

## **Wikiprint Book**

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## 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 dataset is identified as `/tds7/ncss/interim/daily/interim20_daily.ncml` with a base time of `1979-01-01T12:00:00Z`. The interface is divided into several sections:

- Select Variable(s):** A list of variables with checkboxes, categorized under "Variables with Time coordinate time". Variables include temperature (2T, MN2T, MX2T, T1000, T250, T500, T700, T850), humidity (Q1000, Q250, Q500, Q700, Q850), pressure (SLP), sea surface temperature (SST), precipitation (TP), and wind velocity (U and V at various levels).
- Choose Spatial Subset:** A map of the world with a bounding box. Below the map, the bounding box is defined in decimal degrees: north (90.0000), south (-90.0000), west (-180.0000), and east (180.0000). There is a checkbox for "Disable horizontal subsetting" which is checked.
- Horizontal Stride:** A text input field set to `1`.
- Choose Time Subset:** A section for "Time range" and "Single time". The start time is `1979-01-01T12:00:00Z` and the end time is `2012-12-31T12:00:00Z`. The stride is set to `1`.
- Add 2D Lat/Lon to file (if needed for CF compliance):** A checkbox for "Add Lat/Lon variables" which is unchecked.
- Choose Output Format:** A dropdown menu set to `netcdf`.

At the bottom, the "NCSS Request URL:" is displayed as a long URL with query parameters. Below the URL are "Submit" and "Reset" buttons.