

Motu python client

June 24, 2011

NAME

`./motu-client.py`

The motu python client. You must use python version 2.5 or later.

VERSION

This documentation is intended to describe the 1.0.2 version or higher of the motu python client.

SYNOPSIS

This program can be integrated into a processing chain in order to automate the downloading of products via the Motu.

CONFIGURATION FILE

The program parameters are contained in an ini file. This file is located in the following directory:

- on Unix platforms: `$HOME/motu-client/motu-client-python.ini`
- on Windows platforms: `%USERPROFILE%\motu-client/motu-client-python.ini`

The expected structure of file is:

```
[Main]
user=john
pwd=secret
log_level=10
proxy_server=proxy.domain.net:8080
proxy_user=john
proxy_pwd=secret
motu=http://web-qt.cls.fr/mis-gateway-servlet/Motu?service_id=http://purl.org/myocean/ontology
product_id=dataset-psy2v3-pgs-med-myoccean-bestestimate
date_min=2010-11-08 12:00:00
date_max=2010-11-10
latitude_min=-75.0
latitude_max=30.0
longitude_min=20.0
longitude_max=120.0
depth_min=
depth_max=
variable=
out_dir=./out_dir
out_name=test.nc
block_size=65535
socket_timeout=
```

INSTALLATION

Deploy the archive in the directory of your choice. Create a configuration file (see "CONFIGURATION FILE") to inform the user and password to use to connect to the CAS server.

Installing Python modules which are not provided in the standard installation of Python. The list of modules to be installed is described in section "REQUIRED MODULES".

USAGE

Usage: ./motu-client.py -h

Usage: motu-client.py [options]

Options:

--version	show program's version number and exit
-h, --help	show this help message and exit
-q, --quiet	prevent any output in stdout
--verbose	print information in stdout
--noisy	print more information (traces) in stdout
-u USER, --user=USER	the user name (string), mandatory No user name ? You must register to MyOcean
-p PWD, --pwd=PWD	the user password (string), mandatory
--auth-mode=AUTH_MODE	the authentication mode: 'none' (for no authentication), 'basic' (for basic authentication), or 'cas' (for Central Authentication Service) [default: cas]
--proxy-server=PROXY_SERVER	the proxy server (url)
--proxy-user=PROXY_USER	the proxy user (string)
--proxy-pwd=PROXY_PWD	the proxy password (string)
-m MOTU, --motu=MOTU	the motu server to use (url), mandatory Should be something like http://atoll.cls.fr/mfcglo-armor-gate
-s SERVICE_ID, --service-id=SERVICE_ID	The service identifier (string), mandatory Should be something like http://purl.org/myocean/ontology/ser
-d PRODUCT_ID, --product-id=PRODUCT_ID	The product (dataset) to download (string), mandatory Should be something like http://purl.org/myocean/ontology/pro
-t DATE_MIN, --date-min=DATE_MIN	The min date with optional hour resolution (string following 1
-T DATE_MAX, --date-max=DATE_MAX	The max date with optional hour resolution (string following 1

```

-y LATITUDE_MIN, --latitude-min=LATITUDE_MIN
    The min latitude (float in the interval [-90 ; 90])
-Y LATITUDE_MAX, --latitude-max=LATITUDE_MAX
    The max latitude (float in the interval [-90 ; 90])
-x LONGITUDE_MIN, --longitude-min=LONGITUDE_MIN
    The min longitude (float in the interval [-180 ; 180])
-X LONGITUDE_MAX, --longitude-max=LONGITUDE_MAX
    The max longitude (float in the interval [-180 ; 180])
-z DEPTH_MIN, --depth-min=DEPTH_MIN
    The min depth (float in the interval [0 ; 2e31])
-Z DEPTH_MAX, --depth-max=DEPTH_MAX
    The max depth (float in the interval [0 ; 2e31])
-v VARIABLE, --variable=VARIABLE
    The variable (list of strings), you can use netCDF variable names
    Generic standard name table is available here:
http://cf-pcmdi.llnl.gov/documents/cf-standard-names/standard-name-table/16/cf-standard-names
-o OUT_DIR, --out-dir=OUT_DIR
    The output dir (string), mandatory
-f OUT_NAME, --out-name=OUT_NAME
    The output file name (string), mandatory
    Can be a netCDF file or a zip file containing netCDF files, default is OUT_NAME
--block-size=BLOCK_SIZE
    The block used to download file (integer expressing bytes)
--socket-timeout=SOCKET_TIMEOUT
    Set a timeout on blocking socket operations (float expressing seconds)
--user-agent=USER_AGENT
    Set the identification string (user-agent) for HTTP
    requests. By default this value is 'Python-urllib/x.x'
    (where x.x is the version of the python interpreter)

```

REQUIRED MODULES

No module required.

BUGS AND QUESTIONS

Please refer to the documentation for information on submitting bug reports or questions to the author.

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