

## **ECSN Quarterly Report October-December 2004**

Prepared by the ECSN Manager and the Project Leaders

### **General remarks**

The Danish Meteorological Institute will host the 10th ECSN Advisory Committee Meeting in Copenhagen, 8-10 June 2005.

At the combined EMS-ECAM-IPC Meeting in Wageningen, Netherlands, 19 October 2004, EMS has expressed the wish to have also the topic Climatology on board of the EMS Annual Meeting 2005. It should not be in competition to ECAC nor to ECAM, but to support the aspects of Applied Meteorology. So, the size of this Climatology part should be rather small. EMS has invited ECSN to take the responsibility for the Climatology part. In the meantime the Members of the ECAC Advisory Board (EAB) have proposed some themes for this part as a first input for the Call-for-Programme:

CL 1: Global change activities;

CL 2: Weather and climate extremes;

CL 3: Climatology in seasonal forecasting;

CL 4: Climatology derived from satellite observations;

CL 5: Climate data products and data policy.

The combined EMS/ECAM Conference will take place in Utrecht, Netherlands, 12-16 September 2005.

At the last ECSN Advisory Committee Meeting in Dublin, Bengt Dahlström, SMHI, has presented a project proposal to create and promote a rational and quality assured climatological production of high resolution gridded data, based on informati-

on from the European National Meteorological and Hydrological Services (NMHSs). The intention is to create a EUROGRID database of gridded climatological values covering Europe with a high resolution and with at least daily values.

In a first step a EUROGRID show-case study will be envisaged. In order to get the inputs from all ECSN Members, a Questionnaire for a EUROGRID show-case has been worked out and sent to all the participating countries for their comments.

The ECSN project „Climate Atlas of Europe“, based on climatological normals for the period 1971-2000, is completed. A CD-ROM in a French and in an English version of the software has been prepared and sent to all the participating countries to make further use of this important climatological information. On behalf of ECSN the Manager expresses his thanks to Météo-France, especially to the project leader Pierre Bessemoulin, for their substantial work they have done for ECSN and for the European climatology as such.

### **European Climate Assessment & Dataset (KNMI)**

Following the document that describes the technical work of the ECA&D project and its infrastructure, prototypes were developed for the operational database and for the new web-interface. KNMI has tested all these prototypes. The results of these tests were promising and clearly illustrate the advantage of the new website. The

automated updating procedure of daily ECA series with GTS synoptical data turned out to work well. Furthermore, automated procedures for placing quality control flags to the daily data were developed, tested and implemented.

ECA&D is involved in a related activity called ENSEMBLES, as a major EU research project with a total of 72 partners, including most Meteorological Services in Western Europe. The project covers climate change modelling and prediction on time scales from seasons to decades, as well as model validation using observational datasets. KNMI and MeteoSwiss participate in the workpackage WP5.1, which aims at developing a daily resolution gridded dataset for Europe on the basis of a network of daily station data.

### **Generate Climate Monitoring Products (DWD)**

The project Generate Climate Monitoring Products having been completed early in 2004 is now in a quasi operational stage. The results attained and the experiences gained in the course of the project help to successfully maintain and continue the GCMP Web site, the home page is accessible under: <http://www.gcmp.dwd.de>

This well proven Internet communication platform is growing further in terms of climate monitoring products as well as concerning the number of European National Meteorological and Hydrological Services contributing to it.

As mentioned in the preceding Quarterly Report, it is recognized as a logical further step to arrange the transition of the current mechanism into a fully operational system for the co-ordination, collection and dissemination of standardized climate monitoring products for the European region.

Currently a detailed concept is being elaborated under the auspices of DWD.

In the meantime further efforts to enhance the participation and co-operation lead to additional European NMHSs being represented on the GCMP Web site. This will continue, aiming at improving the coverage of the European region with useful climate monitoring products and information.

### **Climate Atlas of Europe (Météo-France)**

The ECSN project „Climate Atlas of Europe“, based on climatological normals for the period 1971-2000, is completed. A CD-ROM in a French and in an English version of the software has been prepared, containing the dataset from nearly 700 European weather stations, including also instructions for installation and information about necessary configuration. The source programmes are also included and instructions to translate them into any other language than English or French. A pair of CD-ROMs have been sent to all the participating countries to make further use of this information, as to make copies and translations into further national languages if needed.

As agreed at the start of the project, all participating countries are allowed to use this product as well as the database freely, including for commercial purposes. The reason for that is that climatological normals are considered nearly everywhere as public information.

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