



Greenhouse gas management  
in European land use systems

FP7 Project GHG-Europe  
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<b>Deliverable D7.2</b>			
Title	Report on the workshop results with instructions for data acquisition and delivery		
Delivery date from Annex I (project month)	4		
Actual delivery date	27/05/2011 (month 17)		
Lead participant	WP	Nature	Dissemination level
<b>UNITUS (6)</b>	7	R	RE

#### **Deliverable description**

Different workshops and meetings have been organised to develop the database system and the instructions to prepare and deliver data (see Deliverable D7.1). In these workshops and in collaboration with other projects (e.g. CARBO-Extreme), a new variables naming system and the database organisation have been defined to ensure full compatibility between the datasets. The guidelines to submit data are available in the GHG-Europe database at <http://gaia.agraria.unitus.it/database/ghg-europe>.

#### *Eddy covariance, chambers and ancillary data*

One of the main problems in the past data submission is the lack of meta-data information. All the data should provide associated information such as sensor used, measurement depth/height, last calibration, problems and comments, etc. In addition, in case of replicated measurements (e.g. soil temperature profiles) it is important to have each single measurement (1 sensor 1 measurement) and calculate the derived quantities like the mean and standard deviation for each profile or level in the database. Starting from this, a completely new variables structure has been created. Measurements from each single sensor can now be submitted together with the specific meta-information. Each variable has a code or name that is reported in a table available in the database. When a variable is submitted it is requested to use the relative code/name followed by a 3-figure code which identifies the location within the site where measurements are taken univocally. All the details about the new system are described in the GHG-Europe database.

The data are distributed as text files, with a standard format easy to read and import in all the software and models. The guidelines to obtain data are also described in the GHG-Europe database website.

#### *Spatial data*

The provision of spatial data for the 6 regions and at European scale are in progress. The meta-data needed to use and interpret the spatial fields are under refinement and include the basic information needed to re-process and re-project the data before distribution. The data will be available on a dedicated sub-page (Data/Spatial data) in the GHG-Europe database.