



Expert Team on Climate Data Rescue – the web-portal

Ingeborg Auer



EUMETNET
EUROPEAN METEOROLOGICAL SERVICES NETWORK



ZAMG
Zentralanstalt für
Meteorologie und
Geodynamik

Expert team data rescue



time frame: 2 years

to observe already existing data rescue activities

to find remaining gaps, not to double already existing work

to provide information on the EUMETNET web-site

21.05.2014

Folie 2

we are looking for :

instrumental data

really long-term (centennial stations)

mountain stations > 50 years

data sparse regions

overall goals

- near future: to provide a “preliminary” data inventory of digital existing data and of data to be rescued
- to increase the number digitised records (as far as possible)
- faraway future : to search projects or other support to facilitate data rescue
- to homogenize digital existing data when necessary
- to make these data publicly available

21.05.2014

Folie 3

The team

Austria: I. Auer, B. Chimani, A. Jurkovic
Belgium: M. Vandiepenbeeck
Czech Republic: M. Repka
Croatia: J. Milkovic
Cyprus: **M. Panayiotis, F. Tymvios** ????
Estonia: Ain Kallis
Finland: Anna Frey
Germany: H. Mächel
Hungary: M. Lakatos
Ireland: S. Walsh
Italy: G. Mondacchini
Latvia: L. Lizuma
Lithuania: J. Kilpys
Netherlands: A. van Engelen, Ge Verver
Norway: E. Lundstad
Poland: D. Limanowka, P. Kilar
Romania: E. Mateescu, A. Manea
Slovakia: D. Galo
Slovenia: M. Nadbath
Sweden: W. Josefsson
Switzerland: H. Kunz
Spain: J. Guijarro, M. Brunet, Marc Prohom
United Kingdom: M. McCarthy



Questionnaire

Only 23 countries responded, especially countries outside Europe and some big players did not answer

some questions were formulated unclear - answers were not always comparable

NMSs have realized the necessity of data rescue

NMSs have realized the necessity of metadata

Not all NMSs are aware of the data slumbering in their archives

a lack of resources is the greatest obstacle to data rescue

data policy is still a stumbling block for some countries for free data access

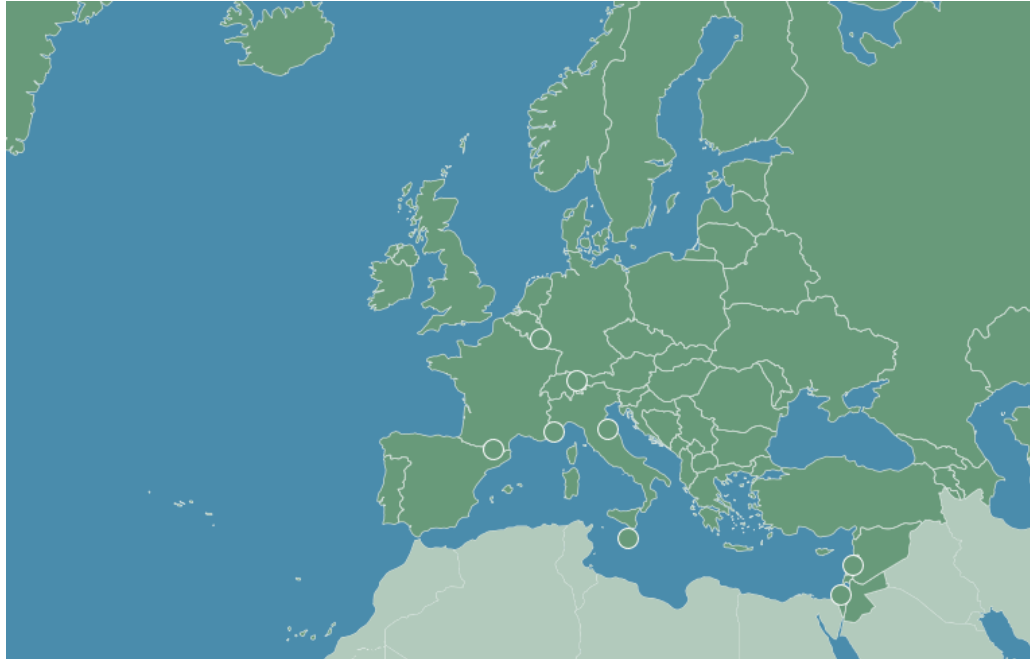
there are more monthly than daily data

number of interviewees to be extended

21.05.2014

Folie 5

<https://www.zamg.ac.at/dare/>



21.05.2014

Folie 6

information based on questionnaire sent to all NMHSs in WMO RAVI
filling of the web-page is an ongoing process
other sources – ECA&D – MEDARE – WMO activities

<https://www.zamg.ac.at/dare/activities/data-inventory>



available data

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Folie 7

name	temporal resolution	temperature	start	end	data gaps (T) (years)	fillable (T)	humidity	start	end	data gaps (humidity) (years)	cloudiness	start	end	data gaps (cloudiness) (years)	precipitation	start	end	data gaps (precipitation) (years)
Innsbruck-Univ.	daily, monthly	X	1877	active	yes	no	X	1882	active	yes	X	1877	active	yes	X	1877	active	yes
Patscherkofel	daily, monthly	X	1940	active	no	no	X	1940	active	no	X	1940	2010	no	X	1903	active	yes
Salzburg	daily, monthly	X	1874	active	yes	no	X	1874	active	yes	X	1874	active	yes	X	1874	active	yes
Sonnblick	daily, monthly	X	1886	active	no		X	1886	active	no	X	1886	active	no	X	1890	active	no
Feuerkogel	daily, monthly	X	1930	active	no		X	1930	active	no	X	1930	active	no	X	1930	active	no
Kremsmünster	daily, monthly	X	1876	active	no		X	1874	active	no	X	1874	active	no	X	1874	active	no
Wien-Hohe Warte	daily, monthly	X	1872	active	no		X	1872	active	no	X	1872	active	no	X	1872	active	no
Graz-Univ.	daily, monthly	X	1894	active	no		X	1894	active	no	X	1894	active	no	X	1894	active	no
Hochobir	daily, monthly	X	1881	1944	no		X	1880	1944	no	X	1880	1944	no	X	1880	1944	no
Kanzelhöhe	daily, monthly	X	1938	active	yes	partly	X	1938	active	yes	X	1938	active	yes	X	1938	active	yes
Villacher Alpe	daily, monthly	X	1921	active	yes	no	X	1921	active	yes	X	1921	active	yes	X	1921	active	yes
Feldkirch	daily, monthly	X	1936	active	no	no	X	1936	active	yes	X	1936	active	no	X	1895	active	yes
Langen am Arlberg	daily, monthly	X	1952	active	no	no	X	1952	active	no	X	1952	active	no	X	1895	active	yes
Schröcken	daily, monthly	X	1948	active	yes	no	X	1947	active	yes	X	1947	active	no	X	1947	active	no
Galtür	daily, monthly	X	1956	active	no	no	X	1938	active	yes	X	1938	active	no	X	1938	active	no



data to be digitized

Hochobir	1862-1875; 1877-1878
Kanzelhöhe	1943; 1945-1947
Mooserboden	1944-1948
Rudolfshuette	1961-1967; 1971-1973
Schmittenhoehe	1940-1945
Villacher Alpe	1876-1879; 1882
Mallnitz	1852-1856

tables cont.



available data (met Service of Catalonia, Spain)

21.05.2014

Folie 8

work in progress																	
Meteorological Service of Catalonia																	
name	temporal resolution	Temperature	Maximum Temperature	Minimum Temperature	Humidity	Cloudiness	Precipitation	Wind Velocity	Wind Direction	Air Pressure	Sunshine	Snow	Weather Conditions	Evaporation	start	end	mountain
		x	x	x		x			x	x			x				
Barcelona (old city)	3 times a day	x	x	x		x			x	x			x		1780	1875	
	daily						x								1854	1875	
	monthly						x								1798	1875	
Barcelona (University 1st)	9h, 15h	x	x	x		x									1855	1864	
	daily	x	x	x			x								1855	1864	
	monthly						x								1855	1880	
Barcelona (Presas)	3 times a day	x	x	x	x				x	x					1849	1874	
	daily	x	x	x			x								1849	1874	
Barcelona (Zurbano St)	3 times a day	x	x	x		x			x	x					1876	1884	
	daily	x	x	x			x								1876	1884	
Barcelona (University 2n)	15h	x	x	x	x	x		x	x	x					1882	1938	
	9h	x	x	x	x	x		x	x	x					1886	1938	

data to be digitized

work in progress																
Meteorological Service of Catalonia																
name	temporal resolution	Temperature	Maximum Temperature	Minimum Temperature	Humidity	Cloudiness	Precipitation	Wind Velocity	Wind Direction	Air Pressure	Sunshine	Snow	Weather Conditions	Evaporation	start	end
		x	x	x				x								
Barcelona (Ob. Fabra)	daily	x	x	x			x								1904	
Puigcerdà	9h, 15h	x	x	x	x	x		x	x	x					1896	
	daily	x	x	x			x						x	x	1896	
Turó de l'Home	3 times a day	x	x	x	x	x		x	x						1932	2003



status April 2014



I : incomplete
+ : available
N : no answer
W : work in progress

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Folie 9

10th EUMETNET Data Management Workshop 28th-30th October 2015

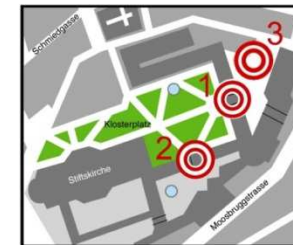
Location: St. Gallen, Switzerland

Government building of St. Gallen; Kantonsratssaal

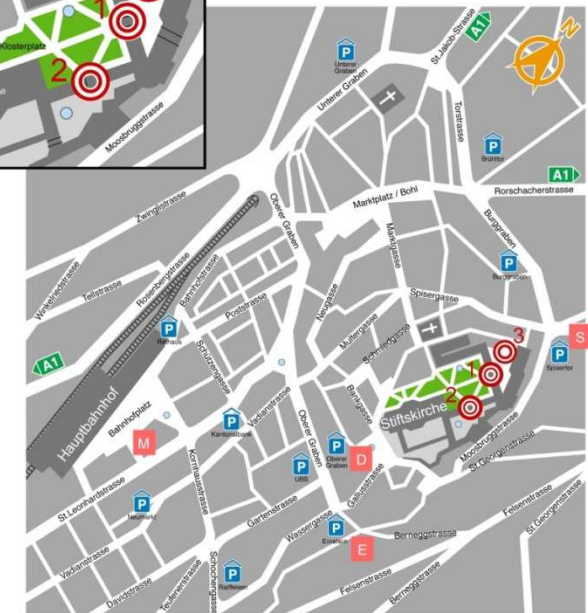
In immediate vicinity of Cathedral and Abbey Library; UNESCO World Heritage Site



1 hour from airport Zurich,
10 min from train station



Situationsplan
Stiftsbezirk



	Bahnstrecke		Hotel Einstein		1.) Eingang Regierungsgebäude
	Brunnen		Hotel Metropol		2.) Eingang Hofkeller
	Parkhaus		Hotel Dom		3.) Eingang Pfalzeller und Forum
			Hotel Spisertor		

Possible Social Events

Visit of Cathedral and Abbey Library
UNESCO World Heritage Site

or

Possible $\frac{1}{2}$ - 1 day trip to Säntis

