

Wget

cddis.nasa.gov/Data_and_Derived_Products/CDDIS_Archive_Access.html

CDDIS Archive Access

The Crustal Dynamics Data Information System (CDDIS) supports data archiving and distribution activities for a global user community. Since its inception, users have relied on anonymous ftp for accessing and downloading files from the system. Although this protocol allows users to easily automate file downloads, many organizations, data systems, and users have already migrated from ftp or are actively pursuing a move away from the protocol due to problems from a system and security standpoint. U.S. Government agencies have become increasingly concerned about this legacy protocol and ensuring data integrity for the user community and have recently begun to disallow the use of the ftp protocol. The CDDIS, located at NASA GSFC, must therefore address these concerns and provide alternative methods for access to its archive for continued easy and automated download of its contents.

Therefore, the CDDIS will discontinue anonymous ftp access to its archive in October 2020. Users must now begin their transition to utilize more secure access protocols such as https or ftp-ssl.

In order to access the CDDIS archive, users will need to use a client that supports Transport Security Layer (TLS). When using the https protocol (for example, cURL, Wget, or Python commands/scripts) users will need to have an [Earthdata Login](#) account. In addition, when utilizing the cURL and Wget, users will need to create a .netrc file; instructions for creating this file are also [available](#).

Examples of accessing the archive via TLS using various methods can be found below. Click on the name of a method to view the instructions; click on a link within a method to see expected results of that command. In the examples, <email address> means type in your actual email address without the < and > symbols.

[GNU Wget](#) is a free software package for retrieving files using HTTP, HTTPS, FTP, and FTPS, the most widely used Internet protocols.

1. Download Single File

```
-- wget --auth-no-challenge  
"https://cddis.nasa.gov/archive/doris/data/cs2/2017/cs2rx17001.001.Z"
```

```
> wget --auth-no-challenge  
"https://cddis.nasa.gov/archive/doris/data/cs2/2017/cs2rx17001.001.Z"
```

Downloads the file 'cs2rx17001.001.Z' from archive directory /doris/data/cs2/2017/ to your local file system.

2. Get a list of all files in a directory

```
-- wget --auth-no-challenge -qO- "https://cddis.nasa.gov/archive/doris/data/cs2/2017/*?list"
```

```
> wget --auth-no-challenge -qO- "https://cddis.nasa.gov/archive/doris/data/cs2/2017/*?list"
```

```
cs2rx17183.001.Z 1661933  
cs2rx17184.001.Z 1704621  
cs2rx17185.001.Z 1680949  
cs2rx17186.001.Z 1700551
```

```
cs2rx17187.001.Z 1662315
..
..
# Total number of files = 365
# Total file size = 609116926
```

Provides a list of files in archive directory /doris/data/cs2/2017/ directory.

3. Get a list of files in a directory matching a pattern: (cs2rx1700*.001.Z)
-- wget --auth-no-challenge -qO-
"https://cddis.nasa.gov/archive/doris/data/cs2/2017/cs2rx1700*.001.Z*?list"

```
>wget --auth-no-challenge -qO-  
"https://cddis.nasa.gov/archive/doris/data/cs2/2017/cs2rx1700*.001.Z*?list"
```

```
cs2rx17001.001.Z 1597475  
cs2rx17002.001.Z 1710715  
cs2rx17003.001.Z 1649195  
cs2rx17004.001.Z 1716190  
cs2rx17005.001.Z 1640610  
cs2rx17006.001.Z 1726173  
cs2rx17007.001.Z 1645541  
cs2rx17008.001.Z 1717177  
cs2rx17009.001.Z 1665687  
# Total number of files = 9  
# Total file size = 15068763
```

Provides a list of files from archive directory /doris/data/cs2/2017/ with names containing 'cs2rx1700', '.001', and '.Z' in that order.

4. Download Single File via ftp-ssl (requires Wget version 1.18 or higher)
-- wget --ftp-user anonymous --ftp-password <email address>
ftps://gdc.cddis.eosdis.nasa.gov/doris/data/cs2/2017/cs2rx17001.001.Z

```
> wget --ftp-user anonymous --ftp-password <email address>  
ftps://gdc.cddis.eosdis.nasa.gov/doris/data/cs2/2017/cs2rx17001.001.Z
```

Downloads the file 'cs2rx17001.001.Z' from archive directory /doris/data/cs2/2017/ to your local file system.

5. Download all files in a directory via ftp-ssl (requires Wget version 1.18 or higher)
-- wget --ftp-user anonymous --ftp-password <email address> -r
ftps://gdc.cddis.eosdis.nasa.gov/vlbi/ivsdata/ngs/2019/

```
> wget --ftp-user anonymous --ftp-password <email address> -r  
ftps://gdc.cddis.eosdis.nasa.gov/vlbi/ivsdata/ngs/2019/
```

Downloads all files in archive directory /vlbi/ivsdata/ngs/2019/ directory to your local file system.