

WebService to access DCPC Long Range Forecast data

The webservice aims at facilitating DCPC Long Range Forecast (lrf) 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 lrf data, you must have a valid token.

Therefore you have to register on DCPC lrf portal : <http://dcpc-lrf.meteo.fr/openwis-user-portal/srv/en/main.home>.

Then ask the administrator to extend your privileges.

The e-mail to gisc_support@meteo.fr should contain :

Object : DCPC Long Range forecast - extended privileges to use download api

The administrator extends your privileges, then you generate a valid token based on your user name and password chosen when subscribing :

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

[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>__GdqzZTdkaaRVflx65NsYrw__</Token>

The token ' __GdqzZTdkaaRVflx65NsYrw__ ' should be added in the request as described in the following section.

Request syntax.

The request looks like this :

<https://geoservices.meteofrance.fr/services/lrf.download>

?model={name_model}

&time={leadtime_model}

&referencetime={referencetime_model}

&grid={grid}

&format={name_format}

&token={token}

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

There are six mandatory parameters to fill in : model, time, referencetime, token, grid 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
model	1- ARPEGE_SF_V5	400 if parameter model not present 403 if wrong value of parameter

		model
time	1- LT1 2- LT2 3- LT3 4- LT4 5- LT5 LT stands for Lead Time.	400 if parameter time not present 403 if wrong value of parameter time
referencetime	ISO-8601 compliance required : 'YYYY-MM'	400 if parameter referencetime not present
token	__GdqczTdkaaRVflx65NsYrw__	400 if parameter token not present 401 if wrong value of parameter token
format	grib2 GRIB2	400 if format not present 403 if wrong value of parameter format
grid	0.75	400 if grid not present 403 if wrong value of parameter grid

Request example.

https://geoservices.meteofrance.fr/services/lrf.download?time=LT1&referencetime=2017-08&token=MY_TOKEN&grid=0.75&model=ARPEGE_SF_V5&format=grib2

Access limitations.

10 new requests / seconde are allowed.