

# **LP DAAC2Disk Download Manager**

**(HTTP/FTP Download Tool)**

## **User Guide**

**Release 1.1**

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*Land Processes DAAC*

*USGS Earth Resource Observation and Science (EROS) Center*

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## DAAC2Disk Interfaces

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The Daac2Disk tool is available as either a web-based GUI (graphic user interface) or may be downloaded and run as a command line executable.

Both interface options search for data products (data sets) that are held in ECHO. The [EOS ClearingHouse \(ECHO\)](#) is a metadata catalog of NASA's EOS data. ECHO's catalog contains more than 3200 data sets held at 12 EOSDIS data centers. For listings of LP DAAC specific data products (data sets), please visit <https://lpdaac.usgs.gov/products>.

**Note:** The DAAC2Disk tools have been mainly tested with LP DAAC data; little testing has been done with data from other DAACs. Products from other DAACs may or may not be downloadable using DAAC2Disk.

The same three search options are offered through both interface options: searching ECHO with the “Select via Parameters”, “Select from a File” and “Select from an Order URL”.

## Command Line Daac2Disk Interface

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The Daac2Disk command line utility is available for Windows, Linux/Unix and Macintosh. There is a separate version for each of the 3 Operating Systems. Each version of the script has the same options.

- Daac2Disk\_win.exe for Windows
- Daac2Disk\_mac for Macintosh
- Daac2Disk\_linux for Linux/Unix

### Script usage

Running the script with no input will display the usage as shown in *Figure 1*. The following screen captures show running the Windows based script via the command (cmd.exe) window.

**NOTE:** When entering script parameters, do not include brackets (<, >, [, or ]).

**NOTE:** Some Linux systems set the /tmp directory as "noexec" meaning no binary can be run from /tmp. The Perl package Daac2Disk\_linux normally uses /tmp to unzip and execute from. If you try to run Daac2Disk\_linux and nothing happens, set the PAR\_GLOBAL\_TMPDIR environment variable to a different directory.

```
in csh or tcsh
setenv PAR_GLOBAL_TMPDIR <some user accessible temp dir>
```

```
in bash or sh:
export PAR_GLOBAL_TMPDIR=<some user accessible temp dir>
```

```
C:\Temp\D2D>Daac2Disk_win.exe
USAGE:
  Daac2Disk_win.exe --shortname <SHORTNAME> --versionid <VER>
    [--noscience]
    [--nometadata]
    [--browse]
    [--begin <YYYY-MM-DD> --end <YYYY-MM-DD>]
    [--bbox <llLon llLat urLon urLat>] or
    [--tile <horizMin> <horizMax> <vertMin> <vertMax>]
    [--output <output directory>]

  OR

  Daac2Disk_win.exe --inputfile <input file name>
    [--output <output directory>]

  OR

  Daac2Disk_win.exe --orderurl <URL from order email>
    [--output <output directory>]

  NOTE: The output location defaults to the current directory.
  NOTE: The Science files are downloaded by default, to turn that off, use --noscience
  NOTE: The Metadata files are downloaded by default, to turn that off, use --nometadata
```

Figure 1 – Script Usage

## Search Options

The first option listed in the usage is the search option. The user is required to enter the short name and version ID of the product of interest. Additional parameters may be entered to further filter the search results.

Figure 2 below shows a search and download of MOD09A1 version 5 data that includes the science file, metadata file and browse file. The search option also used the temporal and bounding box spatial search features.

```
C:\Temp\D2D>Daac2Disk_win.exe --shortname MOD09A1 --versionid 5 --browse --begin
2014-11-02 --end 2014-11-08 --bbox -116 33 -96 45.5 --output C:\Temp\Downloads
There are 18 files to download. Do you wish to continue; [y/n]? y
Downloading: http://e4ftl01.cr.usgs.gov/MODIS_Composites/MOLT/MOD09A1.005/2014.
11.01/MOD09A1.A2014305.h08v05.005.2014315070914.hdf
Downloading: http://e4ftl01.cr.usgs.gov/MODIS_Composites/MOLT/MOD09A1.005/2014.
11.01/MOD09A1.A2014305.h08v05.005.2014315070914.hdf.xml
Downloading: http://e4ftl01.cr.usgs.gov/WORKING/BRWS/Browse.001/2014.11.11/BROW
SE.MOD09A1.A2014305.h08v05.005.2014315070914.1.jpg
```

Figure 2 – Bounding Box Search Example

Figure 3 below shows a search and download of MOD09A1 version 5 data. The search option also used the temporal and tile spatial search features.

```
C:\Temp\D2D>Daac2Disk_win.exe --shortname MOD09A1 --versionid 5 --browse --begin
2014-11-02 --end 2014-11-08 --tile 20 22 3 4 --output C:\Temp\Downloads

There are 18 files to download. Do you wish to continue; [y/n]? y

Downloading: http://e4ftl01.cr.usgs.gov//MODIS_Composites/MOLT/MOD09A1.005/2014.
11.01/MOD09A1.A2014305.h22v04.005.2014315072948.hdf
Downloading: http://e4ftl01.cr.usgs.gov//MODIS_Composites/MOLT/MOD09A1.005/2014.
11.01/MOD09A1.A2014305.h22v04.005.2014315072948.hdf.xml
Downloading: http://e4ftl01.cr.usgs.gov//WORKING/BRWS/Browse.001/2014.11.11/BROW
SE.MOD09A1.A2014305.h22v04.005.2014315072948.1.jpg
```

Figure 3 - Tile Search Example

## Input File Option

The input file used in this search option is generated using the ECHO Reverb interface. As a best practice, the input file should be saved as a .txt file into the same directory as the DAAC2Disk.exe file.

The following link is the tutorial showing how to use Reverb to create a .txt input file:

<https://wiki.earthdata.nasa.gov/display/echo/Shopping+Cart%3A+Downloads>.

Figure 4 below shows an example of what might be in your input file. Notice that your input file can include http URLs and/or ftp URLs. In this example, there are 2 files from LP DAAC and 2 files from LaRC.

Figure 5 below shows the script downloading the files listed in the input file.

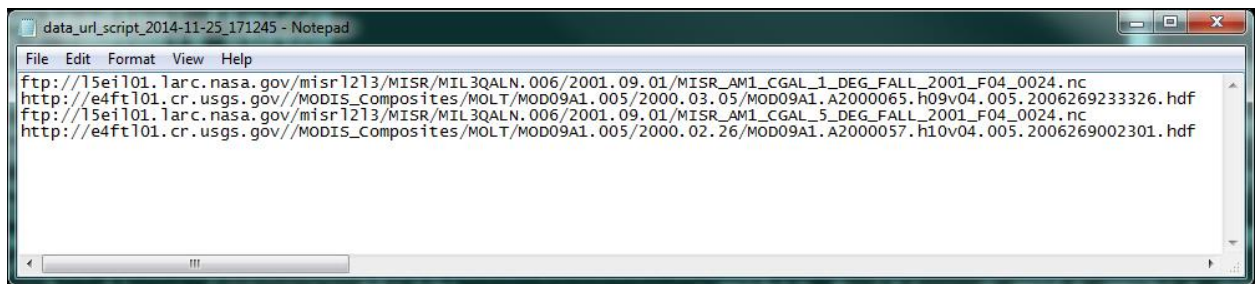


Figure 4 - Input File Example 1

```
C:\Temp\D2D>Daac2Disk_win.exe --inputfile data_url_script_2014-11-25_171245.txt
--output C:\Temp\Downloads

There are 4 files to download. Do you wish to continue; [y/n]? y

Downloading: ftp://15e1l01.larc.nasa.gov/misr1213/MISR/MIL3QALN.006/2001.09.01/M
ISR_AM1_CGAL_1_DEG_FALL_2001_F04_0024.nc
Downloading: http://e4ftl01.cr.usgs.gov/MODIS_Composites/MOLT/MOD09A1.005/2000.
03.05/MOD09A1.A2000065.h09v04.005.2006269233326.hdf
Downloading: ftp://15e1l01.larc.nasa.gov/misr1213/MISR/MIL3QALN.006/2001.09.01/M
ISR_AM1_CGAL_5_DEG_FALL_2001_F04_0024.nc
Downloading: http://e4ftl01.cr.usgs.gov/MODIS_Composites/MOLT/MOD09A1.005/2000.
02.26/MOD09A1.A2000057.h10v04.005.2006269002301.hdf
```

Figure 5 - Input File Example 2

## Order URL Option

After submitting an order via Reverb, an email message with an Order URL is sent from each DAAC that hosts the data which was ordered.

Figure 6 below shows an example section of an email message received from the LP DAAC. The user would copy the Pull Download Link and paste it as the command line option to download their data as shown in Figure 7.

```
+++++++

ORDERID: 0306909899
REQUESTID: 0303208623
USERSTRING:
FINISHED: 11/25/2014 16:27:30

MEDIATYPE: HTTP
MEDIAFORMAT: FILEFORMAT
HOST: e4ftl01.cr.usgs.gov
DIR: /PullDir/030320862311911
Pull Download Links:
http://e4ftl01.cr.usgs.gov/PullDir/030320862311911/
Download ZIP file of packaged order:
http://e4ftl01.cr.usgs.gov/PullDir/030320862311911.zip
EXPR: 12/05/2014 16:27:30
MEDIA 1 of 1
MEDIAID:
  GRANULE: UR:10:DsShESDTUR:UR:15:DsShSciServerUR:
  ESDT: MOD09GA.005

TOTAL FILES: 2
```

Figure 6 - Sample Email

```
C:\Temp\D2D>Daac2Disk_win.exe --orderurl http://e4ftl01.cr.usgs.gov/PullDir/030320862311911/ --output C:\Temp\Downloads
Downloading files from: http://e4ftl01.cr.usgs.gov/PullDir/030320862311911/

There are 8 files to download. Do you wish to continue; [y/n]? y

Downloading: http://e4ftl01.cr.usgs.gov/PullDir/030320862311911//MOD09A1.A2000057.h10v04.005.2006269002301.hdf
Downloading: http://e4ftl01.cr.usgs.gov/PullDir/030320862311911//MOD09A1.A2000057.h10v04.005.2006269002301.hdf.xml
```

*Figure 7 - Order URL Example*

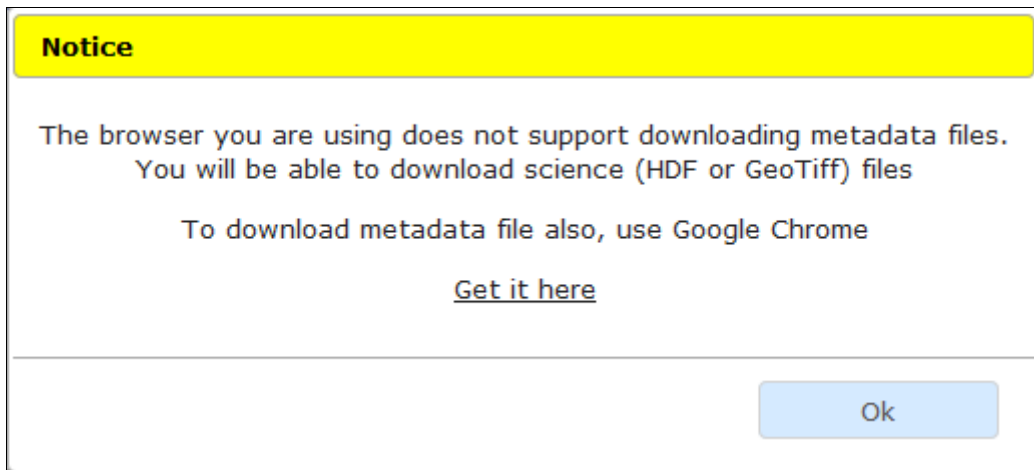
## Web Based Daac2Disk Interface

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Before using the web-based DAAC2Disk interface, please verify your browser and browser settings are configured properly.

### Supported Browsers

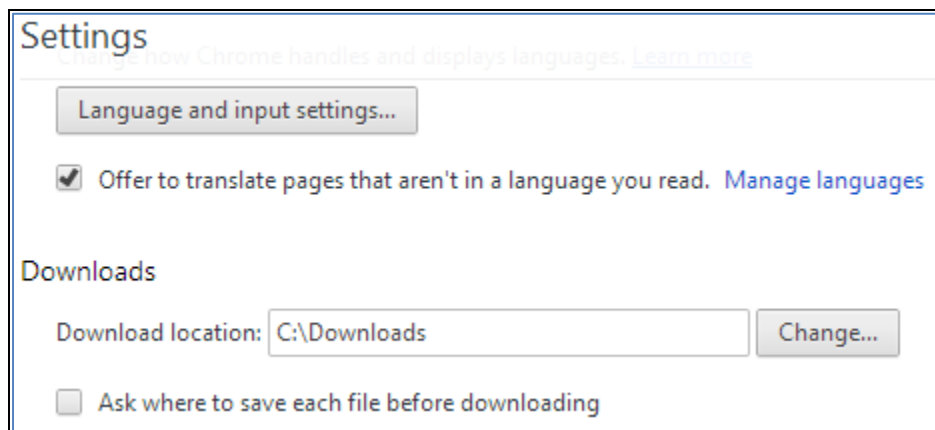
Currently you will get the best user experience with the web based version using Google Chrome because this browser will allow for the download of the science files (.hdf), metadata files (.xml), and browse (.jpg) files. Other browsers will display not download the metadata files and browse files. When using a browser other than Google Chrome, you will receive a notice like displayed in *Figure 8* below.



*Figure 8 - Browser Notice*

### Google Chrome Browser Setting

To automatically download files in Chrome without being asked where to save each file, get into the Google Chrome advanced settings and remove the check mark from the “Ask where to save each file before downloading” option. You can also set your “Download location” as well, as shown in *Figure 9*.



*Figure 9 - Google Chrome Browser Settings*



## Select via Parameters Option

Figure 10 shows downloading data using the “Select via Parameters” option. This option searches for data that is warehoused in [EOS ClearingHouse \(ECHO\)](#). Notice that the short name list will change after changing the Archive Center. Also notice that the version could change based on the short name you have selected. In the Figure 10 example, we are downloading MODIS Surface Reflectance 8 – Day 500 m (MOD09A1) data.

**Daac2Disk**  
Http/Ftp Download Tool

Map Satellite

Select via Parameters

[User's Guide](#)

Searches with large temporal ranges and/or large geographical search areas tend to take a long time for results to be returned. For quicker results, you may want to run several smaller range searches.

Archive Center: LPDAAC

Shortname: MOD09A1

Version: 5

Begin Date: 2014-11-02

End Date: 2014-11-08

Coordinates:

Tiles:

Upper Left	43.83452678	-107.9296875
Upper Right	43.83452678	-94.921875
Lower Right	34.88593094	-94.921875
Lower Left	34.88593094	-107.9296875

Science:

Metadata:

Browse:

Reset Submit

Clear Map

Google Imagery ©2014 NASA, TerraMetrics Terms of Use  
By viewing the Google Maps API on this web site the user agrees to the Google Maps API Terms of Service.

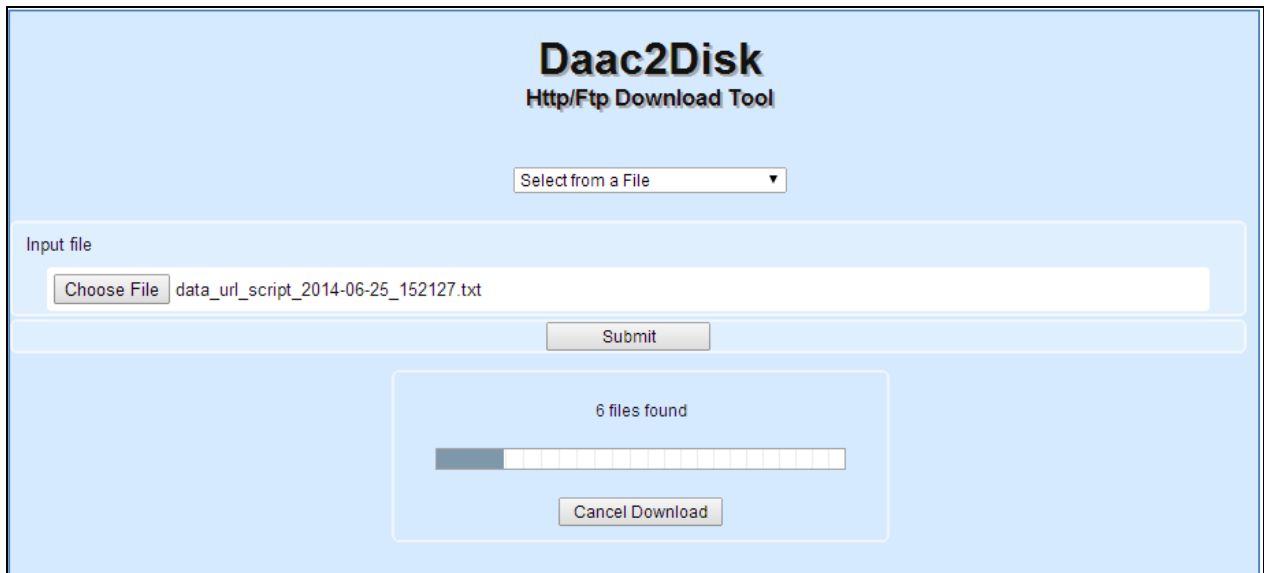
Figure 10 - Select via Parameters Option

## Select from a File Option

Figure 11 shows the “Select from a File” option. This option will download all files that are listed in your input file. The input file used in this search option is generated using the ECHO Reverb interface. The following link is the tutorial showing how to use Reverb to create a .txt input file:

<https://wiki.earthdata.nasa.gov/display/echo/Shopping+Cart%3A+Downloads>.

For an example of what the input file should look like, see Figure 4. Notice that your input file can include http URLs and/or ftp URLs.



The screenshot shows the Daac2Disk interface. At the top, it says "Daac2Disk Http/Ftp Download Tool". Below that is a dropdown menu with "Select from a File" selected. Underneath is an "Input file" section with a "Choose File" button and a text box containing "data\_url\_script\_2014-06-25\_152127.txt". A "Submit" button is below the text box. In the center, a box displays "6 files found" above a progress bar that is approximately 25% full. A "Cancel Download" button is at the bottom of this box.

Figure 11 - Select from a File Option

## Select from an Order URL Option

After submitting an order via Reverb, an email message with an Order URL is sent from each DAAC that hosts the data which was ordered.

Figure 12 below shows downloading data that was ordered from a DAAC. In this example, the Order URL was taken from an email distribution notice sent from the LP DAAC. See Figure 6 for a sample image of where to locate the Order URL from the LP DAAC email distribution notice.

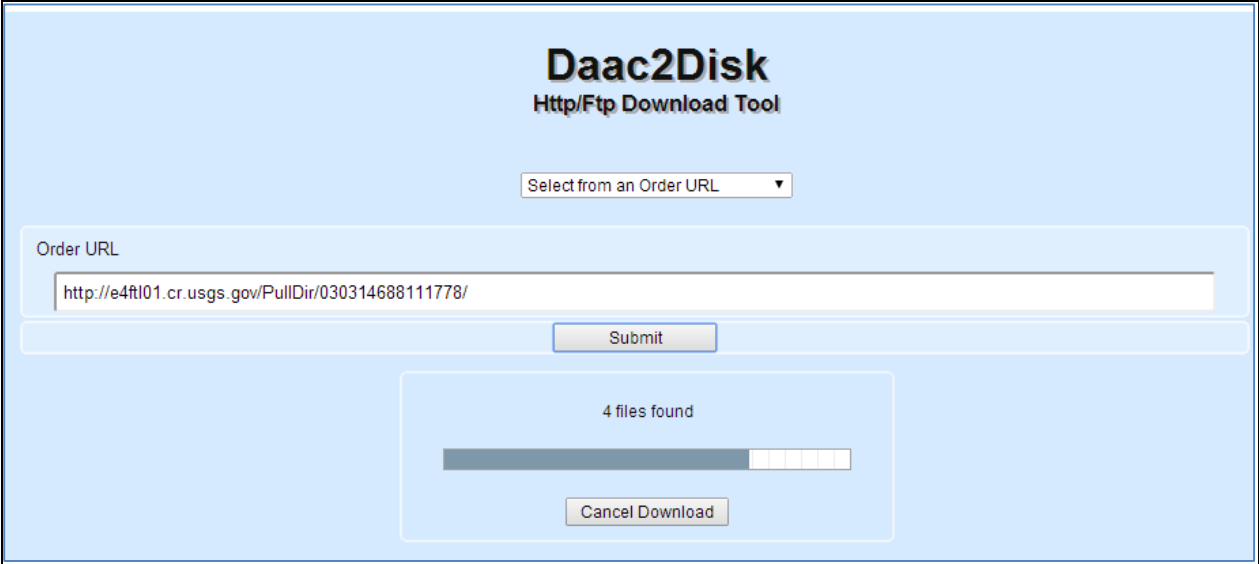


Figure 12 - Select from an Order URL Option