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Analysis and Forecasting

10th EUMETNET Data Management Workshop

«High quality climate data –
the foundation of Climate Services»

St. Gallen, Switzerland 28th – 30th October 2015

Programme

Wednesday 28 October		
08:30 - 09:30	Registration	
Session 1 Welcome		
09:30 – 09:55	Welcome by Federal Office of Meteorology and Climatology MeteoSwiss	Mischa Croci-Maspoli, Head of Climate Division (MeteoSwiss)
	Welcome by Canton St. Gallen	Heidi Hanselmann, Head of the Health Department, Councillor of the Canton St. Gallen
09:55 – 10:20	Welcome by WMO	Peer Hechler (WMO)
10:20 – 10:45	*Coffee break*	
Session 2		**Chair: Peer Hechler**
10:45 – 11:05	What does “high quality” mean with respect to spatial climate datasets? Prac-tice and experi-ences at MeteoSwiss	Christoph Frei, Francesco Isotta
11:05 – 11:25	Free access to climate observations from Ger-many – An overview of recent activities of DWD's Climate Data Center (CDC)	F. Kaspar, A. Kaiser-Weiss, E. Penda, F. Kratzenstein
11:25 – 11:45	Extending southeastern Australia’s instrumental climate record: data quality and availability, 1788–1859	Linden Ashcroft, David Karoly, Joëlle Gergis
11:45 – 12:05	METEO-Cert: MeteoSwiss acceptance proce-dure for automatic weather stations	Joël Fisler, Marlen Kube, Ber-trand Calpini

12:05 –	*Side Meeting Dare*	**Chair: Ingeborg Auer**
12:25 – 14:10	*Lunch break & Poster viewing*	

Session 3		**Chair: Jose A Guijarro**
14:10 – 14:30	Austrian's development during the last two years	Silke Adler, Martin Auer, Alexandra Fritz, Michael Jensen, Wolfgang Lipa, Susanne Zach-Hermann
14:30 – 14:50	QualiMET2.0, the new Quality Control System of Deutscher Wetterdienst	Antje Claußnitzer, Frank Maier, Reinhard Spengler
14:50 – 15:10	Three Information Sources for Quality Control	Christian Sigg, Valentin Knechtl
15:10 – 15:30	Identifying and attributing data quality problems: temperature and precipitation observations in Bolivia and Peru	S. Hunziker, S. Gubler, C. Oria, D. Acuña, J. Calle, I. Moreno, M. Andrade, F. Velarde, S. Brönnimann, M. Croci-Maspoli, T. Konzelmann, G. Carrasco, Y. Castellón
15:30 – 15:50	The challenge of porting scientific results to operational applications	Rebekka Posselt, Rebecca Hiller, Mark A. Liniger
15:50 – 17:00	*Coffee, free time*	
17:00 – 18:30	*Guided tour*	
18:30 – 19:30	*Aperitif*	

Thursday 29 October		
Session 4		**Chair: Dubravka Rasol**
09:00 – 09:20	Is the global mean land surface temperature trend too low?	Victor Venema, Phil Jones, Ralf Lindau, Tim Osborn
09:20 – 09:40	Biases found in temperature records by the transition from Conventional to automatic measurements in European and American parallel datasets	Enric Aguilar et al.
09:40 – 10:00	Biases in precipitation records found in parallel measurements	Petr Stepanek et al.
10:00 – 10:20	General mathematical formulation of homogenization of climate data series	Tamás Szentimrey
10:20 – 10:50	*Coffee break*	
Session 5		**Chair: Mary Curley**
10:50 – 11:10	The International Surface Temperatures Initiative – progress, future developments, and how countries can contribute	Peter Thorne, Blair Trewin, Victor Venema, Jay Lawrimore, Kate Willett
11:10 – 11:30	Efficiency tests for automatic homogenization methods of monthly temperature and precipitation series	Peter Domonkos, José A. Guijarro
11:30 – 11:50	Homogenization of daily peak wind gust series from Spain and Portugal	José A. Guijarro, Cesar Azorin-Molina
11:50 – 12:10	A daily homogenized temperature and precipitation data set for Norway	Elin Lundstad
12:10 – 12:30	Homogenisation of Maximum and Minimum Air Temperatures in Ireland	Mary Curley, Seamus Walsh
12:30 – 14:00	*Lunch break*	
Session 6		**Chair: Mary Curley**
14:00 – 14:20	The influence of outliers in homogeneity testing of seasonal precipitation data in Norway	Herdis Motrøen Gjelten, Ole Einar Tveito, Elin Lundstad
14:20 – 14:40	Adjustment of new daily data from thermograph and pluviograph to a conventional series: the case of Fabra Observatory, Barcelona (1904-1913)	Marc Prohom, Enric Aguilar, J. Germán Solé
14:40 – 15:00	Climate Data Records of ECVs from the EUMETSAT Satellite Application Facility on Cli-	M. Werscheck, R. Hollmann, J. Trentmann, F. Kaspar

	mate Monitoring: Current status and application examples	
15:00 –	*Side Meeting ISTI-POST*	
15:20 – 16:30	*Poster viewing & Coffee break*	
Session 7		**Chair: Gerard van der Schrier**
16:30 – 16:50	Global solar radiation: comparison of satellite and ground based observations	Petr Skalak, Piotr Struzik, Aleš Farda, Pavel Zahradnícek, Petr Štepánek
16:50 – 17:10	Climatological Atlas of Northeastern Atlantic and Western Mediterranian for the period 1981-2010 based on ERA-Interim Reanalysis	José A. Guijarro, Justo Conde, Joan Campins, M Luisa Orro, M Ángeles Picornell
17:10 – 17:30	Climate Grid – Software for creating national climate data products and services	Dan Hollis, Ian Edwards, Mark McCarthy
18:30 –	*Apero & Conference Dinner*	

Friday 30 October		
Session 8		**Chair: Zita Bihari**
09:00 – 09:20	Producing a long–term gridded data set in Finland – uncertainty and spatio-temporal trends	Juha Aalto, Pentti Pirinen, and Kirsti Jylhä
09:20 – 09:40	Temperature grid dataset for climate monitoring based on homogeneous time series in Switzerland	Francesco Isotta, Michael Begert and Christoph Frei
09:40 – 10:00	Spatial Interpolation of daily Temperature and Precipitation for the Fennoscandia	Cristian Lussana and Ole Einar Tveito
10:00 – 10:20	Mapping minimum daily temperature in Spain using kriging with external drift	Andrés Chazarra, José Vicente Moreno, Roser Botey
10:20 – 10:50	*Coffee break*	
Session 9		**Chair: Francesco Isotta**
10:50 – 11:10	Preparing climate indicators to assess the impact of extreme weather events on critical infrastructures and on tourism in Hungary	Mónika Lakatos
11:10 – 11:30	New Austrian Climate Scenarios: Downscaled and improved data for key climate parameters and climate Indices	Barbara Chimani, Georg Heinrich, Stefan Kienberger, Armin Leuprecht, Michael Hofstätter, Manuela Paumann, Marco Sebastian Poetsch, Raphael Spiekermann, Heimo Truhetz
11:30 – 11:50	Citizen Science and Phenology- a showcase from Austria	Helfried Scheifinger, Benjamin Dauth, Florian Heigl, Thomas Hübner, Susanne Käfer, Elisabeth Koch, Klaus Wanninger, Daniel Wuttej, Ursula Weiser, Johann Zaller
11:50 – 12:10	Update on pan-European climate services developed at ECA&D	Gerard Van Der Schrier
12:10 – 13:00	Outcomes of side meetings, final discussion, say thanks and good bye	
13:00	*End of programme*	

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POSTERS

01 **A collection of sub-daily pressure and temperature observations for the early instrumental**

Period with a focus on the "year without a summer" 1816
Y. Brugnara, R. Auchmann, S. Brönnimann

02 **Very early instrumental measurements in Austria – 18th century climate data in Austria, still unexploited**

Ingeborg Auer, Barbara Chimani, P. Amand Kraml, Silke Adler

03 **Rescue and quality control of sub-daily data**

L. Ashcroft, J.R. Coll, M. Castellà, P. Domonkos, E. Aguilar, J. Sigró and M. Brunet

04 **Capacity building activities related to climate data management and data rescue in Southern African countries: Experience from SASSCAL**

F. Kaspar, R. Posada, J. Riede, M. Butale, J. K. Kanyanga, D. Nascimento, F. O. S. Neto, A. Mhanda, M. Castro Matsheka, M. Mukelabai

05 **Data rescue of national and international meteorological observations at Deutscher Wetterdienst**

F. Kaspar, B. Tinz, H. Mächel, L. Gates

06 **Data rescue of surface observations at the Tanzania Meteorological Agency**

Martyn Sunter

07 **Historical climate data rescue in the Slovak Hydrometeorological Institute**

Štastný, P., Mikulová, K.

08 **Data Rescue for precipitation station network in Slovak Republic**

Bochnícek, O., Faško, P., Švec M.

09 **Progress of European Data Rescue Activities – developments during the last two years**

Ingeborg Auer, Barbara Chimani and members of the EUMETNET data rescue team

10 Structure and practical applications of meteorological metadata

Ancuta Manea, Elena Toma, Marius-Victor Birsan, George Tudorache, Alexandru Dumitrescu

11 Metadata in homogenization of Slovenian climatological data

Mateja Nadbath, Gregor Vertacnik

12 A quantitative approach to optimize the quality control system for surface data at MeteoSwiss

Valentin Knechtl, Deborah van Geijtenbeek, Christian Sigg

13 New quality control interface for rain gauges observations across Belgium

M. Journée, C Delvaux and C. Bertrand

14 Data Quality Control of Temperature and Precipitation in-situ observations based on Spatial Interpolation

Cristian Lussana, Ole Einar Tveito

15 Quality Control of rainfall data at a daily scale for 1855-2014 in Catalonia

Alba Llabrés Brustenga

17 Automatic Range Checks in Quality Control of Observation-network Data: Towards Operational Implementation

Curtis R. Wood, Ari Aaltonen, Anna Frey

18 The influence of subjective corrections on climate data

Ana Weissenberger, Dubravka Rasol and Helena Lebo Andreis

19 Urban warming bias in long-term village met stations

Manuel Dienst, Jenny Lindén, Jan Esper

20 Homogenized observations and reconstructed datasets: how well do they compare?

Martín Jacques-Coper, Stefanie Gubler, Mario Rohrer, Clara Oria, Mischa Croci-Maspoli, Thomas Konzelmann

21 **EU Surface Temperature for All Corners of Earth (EUSTACE) project: break-detection algorithm for a global daily temperature dataset**

Y. Brugnara, R. Auchmann, S. Brönnimann

22 **A homogenised daily temperature data set for Australia**

Blair Trewin, Australian Bureau of Meteorology

23 **Homogenization of Precipitation Series in Greece**

Mamara A., Argiriou A.A., Anadranistakis M.

24 **Homogenization of monthly temperature and precipitation time series in Finland**

Mikko Laapas, Juha Aalto, Achim Drebs

25 **Homogenization of Swedish monthly precipitation and temperature data**

J. E. Engström (Pawel Harney)

26 **Homogenisation and analysis of an expanded long-term (1850-2010) monthly rainfall network for the Island of Ireland**

S. Noone, C. Murphy, J.Coll, T.Matthews, D.Mullan, R.L.Wilby, S. Walsh

27 **Daily and sub-daily homogenization of temperature data in Switzerland**

R. Auchmann, F. G. Kuglitsch, A. Toreti, M. Begert, M. Croci-Maspoli, S. Brönnimann

28 **Long series of Swiss seasonal precipitation: Homogenization, regionalization and trends**

Simon Scherrer, Michael Begert, Mischa Croci-Maspoli

29 **The Parallel Observations Science Team (POST) compiling a global database with parallel measurements to study non-climatic changes**

Victor Venema, Renate Auchmann, Enric Aguilar, Petr Stepanek, Ingeborg Auer, Theo Brandsma, Manuel Dienst, Peter Domonkos, Alba Gilabert, Jenny Lindén, Ewa Milewska, Øyvind Nordli, Jared Rennie, Blair Trewin, Lucie Vincent, Kate Willett, Mareile Wolff

30 **An application of HOMER and ACMANT for homogenising Ireland's monthly precipitation records and exploring the influence of network density**

John Coll, Peter Domonkos, Mary Curley, Enric Aguilar, Séamus Walsh, John Sweeney

31 Production of reliable long term series for analysing climate change at Météo-France

Anne-Laure Gibelin, Sylvie Jourdain, Philippe Dandin, Brigitte Dubuisson

32 New developments in homogenization efforts for Austria

Barbara Chimani, Konrad Andre, Annemarie Lexer, Victor Venema, Ingeborg Auer, Johanna Nemec

33 New developments in HISTALP

Barbara Chimani, Manfred Ganekind, Ingeborg Auer

34 Development of long-term daily climate series from stations records across Belgium

Cédric Bertrand, Olivia Bleeckx, Charles Delvaux, Michel Journee

35 Past Climate Information from the Danish Meteorological Institute (DMI)

John Cappelen

36 Homogenization of temperature and precipitation measurements in areas of sparse station networks applying HOMER

Stefanie Gubler, Stefan Hunziker, Clara Oria, Michael Begert, Gabriela Rosas, Mischa Croci-Maspoli, Thomas Konzelmann

37 Linear trend of seasonal sum and maximum daily precipitation in Slovenia from 1961 to 2011

Gregor Vertacnik, Mojca Dolinar, Renato Bertalanic, Damjan Dvoršek, Matija Klancar, Mateja Nadbath

38 Climate of Slovenia on homogenized data

Mojca Dolinar, Gregor Vertacnik, Renato Bertalanic, Matija Klancar, Damjan Dvoršek, Damijana Gartner and Mateja Nadbath

39 Comparing regional and global reanalysis fields to long-term station measurements of wind speed and temperature and mast measurements of wind speed over Germany

Michael Borsche, Andrea Kaiser-Weiss, Frank Kaspar

40 **Relational Database and User Interface for Climate Data in Meteorlogical and Hydrological Service of Croatia**

Helena Lebo Andreis

41 **Geostatistical Analysis of Radio Refractivity Across Coastal Region Area of West Africa using ECMWF data**

Israel Emmanuel, Babatunde Adeyemi, E.O. Ogolo

42 **Preliminary results of a catastrophic model of extreme wind gust situations in peninsular Spain**

M. Rodrigo, J.A. López

43 **Adaptation to climate change in Hungary, the NAGIS project**

Zita Bihari