

authorized for bulk download, the bulk download icon  will be available for each row of the available file list (Figure 9).

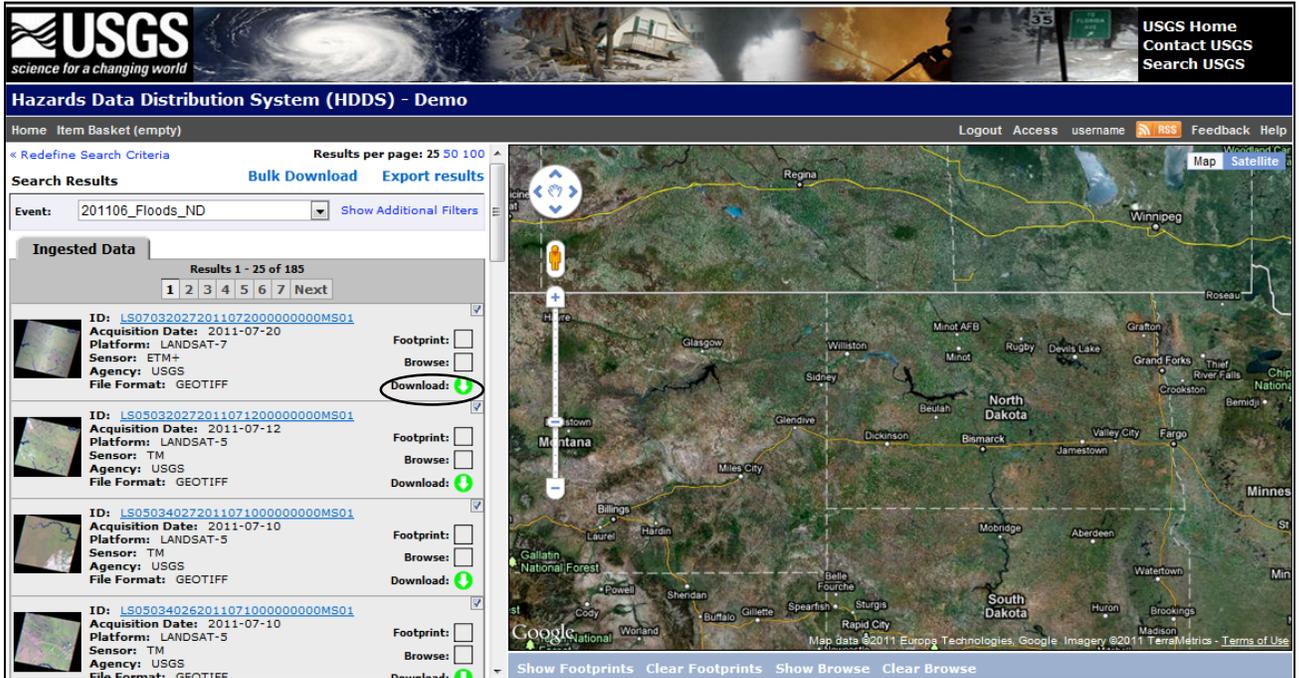


Figure 9 - Show Result Controls

To add individual scenes to the Bulk Item Basket, select the bulk download icon  next to the individual scene desired for bulk download delivery. The dialog box shown in Figure 10 will be displayed.

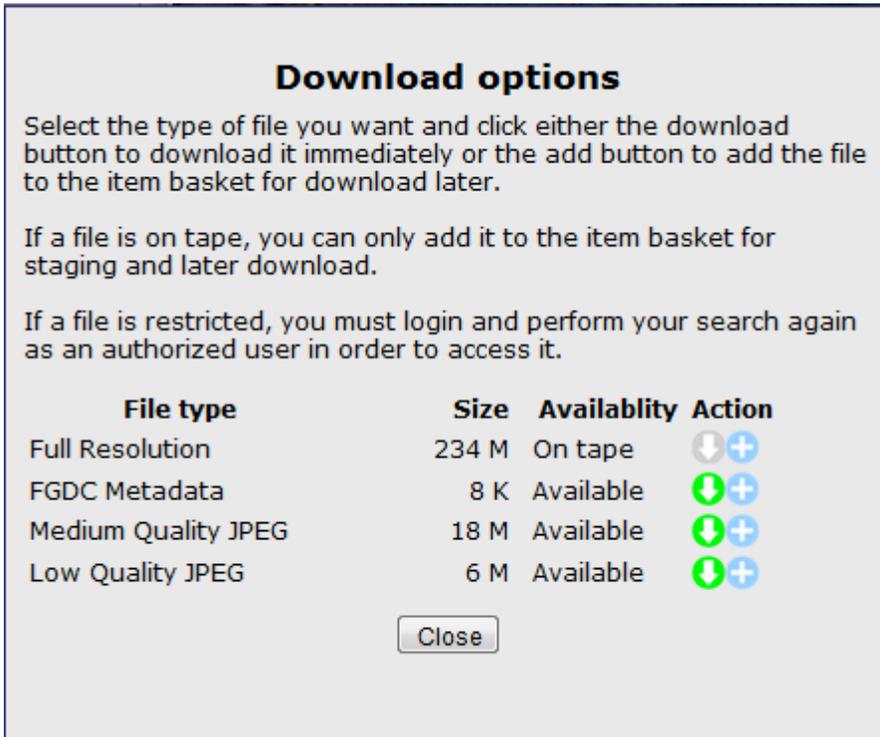


Figure 10 - Download Options

Click on the  icon to add the desired product to the bulk download item basket. To download immediately, click on the  icon.

The item basket number (upper left menu) will be updated for each item added to the item basket (Figure 11).



Figure 11 – Item Basket Display

To add all items on the results page for bulk download, select the 'Bulk Download' option on the HDDS menu (Figure 12).

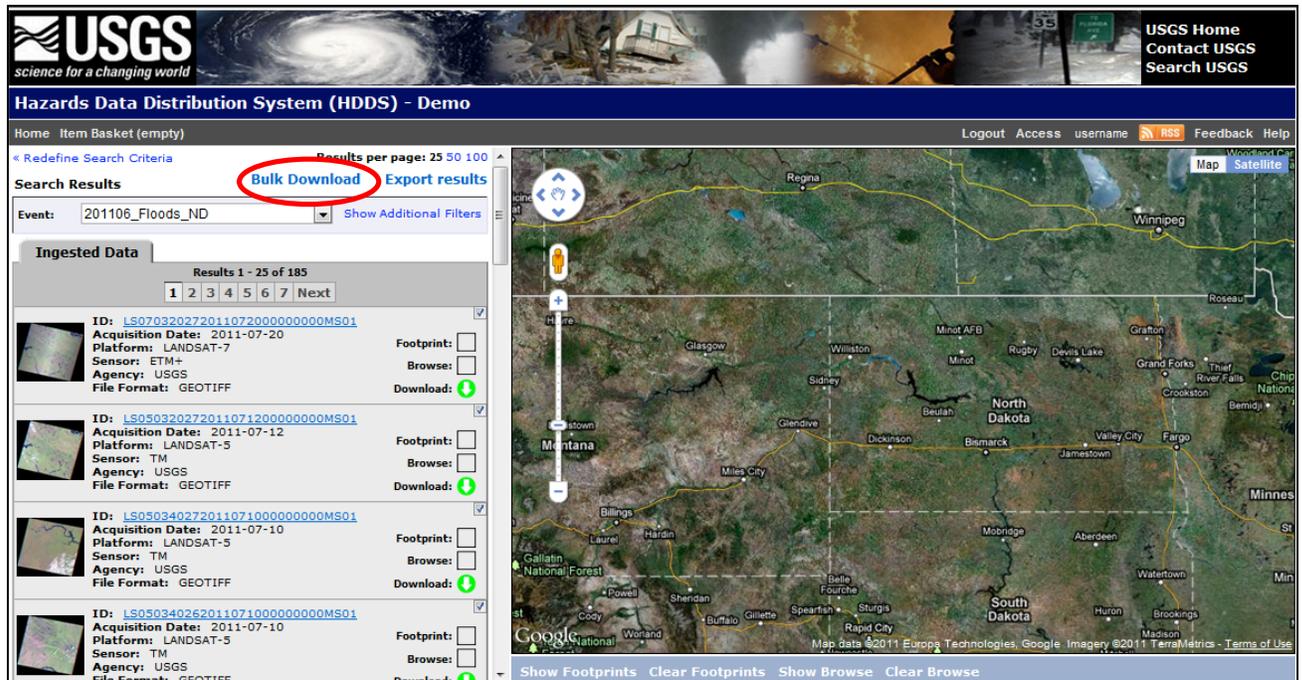


Figure 12 - Bulk Download All Results

Clicking on the 'Bulk Download' HDDS menu item will display the dialog box shown in Figure 13. Select the desired product, or select all of the product types. After selecting the desired products, click on the 'Submit Bulk Order' to submit the products requested for bulk download.

## Bulk download options

Select the type of files you want to download with the Bulk Download Tool.

File type	Size
<input type="checkbox"/> Full Resolution	
<input type="checkbox"/> FGDC Metadata	
<input type="checkbox"/> Medium Quality JPEG	
<input type="checkbox"/> Low Quality JPEG	

---

**Total**

Figure 13 - Bulk Download Options

After adding the desired scenes to the item basket, select the 'Item Basket' to submit the bulk order (Figure 11).

**HDDS Bulk Order 861 Confirmation**

This confirmation has been e-mailed to you at [emailaddress@email.com](mailto:emailaddress@email.com). You can use this for reference when using the Bulk Download Tool.

The Bulk Download Tool is a shared resource for different projects at the USGS EROS Center. It can be used for either HDDS or Earth Explorer bulk downloads. If you are using the tool for both systems, please make a note of your Order Ids to ensure you are downloading the expected data.

[Get the Bulk Download Tool](#)

<b>From:</b> Customer Services U.S. Geological Survey Earth Resources Observation & Science Center (EROS) 47914 252nd Street Sioux Falls, SD 57198-0001	<b>Tel:</b> 605-594-6151 <b>Email:</b> <a href="mailto:eocustserv@usgs.gov">eocustserv@usgs.gov</a> <b>Business Hours:</b> Monday through Friday, 8:00 a.m. to 4:00 p.m., central time
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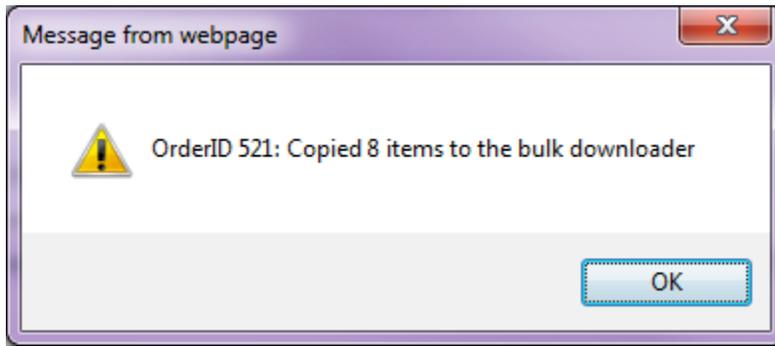
<b>For:</b> username <a href="mailto:emailaddress@email.com">emailaddress@email.com</a>	<b>Date:</b> Tue, 02 Aug 2011 07:19:18 -0500
<b>Address:</b> name street city, st zip UNITED STATES Phone:	<b>Order ID:</b> 861

File Name	Type	Size	Order Item
Event: 201106_Floods_ND			
LS070350272011070900000000MS01_L0005004003.zip	low_quality	5.8 MB	0000645658low_quality_file
LS070350262011070900000000MS01_L0005004003.zip	low_quality	6.3 MB	0000645659low_quality_file

[Accessibility](#)
[FOIA](#)
[Privacy](#)
[Policies and Notices](#)
[Google Maps API Disclaimer](#)

Figure 14 - Item Basket

Select the desired product for the scenes identified in the Item Basket (Figure 14), and then select the 'Submit Order' button. The scenes are then submitted to the Bulk Download service. A Bulk Order Confirmation dialog (Figure 15) indicates a successful bulk order request.



**Figure 15 - Order Confirmation Dialog**

After submitting the bulk order, the user will also receive an email confirmation (Figure 16) verifying the items selected for the Bulk Download order.



[USGS Home](#)  
[Contact USGS](#)  
[Search USGS](#)

Hazards Data Distribution System (HDDS) - Bulk

[Home](#) [Item Basket \(4 items\)](#) [Help Feedback](#)

### HDDS Bulk Order 1320 Confirmation

<b>From:</b> Customer Services U.S. Geological Survey Earth Resources Observation & Science Center (EROS) 47914 252nd Street Sioux Falls, SD 57198-0001	<b>Tel:</b> 605-594-6151 <b>Email:</b> <a href="mailto:eooustserv@usgs.gov">eooustserv@usgs.gov</a> <b>Business Hours:</b> Monday through Friday, 8:00 a.m. to 4:00 p.m., central time
---	---

<b>For:</b>	<b>Date:</b> Thu, 21 Jul 2011 14:12:13 -0500
<b>Address:</b>	<b>Order ID:</b> 1320

Event: 201101\_Tornadoes\_MO

File Name	Type	Size	Order Item
EO01N29_276088W089_1836522010071100000000MS00_GO009006005.zip	Full Resolution	105 M	0000000038full_resolution_file
EO01N29_276088W089_1836522010071100000000MS00.html	FGDC Metadata	9 K	0000000038metadata_file
EO01N29_276088W089_1836522010071100000000MS00_MO009006005.zip	Medium Quality JPEG	833 K	0000000038medium_quality_file
EO01N29_276088W089_1836522010071100000000MS00_LO009006005.zip	Low Quality JPEG	255 K	0000000038low_quality_file

This confirmation has been e-mailed to you at [user@email.com](mailto:user@email.com). You can use this for reference when using the Bulk Download Tool.

The Bulk Download Tool is a shared resource for different projects at the USGS EROS Center. It can be used for either HDDS or Earth Explorer bulk downloads. If you are using the tool for both systems, please make a note of your Order Ids to ensure you are downloading the expected data.

[Get the Bulk Download Tool](#)

[Return to Item Basket](#)

**Alerts**

Close

[Accessibility](#) [FOIA](#) [Privacy Policies and Notices](#)

Figure 16 - Example Bulk Order Confirmation email

### III. Installation of Bulk Download Application

The Bulk Download Application is available through links on the Bulk Item Basket page and the Item Basket Confirmation email from HDDS.

Select the Bulk Download Application for the appropriate operating system the application will be running. The following is an example of the download page for the application (Figure 17).

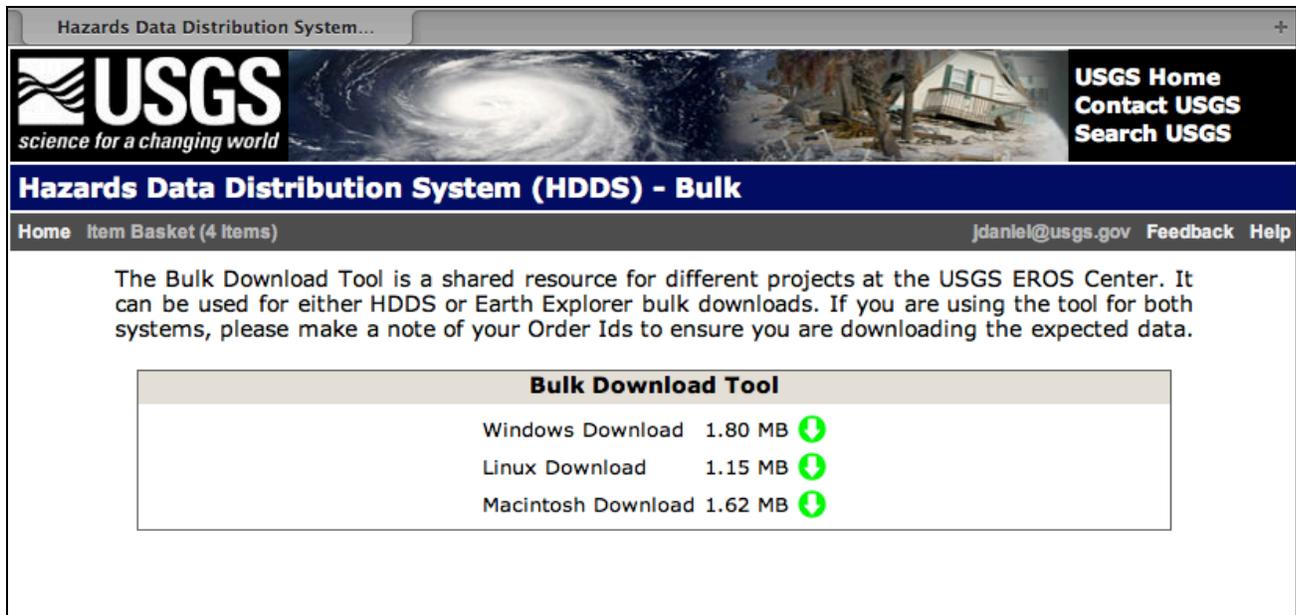


Figure 17 - Bulk Download Application Page.

Installation for each operating system is as follows:

- Windows - Double click the downloaded executable (.exe)
- Unix - Execute the downloaded shell script (.sh)
- Macintosh - Execute the downloaded .dmg

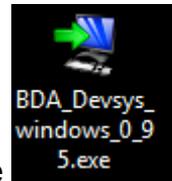
Running the Application after download:

- Windows - Run the installed .exe from the start menu or the install location.
- Unix - Run the installed application from the application menu (it may place the application under Lost & Found)
- Macintosh - Double click the application from the installed location

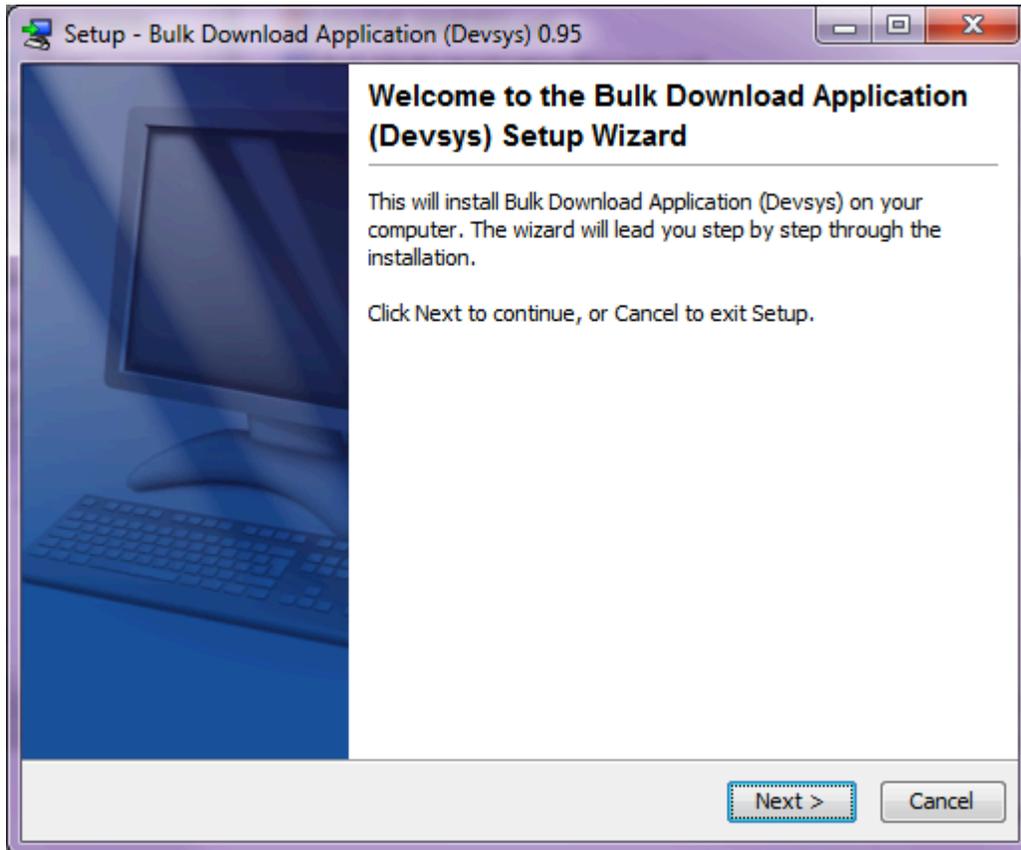
Network Requirements:

- Verify that port 4448 is open to the internet.

**NOTE:** The Bulk Download Application requires the Sun Java 6 JRE - third party versions of Java will not work.

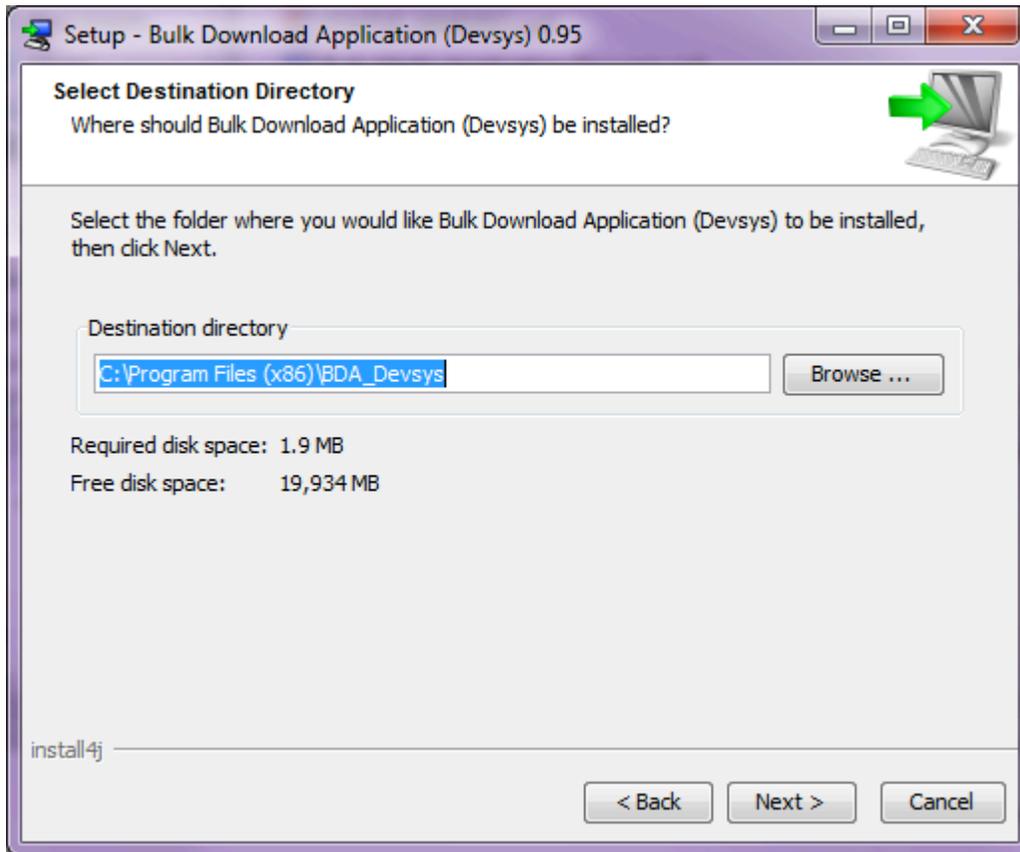


Download the application to your desktop. Select the executable on the desktop. The following installation dialog form will be displayed (Figure 18):



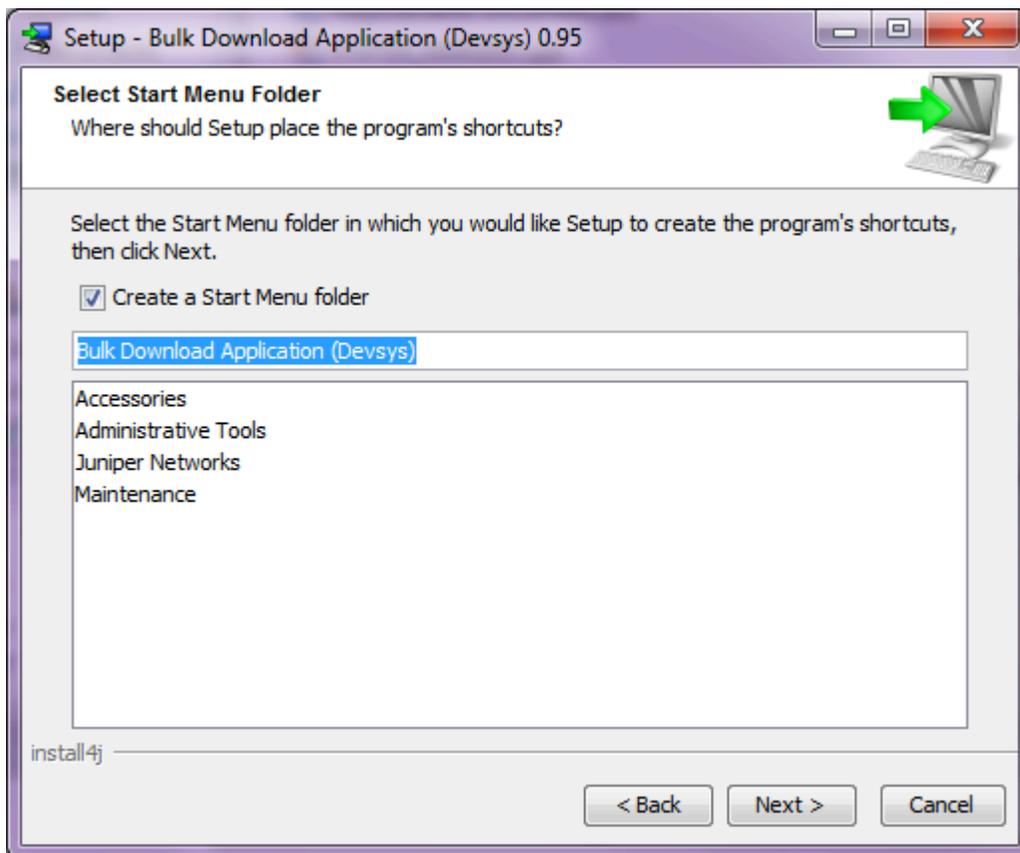
**Figure 18 - Bulk Download Installation Wizard**

Select the 'Next' button to continue with installation.



**Figure 19 - Installation folder**

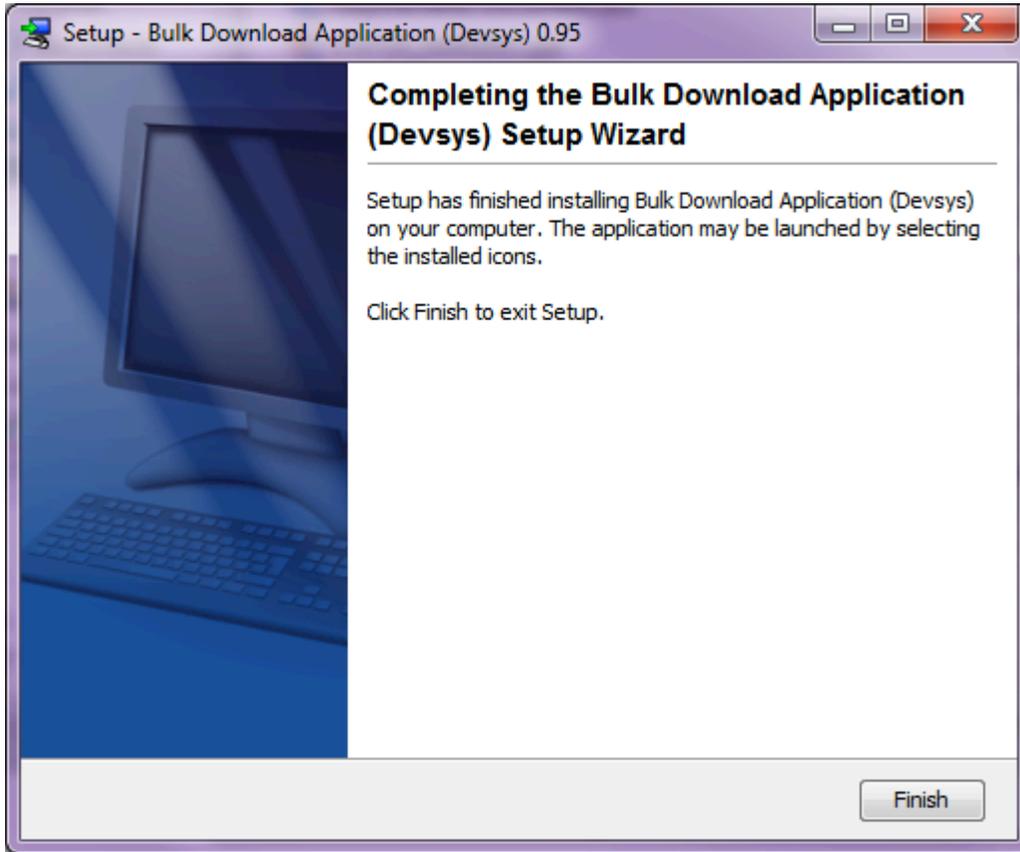
The 'Select Destination Directory' (Figure 19) allows the user to select the directory where the Bulk Download Application will be installed. Based on your installation's security guidelines, the installation directory may need to be changed. Modify the installation directory, then select 'Next'.



**Figure 20 - Start Menu Folder**

The Bulk Download Application installs an icon on the 'Start Menu'. Using the default options, will install an icon on your Start Menu and create a 'Bulk Download Application' folder on your 'Programs' menu (Figure 20). Select 'Next' to continue with the installation.

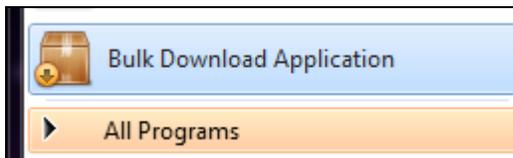
If you don't want an icon on your 'Start Menu', deselect the 'Create a Start Menu folder', and select 'Next'.



**Figure 21 - Installation Complete**

This is the final form (Figure 21) for the installation of the Bulk Download Application.

The following icon should be displayed on your 'Start Menu' (Figure 22).



**Figure 22 - Bulk Download App Icon on Start Menu**

In some cases, the Windows 7 Firewall may indicate that it has blocked some features. The following screen capture is an example of the message (Figure 23).



**Figure 23 - Windows Firewall Warning**

This does not affect the installation or execution of the Bulk Download Application. Select the 'Cancel' button on the dialog box to continue.

## IV. Bulk Download Application User Interface

The User Interface for the Bulk Download Application (BDA) provides the capability for users to review their download requests, select the download location, start their download requests, and monitor progress. The Bulk Download App user interface is composed of the following key elements:

- Login/Registration form
- Order Selection form
- BDA Manager form
- Cleanup and Expiration of Orders

### A. Bulk Download Login

The login screen allows the user to enter their HDDS login and password for the BDA. The following figure (Figure 24) is the login form for the BDA.

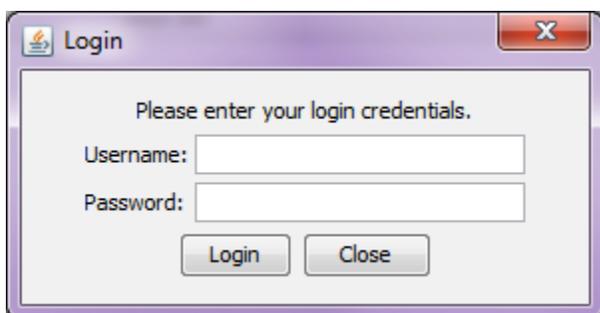
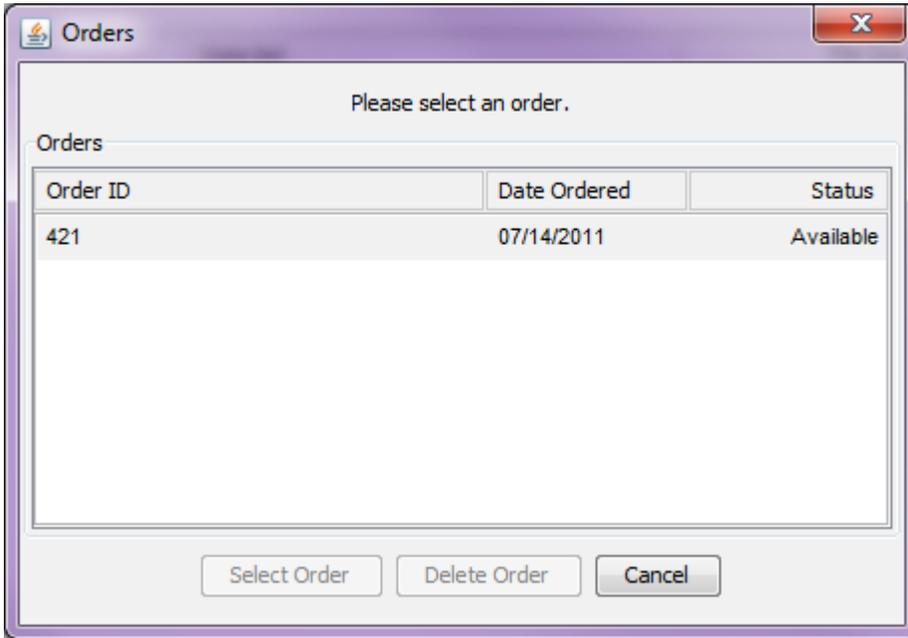


Figure 24 - BDA Login Screen

The user must be a registered user of HDDS and must be assigned the privileges to allow bulk download data by the USGS.

### B. Bulk Order Selection Form

Bulk orders submitted from external systems are organized by the users' user code and assigned an order ID to manage the groups of orders that a user may submit. The following figure is an example BDA Order Selection form (Figure 25).

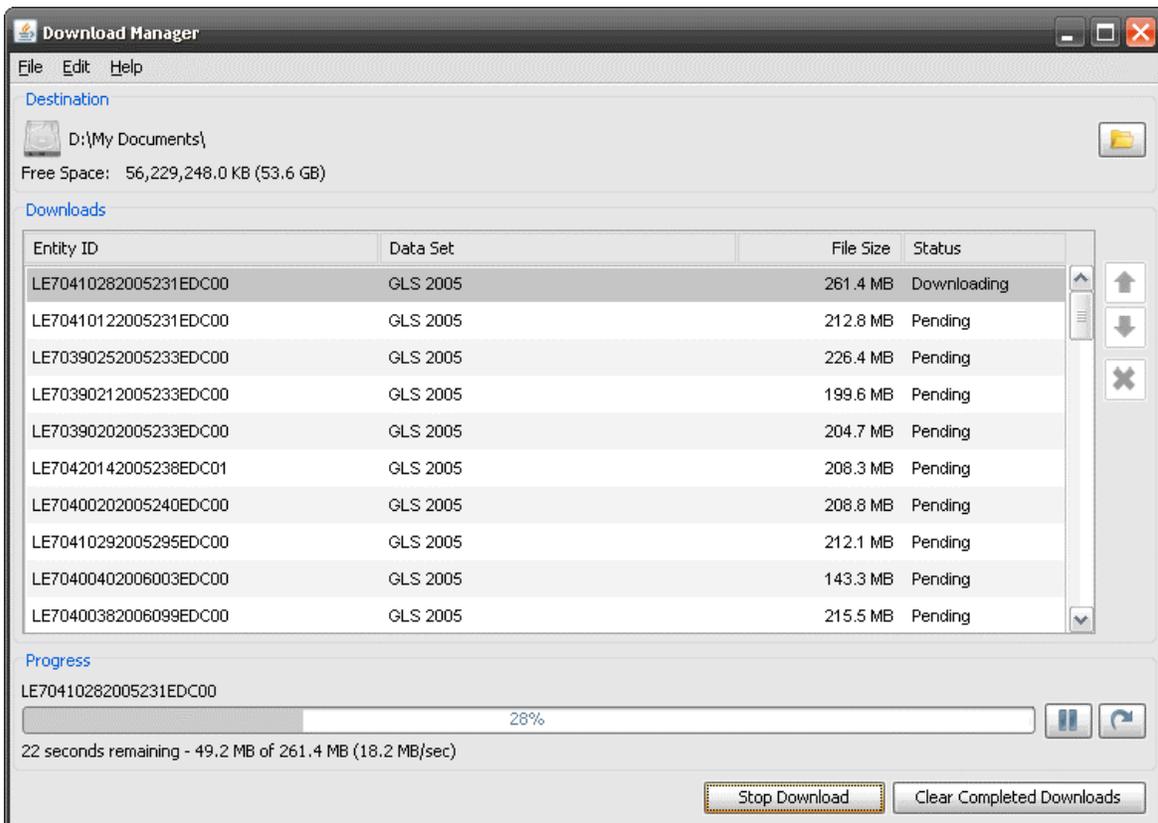


**Figure 25 - BDA Orders Selection Form**

The BDA Orders Selection form allows the user to select the bulk order to begin work on. Using the mouse, selecting the desired order on the form, and then select the 'Select Order' button to display the bulk order for review.

### C. Bulk Download Manager

The BDA Manager form displays the list of scenes for download (Figure 26).



**Figure 26 - BDA Manager Form**

The form identifies the following attributes for the download session:

- Entity ID – Unique ID for each file
- Data Set – Dataset that this file is associated with
- File Size – File size of the scene
- Status – Status of the download session

The icon  on the upper right corner allows the user modify the location where downloads will be saved. Selecting the folder icon will display a standard form to select the location of where the downloaded files will be located. Select/modify the destination location where you want the downloaded files to be located.

At the bottom of the form is a 'Progress' Bar. The progress bar displays the progress for each file being downloaded.

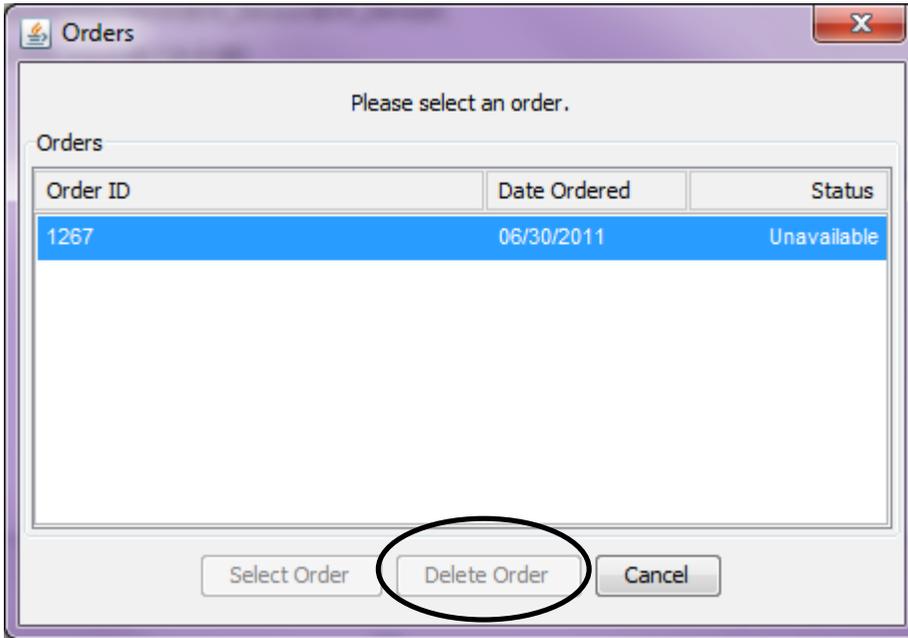
The 'Begin Download' button starts the download process. After selecting the 'Begin Download' button, the process for downloading data will begin. After selecting the 'Begin Download' button, the button will change to a 'Stop Downloads' button. Select this button will stop the download process.

Each scene will be downloaded without user interaction. When all of the scenes for the order have been downloaded, the user can select the 'Clear Completed Downloads' button to clear the completed downloads from the screen or start the next order request for downloads.

To select the next order for download, select the 'File' menu option and select the new order for download.

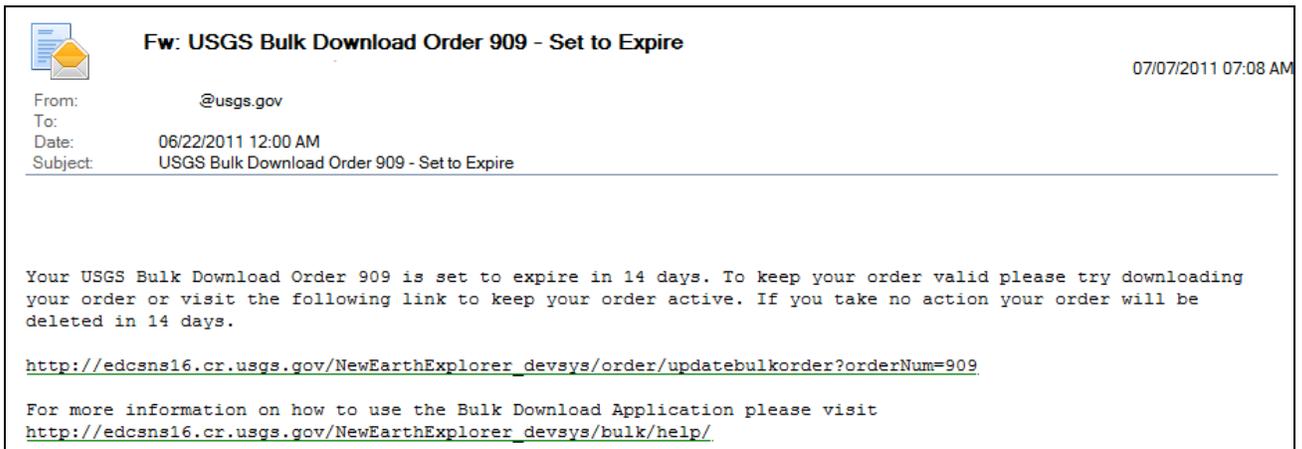
#### **D. Cleanup and Expiration of Orders**

The Bulk Download Application automatically cleans up orders after all of the scenes have been downloaded. If a user desires to remove an order, the BDA allows the user to delete orders through the BDA Order Selection form (Figure 27).



**Figure 27 – BDA Orders Selection Form**

If an order has not been accessed in 14 days, the Bulk Download System will notify the user when orders are set to expire. A notification will be sent to the user to indicate that the order will be expiring in 14 days (Figure 28).



**Figure 28 - Bulk Order Expiration Notice**

To keep the order active, select the link in the email to extend the time period for downloading the bulk order.

If no action is taken the following email message will be received as notification that the order was deleted (Figure 29).



**Figure 29 - Bulk Download Order Deletion Message**

## V. Warning Messages and Errors

**Cannot connect to the download service** – Please verify with your network service or firewall software that port 4448 is open to the internet.

**Read timed out** - Communication between the file server and the client's computer ceased, causing the server to time out the connection.

**Preparing File** - The file is being staged on the mass storage system or there aren't enough open slots for your download to begin. The client will check periodically for the file to try again.

**Invalid Destination** - The user does not have permission to write to the directory chosen.

**Another instance is already running** - The user is connected to the Bulk Download Server via another client on another computer. The user may choose to disconnect their previous client and start a fresh connection.

**The bulk download service is unavailable at this time.** - The Bulk Download Server is not available to accept incoming connections or requests.

**There is not enough free space to download the scene X.** - The download location on the user's computer does not have enough free space to save the next file.

**You do not have permission to access the download for scene X on this server. It will be skipped.** - The permissions on the server forbid the download of this file.

**URL is null. The download will be skipped.** - The Bulk Download Server did not provide a valid URL to access the file.

**The download for scene X does not exist. It will be skipped.** - There is no file at the specified URL on the file server.

**The content header is missing for the scene X. Please notify customer service (custserv@usgs.gov) about this scene.** - There is a data issue with this file that needs to be corrected on the file server.

**Unable to reconnect to the Bulk Server in 5 attempts. The application will close.**  
- The client attempted to automatically reconnect itself to the Bulk Download Server but the server is no longer responding, meaning it is likely shut down for some reason.

**The bulk download service is unavailable at this time. Please try again later.** - The Bulk Download Server is not currently running.

## Appendix

<b>Acronym</b>	<b>Description</b>
BDA	Bulk Download Application
EE	EarthExplorer
EROS	Earth Resources Observation and Science Center
GloVIS	USGS Global Visualization Viewer
HDDS	Hazards Data Distribution Systems
USGS	United States Geological Survey