Using the arclink protocol at IPGP Data Center

The **arclink server** at IPGP Data Center is:

```
arclink.ipgp.fr
  Port 18001
```

arclink_fetch tool

To use *arclink_fetch* tool, get the latest release and install it from:

https://www.seiscomp3.org/download.html

Using *arclink_fetch*, the user submits the request (ascii file) to the *arclink server.*

The format of the request is:

`START_TIME END_TIME NETWORK STATION CHANNEL LOCATION`

Examples:

- retrieve an inventory of data available in the data center

  Request file (*request.txt*) looks like:

  ```
  2016,1,1,0,0,0 2035,1,1,0,0,0 * * * *
  ```

  submitting the request:

```
arclink_fetch  -a arclink.ipgp.fr:18001 -u myemail@location -k inv -v -o
inventory.xml request.txt
```

- retrieve miniseed data

  Request file (*request.txt*) looks like:

  ```
  2018,10,25,0,0,0 2018,10,31,0,0,0 WI BIM * *
  ```

  submitting the request:

```
arclink_fetch -a arclink.ipgp.fr:18001 -u myemail@location -k mseed -v -o
WI.BIM.mseed request.txt
```

The ObsPy Library

Obspy (http://obspy.org) is a Python Toolbox for processing seismological data.

Example using ObsPy in a Python script to submit an arclink request:

```
from obspy.core import UTCDateTime
from obspy.arclink.client import Client

client = Client(host='arclink.ipgp.fr', port=18001, user='myemail@location',
debut=False) client.status_delay=3
t=UTCDateTime(("2011-01-10 18:36:59")
st = client.getWaveform("G", "RER", "00", "BH*", t, t + 60 * 60)
st.plot()
```