Project no. GOCE-CT-2003-505539

Project acronym: ENSEMBLES

Project title: ENSEMBLE-based Predictions of Climate Changes and their Impacts

Instrument: Integrated Project

Thematic Priority: Global Change and Ecosystems

D2A.4.5 Stream 1 data centrally stored in distributed archive (CERA, PCMDI)

Due date of deliverable: April 2008, postponed to July 2008
Actual submission date: July 2008

Start date of project: 1 September 2004 Duration: 60 Months

MPIMET-MD

Project co-funded by the European Commission within the Sixth Framework Programme (2002-2006)		
Dissemination Level		
PU	Public	x
PP	Restricted to other programme participants (including the Commission Services)	
RE	Restricted to a group specified by the consortium (including the Commission Services)	
CO	Confidential, only for members of the Consortium (including the Commission Services)	

The archiving of the ENSEMBLES Stream 1 data in a distributed archive is now finished. All ENSEMBLES Stream 1 data are stored at the CERA database, except those monthly mean data, which were already stored at the PCMDI in the context of the IPCC scenarios.

In the following text an overview is given over the availability of data and information and access to data.

Availability of data

For ENSEMBLES a list of requested variables was compiled, which contains the information on the variables, their names and units and the temporal resolution for which they should be stored centrally. It can be seen at: http://ensembles.wdc-climate.de/output-variables .

On the basis of this list the involved centers provided data for the following scenarios (the numbers are the numbers of the realisations):

Center	20C3M	SRA1B	SRA2	SRB1	1PTO2X	1PTO4X
CNRM	1,2,3,4,5,6	1	1	1	1	1
MPI	1,2,3	1,2,3	1,2,3	1,2,3	3	1
DMI	4	4				
BCCR	1	1	1	1	1	
FUB	1,2,3	1,2,3	1,2,3	1,2,3	1	1
INGV	1	1	1		1	1
IPSL	1	1	1	1	1	1
METO-HC	1,2,3,4,5,6	1	1		1	1

and the following temporal resolution:

Center	Temporal resolution
CNRM	monthly, daily, 12-hourly, 6-hourly
MPI	monthly, daily, 12-hourly, 6-hourly
DMI	monthly, daily, 6-hourly
BCCR	monthly, daily, 12-hourly, 6-hourly
FUB	monthly, daily
INGV	monthly, daily
IPSL	monthly, daily, 6-hourly
METO-HC	monthly, daily, 6-hourly

And all of these data is available now. For details on the variables and temporal resolutions chosen by different centers and for the information,

which datasets are stored at the PCMDI and which at the CERA database, please see the next issue.

Availability of information

Special information on the stored datasets is given on the website: http://ensembles.wdc-climate.de , which was established as deliverable D2A4.4 in March 2007 and kept up to date since then.

Structure of the website

On http://ensembles.wdc-climate.de/output-variables
(which was already mentioned above)
one can find the complete “ENSEMBLES output list for Global Circulation Model scenario runs” which contains all variable names (netCDF-CF) as well as the output intervals to be stored centrally and locally.

On http://ensembles.wdc-climate.de/technical-details
one can find necessary information for model data providers but also a list of used acronyms for centers, models and scenarios.

On http://ensembles.wdc-climate.de/experiment-list
one can find for every center that provided data a list of their experiments, for every experiment a list of variables (the complete ENSEMBLES list) and for every available variable of this special model/experiment a link to the database where it is stored (CERA or PCMDI)

Distributed archive

Many of the required monthly mean data are stored at the PCMDI. These data are only available from there, they are not doubled in the CERA. Information about where to find which data is given on the website/”experiment list”, together with the links to the respective archive.

CERA

Information about the data which are stored at the CERA database is also available from the CERA directly (metadata). How to get there is described in the next issue. The metadata include information about the project ENSEMBLES, about the experiments: design, temporal and spatial coverage, temporal and spatial resolution, contact persons, references and additionally about the datasets: topic, unit, aggregation, temporal and spatial structure.

Registration and data access

The web address of the CERA database is http://cera.www.dkrz.de .
Within the “CERA user interface” and the link “browse experiments”, “select project”=ENSEMBLES one can see all for ENSEMBLES filled experiments.
(By using the “CERA”-link on the website described above

(http://ensembles.wdc-climate.de) you will get this view as the CERA-startpoint) Via the buttons “experiment information” and “show related entries” one gets all the metadata information about the experiment and variables.
All this can be done without registration. Registration is only needed for downloading data.
To register you just have to send an email with your request to ensembles@dkrz.de

The web address of the PCMDI is http://www-pcmdi.llnl.gov/ .
Choose “data portal” at first, then “Browse dataset catalogue, IPCC”. (By using the “PCMDI”-link on the website described above (http://ensembles.wdc-climate.de) you will get this view as the PCMDI-startpoint). Within the shown list, choose the model/experiment you are interested in.
For downloading data, a registration is required, the registration form can be found here: https://esg.llnl.gov:8443/security/accountRequestData.do .

Download of data from the CERA
There are two different ways to download data (whole datasets or parts of them):
1.
interactive via graphical user interface. Get there as described above, then you are leaded by the download manager.
2.
via a command-line based program called jblob. It can be used in a batch job. Information about jblob installation and usage is given on the jblob-homepage: http://cera.www.dkrz.de/CERA/jblob . (Take care for the installation instructions mentioned.)

Download of data from the PCMDI
The download works interactively via graphical user interface.

Further information
You can get further information about the CERA database on the CERA-homepage: http://www.pik-potsdam.de/cera
If you need more information about the data of a special center, you can find contact persons and addresses within the experiment metadata of that experiment at the CERA database.
If you need additional information about the data storage or the download procedure, or if you want to report an error in one of the datasets, please send an email to ensembles@dkrz.de.