



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

Milestone M4.2.1: Design and commence of a set of co-ordinated time-slice experiments designed to explore the sensitivity of climate and its modes of variability to specific forcings (e.g. GHG) and in particular the factors that influence the ratio of land versus ocean warming under climate change

Due date of milestone: February 2006
Actual submission date: 07 April 2006

Start date of project: 1 September 2004 Duration: 60 Months
Organisation name of lead contractor for this deliverable: INGV and UREADMM
Revision [draft, 1, 2, ..]

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)	

Under the EU ENSEMBLES project, it was agreed that a set of controlled experiments repeated with several different climate models would be designed and performed as a cross cutting activity in RT4, linking WPs 4.1, 4.2, 4.3 and 4.4. The broad aim of these experiments is to advance understanding of the factors/processes controlling future climate and related uncertainty in climate forecasts. Seven groups have committed to undertake the experiments.

A proposed design of the coordinated experiments in RT4 has been developed by UREADMM and discussed at the RT4/RT5 meeting in Paris in February 2005. After a further discussion that involved all of the partners, the set of coordinated experiments has been defined, which will seek to explore the mechanisms involved in the land-sea warming ratio under increased CO₂ concentrations.

A web site, http://www.cgam.nerc.ac.uk/research/ensembles-rt4/coord_exp/index.html, has been set up and launched to provide coordination and data (e.g., common boundary conditions) to the coordinated experiments activity. The web site contains an exhaustive and detailed description of the experimental design, request diagnostics and data format. Furthermore, from the web site it will be possible to download the data produced by the coordinated simulations. Data access is restricted to participating groups.

The agreed simulations have been commenced by all of the participating groups.