



## **D-PHASE**

a WWRP Forecast Demonstration Project

# **Minutes of the MAP D-PHASE Steering Committee meeting, 7 August 2007, Baden Airpark**

Participants: Manfred Dorninger, Mathias Rotach, Hans Volkert, Volker Wulfmeyer, and Marco Arpagaus (MD coordinator; minutes)

Excused: François Bouttier, Andrea Buzzi, Ken Mylne, Roberto Ranzi, Evelynne Richard, Andrea Rossa, Christoph Schär, Michael Staudinger

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## **1 Opening, agenda, minutes**

Mathias Rotach opened the formal meeting after a very nice and illustrative excursion to Supersite Hornisgrinde and a memorable lunch break at the Mummelsee: Many thanks to Volker Wulfmeyer for hosting the meeting at Baden Airpark and for organising an exquisite COPS-tour!

The agenda was adopted unanimously, but was reshuffled. The minutes will however follow the ordering given by the agenda.

The minutes of the last meeting (27 March 2007, in Hohenheim) have been approved with thanks to the author.

## 2 Information

This agenda item was skipped due to lack of time.

## 3 Observational data

### 3.1 Status

This agenda item was skipped due to lack of time.

### 3.2 Transformation to NetCDF at U Vienna

U Vienna (Manfred Dorninger) has offered to transform the observational data into NetCDF. 10 k€ are however needed for this extra effort. MeteoSwiss will cover 5 k€ (from remaining MAP NWS funds).

**Discussion:** Who could cover the other 5 k€?

- COPS has no money left.
- GOP?
- Could be funded through a common D-PHASE/COPS/GOP SPP QNV project.

**Decision:** Volker Wulfmeyer will check with Ms Kowol-Santen for additional funding options, and Manfred Dorninger will contact Susanne Crewell to discuss a possible funding by the GOP. If all the above options fail, MeteoSwiss may be able to pre-finance the full 10 k€.

*Note added in proof (22.11.2007): COPS will finance the remaining 5 k€ (information by Manfred Dorninger).*

### 3.3 Quality control: Common D-PHASE/COPS/GOP project?

See agenda item 6.

### 3.4 Gridded data: Common D-PHASE/COPS/GOP project?

See agenda item 6.

## 4 Future of VP after the DOP

The VP should be switched off by the end of November 2007 (end of the DOP) or at least by the end of the year (the MAP data policy as well as the letter to the Met Services refers to the full year 2007). There is however already widespread interest among the end users (especially in Switzerland) to keep the D-PHASE visualisation platform alive after 31 December 2007. This is a tremendous success for D-PHASE (the MAP **FDP!**), but raises the question of the way forward.

The following options are possible (not a final list):

- Each interested country buys 'their share' of the VP, and runs it country-wise: no (or limited ...) problems with data exchange and different rules.
- Try to find a joint solution (as is): how about data rights?

Input from meeting of the WG chairs (16/17.7.2007):

- In Italy, civil protection authorities might be interested in a continuation of the VP. (ARPA-SIM will advertise the VP to the civil protection agencies at a meeting in Rome in November. This will hopefully trigger some vivid interest in the continuation

of the VP after the DOP.) A joint VP (Italy / Switzerland) with different data sources and different access rights (e.g., 'Italian data for Italian users, only') would be a straightforward option.

- No clear signal from other countries, yet.

#### **Discussion:**

- The future of D-PHASE has two aspects: a scientific one (see agenda item 6) as well as a technical one (continuation of the VP, mainly for the end users; this item).
- Wulfmeyer: Could EUMETNET fund the VP? – Rotach: No chance!
- Wulfmeyer: Could the WMO (WWRP) run the VP on their web-site? – Volker Wulfmeyer will contact Slobodan Nicolic (WWRP commissioner) to investigate.

*Note added in proof (22.11.2007). There are firm plans in Switzerland (including funding) to continue the operation of (a Swiss version of) the VP. Details are yet to be fixed. – No other concrete plans (and respective funding capabilities) are known to date.*

## **5 Future of DA after March 2008**

The continuation of support for the DA (position of Claudia Wunram) should be part of the common D-PHASE/COPS/GOP project (see agenda item 6).

## **6 Data analysis after the DOP**

The MD-SC has expressed its strong interest in a continuation of the scientific exploitation of the D-PHASE data set! – As often the case, the only open question is funding ...

### **6.1 Joint project with Meteorisk?**

No news, i.e., the call is still unpublished (expected for autumn 2007).

*Note added in proof (22.11.2007): No news ...*

### **6.2 Other funding opportunities?**

The only feasible option for funding to date is a common D-PHASE/COPS/GOP (umbrella) project within the 3<sup>rd</sup> phase of the SPP QNV (Priority Programme of the German Research Foundation; funding body for COPS and GOP). It will however not be able to cover projects outside of Germany, Switzerland, and Austria.

Volker Wulfmeyer mentioned the successful COPS funding during the 2<sup>nd</sup> phase of the SPP QNV, and suggested to propose a similar umbrella project for D-PHASE/COPS/GOP (and AMF, ETReC) for the 3<sup>rd</sup> phase of the SPP QNV:

- Main partners should be Volker Wulfmeyer (COPS), Susanne Crewell (GOP), Mathias Rotach (D-PHASE), and Manfred Dorninger (doing most of the D-PHASE related 'technical' work).
- It should, among other things (science, that is!), include (i.e., fund!) the following items:
  - 5k€ for transformation of data into NetCDF, if needed (see agenda item 3.2)
  - Uploading of transformed data to DA.
  - Quality control

- Data gridding
- Continuation of support for the DA (position of Claudia Wunram, see agenda item 5)
- Manfred Dorninger takes the responsibility for D-PHASE to coordinate the formulation of the project proposal with Volker Wulfmeyer and Susanne Crewell. – Deadline for the proposal is end of October 2007.

## 7 Next Scientific D-PHASE Meeting

- Joint meeting with the COST 731 Mid-term Seminar
- *NEW* dates for the meeting are 19-22 May 2008
- Programme committee and local organizing committee established (chair: Andrea Buzzi).

### Discussion:

- Wulfmeyer: Should allow plenty of time (and space!) for posters.
- Wulfmeyer: There will be a COPS workshop at the end of February 2008 (tentatively: 27 – 29.2.2008).

## 8 Project marketing: publicity and publications

- Media: There will be a media day in Switzerland on the 29<sup>th</sup> of August. Are there any activities planned elsewhere? – *Note added in proof: The media day was very successful and triggered 22 press articles.*
- Exchange I: Mathias Rotach has participated at a HEPEX workshop. As a result, D-PHASE becomes a 'test bed' within HEPEX, which has no implications for D-PHASE, but improves our visibility among hydrologists.
- Exchange II: Manfred Dorninger will – on invitation – represent D-PHASE at the upcoming Beijing 2008 FDP/RDP workshop in Qingdao, China.
- Papers:
  - Mathias Rotach (co-authors: all WG chairs plus D-PHASE coordinator) will publish an article in Meteorology and Atmospheric Physics (ICAM 2007 proceedings). – *Note added in proof (22.11.2007): On writing this contribution, two problems arose: one of available time and the other one concerning the coordination/duplication with respect to the planned BAMS paper (see below). After all, the former problem solved the latter (i.e., no paper was submitted to Met Atm Phys).*
  - HEPEX proceedings will be published in Atmospheric Science Letters. Lead author will be Massimiliano Zappa (co-authors: all WG chairs plus D-PHASE coordinator).
  - BAMS article: This is still on Mathias' desk ...
  - Paper in HESS or similar hydrological journal (task WG-Ch 8): Roberto Ranzi and Christoph Hegg take care of the issue.
- A list of all published papers, conference talks and proceedings, media articles, etc, will be collected once per year. Marco Arpagaus (lead), Andrea Montani, Manfred Dorninger, Michael Denhard (tbc), and Evelyne Richard (tbc) will do this for Switzerland, Italy, Austria, Germany, and France, respectively.

**Discussion:**

- Volker Wulfmeyer suggests Hydrometeorology (AMS) and Meteorologische Zeitschrift (where VW is editor) as possible additional (or alternative) journals.

**9 Next meeting and any other business**

The next MAP D-PHASE Steering Committee meeting is planned for 22-23 May 2008, in Bologna.

## Appendix: Updated action list

### Updated action list (status as of MAP D-PHASE *telephone conference* of the WG chairs, 12 October 2007)

Identifier	Action	Responsible	Due date	Remarks
WG-DI 13	Check metadata information on DA for accuracy and completeness (cross-check with the actual file content!).	WG-DI / Montani	asap	ongoing
WG-DI 15				
WG-HEU 6	Search for specific sites where cost/loss analysis can be carried out.	WG-HEU / Hegg	asap	Mattmark? Sylvensteinspeicher?
WG-HEU 20	Work out detailed specification of feedback assessment.	WG-HEU	asap	See MD-IP section 9.3.
WG-HEU 21	Make feedback assessment.	WG-HEU		See MD-IP section 9.3.
WG-VER 3	Work out detailed specification of offline verification.	WG-VER	12.2007	See MD-IP section 9.2.
WG-VER 4	Make offline verification.	WG-VER		See MD-IP section 9.2.
WG-VER 8	Provide estimate of the resources needed for collection of <i>all</i> observational data, data transformation and uploading to the DA, quality control, and data gridding. Serves as input for the D-PHASE/COSP/GOP common project proposal to the German Research Foundation (3 <sup>rd</sup> phase of SPP QNV).	Dorninger	10.2007	
WG-VER 9	Collect all meteorological data of interest, i.e., surface station data and radiosonde data, GTS as well as non-GTS data, from the Met Services.	Dorninger	asap	ongoing
WG-VER 10	Collect all hydrological data of interest.	Ranzi	asap	
WG-VER 11	Transform all collected surface station data and radiosonde data into NetCDF.	Dorninger	asap	ongoing
WG-VER 12	Coordinate the formulation of the joint D-PHASE/COPS/GOP SPP QNV umbrella project with Volker Wulfmeyer (COPS) and Susanne Crewell (GOP).	Dorninger	10.2007	See WG-VER 8
WG-DP 5				
MD-Ch 3	Prepare WWRP FDP and/or MAP D-PHASE letter of recommendation for possible proposals to national funding bodies.	Rotach	on request	
MD-Ch 5	Publish paper in BAMS. Authors: Rotach (lead), WG chairs, and MD-Co.	Rotach	2008	First draft by the end of the DOP, i.e., early December 2007.

**Updated action list (status as of MAP D-PHASE telephone conference of the WG chairs, 12 October 2007)**

Identifier	Action	Responsible	Due date	Remarks
MD-Ch 6	Publish paper in Meteorology and Atmospheric Physics (ICAM 2007 proceedings). Authors: Rotach (lead), WG chairs, and MD-Co.	Rotach	10.2007	
MD-Ch 7	Publish paper in Atmospheric Science Letters (HEPEX 2007 proceedings). Authors: Zappa (lead), WG chairs, and MD-Co.	Zappa/Hegg	asap	On hold since the specifications for the paper (number of pages, etc) are missing.
MD-Ch 8	Publish paper in HESS or similar hydrological journal (JoH? JoHM?). Authors: Ranzi & Hegg (lead), WG chairs, and MD-Co.	Ranzi/Hegg	asap	
MD-Ch 9	Suggest extra D-PHASE session at EGU 2009.	Ranzi	04.2008	Joint Meteorology/Hydrology session?
MD-Ch 10	Invite Tom Keenan to Joint 2 <sup>nd</sup> MAP D-PHASE Scientific Meeting / COST 731 Midterm Seminar in Bologna.	Rotach	11.2007	Funding to be decided.
MD-Ch 11	Invite B08FDP/RDP to Joint 2 <sup>nd</sup> MAP D-PHASE Scientific Meeting / COST 731 Midterm Seminar in Bologna.	Rotach	11.2007	No funding.
MD-Co 11	Collect input for and edit MD-IP.	Arpagaus	ongoing	
MD-Co 12	Collect list of published papers, conference talks and proceedings, media articles, etc. – Responsibility: Marco Arpagaus, Andrea Montani, Manfred Dorninger, Michael Denhard (tbc), and Evelyne Richard (tbc) for Switzerland, Italy, Austria, Germany, and France, respectively.	Arpagaus	yearly	
MD-DA 8				
MD-VP 7				
MD-meeting 1	Produce a D-PHASE T-shirt. – To be sold at the 2 <sup>nd</sup> MAP D-PHASE Scientific Meeting in Bologna.	Montani	04.2008	
COPS-Ch 1	Provide software that generates atmospheric model products. <i>Still missing:</i> - <i>Ensemble-meteograms</i>	Wulfmeyer	asap	See MD-IP section 3.1.4.