



EUROPEAN COMMISSION
RESEARCH DIRECTORATE-GENERAL
Political Co-ordination and Strategy

COST



January 12, 2004

**MINUTES OF THE SECOND MANAGEMENT
COMMITTEE MEETING OF COST ACTION
723**

**‘Data Exploitation and Modelling for the Upper
Troposphere and Lower Stratosphere’**

BERN, Switzerland, 6-7 October 2003

1. WELCOME TO PARTICIPANTS

Mr. Stefan Buehler, the MC Chair welcomed all participants to the meeting and thanked to the local organizer. As many new participants came to the meeting, each introduced himself with a short description of his/her background. List of participants is in **Annex 1**; List of national delegates is in **Annex 2**.

2. APPROVAL OF AGENDA

The Draft Agenda was approved without amendment (see Annex 3). Some items were exchanged because some people had to leave early.

MCM2/D1 The agenda was approved unanimously.

3. COMMENTS ON THE MINUTES OF 1st MCM

No comments were raised.

MCM2/D2 MCM1 Minutes were approved unanimously.

4. ORGANIZATIONAL MATTERS CONCERNING TRANSITION PERIOD AND NEW MANAGEMENT UNDER THE ESF

The ESF should take over the COST Secretariat on 1st January 2004. The detail rules are under the development and are not published, yet. The major changes are expected in the reimbursement system, which should be simpler and quicker, and in STSM management. The financial management until January 1st 2004 will be run as one overall budget without further distribution on the basis first come – first take. This will enable to organize some small WG and/or Expert meetings. The deadline for meeting requests submitting was set for 4 weeks. The rule – maximally 2 reimbursed persons per country per one meeting will remain valid. For the opening workshop in March, COST can pay 50% of the organizational costs of the host. It is not yet clear, whether we can have only 2 participants per country for the entire workshop reimbursed, or 2 persons per WG.

AI Pavol Nejedlik: Keep MC informed when new information concerning reimbursements for opening workshop becomes available.

5. OVERVIEW OF ACTIVITY DONE

The major event since 1st MCM was the change of the Action title. New Title: ‘Data Exploitation and Modelling for the Upper Troposphere and Lower Stratosphere’ express the Action objectives more precisely and is not in the collision with some FP6 activities. The WG leaders gave an overview over the activity since 1st MCM. All the WGs set the basic working plans. The main focus was put on organizing the WG1 meeting with scientific presentations.

Besides, all the WGs contributed to the EGS-AGU-EUG Joint Assembly, Nice, 2003.

6-7. SCIENTIFIC PRESENTATIONS

The scientific presentations went on according to the Agenda. Details can be found in **Annex 4**.

8. REPORT ON SPARC SCIENTIFIC STEERING GROUP

The WMO representative to COST723 gave a report on SPARC SSG and expressed his hope for further co-operation.

9. OPENING WORKSHOP PREPARATION

S. Buehler presented the draft program outline. The discussion of the Program is summarised in **Annex 5**.

10. IDEAS FOR OTHER ACTIVITIES

W. Lahoz presented an idea to organize a summer school focused on UTLS in 2005, which can be also conceived as one of the dissemination tools of COST723 results. The participants supported this suggestion, thus W. Lahoz will bring the proposal to the TCM in Exeter. COST budget doesn't allow to finance such an event in full so that more financial sources have to be found. The COST contribution will be considered according to the 2005 budget.

MCM2/D3 The MC supports the idea to organize a summer school on UTLS in 2005.

11. ADMINISTRATIVE MATTERS

11.1 The status of the Action has changed since the last MCM. The new title of the Action developed in co-operation with the EC was approved by the CSO. Belgium has signed the MoU on 21/03/03 and the number of participating countries has increased to 17.

11.2 The Action budget for 2004 hasn't been allocated so far. The expectation is approximately 65000 Euros. This should cover STSM (up to 10000Euro), participants' reimbursement for meetings attendance and possible Workshop subsidy. Publication will be paid from a separate COST Office budget.

11.3 The MC decided to organize STSM in 2004 according to the ESF regulation. One STSM shouldn't normally exceed 2000 Euro. The exceptional cases must be approved by COST

MCM2/D4 The MC agrees with STSM organization in 2004.

MCM2/D5 The STSM committee, consisting of S. Buehler, W. Lahoz, and B. Legras, will accept/reject STSM applications, and will run the administrative matters according to ESF regulations, together with the Scientific Officer.

11.4 No request for new membership to COST 723 arrived after September 10, 2003, which was the threshold for free joining.

11.5 The participants are encouraged to list all publications that they have produced in the context of COST723. This is applicable to publications since the official start of the Action, September 2002. To register a publication, simply send an email to the COST723 chairman. All publications will be published on the COST723 homepage.

Requests for financing any particular publication should be communicated to the Scientific Officer. The preference will be given to publications in peer reviewed journals. There is an intention to publish the Proceedings from the Opening Workshop.

MCM2/D6 COST723 related publications will be put on the Action web site.

MCM2/D7 The MC suggests to publish the Proceedings from the Opening Workshop, either via the EC OPOCE publisher, or by a journal special issue.

11.6 There is still some money from FP5 to organize small meetings. This money can not be transferred to 2004. If not used in 2003 it is lost or will be used by some other Action/Domain. WG2 informed the MC of the possibility to organize a WG meeting in conjunction with an ASSET meeting in Brussels. W. Lahoz will prepare documents necessary to submit meeting request.

MCM2/D8 The MC agrees to organize a WG2 meeting in Brussels on 1-2 December 2003.

MCM2/D9 MCM3 will be organized on March 11-13 in Noordwijk, NL together with the Opening Workshop.

MCM2/D10 MCM4 will be organized together with the WGs meetings on 6-8 October 2004. The place is to be decided later. F.Fierli will check the possibility to hold the meeting in Rome.

12. AOB

No contributions.

13. CLOSE

The MC chairman S. Buehler thanked all participants for their contribution and closed the meeting.

LIST OF ANNEXES

- Annex 1** List of participants (in paper)
- Annex 2** List of national delegates
- Annex 3** Agenda
- Annex 4** Review of scientific presentations
- Annex 5** Discussion of draft program outline of the Opening Workshop
- Annex 6** List of Action Items

Annex 2

LIST OF NATIONAL DELEGATES COST ACTION 723

‘Data Exploitation and Modelling for the Upper Troposphere and Lower Stratosphere’

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Annex 3

Draft Agenda COST 723 WG1 Meeting 1, Common Session WG1 + MC

Place: University of Bern, CH
Date : October 6-7, 2003
Time: October 6, 14:00 - 17:30
October 7, 9:00 - 12:30 ; 13:30 - 17:00

Monday, October 6, 2003

14:00	1.	Welcome	Buehler
14:05	2.	Approval of agenda	all
14:10	3.	Comments on the minutes of the 1st MC	all
14:15	4.	Organizational matters concerning transition period and new management under the ESF	Nejedlik
14:45	5.	Overview of activities done	
	5.1.	Overall and WG1	Buehler
	5.2.	WG2	Lahoz
	5.3.	WG3	Legras
15:00	6.	WG1 Activities and Contributions (short presentations on data sets and scientific activities, with emphasis on ideas and suggestions for joint activities in WG1)	
	6.1.	Radiosonde	
	6.1.1.	Radiosonde humidity measurement errors and new possibilities of their correction and validation as applied at Lindenberg upper air station	Leiterer
15:10	6.1.2.	UTLS water vapor measurements by balloon-borne sensors	Damski / Kyro / Kivi
15:20	6.1.3.	Homogenization of water vapor data from RS-80 and RS-90 radiosondes	Jaczewski / Brzoska
15:30		Coffee break	
16:00	6.1.4.	Temperature and relative humidity over Sofia from balloon soundings	Kolev
16:10	6.1.5.	Ozone & radiosonde data available at Uccle	De Backer / Schets
16:20	6.1.6.	Reference humidity profiles from a combination of different measurement techniques at a dedicated station	Feist / Gerber
16:30	6.1.7.	Discussion of ideas for radiosonde related COST723 activities	all
17:30		Close	
19:00		Joint dinner	

Tuesday, October 7, 2003

09:00		Agenda item 6 continued...	
	6.2.	Aircraft	
	6.2.1.	MOZAIC-data, particularly the use of water vapor data for UTLS-studies and the urgent need for integrated data sets of ground-based, airborne and satellite	Smit

		observations of humidity	
09:10	6.2.2.	MARSCHALS	Carly or Cortesi
09:20	6.2.3.	Discussion of ideas for aircraft related COST723 activities	all
10:00		Coffee break	
10:30	6.3.	Satellite	
	6.3.1.	AMSU-B humidity data	Buehler
10:40	6.3.2.	Odin LS water vapor and water vapor isotopes	Urban
10:50	6.3.3.	Other Odin data	Eriksson
11:00	6.3.4.	1-year intercomparison between Umkehr ozone and GOME ozone profiles	Zanis
11:10	6.3.5.	Availability of UTLS relevant MIPAS data	Milz
11:20	6.3.6.	Availability of UTLS relevant SCIAMACHY data	Eichmann
11:30	6.3.7.	Temperature profiles for the UTLS region from GPS radio occultation measurements with CHAMP	Schmidt
11:40	6.3.8.	Discussion of ideas for satellite related COST723 activities	all
12:30		Lunch break	
13:30	7.	Related activities in other WGs (short presentations of contributions, with emphasis on ideas and suggestions for joint activities in COST723)	
	7.1.	ASSET (Assimilation of Envisat data): Assimilation of water vapor and ozone in the UTLS	Lahoz
13:40	7.2.	Discussion of ideas for common COST723 activities	all
14:00		Coffee break	
14:30	8.	Report on SPARC Scientific Steering Group meeting	Ryabinin
14:40	9.	Opening Workshop preparation	
	9.1.	Draft program outline	Buehler
	9.2.	Discussion of draft program outline	all
	9.3.	Distribution of work / action items for workshop preparation	all
15:30	10.	Ideas for other activities	
	10.1.	COST723 UTLS summer school?	Lahoz
15:45	11.	Administrative matters	
	11.1.	Action status	Nejedlik
	11.2.	Budget planing 2004	Nejedlik
	11.3.	Short Term Scientific Missions (STSMs)	Nejedlik
	11.4.	Request for new members	Nejedlik
	11.5.	Publications	Buehler
	11.6.	Time and place of next meeting	all
16:45	12.	AOB	Buehler
17:00	13.	Close	Buehler

Annex 4

Review of scientific presentations

6. WG1 Activities and Contributions (short presentations on data sets and scientific activities, with emphasis on ideas and suggestions for joint activities in WG1)

6.1. Radiosonde

Presentations by: Ulrich Leiterer, Esko Kyro, Adam Jaczewski, Stayko Kolev, Hugo De Backer, and Daniel Gerber.

Some key points of the talks and the subsequent discussion:

- There will be a radiosonde validation campaign in Jan/Feb 2004 at Sodankyla, Finland, with many different research humidity sonde types participating. Currently planned are around 30-34 launches.

AI Esko Kyro: Keep WG1 updated about planning for radiosonde intercomparison campaign and results.

Hopefully, first results can be discussed at the opening workshop in March.

- There are radiosonde humidity bias correction efforts in the groups of Ulrich Leiterer, Esko Kyro, Adam Jaczewski, and Pierre Jeannet, using different correction algorithms.
- It was suggested to try and have a Vaisala representative in the WG.

AI Ulrich Leiterer: Suggest Vaisala representative for WG1.

AI Stefan Buehler: Contact Vaisala representative for WG1.

- A tendency is perceived, that humidity radiosoundings are no longer continued at all stations (latest case: Uccle in Belgium). Some discussion around this. Agreement that radiosonde data will continue to be crucial for research activities and satellite validation, even if satellite data has growing impact on NWP. Calibration and validation of radiosonde humidity sensors need to be improved.
- It was suggested that the involved radiosonde stations should aim to produce a bias-corrected 1-year, 4 times daily, reference humidity data set for the use of the Action. Details and exact period TBD at the opening workshop in March.

AI Ulrich Leiterer: Coordinate the discussion about a reference radiosonde humidity data set in preparation for the workshop or at the workshop.

It may be necessary to devote a future WG meeting to radiosonde humidity measurement harmonization, using the results of the measurement campaign in Finland.

- There are algorithms around to correct historic radiosonde data.
- The NDSC has a database of lidar H₂O observations.

AI Frederico Fierli: Investigate if we can use the NDSC lidar H₂O database and report back to the WG, act as a COST723 representative in lidar related NDSC meetings.

- The WG is starting an inventory of available quality assessed H₂O data in the UTLS region.

AI Herman Smit: Coordinate data inventory and present first results at the opening workshop.

Approach:

- a) Starting point: SPARC/WAVAS assessment.
- b) Circulate a questionnaire.
- c) First characterize data availability.
- d) At March opening workshop, use one meeting day to evaluate found data and make a plan of action for the quality assessment.

It is anticipated that it will be necessary to apply for additional external funding to carry out comparison exercises.

- The European Aerosol Research Lidar Network EARLINET could also have interesting H₂O data.

AI Valentin Simeonov: Report to the WG about available EARLINET data, act as COST 723 contact point in EARLINET.

6.2.

Aircraft

Presentations by: Herman Smit (MOZAIC) and Jörg Langen (MARSHALS).

Some key points of the talks and the subsequent discussion:

- MOZAIC is an important source of global UTH data. Interestingly, MOZAIC UT is considerably wetter than ECMWF.
- MARSHALS data will be stored by ESA in a campaign database when available. Should in principle be also usable by the Action.
- Activities: See 'inventory' activity above.

6.3.

Satellite

Presentations by: Stefan Buehler (AMSU), Jo Urban/Patrick Eriksson (Odin), Mathias Milz (MIPAS), Kai-Uwe Eichmann (SCIAMACHY), and Torsten Schmidt (CHAMP).

Some key points of the talks and the subsequent discussion:

- AMSU data can be used to compare time series of radiosonde measurements at different stations.
AI Stefan Buehler: Work on AMSU based radiosonde station survey for UTH.
- Satellite data can be of interest for the radiosonde intercomparison campaign in Jan/Feb in Finland.
AI Mathias Milz: Provide MIPAS LS humidity data for the radiosonde intercomparison campaign period and area.
- MIPAS data is available also from the ESA offline processor.
AI Joerg Langen: Send Envisat data application form to Stefan Buehler. Done.
AI Stefan Buehler: Submit a category 1 proposal for using Envisat data for the Action. Done, proposal ID 2511.
- SCIAMACHY O₃ retrieval is operational above 10-14 km. H₂O retrieval is still under development, first results are expected by the end of the year.
AI Kai-Uwe Eichmann: Prepare MIPAS/SCIAMACHY H₂O intercomparison talk for opening workshop.
- CHAMP has operational temperature data since February 2001. H₂O retrieval needs external information and is still experimental. A comparison of CHAMP and MIPAS temperature data is ongoing, comparisons of CHAMP temperature data to high-resolution radiosondes (Lindenberg and others) is planned.

Annex 5

Discussion of draft program outline

Target group of workshop: Mostly for people who want to contribute to the Action. We want a *workshop*, not a *conference*.

WGs should invite additional people as necessary to achieve their goals.

Below is the draft program that emerged in the discussion.

Thu March 11

14:00-18:00: Overview Session

- 1 talk COST 723 Overview: Where do we want to go?
- 3 talks WG overviews (starting with WG3, then 2, then 1)
- 2 invited talks (e.g., SPARC WAVAS overview talk, ...what else?)

Fri March 12

9:00-12:00: Parallel WG Sessions

- 3 invited talks
- 3 WG member talks

13:00-15:00: WG Group Work

Can be filled by WGs as they see fit.

16:00-18:00: Poster Session

Sat March 13

09:00-12:00: Joint Summary Session

- Rapporteurs from WGs
- Joint discussion and plans

Close after lunch

Distribution of work / action items for workshop preparation

AI Working group chairmen (Buehler, Lahoz, Legras):

- Suggest distinguished speakers for the first day (suggestions by others also welcome)
- Coordinate talk program for the second day for their WG
- Coordinate work program for the second day for their WG
- Contact additional people for their WG as necessary

AI Stefan Buehler: Prepare Action overview talk.

AI Herman Smit: Prepare WG1 overview talk.

AI William Lahoz: Prepare WG2 overview talk.

AI Bernard Legras: Prepare WG3 overview talk.

Annex 6

List of Action Items

Key	Who	What	Status
Bern-01	Pavol Nejedlik	Keep MC informed when new information concerning reimbursements for opening workshop becomes available.	Closed
Bern-02	Esko Kyro	Keep WG1 updated about planning for radiosonde intercomparison campaign and results.	Open
Bern-03	Ulrich Leiterer	Suggest Vaisala representative for WG1.	Open
Bern-04	Stefan Buehler	Contact Vaisala representative for WG1.	Open
Bern-05	Ulrich Leiterer	Coordinate the discussion about a reference radiosonde humidity data set in preparation for the workshop or at the workshop.	Open
Bern-06	Frederico Fierli	Investigate if we can use the NDSC lidar H ₂ O database and report back to the WG, act as a COST723 representative in lidar related NDSC meetings.	Open
Bern-07	Herman Smit	Coordinate data inventory and present first results at the opening workshop.	Open
Bern-08	Valentin Simeonov	Report to the WG about available EARLINET data, act as COST 723 contact point in EARLINET.	Open
Bern-09	Stefan Buehler	Work on AMSU based radiosonde station survey for UTH.	Open
Bern-10	Mathias Milz	Provide MIPAS LS humidity data for the radiosonde intercomparison campaign period and area.	Open
Bern-11	Joerg Langen	Send Envisat data application form to Stefan Buehler.	Closed
Bern-12	Stefan Buehler	Submit a category 1 proposal for using Envisat data for the Action.	Closed
Bern-13	Kai-Uwe Eichmann	Prepare MIPAS/SCIAMACHY H ₂ O intercomparison talk for opening workshop.	Open
Bern-14	Stefan Buehler	Add publication list to COST 723 website.	Closed
Bern-15	WG chairmen	Prepare workshop program for their WG (suggest distinguished speakers for day 1, coordinate talk and work program for day 2, contact additional people as necessary.)	Open
Bern-16	Stefan Buehler	Prepare Action overview talk.	Open
Bern-17	Herman Smit	Prepare WG1 overview talk.	Open
Bern-18	William Lahoz	Prepare WG2 overview talk.	Open
Bern-19	Bernard Legras	Prepare WG3 overview talk.	Open