4 – ERA-CLIM2 Global Registry

Development of a global registry (Metadata-base) that can list sources of historical meteorological observations useful for Reanalyses, including surface, upper air, maritime and other relevant data

Provide a valuable information tool for data rescue community

- Avoid duplication of efforts (inventoring, imaging, digitising)

- Compilation of inventories from large data rescue projects and recently digitised data, such as ERA-CLIM, ISPD, ISTI, ECA&D, ICA&D, ICOADS, CHUAN, IGRA, IEDRO, ACRE (several regional data rescue initiatives) ,etc. and I-DARE (WMO Portal for Data Rescue).

- A Metadata Base tool was developed by UBERN for ERA-CLIM that includes surface, upper air and transmission records. It is on-line (http://www.oeschger-data.unibe.ch/metads/index.php?_site=dataset&item-id=ds_eraclim_surf) and is editable – new records can be added (Stickler et al, 2014, BAMS) and contains the official ERA-CLIM inventories.

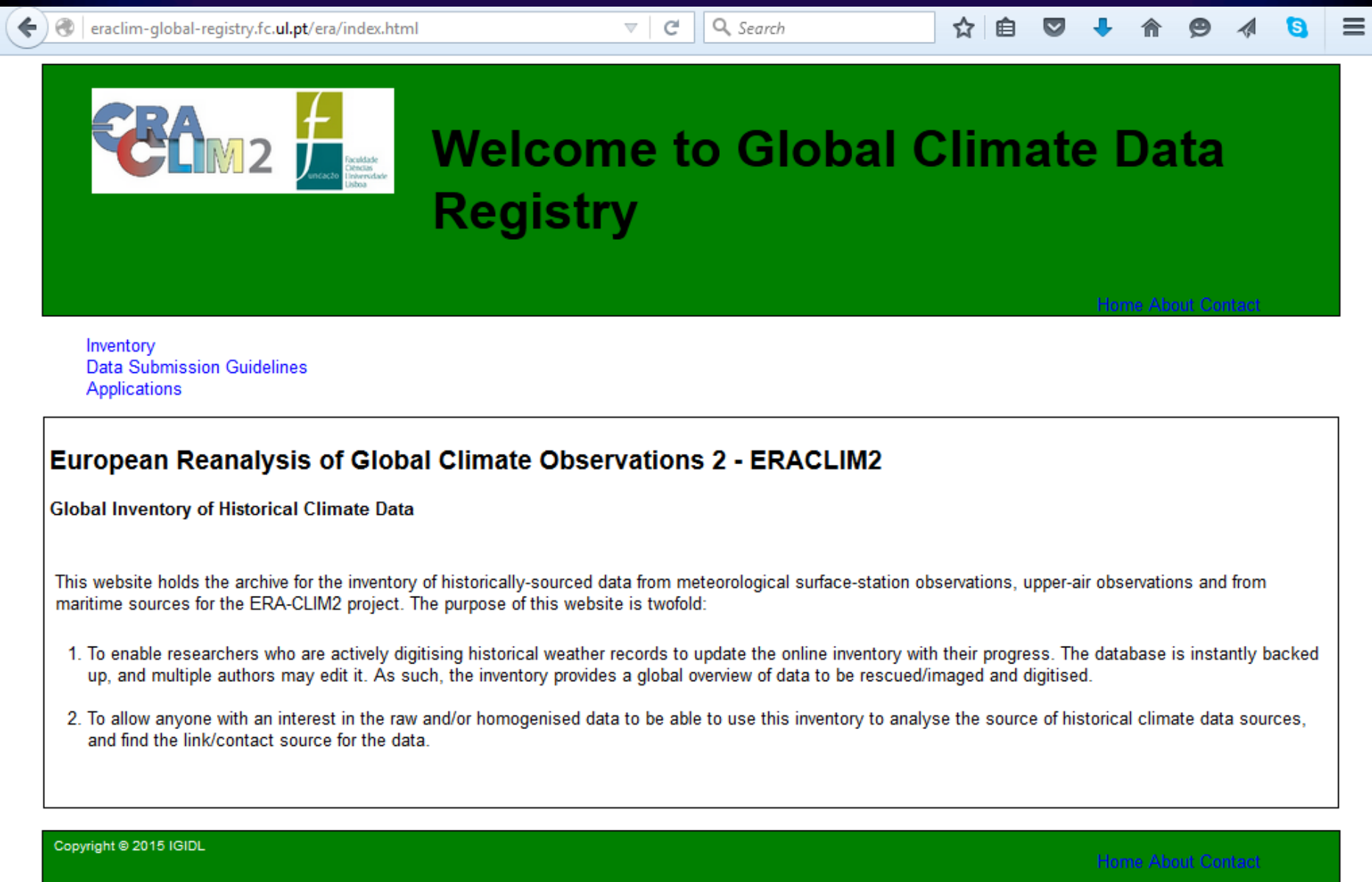# Example of ERA-CLIM Metadata-Base (surface stations)

The source code for the UBERN tool proved difficult to adapt to include new inventories.

FFCUL produced a new code in html, php and JavaScript, using the dhtmlxGrid package (ref.) (ideal for editable tables in websites). Much of the previous ERA-CLIM Metadata-base information was retained and the inventories were uploaded and adapted to the new software.

eraclim-global-registry.fc.ul.pt/era/index.html
the new prototype ERA-CLIM2 metadatabase tool

eraclim-global-registry.fc.ul.pt/era/index.html

Search

Welcome to Global Climate Data Registry

Inventory
Data Submission Guidelines
Applications

European Reanalysis of Global Climate Observations 2 - ERACLIM2

Global Inventory of Historical Climate Data

This website holds the archive for the inventory of historically-sourced data from meteorological surface-station observations, upper-air observations and from maritime sources for the ERA-CLIM2 project. The purpose of this website is twofold:

1. To enable researchers who are actively digitising historical weather records to update the online inventory with their progress. The database is instantly backed up, and multiple authors may edit it. As such, the inventory provides a global overview of data to be rescued/imaged and digitised.

2. To allow anyone with an interest in the raw and/or homogenised data to be able to use this inventory to analyse the source of historical climate data sources, and find the link/contact source for the data.

Click on Inventory, then chose the type of inventory

Chosing Surface Data or another type of inventory, leads to the user/password login webpage

Login: idl
Password: lisbon

Global Climate Data Registry - ERACLIM2 Project

CRA

ws	dir	ps	pst	sat	grass	so	hur	hus	dew	wet	cloud	su	pr	Comment	Level 0	Leve 1	Level 2	Leve 3	Leve 4	Level 5	Link
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☑	☑	☑	☐	☑	☑	☐	☑	☐	☐	☑	☑	☑	☐	1864-1900 pressure in digital format	☐	☐	☐	☐	☐	☐	
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11	IDL	66390	Sa da Bandeira	Angola	13.5	-14.88	1826	01/01/1953	31/12/1974	3	6940	☑	☑	☑	☐
5	IDL	-9999	Lobito	Angola	13.53	-12.37	1	01/01/1953	31/12/1974	3	6940	gap for the 1969-1970 years	☑	☐	☐	☐	☐	☐
6	IDL	66160	Luanda	Angola	13.22	-8.81	42	01/01/1947	31/12/1974	3	9131	gap for the 1969-1970 years	☑	☐	☐	☐	☐	☐
7	IDL	-9999	Malange	Angola	16.37	-9.33	1145	01/01/1953	31/12/1974	3	6940	gap for the 1969-1970 years	☑	☐	☐	☐	☐	☐
8	IDL	66447	Movinga	Angola	20.35	-15.83	1188	01/01/1953	31/12/1974	3	6940	gap for the 1969-1970 years	☑	☐	☐	☐	☐	☐
9	IDL	66422	Mossamedes	Angola	12.15	-15.2	3	01/01/1953	31/12/1974	3	6940	gap for the 1969-1970 years	☑	☐	☐	☐	☐	☐
10	IDL	06318	Nova Lisboa	Angola	15.75	-12.8	1700	01/01/1953	31/12/1974	3	6940	gap for the 1969-1970 years	☑	☐	☐	☐	☐	☐

Clicking on the altitude of each station will show a map with the station's location (e.g. Trappes where radiosonde data has been rescued)

Chosing the Global Map of Upper Air or Surface stations leads the option of plotting all stations or zoomming on a particular region (e.g. Germany) and locate a station (e.g. Darmstadt)

It is also possible to plot the Surface stations on Google Earth

All stations to be included in ISPD version4
We have received their inventory, and have atributed a country to every point, so that the listing by country can be performed
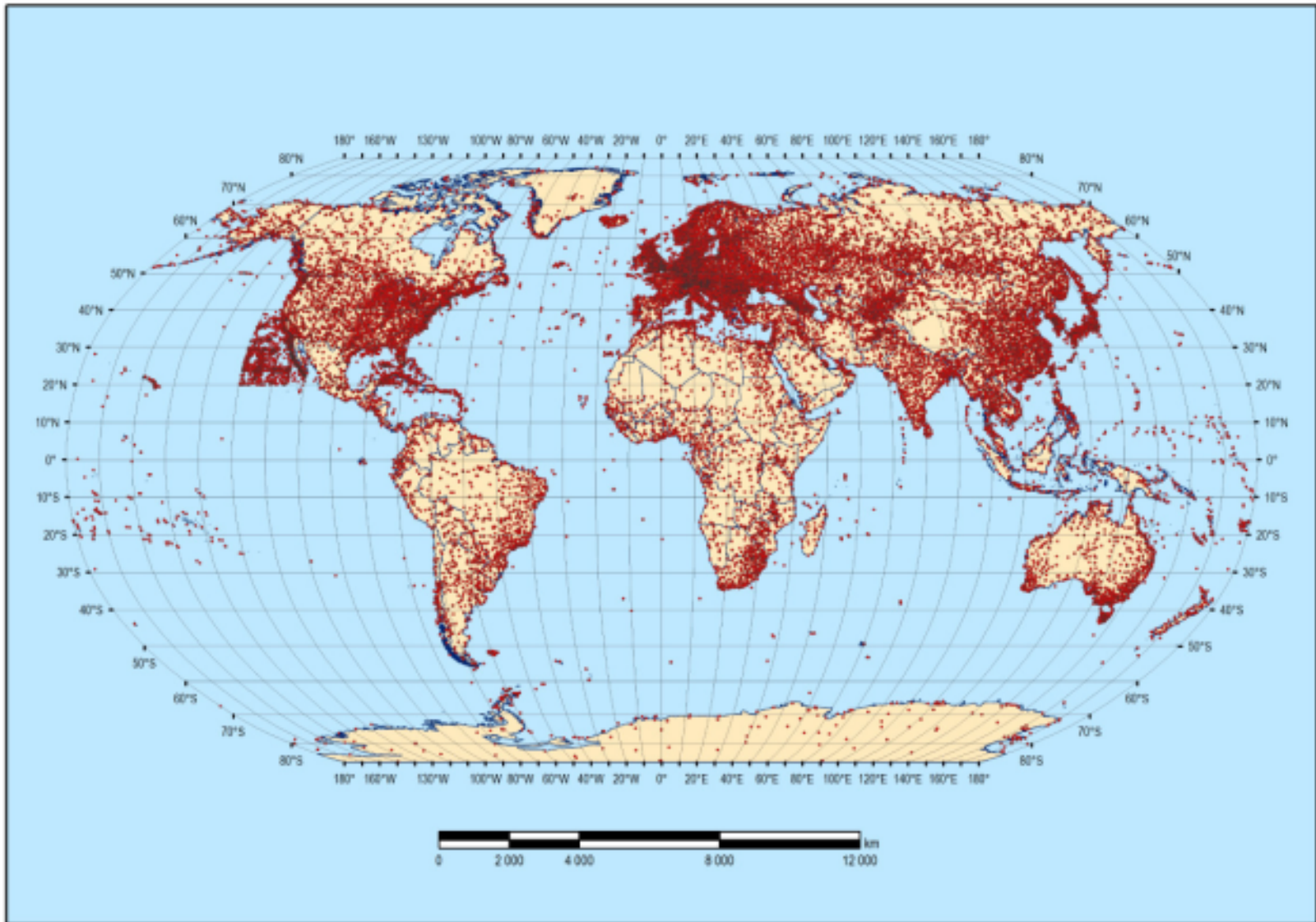
ERA-CLIM2 Global Registry

We are after the possibility of having the inventory management included in the Climate Change **COPERNICUS** services, won by the **ECMWF**. IDL will apply with this prototype to an eventual future call on observations services.

Much work has yet to be done on the Global Registry:

Change the database to SQL to speed the loading of inventories, allow interactive use by registered users (input data, under strict management control), export inventories with chosen stations for user download, visualisation improvements.

And obtain other inventories to add to the existing ones, related basically with ERA-CLIM2

We are completely open to suggestions from the ERA-CLIM2 community and willing to discuss this tool.