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Document COST734.04.04

**DRAFT MINUTES OF THE FOURTH  
MANAGEMENT COMMITTEE MEETING OF  
COST ACTION 734**

**Impacts of Climate Change and Variability on  
European Agriculture: CLIVAGRI**

**Vienna, Austria  
22-23 October 2007**

1. Welcome to participants

The MC Chair S. Orlandini welcomed the participants to Vienna, thanked the local organizer J. Eitzinger and opened the meeting. The List of participants is in **Annex 1**, an updated List of MC members is in **Annex 2**.

2. Adoption of Agenda

**MCM4/D1** Agenda as given in **Annex 3** was adopted unanimously.

3. Approval of the Minutes of 3rd MCM

**MCM4/D2** MCM3 Minutes were approved without any amendment.

4. Review of the decisions of 3rd MCM

No notices were raised to the decisions of MCM3.

5. Presentation of the new delegations

S. Orlandini welcomed the representative of Portugal A. Monteiro and invited expert G. Menzhulin. A. Monteiro will act as a permanent representative to the MC.

5a Presentation of the new delegations

See

6. Status of the Action

- Basic information from the COST Office /EC-ESF contract, Grant System +/-  
The Science Secretary C. Petit sent the presentation regarding the present situation and future regulations in COST. This was presented by P. Nejedlik.

**See Annex 4.**

- Number of Signatories  
23 countries have signed MoU so far. Luxembourg and Portugal have expressed the intention to sign the MoU. As the time limit for the free signature to the MoU has expired this requires the approval of the MC.

**MCM4/D3** The MC agrees with the participation of Luxembourg and Portugal to the Action 734.

- Budget Status, budget allocation process  
The present budget is calculated for the period June 2007-June 2008. The proposal for the budget is listed in **Annex 5**.

**MCM4/D4** The MC approves the budget listed in **Annex 5**.

7. Web site

F. Rossi presented the status of the web site and the interactive procedures, which enable the members of the Action to enter the web and to insert their EoCs and other items. All members of the Action are encouraged to submit their EoCs.

8. Report of the MC Chair /info from DC meeting, reporting/

**See Annex 6.**

9. Report of WG's chairs

No specific reports were presented. The status and the future plans of the WGs were presented in point 11.

10. WGs meetings, Agendas prepared by WG leaders / following the working plans, preparation of the of survey report /

The WGs meetings were focused mainly on the preparation of the Survey and planning the further activities. The reports from the WGs meetings are listed in point 11.

11. Reports from the WGs meetings

**See Annexes 7-10.**

12. Preparation of the survey – publication

The preparation is conducted by the WGs at the moment. The participants responsible for the particular points of the Survey are requested to bring the draft reports before the end of November to the WGs leaders. Further preparation will be coordinated by the WGs leaders. The number of pages should not exceed 50 pages per WGs. A template for the preparation of draft reports will be distributed before November 10. In order to reduce both the price and the number of pages of the publication it was suggested to add the originals of the responses of the questionnaires of WG2 on a CD as well as the set of colored pictures of WG 2.1. The WG leaders will prepare the WGs reports for the editing before the editorial board meeting in January 2008.

13. Status of the external contacts WMO, EEA, ADAGIO, CECILIA, COST Actions

The possible cooperation with the Action 725 will be discussed at the WG2 meeting of 725 in November 2007. There are no concrete points of cooperation being set so far but 734 can probably utilize the datasets being collected by 725 and also to get a survey on phenological indicators and models investigated and used by WG3 of COST725.

14. Short term scientific missions

The report of the STSM of R. Rotter from Germany to Finland was described by S. Orlandini. The report will be put on the web of COST 734.

**MCM4/D5** The MC approves the scientific report of R. Rotter.

**MCM4/D6** The MC approves the STSM of M. Trnka to the USA with the support up to 2500 Euro.

## **15. Time and place of the next meeting**

**MCM4/D7** The MC approves the single mission of P. Nejedlik to the consultation Workshop on the Green Paper "Adapting to climate change in Europe ", to London on 29-30 October 2007.

**MCM4/D8** The MC approves the Core Group and editorial meeting in Bratislava on 31 January-1 February 2008.

**MCM4/D9** 5<sup>th</sup> MCM will be organized together with the WGs meetings and internal workshop of COST734 in Larisa, GR on 27-28.3.2008.

**MCM4/D10** The MC approves the workshop subsidy of 3000 Euro for the internal workshop of COST734 in Larisa, GR on 27.3.2008.

**MCM4/D11** The MC approves the open Mid-term Workshop of COST734 in Aas, NO on June 4-6 2008.

**MCM4/D12** 6<sup>th</sup> MCM will be organized after the Mid-term Workshop of COST734 in Aas, NO on June 4-6 2008.

## **16. AOB, internal administration**

Norway and Slovakia announced the nomination of the second representatives to the MC. The official nominations are in process. J. Takac, the new MC member from Slovakia started to work in WG4.

17. The MC chair S. Orlandini thanked both to the MC members and the invited experts for their active participation and closed the meeting.

**List of decisions:**

**MCM4/D1** Agenda as given in **Annex 3** was adopted unanimously.

**MCM4/D2** MCM3 Minutes were approved without any amendment.

**MCM4/D3** The MC agrees with the participation of Luxembourg and Portugal to the Action 734.

**MCM4/D5** The MC approves the scientific report of R. Rotter.

**MCM4/D6** The MC approves the STSM of M. Trnka to the USA with the support up to 2500 Euro.

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## **List of Annexes**

- Annex 1 List of participants
- Annex 2 List of MC members
- Annex 3 Agenda
- Annex 4 Information from the COST Office
- Annex 5 Budget proposal for 2007/2008
- Annex 6 Report of the MC chair
- Annex 7 WG1 Report
- Annex 8 WG2 Report
- Annex 9 WG3 Report
- Annex 10 WG4 Report

## Annex 1 List of participants

1	Josef	EITZINGER	Austria
2	Vesselin	ALEXANDROV	Bulgaria
3	Valentin	KAZANDIJEV	Bulgaria
4	Cedomir	BRANKOVIC	Croatia
5	Miroslav	TRNKA	Czech Republic
6	Jorgen Eivind	OLESEN	Denmark
7	Kurt Christian	KERSEBAUM	Germany
8	Leonidas	TOULIOS	Greece
9	Nicolas	DALEZIOS	Greece
10	Janos	MIKA	Hungary
11	Heiki	TUOMENVIRTA	Finland
12	Emanuel	CLOPPET	France
13	Bernard	SEGUIN	France
14	Valentina	di STEFANO	Italy
15	Simone	ORLANDINI	Italy
16	Federica	ROSSI	Italy
17	Arne Oddvar	SKJELVAG	Norway
18	Tor Hakon	SIVERTSEN	Norway
19	Jerzy	KOZYRA	Poland
20	Piotr	STRUZIK	Poland
21	Ana	MONTEIRO	Portugal
22	Genadij	MENZHULIN	Russia
23	Pavol	NEJEDLIK	Slovakia
24	Jozef	TAKAC	Slovakia
25	Antonio	MESTRE BARCELO	Spain
26	Pierluigi	CALANCA	Switzerland
27	Mark	DANSON	United Kingdom
28	Giampiero	MARACCHI	DC ESSEM representative
29	Fabio	MICALE	JRC Ispra
30	Gennady	MENZHULIN	RUSSIA

Annex 2 List of MC members of COST Action 734

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**Agenda**  
**4<sup>th</sup> Management Committee Meeting**  
**COST Action 734**  
**Impacts of Climate Change and Variability on European Agriculture:**  
**CLIVAGRI**  
**Vienna, (Austria) from 22/10/2007 to 23/10/2007**

**University of Natural Resources and Applied Life Sciences (BOKU), Institute of Meteorology,  
Peter-Jordan Str. 82, A-1190 Vienna**

**The meeting starts on 22/10/2007 at: 9:00**

Monday 22/10/2007 9:00-12:00

1. Welcome to participants
2. Adoption of agenda
3. Approval of the minutes 3rd MCM
4. Review of the decisions of 3rd MCM
5. Presentation of the new delegations
6. Status of the Action
  - Basic information from the COST Office /EC-ESF contract, Grant System +/
  - Number of Signatories
  - Budget Status, budget allocation process
7. Web site
8. Report of the MC Chair /info from DC meeting, reporting/
9. Report of WG's chairs

**13:30-17:30**

- 10a. WGs meetings, Agendas prepared by WG leaders / following the working plans, preparation of the of survey report /

**Tuesday 23/10/2007 9:00-10:00**

- 10b. WGs meetings continue
- 10:00 -12:00**
11. Reports from the WGs meetings
  12. Preparation of the survey – publication

**13:00-16:00**

14. Status of external contacts WMO, EEA, ADAGIO, CECILIA, COST Actions/7XX???
14. Short term scientific mission(s)
15. Time and place of next meeting
16. AOB, internal administration
17. Closure of the meeting



European Cooperation in the Field of Scientific and Technical Research

***COST Office Overview & News  
and  
Managing Your COST Action in  
2007-2008***

**Carine Petit**  
Science Officer - ESSEM  
COST Office, Brussels, October 2007

## Annex 5 Budget proposal for 2007/2008

<b>Action 734</b>										
19/10/2007										
<b>2008 Budget</b>										
Total Action Budget										
Remaining Action Commitment										
93000,00										
-5975,00										
<b>Meetings</b>										
Meeting Type	Date	Place	Avg per p	Total Paid	Planned t	Requeste	Paid part	Cost	Status	Total
Others	02/10/2007	El Escorial (ES)	640		10	12		7680	APPROVED	
Others	04/10/2007	Brussels (BE)	640		1	1		640	Scanned	
Management Committee	22/10/2007	Vienna (AT)	640		44			25000	APPROVED	
Others	29/10/2007	London (GB)	640		1			1000	APPROVED	
Management Committee	01/03/2008	Larissa (GR)	640		45			28800	PLANNED	
Others	January 2008	Bratislava (SK)	640		12			7680	PLANNED	
										<b>70800</b>
<b>STSM</b>										
Beneficiary	Date	From					To	Cost	Status	Total
Dr Reimund Roetter	01/09/2007	Wageningen (NL)					FI	2475,00	APPROVED	
greece to Italy and denmark								5000		<b>7475,00</b>
<b>Workshops</b>										
Title	Date	Place						Cost	Status	Total
MC4 + WGs	22/10/2007	Vienna (AT)						2700,00	APPROVED	
MC5	March 2008	Larissa (GR)						3000,00	PLANNED	
										<b>5700,00</b>
<b>General Support Grants</b>										
Title	Date							Cost	Status	Total
General	10/03/2008							2000,00		
										<b>2000,00</b>
<b>Schools</b>										
Title	Date	Place						Cost	Status	Total
										<b>0</b>
Publications	COST intermediate report									<b>7000</b>
	Nicolas									<b>5000</b>
leaf let										<b>1000</b>
<b>Action Total</b>										<b>98975</b>

Annex 6 Report of the MC chair



Presentazione  
vienna 23 october 20

## **WG 1 report of Vienna meeting**

### 1. Planned WG1 – report

#### **Recommended Title :**

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

#### **Recommended structure :**

General Introduction

- General Table about agricultural statistics of European countries
- General Table, which kind of organization types are active in each country (and providing information)

The 4 subgroups (each 2 dedicated 2 Questions of the Questionnaires), the subtitles are :

1. Review of agroclimatic indices and statistical models
2. Review of process oriented models
3. Useful outputs and main limitations of impact models
4. Spatial applications including GIS and Remote Sensing

Common general structure of the subgroup reports (about 8 pages per subgroup)

1. Introduction (half a page)
2. Overview table(s) including statistical informations on details related to the questions
3. A more detailed description of the tables, including analysis of most relevant activities in Europe (3-6 pages)

General summary (and conclusions) (1-2 pages)

Reference List (including links to web pages)

First to be put in the subgroup reports, later to be in one reference list (numbered) at the end of WG1 report.

Total : 40-50 pages for WG1 report

#### **Time schedule :**

Till end of November for the subgroup reports to be sent to Josef Eitzinger  
Till the editing meeting in January : Draft WG1 report.

Sending new updated questionnaires to WG1 subgroups – incl. missing countries as soon as possible.

## **2. Planned WG1 activities for the next period (till June 2008)**

- 1) Investigate the crop yield relations of different indices (including analyses of available results)
- 2) To investigate how different models could complete each other for gathering better results (e.g. for climate change impact studies)
- 3) Recommendations about model combinations for specific phenomena in climate change impact studies (and needs for specific information on climate scenarios etc.-WG3, WG2, other WG requirements to be considered)
- 4) To gather information about available phenological models (in coop. with COST725)
- 5) Dissemination activities :
  - ICB (Simone, Japan);
  - EGU (Vienna; Poster by COST office ?);
  - Annuals NY Academy of Sciences (Paper);
  - Idojaras (Hungarian Journal – Aas Conference, Norway)
  - (or Aroecosystem and Env.)

Annex 8 WG2 Report



WG2 Vienna  
short.ppt

## **Report of COST 734 / WG 2.1 (RS) Meeting, Vienna, 22-23 October 2007**

Participants : Leonidas Toullos (GR), Piotr Struzik (PL), Mark Danson (UK), Janos Mika (HU)

***Decisions: During the WG2.1 Meeting, 22-23 October, in Vienna the following decisions were adopted:***

### **1. Working plan for the period October 2007-December 2007**

#### 1.1. Questionnaire of WG2.1 on Satellite Data Records Survey

Update the WG2.1 questionnaire report:

The “Questionnaire Table with Satellite Data Records” as well as the Report with the “Analysis of the data per country” will be distributed to all COST734 partners with request to update and submit the responses by 15 November.

The update of the questionnaire Table and the Analysis report will include:

- data with emphasis on climate and biophysical variables for warning purposes for agriculture,
- definitions, which products are prepared by individual institutions internally but also which are available globally from the main satellite operators,
- the purpose of the models referred on the questionnaire,
- radar data records (ground, SAR, ...) if exist,
- the time internals of the data archives,
- examples of satellite images, as referred in the questionnaire answers,
- comments and references.

#### ***1.2. Papers preparation***

Two papers will be prepared in a final form:

- a) An introductory paper describing the possibilities and limitations of the use of satellite data in the studies of the impact of climate change on agriculture (including example about cloud cover in UK)
- b) A paper on “Satellite spectral climate and biophysical data for warning purposes in agriculture”, based on the processing of the results of the updated questionnaires.

#### ***1.3. Expression of commitment***

Finalize the Expression of Commitment and post on the web.

### **2. Working plan for the next MCM**

2.1. Prepare a list of satellite data and products archives freely available through the web (NOAA, METEOSAT, NESDIS, .....). List of already done analyses of long term satellite data sets focusing on products used for agriculture (P. Struzik).

2.2. Selection of relevant information on satellite based analysis on climate from IPCC report 2007, other (J. Mika).

2.3. Collaboration with WG4 if they require satellite data for plant conditions information (J. Mika).

2.4. Contribute to the EGU (Europ.Geophys.Union) Conference, 13-18 April 2008, Vienna. Submit abstract by 14 January 2008.

**COST734, MC meeting, Vienna 22-23 October 2007**

**Minutes of the WG3 meeting**

- Participants.

Pierluigi Calanca, Emmanuel Cloppet, Janos Mika, and Ćedo Branković

- Evaluation of WG3 questionnaires and preparation of the report.

The evaluation of the questionnaires received so far (16 countries) is completed, and a first draft of the report is available. Tentative title "Use of climate scenarios in impact studies: past experiences and future needs". Content: 1. Introduction; 2. Global and regional climate scenarios (models, emission scenarios, time frames, evaluations, applications); 3. Regionalization techniques, with emphasis on statistical downscaling; 4. Future perspectives: Participation in EU projects and availability of new scenarios.

To proceed with the drafting of the report, it was decided that: (i) Pierluigi Calanca will deliver a first revision to the WG3 leader and members by the beginning of November; (ii) Emmanuel Cloppet will contribute to the further revision of the chapter on the climate scenarios, while Pierluigi Calanca will extend the discussion of the downscaling techniques. Other WG3 members are asked to contribute to the finalization of the draft for circulation within COST 734 by the end of 2007.

- Future activities.

To adhere to the milestones and deliverables formulated in the MoU, the following tasks are proposed for the period Nov. 2007 – March 2008 (next MCM in Larissa):

(1) To pursue the collection of climate scenarios. Due to delays in ENSEMBLES, the availability of scenarios and tools from this project will be re-assessed in January 2008. As an alternative, PRUDENCE scenarios will be collected either directly from the project database (<http://prudence.dmi.dk>) or through collaboration with the JRC Ispra.

(2) To establish a catalogue of requirements and possibilities concerning the use of climate scenarios within COST 734. A description of the scenarios available by the next MCM will be distributed during spring 2008. In addition, the WG leaders are asked to provide to WG3 a list of the specific needs (variables, time frames, spatial resolution, and the like). To this aim a questionnaire will be distributed by beginning of the year 2008 to the WG leaders.

## **Report of COST 734 WG-4 meeting, Vienna, 22-23 October 2007**

Participants: Jørgen E. Olesen, Mirek Trnka, Bernard Seguin, Fabio Micale, Arne Skejvåg, Federica Rossi, Jerzy Kozyne, Kurt Christian Kersebaum, Jozef Takac

### **Survey**

Questionnaires on specific information have been sent out to the COST group. Responses have been collected from 10 countries. There appears to have been some confusion on the definition of maize and the growing season. We choose to refer to grain maize only, and the duration of growing season is changed to duration of growth. The impacts are to be evaluated under the assumption that autonomous adaptation takes place using the range of cultivars available today.

Some of the working group members would like to slightly revise their response based on the overview that Mirek has made of the responses. Mirek will therefore send the presentation to the people that have already submitted questionnaires and ask them for possible revisions. In addition the questionnaire will be sent to the following persons:

Spain (Ana Iglesias, Angelo Utset, Inez Minguez)  
Portugal (Ana Monteiro Sousa)  
Hungary (Janos Mika)  
Bulgaria (Vesselin Alexandrov)  
Romania (Mateescu)  
Greece (Leonidas Toullos, Nicholas Dalezios)  
Norway (Arne Skjelvåg)  
Sweden (Henrik Eckersteen)  
Estonia (Laine Keppart, Anne Ingver)  
Lativa (Aivars Jermuss)  
Lithuania (Sigitas Lazauskas)  
UK (Mike Rivington, Goetz Richter, Graham Russell, Tim Sparks)  
Ireland (Nick Holden, Alison Donnelly)  
Netherlands (Raimod Rötter)  
Serbia (Branislava Lalic)  
Croatia (Visnjica Vucetic)  
Ukraine (Fabio provides name)

These people will be asked to respond by mid November, but with a final deadline at end of November. Jørgen and Mirek will draft a first version of the WG4 report in December and circulated this among the group members before the COST 734 core group meeting January. This will form the basis for a manuscript for publication in European Journal of Agronomy. A draft of this paper will be discussed at the MC meeting in spring 2008.

### **Future activities**

#### *Analysis of indices of climate change in European agro-ecozones*

A new software tool for analysing changes in agroclimatic indices (AgroClim) has been developed by Mirek Trnka. It is proposed that this software tool is applied to data from selected climatological

stations across Europe covering all relevant agroclimatological zones. The following indices are analysed in the software tool:

- Number of days with temperature above/below thresholds
- First and last frost
- Heat stress days (e.g days above 35 C)
- Mean temperature
- Start and end of vegetation season (threshold 5 C)
- Effective rainfall (rain or melting of snow)
- Start and end of snow cover, days with snow
- Frost stress (number of days without snow and  $T_{min} < -10, -15, -20$ )
- Water balance (Penman-Monteith evapotranspiration) (two layer soil model)
- Number of days with water deficit, actual evapotranspiration less than 40% of potential
- Workable days for sowing (early, mid, late sowings). Daily rainfall less than 0.4 mm, rainfall on previous day less than 5 mm, soil moisture 10-75%, no snow.
- Workable days for harvest. Daily rainfall less than 0.5 mm, rainfall on previous day less than 5 mm.

Mirek drafts a letter on the use of data for calculating indices of climate change, including the format of the data, the timeframe and the procedure. Mirek will make a Beta-version of the system and circulate this among the WG4 members before the Norway meeting. A plan and a protocol for the study will be discussed at the MC meeting in spring.

#### *Model inter-comparison of adaptation options*

There is large need to improve the understanding of adaptation to climate change. Much of the research on adaptation is based on results of simulation models. However, there is very little knowledge on the ability of models to properly simulate responses to adaptation options. Therefore the group agreed to set up a concerted effort to compare the ability of various crop models to simulate adaptation responses. This would be done for selected regions in Europe over the next 2-3 years. It is proposed to perform the analysis for winter wheat and spring wheat. A plan and protocol for the analyses will be discussed at the MC meeting in spring 2008.