

## **Draft Minutes from COST734 joint WG1 and WG4 meeting**

Place: Amsterdam

Time: 30/09-02/10/2008

### 1. Welcome to participants

The meeting took place at the Congress centre in parallel with the 8<sup>th</sup> EMS conference and was conducted by WG1 leader and WG4 co-leader.

### 2. Adoption of agenda

Enclosed Agenda /see Annex 1/ was adopted unanimously.

### 3. Review of the decisions from the last MCM meeting regarding WG1 and WG4 activities

The decisions design the activities for phase 2 of the Action /see Annex 2/. WG1 set four tasks which will map and evaluate frequently used agrometeorological methods and practices. WG4 will applied Agri Clim model at European scale. Ongoing Agri-Clim study will be completed by November 2008. The data from 70 stations from the period 1971-2000 entered the evaluation. The results which will be distributed to the Action participants.

### 4. Report on intermediate results and activities

The leaders of the tasks were identified in WG1. They started to prepare the activity plans. WG4 has set up three subtasks with further detailed plane being made at the next WG4 meeting in Berlin.

### 5. Discussion and plan of coordination of the national and WG activities

Further activity of WG4 will focus on an inter-model comparison. In order to get a view which models are mostly used with the climate scenarios outputs the Actions members will be asked to provide such information at the national level.

### 6. Cross activities WG1 – WG4 and their coordination

Some of WG1 and WG4 tasks were identified as pretty close though the tools used and the final performance are not identical. The discussion has brought the general view that one model for the evaluation defined in the tasks of WG1 and WG4 should be used by all participants in order to avoid the drift of use and results which can make them hardly comparable.

### 7. Plan for milestones for the next period

The tasks defined in Annex 2 will be kept and further elaborated at the next WG1 and WG3 meetings this autumn and will be brought to the activity plan at the next Core Group meeting in January 2009.

### 8. Plan and status for publications

Further to the manuscript of the paper for joint COST734-book WG4 plans to bring an additional scientific paper with some examples of climate change impacts and possible adaptation measures. The participants also very briefly discussed the possible scope of the Final report. Task oriented agenda looks more suitable than country oriented description of the climate change impacts.

### 9. Closure of the meeting

The meeting was closed on October 2 at 1:30pm.

Notice: further to the COST meeting all the participants actively participated to the EMC Conference, AW12 session.

## Annex 1

Annex 1 Agenda  
Joint Working Group Meeting of WG1 and WG4  
COST Action 734  
Impacts of Climate Change and Variability on European Agriculture: CLIVAGRI  
Amsterdam, (Netherlands) 30<sup>th</sup> September - 2<sup>nd</sup> October 2008

Location: ECAC conference site, Amsterdam

The meeting starts on 30/09/2008 at: 16:00 till 20:00

The meeting starts on 01/10/2008 at: 16:00 till 20:00

The meeting starts on 02/10/2008 at: 9:00 till 11:00

1. Welcome to participants
2. Adoption of agenda
3. Review of the decisions from the last MCM meeting regarding WG1 and WG4 activities
4. Report on intermediate results and activities
5. Discussion and plan of coordination of the national and WG activities
6. Cross activities WG1 – WG4 and their coordination
6. Plan for milestones for the next period
8. Plan and status for publications
9. Closure of the meeting

## Annex 2

### WG1 plans for phase 2 of the Action

Title of WG1 – report :

Review of models and indices for operational applications and climate change impact studies

Decisions about planned WG1 activities for the next period :

1) Investigate crop yield relations of different indices

(including analyses of available results)

(managed by Nicholas)

2) How different crop models and indices can be combined for gathering better information on climate change impact assessments

(managed by Dragutin/Branislava)

3) Sensitivity analyses of climate change impact models

(related to extremes and adaptation measures)

In coop. with WG4 (managed by Josef)

4) To gather information about available phenological models/indices

(managed by Pavol)

How the work should be carried out ?

Based on actual literature / state of art to be supported or giving examples from national case studies. Details will be discussed in Working Group Meetings ! Working Group Meeting together

with WG4.

## Annex 3

### WG4 plans for phase 2 of the Action

#### 1 Manuscript of the paper for joint COST734-book

Paper has to be finished within couple of days/weeks. The latest, revised version of the manuscript will be sent to all WG4-members, who comment it within about one week and pay attention that no key-references are missing. It was also agreed that WG4-group members are (co-)authors of the paper and they also take care that all the contributors are added to the list sent together with the manuscript.

#### 2 Preparation of an additional scientific paper

WG4 members agreed to continue the writing process also beyond the book article by targeting e.g. European Journal of Agronomy. Such scientific paper would be based on the same questionnaire dataset, but it takes further steps by indicating with already documented cases that such changes support the findings of climate change impacts and/or adaptation measures. This will be carried out by e.g. analysing yield trends: increasing, declining and levelling-off trends and especially changes in yield variability.

It was agreed that Jørgen and Mirek write the outline of the paper and others contribute thereafter. As one of the possible cases, Pirjo will give an example case of oilcrop trends in Finland with drastic changes recorded in 2000's (yield, hectares, crop species domination). Federica will bring up the relevant information on horticultural crops from questionnaire data, which will be presented to target group of horticultural experts.

#### 3 Near future WG4 activities

Jørgen will send to all WG4 members the presentation showing all the proposed and agreed steps of further collaboration aiming at preparing reports and scientific papers.

- Analysis of the present and expected agro-meteorological conditions through environmental zones "AgriClim study": analysis of high quality, daily meteorological datasets (max and min temp, precipitation, mean wind speed, relative humidity, global radiation, height of measurement) for period of 1961-2000 with yield data available on couple of the major arable crops of the region (e.g. barley, wheat, tuber and/or root crops) from such meteorological stations that represent each country's environmental zones (or favourable versus marginal production areas); linkage to questionnaire data; analysis of present and future conditions.
- Weather-crop yield relationship: results collected from local (barley and wheat variety) tests and monthly data since 1990 to present; analysis of present weathercrop yield relationships; generalisation of results and preparation of conclusions; joint evaluation.
- Inter-model comparison: comparison of the model performance with the experimental data; focus on the reliability of yield and phenology estimates on winter wheat and spring barley; run of selected crop models over the same area using same weather scenarios.

4 Next WG4 meeting was agreed to be held in Berlin on 19th and 20th November 2008 and it concentrates on the processes described in point 3 in particular. Arrival on evening 18th November. Approval of MCM needed.