Minutes of the Eleventh COST 715 Meeting of Working Group 2

Vienna, Austria, 18 and 19 March 2004

Participants:

Alexander Baklanov	Jerzy Burzynski	Marco Deserti
Sylvain Joffre	Ari Karppinen	Patrice Mestayer
Douglas Middleton	Martin Piringer	Maria Tombrou

1. The agenda was adopted slightly revised and is given in Annex 1. Addresses of WG 2 members are given in Annex 2.

2. The minutes of the Lannemezan meeting have been adopted without change. MP checked which parts of the work plan agreed upon in Lannemezan (Annex 5 of the Lannemezan minutes) had been done.

3. MP briefly reported on the Berlin COST 715 Expert meeting 12/13 February 2004. A new draft outline of the common COST 715 report has been drafted (Annex 3).WG 2 will contribute to sections 4 and 5 and also to sections 14 and 15. These contributions have to be done as soon as possible; MP will make drafts of sections 4 and 5 to be revised by WG 2 members.
   In order to have also the extended WG 2 report reviewed by Sven-Erik Gryning (which he agreed to do) at the next Harmo9 conference, it is necessary to submit a final version approx. at the end of April 2004.

4.

   4.1 Status of draft final report at the meeting:
   MP briefly reported on recent contributions to the draft final report (DFR; structure see Annex 4) by A. Christen (AC) and K. De Ridder (KR). AC sent texts on the urban surface (section 2 of DFR) and Basel heat flux and MH results (current sections 5.2.4, 5.3.3). Additional results on Basel MH are to be expected. KR sent contributions to sections 3.1.6 (ARPS model modifications), 5.2.2 (heat flux results for Paris) and 6 (Satellite remote sensing). Support for finalising section 6 will come from PM.
   PM submitted extended texts on sections 3.1.5 (SM2-U – model) and 5.1.2 (description of UBL/Escompte), heat flux results (section 5.2.5). Urban SEB theory is in preparation (section 2). Delivery of UBL/Escompte MH results is under discussion.
   AB delivered texts for sections 3.2 (heterogeneity) and 3.3 (temperature roughness). 3.1.7 (urbanisation of NWP models) will follow. Amendments to sections 4 and 5 will be done when available from a new draft of the MH paper (MH calculations by MT, MD and JB as well as AB are under way).

AK contributed to 4.2.2 (ceilometer, wind profiler), 5.1.6 (Helsinki experiment, first draft) and 5.3.6 (MH results Helsinki). JB added to section 4.2.2 (sodar) and 4.2.4 (tracer data, together with MD), drafted 5.1.5 (Cracow exp.) and sections 5.2.3 (heat flux results) and 5.3.5 (MH results). MT: Description of Athens exp in 5.1 and MH results in 5.3 is in preparation.
MD: Description of Bologna exp. (5.1.4) and results in 5.2 and 5.3 are in preparation. DM provided text for 4.2.2 (lidar) and 4.2.3 (AMDAR data) as well as 5.1.3 (Birmingham exp.) and 5.2.6 and 5.3.7 (Birmingham heat flux and MH results).

4.2. Planned and expected contributions received when writing these minutes mid-April 2004: see Annex 4 for the current list of contents of the draft final report (DFR).
Main new results received are from Bologna, Athens, Cracow/Katowice, UBL/Escompte; a lot of MH comparisons are now available and included in the DFR. SJ carefully edited the draft and re-structured the MH results section.

4.3: see item 3 of these minutes for the timetable. Careful harmonising and editing of the DFR is still necessary.

5. When writing these minutes, WG 2 has almost finalised chapters 4 and 5 of the final report of the action.

6. The WG 2 overview contribution for the Harmonisation Conference in Garmisch in June 2004 was drafted by MP, revised mainly by SJ and submitted on April 1, 2004.

7. SJ reports on COST-715 follow-up Actions. COST-728 on “Enhancing meso-scale met. modeling capabilities for air pollution and dispersion calculations” will hopefully be accepted in spring 2004. Schatzmanns proposal “Quality assurance and improvement of micro-scale met. models” is under discussion in the TC. SJ also presented “Urban science forward look”: new partnership between COST and ESF. The TC will also promote the organisation of seminars for “urban” and “marine” science.

Annex 1: Agenda

1. Welcome and adoption of agenda
2. Adoption of Lannemezan minutes
3. Short report from Berlin and timetable (MP)
4. Final report of WG 2

4.1 Presentation and discussion of contributions
Contributions by AC/RV and KR (presented by MP)
Contribution by PM
Contribution by AB (MH paper)

Contribution by AK
Contribution by JB
Contribution by MT
Contribution by MD
Contribution by DM

4.2 Discussion of draft final report

4.3 Work plan for finalisation

5. Final report of the action (MP)

6. Garmisch overview paper (MP)

7. AOB

Annex 2: List and addresses of WG 2 members

Name	Institution and Address	Tel./Fax/e-Mail
Martin Piringer, chairman	Central Institute for Meteorology and Geodynamics (ZAMG) Hohe Warte 38 A-1190 Vienna Austria	Tel : +43 1 36026 2402 Fax : +43 1 36026 74 e-Mail : piringer@zamg.ac.at
Sylvain M. Joffre, vice-chairman	Finnish Meteorological Institute (FMI) Vuorikatu 24 P.O.Box 503 FIN-00101 Helsinki Finland	Tel: +358 9 19292250 Fax: +358 9 19294103 e-Mail: sylvain.joffre@fmi.fi
Alexander Baklanov	Danish Meteorological Institute (DMI) Lyngbyvej 100 DK-2100 Copenhagen, Denmark	Tel: +45 39 15 7441 Fax: +45 39 15 7460 e-Mail: alb@dmi.dk
Jerzy Burzynski	IMGW Okk Krakow, Poland	e-Mail: ziburzyn@cyf-kr.edu.pl
Andreas Christen	Univ. of Basel, Inst. of Meteorology, Climatology and Remote Sensing Klingelbergstraße 27 CH-4056 Basel, Switzerland	Tel: +41 61 267 06 87 Fax: +41 61 267 07 00 e-Mail: andreas.christen@unibas.ch
Koen De Ridder	VITO – TAP Boeretang 200 B-2400 Mol, Belgium	Tel: +32 14 336840 Fax: +32 14 322795 e-Mail: koen.deridder@vito.be
Marco Deserti	ARPA - Servizio Meteorologico Regionale Viale Silvani 6 I-40122 Bologna, Italy	Tel: +39 051284691 Fax: +39 051284664 e-Mail: m.deserti@smr.arpa.emr.it
Ari Karppinen	Finnish Meteorological Institute (FMI) Sahaajankatu 20E FIN-00810 Helsinki Finland	Tel: +358 9 19295453 Fax: +358 9 19295403 e-Mail: ari.karppinen@fmi.fi
Patrice Mestayer	CNRS – Ecole Centrale de Nantes BP 92101 F-44321 Nantes Cedex 3	Tel: +33 240371678 Fax: +33 240747406 e-Mail: patrice.mestayer@ec-nantes.fr
Douglas R. Middleton	UK Met Office FitzRoy Road Exeter EX1 3PB, U.K	Tel: +44 (0)1392 88 6964 Fax: +44 (0)1392 88 5681 e-Mail: doug.middleton@metoffice.com
Maria Tombrou	Univ. of Athens, Dept. of Applied Physics Panepistimioupolis Zographou GR - 157 84 Athens	Tel: +30 1 7274935 Fax: +30 1 7275281 e-Mail: mtombrou@cc.uoa.gr

Annex 3: Outline Structure of COST 715 Final Report

Meteorology applied to Urban Air Pollution Problems

Contents List

Annex 4: Current list of contents of draft final report of WG 2

7.6 NEED AND PLANNING OF FUTURE FIELD CAMPAIGNS

LIST OF REFERENCES

REFERENCE (ADDITIONAL FROM AC)

REFERENCE (ADDITIONAL FROM PM)

REFERENCE (ADDITIONAL FROM KR)

REFERENCE (ADDITIONAL FROM AB)

FUMAPEX REFERENCES

REFERENCES (ADDITIONAL FROM MT)

REFERENCES (ADDITIONAL FROM AB, SECTION 5.1.9)

REFERENCES (ADDITIONAL BY MD):