

ftp-ssl

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 [EarthdataLogin](#) 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.

ftp-ssl is an extension to the commonly used File Transfer Protocol (FTP) that adds support for the Transport Layer Security (TLS).

NOTE: In this technique, the path to the archive is `gdc.cddis.eosdis.nasa.gov`. This is different than for the other techniques.

1. Download Single File

```
-- lftp -d -u anonymous,<email address> -e 'set ftp:ssl-force true' -e 'get  
doris/data/cs2/2017/cs2rx17001.001.Z;exit' gdc.cddis.eosdis.nasa.gov
```

```
> lftp -d -u anonymous,<email address> -e 'set ftp:ssl-force true' -e 'get  
doris/data/cs2/2017/cs2rx17001.001.Z;exit' gdc.cddis.eosdis.nasa.gov
```

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

2. Download an entire directory using lftp:

```
-- lftp -d -u anonymous,<email address> -e 'set ftp:ssl-force true' -e 'mget vlbi/ivscontrol/*;exit'  
gdc.cddis.eosdis.nasa.gov
```

```
> lftp -d -u anonymous,<email address> -e 'set ftp:ssl-force true' -e 'mget vlbi/ivscontrol/*;exit'  
gdc.cddis.eosdis.nasa.gov
```

Downloads all files in the /vlbi/ivscontrol/ directory to your local file system.

3. Log into the archive using ftp commands

```
-- lftp -d -u anonymous,<email address> -e 'set ftp:ssl-force true' gdc.cddis.eosdis.nasa.gov
```

```
> lftp -d -u anonymous,<email address> -e 'set ftp:ssl-force true' gdc.cddis.eosdis.nasa.gov
```

Logs you into the archive enabling you to use any FTP commands.

4. Download Single File via ftp-ssl (requires Wget version 1.18 or higher)

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

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

```
> wget --ftp-user anonymous --ftp-password <email address> -r  
https://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.