

## **5<sup>TH</sup> MEETING OF THE COST 718 WORKING GROUP I: DRAFT CONCLUSIONS OF THE SEPARATE WG MEETING.**

(Ponta Delgada, Portugal , May 16<sup>th</sup> 2002).

The COST 718 Working Group I had its fifth meeting in May 16<sup>th</sup> . It follows the list of items that were discussed and the decisions adopted in each case:

1. Welcome to the participants.
2. Review of the decisions adopted in the last WG1 meeting in Budapest. Publication of the reports produced by the WG1members.
3. Round table discussion about the coming activities and preparation of the working plan for the WG.
4. Short term missions and study contract plans.
5. Any other business.
6. Date and place of the next meeting.

A total of 13 members attended the separate WG1 meeting (see list of attendants in the Annex I)

### **Discussion and decisions adopted**

Item 2. Concerning the way to finalise the publication of the reports produced by the WG in its two first years, it was adopted the following decision:

D.1) All members should complete the edition of the reports produced in the agreed camera-ready format and sent the material to the chairman of the WG1 (see in Annex 2 the list of available formatted reports). The reports produced will integrate a publication on "Meteorological Data for Agrometeorological Models", covering the different items considered by the WG1 (included those from RS subgroup WG1.1): use and availability of meteorological information from different sources, spatialisation of meteorological variables and use of remotely sensed data in models. The introductory text to organise and integrate the different reports will be prepared jointly by the Cost 718 Chairman Prof. G. Maracchi and the Chairman of the WG1 Mr. A. Mestre. The deadline for the reception of the formatted reports is the end of September 2002.

Item 3: After a round table discussion about the tasks to be done by the WG before the next MCM the following decisions were adopted :

a) Concerning further activities related with the use of meteorological information for models from the different sources it was decided:

D.2) To initiate an exercise to analyse the potential use of gridded data from local numerical weather models as direct inputs in agrometeorological models. First activity will be to compare over a selected area (around 20000 Km<sup>2</sup> ) for each participant country, the data got from a set of ground meteorological stations with those obtained from the numerical weather model (analysis and short-range forecasts) for a period of time of around 4-6 months. This exercise of validation should be made for the following variables (tri-hourly values): temperature, rainfall, wind speed, relative humidity and global radiation (if possible). The following countries agreed to participate in this comparison: Poland, Denmark, Portugal, Spain, Finland and Italy ). France

also offered the provision of data from the ALADIN model to be used in the experiment. It was decided to dedicate the next meeting of the WG (before the end of November 2002) to exchange and discuss among the participants the first results obtained from this study.

b) Activities in remote sensing (RS subgroup WG1.1 under the coordination of Dr. L. Toullos).

The following decisions (commitments and deliverables) concerning WG1.1 for the next MCM were adopted :

D.3) To prepare for the next meeting a report on the use of the ACQUA satellite. Mr. P. Struzik, and Mr. G. Stancalie will be in charge of this activity.

D.4) To investigate the contribution of RS satellite data in cloud coverage assessment for Leaf Wetness Duration calculation. Mr. Stefano Dietrich and Mr. G. Stancalie will be in charge to prepare the report on this activity for the next meeting.

Items 3 and 4 : There were no proposal for short-term missions.

Item 6. Date and place of the next WG1 meeting:

It was decided in plenary session that the next meeting of the MCM would be postponed to the beginning of next year and will be held in Tjele (Denmark) in April 2003. It was also decided to have three WG meetings before the end of the year ( 7 people each). The meeting of the WG1 will be held in November in Florence (Italy) at the invitation of Prof. Maracchi.

**ANNEX 1: LIST OF ATTENDANTS TO THE SEPARATE WG1 MEETING:**

Mr. Tor Sivertsen (Norway)

Mr. Ari Venäläinen (Finland)

Mr. Hartwich Dobestch (Austria)

Mr. Stefano Dietrich ( Italy)

Mr. Piotr Struzik (Poland)

Ms. Victorine Perarnaud (France)

Mr. Giampiero Maracchi (Italy)

Mr. Antonio Mestre (Spain).

Mr. Michel Steffensen (Denmark)

Mr. George Stancalie (Rumania)

Mr. Antonio Perdigao (Portugal)

Ms. Isabel Gomes (Portugal)

Mr. M. Sivakumar (WMO)

**ANNEX 2: LIST OF REPORTS OF WG1 AVAILABLE IN CAMERA READY FORMAT (INCLUDING THOSE FROM WG 1.1).**

**a) *Concerning the use and availability of meteorological information from different sources as input in agrometeorological models***

- 1) “ The quality concept of data from automated networks of meteorological stations and stations with manual recordings of measurements derived from a theoretical and philosophical point and leading to several practical recommendations. Use of the documentation system with the model AMBAV as an example” prepared by Tor Sivertsen (Norway).
- 2) “ The use of numerical weather forecast model predictions as a source of data for soil moisture modelling” prepared by Ari Venäläinen (Finland).
- 3) “Gridded data from numerical atmospheric models as input in agrometeorological models” prepared by B. Gozzini (Italy), F. Meneguzzo (Italy) and M. Pasqui (Italy) .
- 4) Meteorological data for agricultural models, a general analysis of different data sources by Ari Venäläinen.
- 5) Meteorology data available on the Internet for agrometeorology and general data application. by M. Lazcano (Spain).

**b) *Concerning the spatialisation of meteorological variables used as inputs in models.***

- 1) “Spatialisation of solar radiation –draft report on possibilities and limitations” by Piotr Struzik (Poland).
- 2) “ Rainfall spatialisation “ by Antonio Mestre (Spain).

**c) *Concerning the RS subgroup (Reported by Leonidas Toullos)***

- 1) The utilization of Remote Sensing data to estimate Land Surface Temperature" prepared by Gheorghe Stancalie (Romania) 10 p.
- 2) "Utilization of Remotely Sensed data for Rainfall Estimation" prepared by Stefano Dietrich et al. (Italy) 35 p.
- 3) "Utilization of Remote Sensing data to estimate Solar radiation" prepared by Leonidas Toullos (Greece) 34 p.
- 4) "Meteorological Applications for Agriculture" prepared by Luis Pessanha and Antonio Perdigao (Portugal) 7 p.
- 5) "Possibilities for use of satellite information as an input for CROPWAT software – Preliminary study", prepared by Piotr Struzik (Poland) 23 p.
- 6) “ Application of Remote Sensing data as inputs for the WOFOST 7.1 and SWAP 2.0 Models” by Allard de Wit et al. (the Netherlands) 11 p.