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OESCHGER CENTRE
CLIMATE CHANGE RESEARCH

ERA
CLIM2

GA ERA-CLIM2

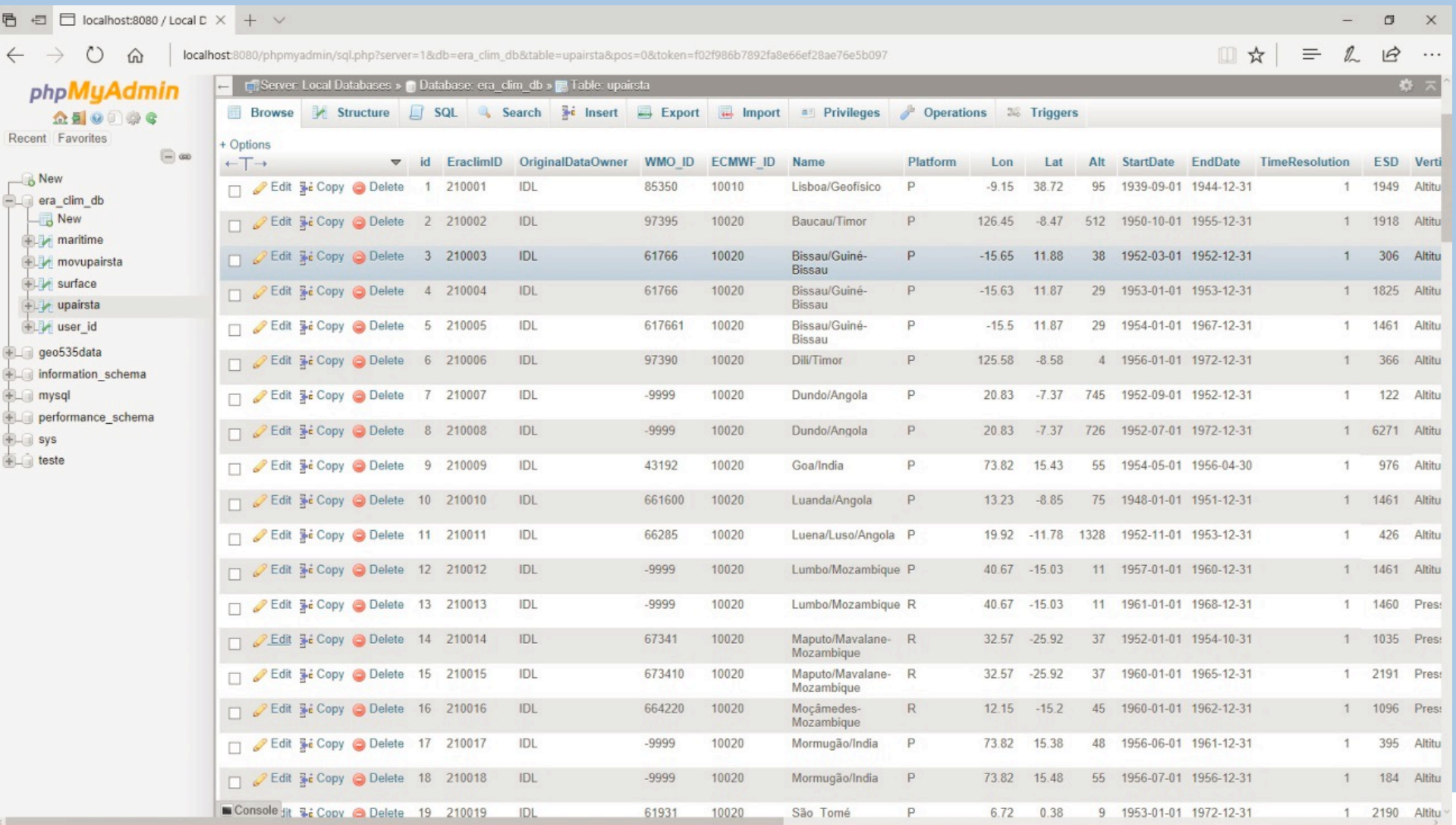
WP3 Overview

Stefan Brönnimann

Overview

- > Work achieved during last 9 months
 - D.3.3
 - D.3.6, 3.7
 - D.3.10, 3.13, 3.14
 - D.3.19
- > Outreach and publications

Registry -> Updated, Delivered



The screenshot shows the phpMyAdmin interface for a MySQL database named 'era_clim_db'. The table 'upairsta' is selected, displaying a list of climate data entries. The table has 19 columns: id, EraclimID, OriginalDataOwner, WMO_ID, ECMWF_ID, Name, Platform, Lon, Lat, Alt, StartDate, EndDate, TimeResolution, ESD, and Verti. The data includes entries for various locations such as Lisboa/Geofisico, Baucau/Timor, Bissau/Guiné-Bissau, Dundo/Angola, Goa/India, Luanda/Angola, Luena/Luso/Angola, Lumbo/Mozambique, Maputo/Mavalane-Mozambique, and São Tomé.

id	EraclimID	OriginalDataOwner	WMO_ID	ECMWF_ID	Name	Platform	Lon	Lat	Alt	StartDate	EndDate	TimeResolution	ESD	Verti
1	210001	IDL	85350	10010	Lisboa/Geofisico	P	-9.15	38.72	95	1939-09-01	1944-12-31	1	1949	Altitu
2	210002	IDL	97395	10020	Baucau/Timor	P	126.45	-8.47	512	1950-10-01	1955-12-31	1	1918	Altitu
3	210003	IDL	61766	10020	Bissau/Guiné-Bissau	P	-15.65	11.88	38	1952-03-01	1952-12-31	1	306	Altitu
4	210004	IDL	61766	10020	Bissau/Guiné-Bissau	P	-15.63	11.87	29	1953-01-01	1953-12-31	1	1825	Altitu
5	210005	IDL	617661	10020	Bissau/Guiné-Bissau	P	-15.5	11.87	29	1954-01-01	1967-12-31	1	1461	Altitu
6	210006	IDL	97390	10020	Dili/Timor	P	125.58	-8.58	4	1956-01-01	1972-12-31	1	366	Altitu
7	210007	IDL	-9999	10020	Dundo/Angola	P	20.83	-7.37	745	1952-09-01	1952-12-31	1	122	Altitu
8	210008	IDL	-9999	10020	Dundo/Angola	P	20.83	-7.37	726	1952-07-01	1972-12-31	1	6271	Altitu
9	210009	IDL	43192	10020	Goa/India	P	73.82	15.43	55	1954-05-01	1956-04-30	1	976	Altitu
10	210010	IDL	661600	10020	Luanda/Angola	P	13.23	-8.85	75	1948-01-01	1951-12-31	1	1461	Altitu
11	210011	IDL	66285	10020	Luena/Luso/Angola	P	19.92	-11.78	1328	1952-11-01	1953-12-31	1	426	Altitu
12	210012	IDL	-9999	10020	Lumbo/Mozambique	P	40.67	-15.03	11	1957-01-01	1960-12-31	1	1461	Altitu
13	210013	IDL	-9999	10020	Lumbo/Mozambique	R	40.67	-15.03	11	1961-01-01	1968-12-31	1	1460	Pres
14	210014	IDL	67341	10020	Maputo/Mavalane-Mozambique	R	32.57	-25.92	37	1952-01-01	1954-10-31	1	1035	Pres
15	210015	IDL	673410	10020	Maputo/Mavalane-Mozambique	R	32.57	-25.92	37	1960-01-01	1965-12-31	1	2191	Pres
16	210016	IDL	664220	10020	Moçâmedes-Mozambique	R	12.15	-15.2	45	1960-01-01	1962-12-31	1	1096	Pres
17	210017	IDL	-9999	10020	Mormugão/India	P	73.82	15.38	48	1956-06-01	1961-12-31	1	395	Altitu
18	210018	IDL	-9999	10020	Mormugão/India	P	73.82	15.48	55	1956-07-01	1956-12-31	1	184	Altitu
19	210019	IDL	61931	10020	São Tomé	P	6.72	0.38	9	1953-01-01	1972-12-31	1	2190	Altitu

QC'ed Data -> Delivered

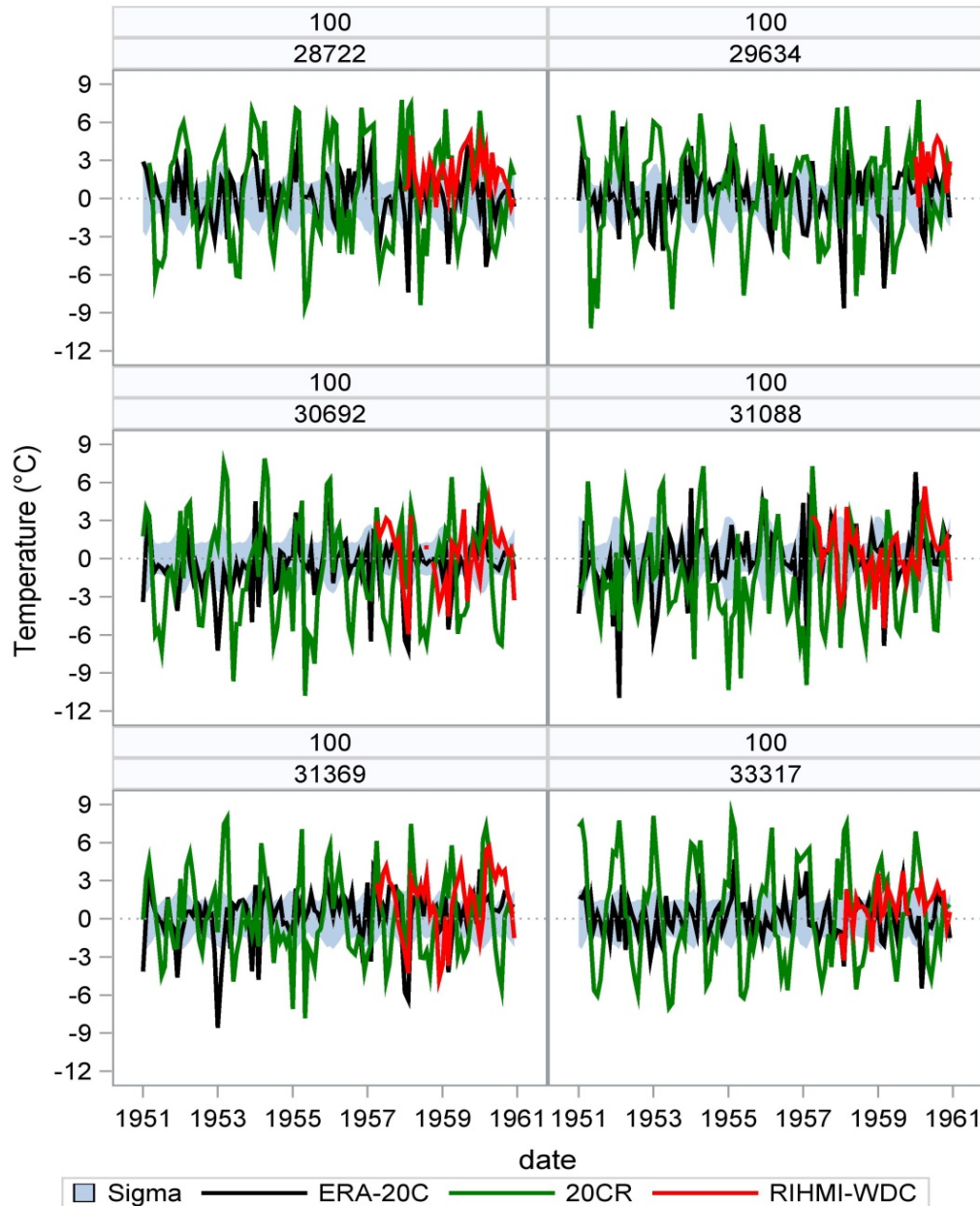
Table 2: Upper-air observations (in station days) digitized and processed within ERA-CLIM and ERA-CLIM2 (CHUANv2.1, <http://giub-torrent.unibe.ch/eraclim2>).

Source	Imaged	Digitized	QC'ed
Russian radiosonde data, for 41 stations, 1938-1964	167401	167401	167401
Daily Weather Report, Germany, 1903-1934	118020	117837	114187
India Meteorol. Dept., 1928-1936	113779	113779	113779
Indian Daily Weather Report, 1938-1942	106379	106379	106379
Pakistan daily Weather report, 1949-1956	101714	101714	101714
Daily Weather Report, Cairo, 1920-1953	68184	68184	68184
Aerological Observations, Netherlands, 1909-1940	59054	59054	59054
Internatioanl Days, 1923-1928	53883	53883	53725
Monthly Bulletin, Portugal, 1938-1956	27402	23292	23292
Annual Bulletin, Finland, 1919-1934	19583	19583	19583
Moving upper-air data, 1888-1947	9000	9000	9000
MétéoFrance Data Base, 1948-1958	0	33818	33818
Comptes Rendus, 1923-1957	216608	86476	67201
Other French sources, 1900-1957	98894	35375	25210
Spanish data, 1913-1961	15239	5011	5011
Portuguese Annals, 1912-1972	28772	28772	28772
Other sources, upper-air	77632	75746	75762

RIHMI: Upper-air data

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Panel: monthly anomalies for 100hPa Temperature for group of 6 stations for 1951-1960

Grey shaded – monthly climatology sigmas

ERA-20C – black

20CR v2 – green

RIHMI digitized - red

ERA-20C better corresponds to climatology!

METFR: Digitising and QC'ed series

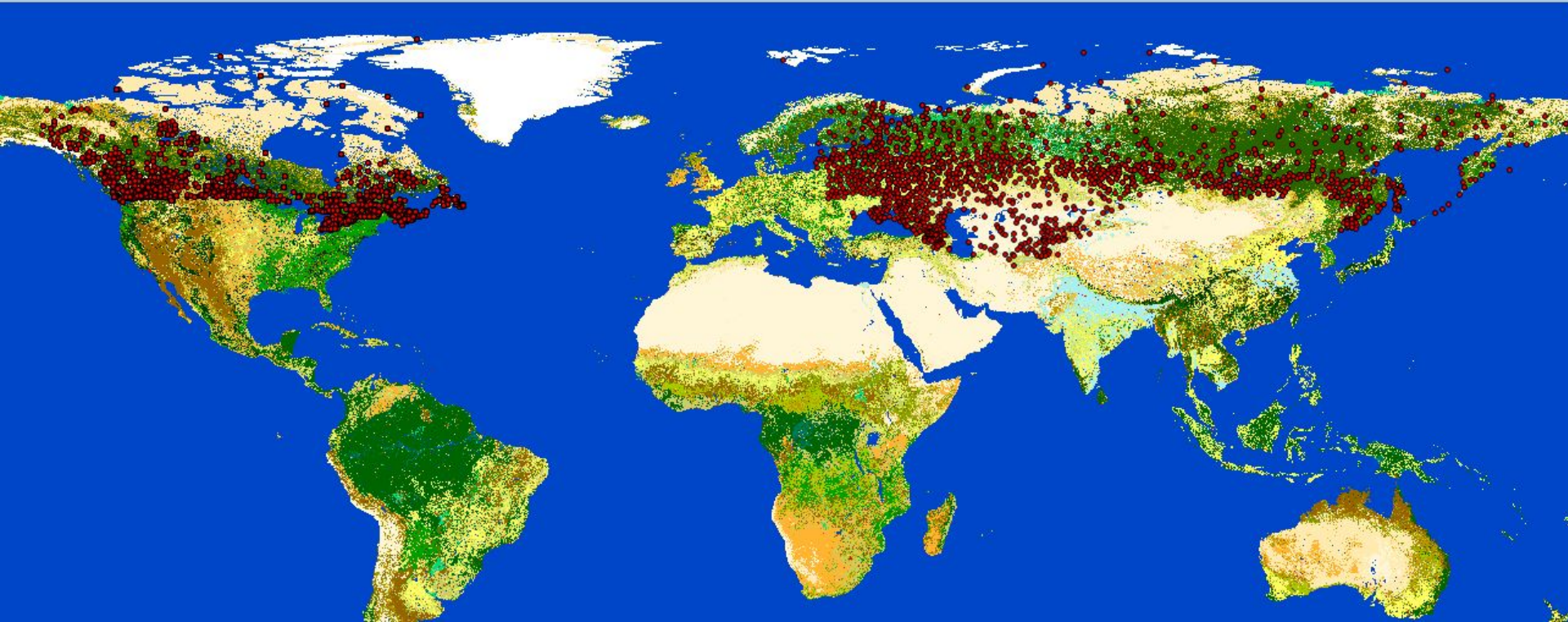
- > Digitisation is prepared by experts in Climate data Rescue.
- > Keying is mainly outsourced, only 20 % is performed by METFR.
- > Basic QC before delivery (unit, thresholds)
- > 176 out of 413 lines of ERA-CLIM2 inventory identified as high priority
- > Two deliveries of QC'ed series in 2017 (June and October)
- > Status today:
- > Upper-air digitising has been completed for 145 high priority lines of ERA-CLIM2 inventory (82 % of high priorities lines).
- > Few digitised series have not been supplied (QC in process)

- > D3.10: PENDING - Expected to be completed by 15 Jan 2018 (data processing to be finished by Monday; then report needs to be prepared)

- > D3.13: PENDING - Expected to be completed by 25 Jan 2018 (AMV data processing still ongoing and will take till Jan to be completed)

- > D3.14: PENDING - Expected to be completed by 12 Jan 2018 (all re-processing finished; report is being prepared)

FMI: Snow course data



- Time period 1935-2009 (30 000 snow courses)
- Total number of observations around 1 million
- Variables (average values from distributed samples):
 - Snow Water Equivalent (SWE)
 - Snow Depth (SD)
 - Snow Density

Outreach

- > Common WP3 Publication: Submitted to BAMS
- > Researcher's night: video
- > Researcher's night: website
- > Book publication
- > Many other publications