Motu python client

June 21, 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

out_name=test.nc block_size=65535 socket_timeout=

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
- \bullet 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/ontolog
product_id=dataset-psy2v3-pgs-med-myocean-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
```

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
                              the user password (string), mandatory
        -p PWD, --pwd=PWD
        --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/sea
        -d PRODUCT_ID, --product-id=PRODUCT_ID
                              The product (dataset) to download (string), mandatory
                              Should be something like "http://purl.org/myocean/ontology/pro
```

The min date with optional hour resolution (string following :

The max date with optional hour resolution (string following :

-t DATE_MIN, --date-min=DATE_MIN

-T DATE_MAX, --date-max=DATE_MAX

```
-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 na
                            Generic standard name table is available here:
http://cf-pcmdi.llnl.gov/documents/cf-standard-names/standard-name-table/16/cf-standard-name-
      -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, de
      --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
      --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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