



D-PHASE

a WWRP Forecast Demonstration Project

Minutes of the MAP D-PHASE *telephone conference* of the WG chairs, 12 October 2007

Participants: Manfred Dorninger, Christoph Hegg, Andrea Montani, Roberto Ranzi, Mathias Rotach, and Marco Arpagaus (MD coordinator; minutes)

Agenda

- 1 Opening, agenda, minutes
 - 2 Information:
 - 2.1 Status of VP
 - 2.2 Status of DA
 - 2.3 Status of model products
 - 3 End user feedback:
 - 3.1 Online forms: status
 - 3.2 Workshops: actions needed?
 - 4 Data analysis after the DOP:
 - 4.1 Common D-PHASE/COPS/GOP SPP QNV project: status and actions needed
 - 4.2 Meteorisk II: status
 - 5 Publications: actions needed?
 - 6 Review of the action list & open issues from the Working Groups
 - 7 Meetings:
 - 7.1 Joint 2nd MAP D-PHASE Scientific Meeting and COST 731 Midterm Seminar: status and actions needed
 - 7.2 Next meeting of the WG chairs
 - 8 Observational data:
 - 8.1 Data collection (surface station data and radiosonde data, GTS and non-GTS data): status
 - 8.2 Data transformation and upload to DA: status
 - 8.3 Quality control: who does it?
 - 8.4 Gridded data: who does it?
 - 8.5 Common D-PHASE/COPS/GOP SPP QNV project: status
 - 9 Any other business
- Appendix: Updated action list

1 Opening, agenda, minutes

Mathias Rotach welcomed all participants to the telephone conference.

After inclusion of the item 'the future of the VP', the agenda was adopted unanimously.

The minutes of the last meeting (16-17 July, in Bologna) have been approved with thanks to the author.

2 Information:

2.1 Status of VP

Apart from some further improvements and a few bug fixes here and there the VP is fully operational.

2.2 Status of DA

The DA is up and running. – Open issues:

- Andrea Montani is currently reviewing the metadata information and cross-checking with the actual GRIB content of the files (task WG-DI 13; at least one random test for each model).
- Manfred Dorninger will send out another mail to WG-VER to motivate the verification people to download data from the DA (thereby checking the data retrieval process) and start verifying all the wonderful data.

2.3 Status of model products

- Andrea Montani checks whether all atmospheric ensemble systems provide probabilistic output (e.g., INMSREPS? LAMEPSAT?). If not, he will contact the respective contact persons.
- Andrea Montani contacts Matthias Grzeschik to discuss the status of the ensemble meteograms.

3 End user feedback:

3.1 Online forms: status

The end user feedback forms are online. A few smaller bugs will be fixed asap.

3.2 Workshops: actions needed?

All end users can provide feedback by using the online feedback forms (In Switzerland, end users have also been asked to provide feedback on past events, since there have been quite a few events before the feedback forms came online.)

In Switzerland, there will be an end user workshop to also get some oral feedback, e.g. on the user friendliness of the VP (no respective item on the online feedback forms).

No workshop is planned in Italy, but this may be changed once it has started to rain south of the Alps ...

On demo.d-phase.info, a frozen version of the VP for a specific date in the past (8.8.2007, 12 UTC) will become available for demonstration purposes. The WG chairpersons are asked to send additional dates of interest to Marco Arpagaus by the end of the DOP (by mail), bearing in mind that every copy of the VP for a specific frozen time has to be paid for (a few 100€ each).

4 Data analysis after the DOP:

4.1 Common D-PHASE/COPS/GOP SPP QNV project: status and actions needed

The idea of a joint D-PHASE/COPS/GOP SPP QNV project for scientific issues (data analysis!) has failed, mainly for political reasons within the German research community. Instead, every group that is eligible for funding by the German Research Foundation (e.g., MeteoSwiss, U of Vienna) should look for project partners within the SPP QNV individually (e.g., MeteoSwiss will possibly join a project concerning predictability proposed by Wulfmeyer and Hense). – In this sense, no common D-PHASE action is required.

Information from Christoph Hegg: The International Commission for the Hydrology of the Rhine basin (**CHR**) plans to verify D-PHASE forecasts for the Rhine basin. The size of this project (funding ...) is unclear, but probably not substantial.

4.2 Meteorisk II: status

No news, i.e., the call is still unpublished.

5 Publications: actions needed?

- BAMS paper (task WG-Ch 5): Mathias welcomes any input. First draft planned for early December 2007.
- ICAM 2007 proceedings (task WG-Ch 6): Deadline has been extended to end of October. A first draft should be ready a few days before the deadline, which Mathias will distribute to all co-authors. Any input (also beforehand!) would be appreciated. – Manfred Dorninger will provide some input concerning VERA.
- HEPEX proceedings (task WG-Ch 7): Zappa agreed to serve as lead author. However, since the specifications for the paper by HEPEX are not yet known, the paper is on hold.
- Paper in HESS or similar hydrological journal (task WG-Ch 8): Roberto Ranzi and Christoph Hegg take care of the issue.
- EGU: No special effort will be made for a D-PHASE session at the EGU 2008 conference (we do not want to build up too much competition for our own meeting in Bologna a month later). However, Roberto Ranzi will check whether a special joint session (Meteorology and Hydrology within D-PHASE) could be organised for EGU 2009).
- Information from Manfred Dorninger: At the B08FDP/RDP workshop in Qingdao, a joint B08FDP/RDP D-PHASE session at the WMO Nowcasting Conference in Whistler, Canada (2009) has been suggested.

6 Review of the action list & open issues from the Working Groups

- WG-HEU 18: No longer needed.
- WG-VER 3: Manfred Dorninger tries to motivate the WG-VER members again to be more active and start specifying the offline verification. The data is rolling in and should be looked at! – The strong interest in using the D-PHASE data by Beth Ebert, Barbara Brown, and Marion Mittermaier from the WWRP/WGNE Joint Working Group on Verification shows the high value of this data set!

- WG-VER 5: No activity planned within WG-VER. Within WG-HEU, there is mainly the WSL project (Hegg et al.), which may also assess the feedback from end users outside of Switzerland (depending on the amount of feedbacks). – The task is therefore transferred to WG-HEU.

7 Meetings:

7.1 Joint 2nd MAP D-PHASE Scientific Meeting and COST 731 Midterm Seminar: status and actions needed

- Some delay (e.g., 2nd announcement should have been published by Sep 15) due to delayed COST 731 decisions. – 2nd announcement and opening of the web-site should however come soon.
- New (still tentative) dates for the meeting are 19-22 May 2008, noon to noon. The last day (up to May 23, noon) will be devoted to a MD-SC meeting and some COST 731 management meetings.
- All planned speakers (Buizza, Bougeault, Paccagnella, Beven, Collier) can be invited on COST 731 funds.
- The fee for the conference is still open.
- Manfred Dorninger strongly suggests inviting Tom Keenan (WMO representative). – Mathias Rotach will do that. Who pays for Tom Keenan's trip will be decided when we know how much it costs (he may happen to be at the WMO in Geneva ...).
- Mathias Rotach will also invite the B08FDP/RDP colleagues to the meeting. They will however cover their expenses themselves.
- The T-shirt should not be included in the conference fee (COST 731 colleagues!), but should be sold on the spot.

7.2 Next meeting of the WG chairs

- Monday, 4.2.2008, in Zurich (full day).
- Joint meeting with the MD-SC, 22-23 May 2008, in Bologna.

8 Observational data:

8.1 Data collection (surface station data and radiosonde data, GTS and non-GTS data): status

- **Manfred Dorninger confirmed that the U of Vienna is collecting *all* meteorological data of interest, i.e., surface station data and radiosonde data, GTS as well as non-GTS data, from the Met Services** (the GTS data are provided to the U of Vienna by ZAMG).
- Concerning the COSMO data set, Manfred Dorninger will contact Chiara Marsigli (ARPA-SIM) to get both the latest data as well as information on the data (availability, network, etc). – All relevant Met Services have agreed to provide the COSMO data set to D-PHASE.
- The German data pose problems since (a) some of the data (i.e., COSMO data set) are not available yet for 2007 (note: Hajo Koppert has promised to improve the situation asap), and (b) DWD does not want to deliver the data to Manfred since they already delivered it to the GOP. – Manfred will check with Chiara what data are

available through the COSMO data set (see above), and if problems arise, will contact Mathias Rotach for support.

- Roberto Ranzi has agreed to take the responsibility to collect all hydrological data of interest (e.g., runoff data) and coordinate the verification of the hydrological forecasts (jointly with Christoph Hegg).

8.2 Data transformation and upload to DA: status

- **Manfred Dorninger confirmed that data transformation into NetCDF at the U of Vienna will be done for both surface station data and radiosonde data.**
- The 10k€ needed for the transformation into NetCDF are provided by MeteoSwiss (5k€, invoice needs to reach MeteoSwiss well before the end of 2007) and the SPP QNV umbrella project (see agenda item 8.5).
- Uploading of the transformed data to the DA will also be done by the U of Vienna. Extra funding for this task will be requested through the SPP QNV umbrella project (see agenda item 8.5).

8.3 Quality control: who does it?

Manfred Dorninger proposes to add a quality control project to the SPP QNV umbrella project (see agenda item 8.5). – The work would be done at the U of Vienna for surface station data, and possibly within the GOP for radiosonde data.

8.4 Gridded data: who does it?

Manfred Dorninger proposes to also add a data gridding project (work to be done at the U of Vienna) to the SPP QNV umbrella project (see agenda item 8.5). – The WG chairs advise to formulate the umbrella project such that the data gridding project would be cut first, should the need (or wish) for cutting arise, mainly because this is a really big task.

Manfred will decide himself (see agenda item 8.5) whether data gridding should really be included in the umbrella project or whether it should just be mentioned as a possible synergy (there may be Austrian funding for this project).

8.5 Common D-PHASE/COPS/GOP SPP QNV project: status

There will be (or better: there are firm plans for) an umbrella project for joint D-PHASE/COPS/GOP interests for the 3rd phase of the SPP QNV (Priority Programme of the German Research Foundation; funding body for COPS and GOP). The main partners are Volker Wulfmeyer (COPS), Susanne Crewell (GOP), Mathias Rotach (D-PHASE), and Manfred Dorninger (doing most of the work ...). It should, among other things, include (i.e., fund!) the following items:

- 5k€ for transformation of data (see agenda item 8.2).
- Uploading of transformed data to DA (see agenda item 8.2).
- Quality control (see agenda item 8.3).
- Optional: Data gridding (see agenda item 8.4).
- Continuation of support for the DA (position of Claudia Wunram).

Manfred Dorninger takes the responsibility to coordinate the formulation of the project proposal with Volker Wulfmeyer and Susanne Crewell. – Deadline for the proposal is end of October 2007!

9 Any other business

- The future of the VP after the DOP:
 - 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.
 - No explicit interest in the continuation of the VP from Austria, so far.
 - Roberto Ranzi (he missed this item since he had to leave early) will call Christoph Hegg to get the latest information concerning the plans in Switzerland.
 - **Please inform Mathias Rotach and Christoph Hegg as soon as new interests in the continuation of the VP emerge (especially outside of Switzerland).**

Mathias thanked all participants for the meeting and hang up the telephone shortly after 12 o'clock.

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 rd 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 nd 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 nd 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 nd 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.