

## Web interface to explore and download data

The User Data Gateway (UDG) builds on a THREDDS data server which provides different web interfaces to explore and access the datasets. For instance, the NetCDF Subset Service allows to select (and download as a NetCDF file) a subset of the data (some variables in a particular region for a particular time slice).

In this example, we illustrate the use of this service to select geo-temporal data subsets from the ERA-Interim (predictors for downscaling) dataset (available for VALUE and CORDEX-ESD users). We start by clicking in the catalog link of the corresponding dataset:

- Predictors from ERA-Interim [?\(catalog\)](#)

Then resulting web page (shown in the figure below) allows selecting a number of variables (by clicking in the corresponding checkbox), geographical domain (by choosing the boundary coordinates of the spatial subset), and period (by specifying the initial and end date of the time subset). Note that the horizontal (and temporal) stride options allow selecting a sub-sampled spatial (and temporal) subsets, e.g. 3 = every third point (or time steps). Note that the 3D predictors are labelled as "VARLEVEL", where VAR is the name of the variable and LEVEL denotes the vertical coordinate (in mb); e.g. T850 refers to 850mb temperature.

After selecting the subset of interest, the button "Submit" allows sending the request resulting in a NetCDF file. **Note that this service is not efficient to download the whole global dataset.**

The screenshot shows a web browser window with the URL `meteo.unican.es`. The page title is "NCSS for Grids ( Grid as Point Dataset )". The main content area is titled "Dataset: /tds7/ncss/interim/daily/interim20\_daily.ncml ( Dataset Description )" and "Base Time: 1979-01-01T12:00:00Z".

On the left, under "Select Variable(s):", there is a list of variables with checkboxes. The list is divided into "Variables with Time coordinate time" and other variables. The list includes:

- 2T = 2m Temperature
- MN2T = Daily minimum 2-m temperature
- MX2T = Daily maximum 2-m temperature
- Q1000 = Specific humidity
- Q250 = Specific humidity
- Q500 = Specific humidity
- Q700 = Specific humidity
- Q850 = Specific humidity
- SLP = Mean Sea Level Pressure
- SST = Sea surface temperature
- T1000 = Temperature
- T250 = Temperature
- T500 = Temperature
- T700 = Temperature
- T850 = Temperature
- TP = Total precipitation @ Ground or water surface
- U1000 = U velocity
- U250 = U velocity
- U500 = U velocity
- U700 = U velocity
- U850 = U velocity
- V1000 = V velocity
- V250 = V velocity
- V500 = V velocity
- V700 = V velocity
- V850 = V velocity
- Z1000 = Geopotential
- Z250 = Geopotential
- Z500 = Geopotential
- Z700 = Geopotential
- Z850 = Geopotential

On the right, under "Choose Spatial Subset:", there is a map of the world with a bounding box. Below the map, the "Lat/lon subset" section shows "Coordinate subset" and "Bounding box, in decimal degrees (Initial extents are approximate):". The bounding box is defined by "north: 90.0000", "south: -90.0000", "west: -180.0000", and "east: 180.0000". There is a checkbox for "Disable horizontal subsetting" which is checked, and a note "reset to full extension".

Below that, the "Horizontal Stride:" is set to "1".

Under "Choose Time Subset:", the "Time range" is "Single time". The "Start:" is "1979-01-01T12:00:00Z" and the "End:" is "2012-12-31T12:00:00Z". The "Stride:" is "1" and there is a note "reset to full extension".

Below that, the "Add 2D Lat/Lon to file (if needed for CF compliance)" section has a checkbox for "Add Lat/Lon variables" which is unchecked.

Under "Choose Output Format:", the "Format:" is "netcdf".

At the bottom, the "NCSS Request URL:" is displayed in a text box:

```
http://www.meteo.unican.es/tds7/ncss/interim/daily/interim20_daily.ncml/dataset.html/tds7/ncss/interim/daily/interim20_daily.ncml?
disableLLSubset=on&disableProjSubset=on&horizStride=1&time_start=1979-01-01T12:00:00Z&time_end=2012-12-
31T12:00:00Z&timeStride=1&accept=netcdf
```

Below the URL are "Submit" and "Reset" buttons.