

Propuesta Proyecto

Como propuesta de proyecto planteo descargar datos desde la base de datos de la Nasa disponible en Earthdata Login server, mediante el siguiente script de Python.

```
1#!/usr/bin/python
2from cookielib import CookieJar
3from urllib import urlencode
4
5import urllib2
6
7
8# The user credentials that will be used to authenticate access to the data
9
10username = "<Your Earthdata login username>"
11password = "<Your Earthdata login password>"
12
13
14# The url of the file we wish to retrieve
15
16url = "http://e4ftl01.cr.usgs.gov/MOLA/MYD17A3H.006/2009.01.01/MYD17A3H.A2009001.h12v05"
17
18
19# Create a password manager to deal with the 401 reponse that is returned from
20# Earthdata Login
21
22password_manager = urllib2.HTTPPasswordMgrWithDefaultRealm()
23password_manager.add_password(None, "https://urs.earthdata.nasa.gov", username, password)
24
25
```

```
26# Create a cookie jar for storing cookies. This is used to store and return
27# the session cookie given to use by the data server (otherwise it will just
28# keep sending us back to Earthdata Login to authenticate). Ideally, we
29# should use a file based cookie jar to preserve cookies between runs. This
30# will make it much more efficient.
31
32cookie_jar = CookieJar()
33
34
35# Install all the handlers.
36
37opener = urllib2.build_opener(
38    urllib2.HTTPBasicAuthHandler(password_manager),
39    #urllib2.HTTPHandler(debuglevel=1),    # Uncomment these two lines to see
40    #urllib2.HTTPSHandler(debuglevel=1),    # details of the requests/responses
41    urllib2.HTTPCookieProcessor(cookie_jar))
42urllib2.install_opener(opener)
43
44
45# Create and submit the request. There are a wide range of exceptions that
46# can be thrown here, including HTTPError and URLError. These should be
47# caught and handled.
48
49request = urllib2.Request(url)
50response = urllib2.urlopen(request)
51
52
53# Print out the result (not a good idea with binary data!)
```

```
54  
55body = response.read()  
56print body
```

Disponible como herramienta Open Source . Esto permite acceder a diversos registros como datos meteorológicos, mapas, entre otros.