

WebService to access DCPC Odyssey data

The webservice aims at facilitating DCPC Odyssey data retrieval, particularly it enables users or developers to script their requests and hence to automatically get data.

This short documentation explains how to use the webservice.

Using a valid token.

To access odyssey data, you must have a valid token. Therefore you must ask for an account on DCPC Odyssey portal : <http://dcpcodpi.meteo.fr/openwis-user-portal/srv/en/main.home>

When the administrator creates your account, it gives to you your user name and password,. It is enough to generate a valid token :

<https://geoservices.meteofrance.fr/services/GetAPIKey?>

[username=myusername&password=mypassword](https://geoservices.meteofrance.fr/services/GetAPIKey?username=myusername&password=mypassword)

where the elements myusername and mypassword should be replaced respectively by your user name and your password.

For example, this request :

<https://geoservices.meteofrance.fr/services/GetAPIKey?username=user&password=password>

gives :

<Token>__GdqcZTdkaaRVflx65NsYrw__</Token>

The token __GdqcZTdkaaRVflx65NsYrw__ should be added in the odyssey request as described in the following section.

Request syntax.

The request looks like this :

<https://geoservices.meteofrance.fr/services/odyssey>

?product={name_product}

&time={time_product}

&token={valid_token}

&format={name_format}

The first piece of the request, before the '?', is a static part, containing the name of the service to access data : 'odyssey'.

There are four mandatory parameters to fill in : product, time, token and format. If one of this parameter is missing, you'll receive a 400 HTTP error code ; if the value of the parameter is wrong, it's a 403 HTTP error code.

Parameters	Values allowed	HTTP error code
product	1- RAINFALL_RATE 2- MAXIMUM_REFLECTIVITY 3-HOURLY_RAINFALL_ACCUMULATION	400 if parameter product not present 403 if wrong value of parameter product
time	ISO-8601 compliance required : 'YYYY-MM-DDThh:mm:ssZ'	400 if parameter time not present 403 if wrong value of parameter time
token	__GdqcZTdkaaRVflx65NsYrw__	400 if parameter token not present 401 if wrong value of parameter

		token
format	1- HDF5 2- BUFR	400 if format not present 403 if wrong value of parameter format

Access limitations.

10 new requests / seconde are allowed for near real time data (until 5 days ago).
1 new request / seconde is allowed for archived data (older than 5 days).

Notices for archived data.

The syntax for the archived request is the same as for real time data.
When you ask the webservice for an archived data, the extraction might take some time.