



## 7th ECSN Data Management Workshop at DMI Copenhagen, November 4-6, 2009

### Preface

by Claus Kern-Hansen, DMI

Weather and Climate has been one of the greatest interests of mankind through all times. Today the awareness of the anthropogenic climate change is on top of the agenda globally as well as locally, meaning that specific focus on Climate and Climate Change is larger than ever before.

In this context it is realized that many different disciplines of sciences and technology are important for us to inform and prepare mankind of the coming consequences of the changing climate.

These important issues were all addressed at the recently held World Climate Conference 3, hosted by the World Meteorological Organization in Geneva 31 August – 4 September 2009. The WCC-3 concluded that a framework for climate services needs to be established at a global scale. During WCC-3 it was repeatedly stated that neither climate documentation nor prediction can be made on a technical and scientific sound basis without reliable observations of the past weather (and thereby climate). Too it was stated in the sessions addressing the utilization of remote sensing, that observation systems based on remote sensing all need reliable in-situ measurements as reference, to calibrate and to bridge between time series, periods and instruments. As such there is an ever growing demand for reliable climate data and –information, build on skilled and educated data management of weather and climate observations.

At a regional level the European Climate Support Network (ECSN) – in the framework of the Network of European Meteorological Services (EUMETNET) – has the past more than 10 years focused on co-operation in the domain of climate data and information in Europe.

As such one of the core activities of ECSN has been the bi-annual workshop of data management.

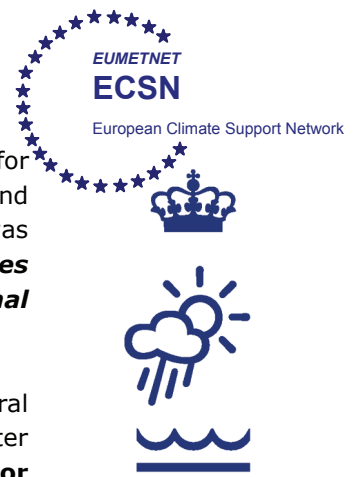
Since the very first workshop held in 1996 the focus of these workshops has been topics of high interest and actuality. The overall title of the workshops has therefore changed from Database management workshop over Data user & Management workshop to the present Data management workshop emphasizing on the bare disciplines of practical data management, with respect to both databases and users, of the European National Meteorological Services.

1. SMHI 1996
2. DNMI 1999
3. DWD 2001
4. FMI 2003
5. KNMI 2005
6. ZAMG 2007
7. DMI 2009

The data management workshops of ECSN



Planning the 7th ECSN Data management Workshop DMI, as the coming host, proposed that the 2009 workshop should be dedicated to the more basic



functions of our climate services, allowing us to provide an opportunity for NMHS staff engaged in the 'back office' and basic functions to meet and exchange experience. Thus the 7th ECSN Data Management Workshop was dedicated to ***"Present challenges, national experience & practices within the field of Climatological data by the European National Meteorological services."***

With 17 countries represented, nearly 50 individual participants, 24 oral presentations, including invited speaks on breaking news, 10 poster presentations and a dedicated 1 hour workshop session on **"Major challenges for the NMS's to address within the field of data management in a time perspective of 1-5 years from now"** the two and a half days programme of the 7th DMWS in Copenhagen 4-6 November 2009 was packed with activity. As host it has been a pleasure to witness the great enthusiasm, interest and dedication with which all the national representatives participated – in the formal program as well as in the informal networking.

At the 7th DMWS wrap up session on the Friday a draft "Summary of findings" from the workshop sessions was discussed. Based on the session discussions the "Summary of findings" has been revised and is hereby published together with the workshop notes and all presentations and posters in the present Proceedings of the 7th Data management Workshop.

During the closing session it was expressed by the participants as well as the Program Manager of ECSN that the 7th Data management Workshop had fully proved the needs for such a forum for practical data management within the European NMS's.

Being a long term member of EAC it has been an honour and privilege for me personally to host the 7th ECSN Data management workshop on behalf of the Danish Meteorological Institute.

I would like to thank all the dedicated people involved with the workshop – first and foremost the very active participants, the speakers, poster presenters and the session chairmen. A big thank you goes to the ECSN Advisory Committee (EAC) and the always dedicated program manager of ECSN, Dr. Aryan van Engelen, for commenting, supporting and approving the workshop plans and for trusting DMI to arrange it. Thank you to the director general of DMI, Dr. Peter Aakjær, for supporting the idea, for opening the doors at DMI and hosting and supporting this meeting. Last but not least a very special thank you to Ellen Vaarby Laursen and Helle Morais from DMI and all the other DMI staff helping during the workshop, without you this task could not have been performed.

With these proceedings I would like to invite the whole of EUMETNET to take notice of the findings of the 7th ECSN Data Management Workshop, as well as to enjoy the many fine presentations reproduced on the following pages.

Claus Kern-Hansen

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