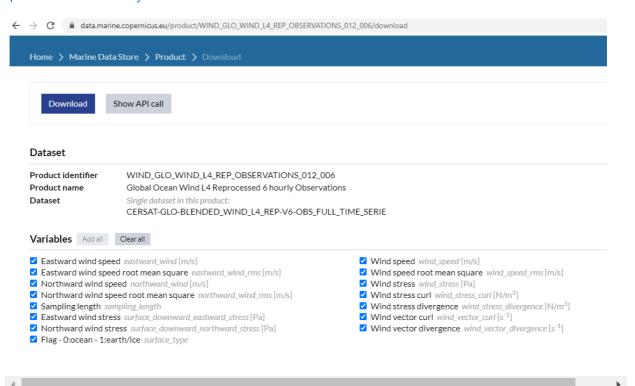
Download data from Copernicus using MOTU Client...

Página para download e gerar API:

https://data.marine.copernicus.eu/product/WIND_GLO_WIND_L4_REP_OBSERVATIONS_012_006/dow

Tutorial:

https://help.marine.copernicus.eu/en/articles/6725319-how-to-download-data-for-a-recurring-period-over-several-years-via-the-motu-client



API copiada da página para usar como referência, especialmente para obter o 'serviceID' e 'productID' e o nome das variáveis!:

python -m motuclient --motu https://my.cmems-du.eu/motu-web/Motu --service-id WIND_GLO_WIND_L4_REP_OBSERVATIONS_012_006-TDS --product-id CERSAT-GLO-BLENDED_WIND_L4_REP-V6-OBS_FULL_TIME_SERIE --longitude-min -49 --longitude-max -40 -- latitude-min -3 --latitude-max 1 --date-min "2019-12-31 18:00:00" --date-max "2019-12-31 18:00:00" --variable eastward_wind --variable northward_wind --variable surface_type --out-dir --out-name --user --pwd

```
import os
import datetime
import getpass
import motuclient
```

É necessário obter um 'username' e 'password' para poder acessar e baixar os dados!

```
In [2]: # Copernicus Marine Credentials
USERNAME = 'cschettini'
PASSWORD = getpass.getpass("Enter your password: ")
```

```
In [3]:
         out_dir = f'{os.getcwd()}\\data'
         out_name = 'wind.nc'
          serviceID = "WIND_GLO_WIND_L4_REP_OBSERVATIONS_012_006"
          productID = "CERSAT-GLO-BLENDED_WIND_L4_REP-V6-OBS_FULL_TIME_SERIE"
         lon = (-49, -40)
         lat = (-3, 1)
         var = "--variable eastward_wind --variable northward_wind --variable surface_type "
         start_date = datetime.datetime(2000, 1, 1, 12)
         end_date = datetime.datetime(2000, 2, 28, 12)
         query = f'python -m motuclient --motu https://my.cmems-du.eu/motu-web/Motu \
                  --service-id {serviceID}-TDS --product-id {productID} \
                  --longitude-min {lon[0]} --longitude-max {lon[1]} --latitude-min {lat[0]} --
                 --date-min "{start_date}" --date-max "{end_date}" \
                 {var} \
                  --out-dir {out_dir} --out-name {out_name} --user {USERNAME} --pwd {PASSWORD}
         os.system(query)
```

Out[3]: 0