Project No. 037005

CECILIA

Central and Eastern Europe Climate Change Impact and Vulnerability Assessment

Specific targeted research project

1.1.6.3.I.3.2: Climate change impacts in central-eastern Europe

D2.3: forcing files from RegCM for the different versions of RegCM

Due date of deliverable: 1st January 2007
Actual submission date: 22 May 2008

Start date of project: 1st June 2006 Duration: 36 months

Lead contractor for this deliverable: ICTP

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)	

RegCM simulation

In deliverable D1-3, a 151-year simulation has been produced with the regional model RegCM3 at 25km grid point spacing (hereafter referred to as RegCM3-25) over the European domain. The simulation spans the period 1950-2100 and is driven at the lateral boundaries by meteorological fields from a corresponding global simulation with the ECHAM5 model under forcing from the SRES-A1B IPCC greenhouse gas scenario.

RegCM forcing files

The RegCM3-25 simulation is needed in order to provide driving lateral boundary conditions for those partners (ELU, CUNI, NMA) that will run RegCM simulations at 10 km grid point spacing over different CECILIA domains.

The 6-hourly database of all model prognostic variables on model sigma vertical levels for the RegCM3-25 simulation has been made available on an ICTP server for all the partners to access:

ftp://clima-ftp.ictp.trieste.it/pub/

The 3 partners that need the RegCM-25 boundary fields will simulate three different time slice simulations, one for the reference period 1961-1990, and two for the futuree periods 2021-2050, 2071-2100 (SRES-A1B scenario).

The original RegCM-25 domain and the 3 high resolution 10 km RegCM domains (ELU, CUNI, NMA) are reported in Figure 1.

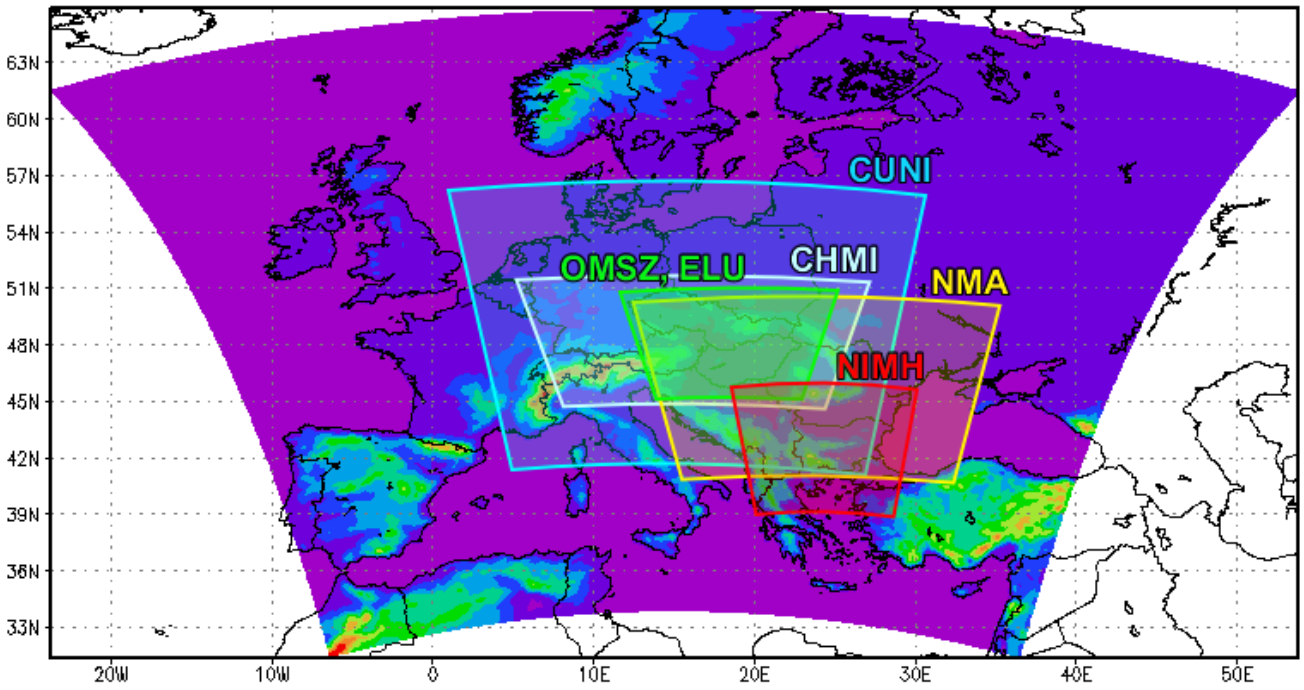

Figure 1: European ENSEMBLES domain used for RegCM-25 simulation with overimposed the 10 km regional model domains used within CECILIA. The domains where RegCM experiments are performed are CUNI, ELU and NMA.