

DIAS Data Downloading System

The implementation of the package downloading script

Manual

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■ What is the package downloading script?

There are three methods to download data in the DIAS data downloading system.

1. Click the title of the file from the file list. (choosing one file at a time)
2. Check the files from the file list and then click the **download** button.
3. Click the **download the package downloading script** button to download the script, and then implement the script.

When only one file is needed, please choose Method 1. If you need to download multiple files less than 1,000, please choose Method 2. In the case of downloading a large number of files, Method 3 is recommended. In Method 3, the system will generate a list of needed files and download them directly. The file name of the script is **download.py**.

List of downloadable files

Dataset name	The glacier area of distribution from the topographical map created based on the aerial photograph for 1945 - 47 (sample version)
Description	This data set extracts glacier distribution of the Altai Mongolian area based on the topographical map(1/100,000) which the Soviet Union army created based on the aerial photograph in 1945 - 47. The extraction method performed on GIS glacier distribution indicated to the topographical map by manual work.
Link to the dataset document	http://metadata.diasjp.net/dmm/doc/GI_1945-DIAS-en.html

Directory path specification	Keywords specification
<input type="text" value="/maps/eur/eur_glc"/> <ul style="list-style-type: none">maps<ul style="list-style-type: none">eur<ul style="list-style-type: none">eur_glc<ul style="list-style-type: none">docimg	<input type="text"/> Word matching <input type="text"/> The query can be multiple words which are separated by space. The differences of search modes are as follows. Continue reading
<input type="button" value="Apply"/>	

In the directory box, you can input the directory path manually, and you can also click on the directory name.
In the keyword box, you can specify the part of directory name or the file name. (We recommend partial)
You can specify both the directory and keywords simultaneously.

You can use the batch download script for downloading the files in the following list.
[Download batch download script \(How to use this script\)](#)

- When you are using the search functions, the target files for the download become restricted to the files.
- The target files are all files in all pages regardless of whether each checkbox is checked or not.

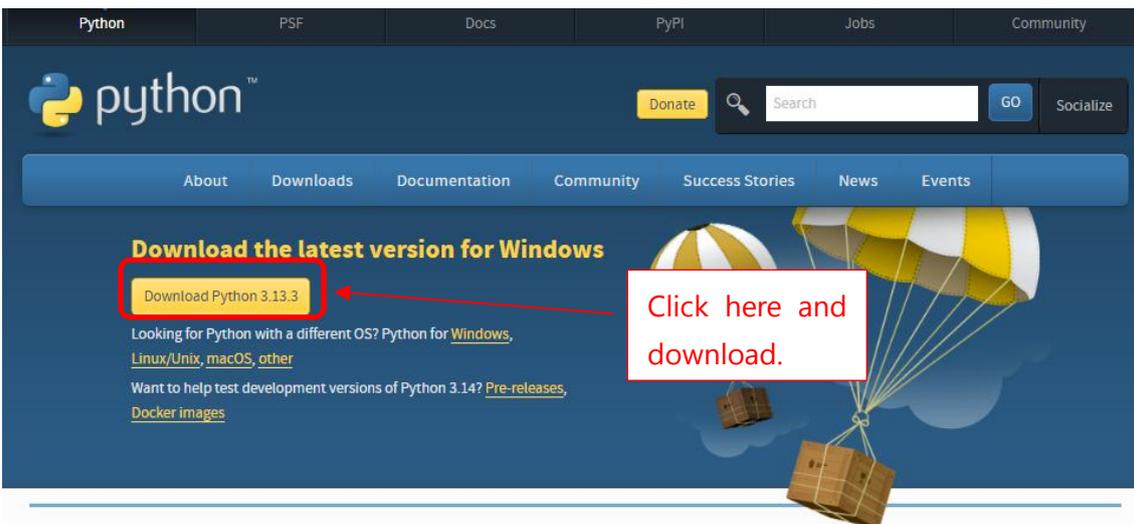
The link to script download is displayed when you choose 50,000 or less files.

Note: The limitation of the files a script can download is the same as the limitation of the files that can be downloaded one day. Please contact dias-office@dias.jp.net if you want to raise the limitation. The link to script download is displayed when you choose 50,000 or less files. You should download the files in several batches if you need to download more than 50,000 files.

- Set the environment to implement the script
Python 3.6 or higher is required for implementing the script.
Download Python from the official site (<http://www.python.org/>) according to your OS and install it.

- Windows

1. Install



Open the **download** tap and click **Python 3.13.3**.

Execute the file and install Python.

During the installation, it is recommended to check the option of **generating python.exe** and **set environment**.

2. Implement **download.py**

Open the command prompt (cmd.exe), navigate to the path where you have saved **download.py** by **cd** command.

For example, if you have saved **download.py** in the directory **script**, type **cd script**. Implement **dir** command to confirm the file.

```
C:\ コマンド プロンプト
e:¥>cd script
e:¥script>dir
ドライブ E のボリューム ラベルは ボリューム です
ボリューム シリアル番号は 20E6-F235 です

e:¥script のディレクトリ
2017/10/11  12:08    <DIR>          .
2017/10/11  12:08    <DIR>          ..
2017/09/12  11:15             924,765 download.py
               1 個のファイル             924,765 バイト
               2 個のディレクトリ 112,004,780,032 バイトの空き領域
```

To implement **download.py**, input the following command, the path of "python.exe" + space + **download.py**. Here is an example if you have installed Python under drive C:

```
python.exe download.py
```

Next, you are asked for your account (e-mail address) and password. Please use the e-mail address and password of your DIAS account.

```
C:¥script>python.exe download.py
Username:
Password:
/jra55/Const/JRA-55.gribtab OK
/jra55/Const/LL125.ctl OK
/jra55/Const/LL125.grib OK
/jra55/Const/LL125.idx OK
/jra55/Const/LL25.ctl OK
/jra55/Const/LL25.grib OK
/jra55/Const/LL25.idx OK
/jra55/Const/TL319.ctl OK
/jra55/Const/TL319.grib OK
/jra55/Const/TL319.idx OK
/jra55/Const/TL319.pdef OK
/jra55/Const/TL319_pdef.ctl OK
C:¥script>
```

An example of the implementation

This system downloads the files in the same directory as **download.py**. The downloaded files are displayed during the implementation.

3. The result of the implementation

If the files are downloaded successfully, "OK" will be shown. Otherwise, "NG" will be

shown.

The files will be saved under the same path as you have registered in the downloading system.

The files will be rewritten when the script is implemented again.

■ Linux

1. Confirm the installation

Confirm the version of Python by inputting "python -version".

Python 3.6 or higher is required.

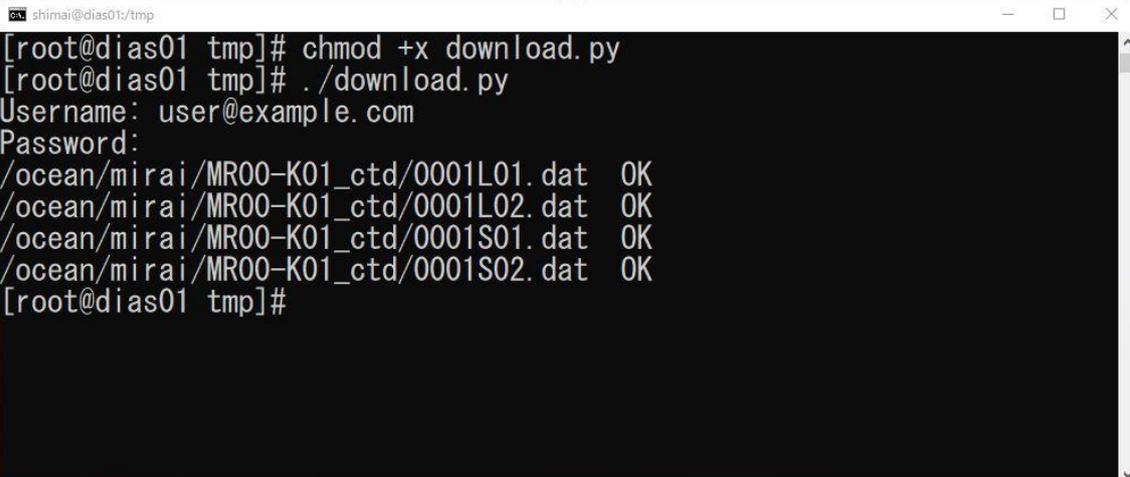
2. Implement **download.py**

Navigate to the path where the script (**download.py**) has been saved from your terminal.

Implement the Python script as follows.

```
chmod +x download.py
./download.py
```

Next, you are asked for your account (e-mail address) and password. Please use the e-mail address and password of your DIAS account.

A terminal window screenshot showing the execution of a Python script. The prompt is [root@dias01 tmp]#. The user enters 'chmod +x download.py' and then './download.py'. The script prompts for 'Username: user@example.com' and 'Password:'. It then lists four files with 'OK' status: /ocean/mirai/MROO-K01_ctd/0001L01.dat, /ocean/mirai/MROO-K01_ctd/0001L02.dat, /ocean/mirai/MROO-K01_ctd/0001S01.dat, and /ocean/mirai/MROO-K01_ctd/0001S02.dat. The terminal ends with the prompt [root@dias01 tmp]#.

```
shimai@dias01/tmp
[root@dias01 tmp]# chmod +x download.py
[root@dias01 tmp]# ./download.py
Username: user@example.com
Password:
/ocean/mirai/MROO-K01_ctd/0001L01.dat OK
/ocean/mirai/MROO-K01_ctd/0001L02.dat OK
/ocean/mirai/MROO-K01_ctd/0001S01.dat OK
/ocean/mirai/MROO-K01_ctd/0001S02.dat OK
[root@dias01 tmp]#
```

An example of the implementation

This system downloads the files in the same directory as **download.py**. The downloaded files are displayed during the implementation.

3. The result of the implementation

If the files are downloaded successfully, "OK" will be shown. Otherwise, "NG" will be shown.

The files will be saved under the same path as you have registered in the downloading system.

The files will be rewritten when the script is implemented again.

■ Mac

1. Confirm the installation

Confirm the version of Python by inputting "python -v" from the terminal.

Python 3.6 or higher is required.

2. Implement **download.py**

Navigate to the path where the script (**download.py**) has been saved from your terminal.

Implement the Python script as follows.

```
chmod +x download.py  
./download.py
```

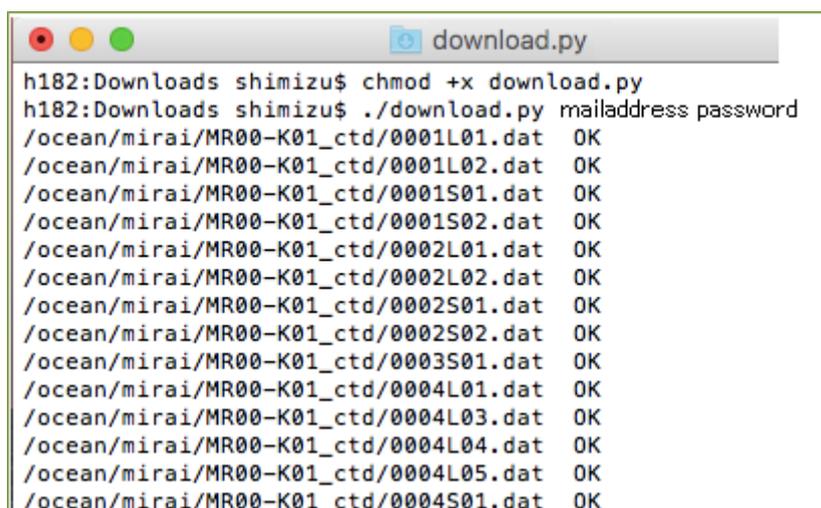
Next, you are asked for your account (e-mail address) and password. Please use the e-mail address and password of your DIAS account.

3. The result of the implementation

If the files are downloaded successfully, "OK" will be shown. Otherwise, "NG" will be shown.

The files will be saved under the same path as you have registered in the downloading system.

The files will be rewritten when the script is implemented again.



```
h182:Downloads shimizu$ chmod +x download.py
h182:Downloads shimizu$ ./download.py mailaddress password
/ocean/mirai/MR00-K01_ctd/0001L01.dat OK
/ocean/mirai/MR00-K01_ctd/0001L02.dat OK
/ocean/mirai/MR00-K01_ctd/0001S01.dat OK
/ocean/mirai/MR00-K01_ctd/0001S02.dat OK
/ocean/mirai/MR00-K01_ctd/0002L01.dat OK
/ocean/mirai/MR00-K01_ctd/0002L02.dat OK
/ocean/mirai/MR00-K01_ctd/0002S01.dat OK
/ocean/mirai/MR00-K01_ctd/0002S02.dat OK
/ocean/mirai/MR00-K01_ctd/0003S01.dat OK
/ocean/mirai/MR00-K01_ctd/0004L01.dat OK
/ocean/mirai/MR00-K01_ctd/0004L03.dat OK
/ocean/mirai/MR00-K01_ctd/0004L04.dat OK
/ocean/mirai/MR00-K01_ctd/0004L05.dat OK
/ocean/mirai/MR00-K01_ctd/0004S01.dat OK
```

An example of the implementation

■ [application] authentication via .netrc (Linux, Mac)

The .netrc file is used by auto-download without input of DIAS account and password.

Create a .netrc file in your home directory as below beforehand.

```
machine data.diasjp.net
login user@example.com (your DIAS account)
password XXXXX
```

If you set up the .netrc file appropriately, the implementation of download.py will not require DIAS account and password and downloading will start immediately.

Note: You must be extremely careful when you set the permission on the .netrc to make DIAS account and password unreadable for everybody except the owner.

■ Restriction

The limitation of the files a script can download is the same as the limitation of the files that can be downloaded one day. Please contact dias-office@dias.jp.net if you want to raise the limitation. The link to script download is displayed when you choose 50,000 or less files. Please download the files in several batches if you need to download more than 50,000 files.

If you have any problems with respect to the implementation, please contact dias-office@dias.jp.net.

Update History

- | | |
|------------|---|
| 2017/10/11 | We created new document. |
| 2019/01/15 | We added that the link to script download is displayed when user choose 50,000 or less files. |
| 2019/07/10 | We added that users should download the files in several batches if they need to download more than 50,000 files. |
| 2020/11/11 | We changed setting method on DIAS account and password. |