

# **RIVERTWIN**

## **Minutes of the 5 th Meeting of the Management Board**

### **April 10, 2006 at Tashkent (Uzbekistan)**

Participants:

Prof. Dr. Karl Stahr

Prof. Dr. Victor Dukhovny

Prof. Dr. Giselher Kaule

Prof. Dr. Jacques Ganoulis

Oskar Wallgren

Dr. Frank-Michael Lange (Protocol)

Dr. Hans-Georg Schwarz von Raumer

Dr. Thomas Gaiser (Protocol)

The meeting was opened with a cordial thanks to Prof. Dukhovny for the invitation of the Management Board to Tashkent and the organisation of the preceeding workshop. Ben Sonneveld and Mouinou Igue apologized for their absence. The minutes of the MB meeting on October 7, 2005 at Cotonou were confirmed without changes.

#### **1. Status of the Project activities in the three river basins**

Frank Michael Lange reported briefly that all submodels are operational in the Neckar basin. The MOSDEW website is established and continuously filled with the results of the scenario runs. The integration of some scenario runs in the Neckar basin had experienced a further delay, due to the fact WEAP results for one scenario had to be revised which caused a recalculation of several scenario runs by MONERIS and QUAL2K. Results of an additional intervention scenario by ACRE has been forwarded to SLISYS. Several dissemination activities are ongoing. The final stakeholder workshop in cooperation with the State Ministry of Environment is scheduled on July 18, 2006 at Hohenheim.

In the Oueme basin, data collection is completed. However, surface water quality monitoring and investigation of water demand continued as recommended. Model applications are being set up and are in the phase of calibration. A workshop on scenario development and subsequent training in WEAP is planned on May 10 to 15, 2006 at Cotonou. Mouinou Igue proposed that the final stakeholder workshop should be held on November 7 at Parakou.

The status of the RIVERTWIN activities in the Chirchik basin had been presented in the preceding two days by a series of presentations by all executors in Uzbekistan (programme is attached to this minutes). The collection of data has been completed, except for land use data for Kazakh and Kyrgyz part of the basin (satellite images had been acquired recently). The land reform in Uzbekistan which did not complete in 2005 will cause strong changes in land use within the next years. Manuals for model application should be revised. New project proposals on IWRM in cooperation with GWP CACENA are planned. Additional training in the application of CASIMIR (May 2006 at Tashkent), QUAL2K and MONERIS (end of September in Thessaloniki) are scheduled. The funding of the training will be arranged and agreed by AUTH and SIC-ICWC.

The activity report of the first reporting period had been translated into Russian and published by ICWC-SIC. Assistance in fund raising (NATO, EC-SSA, INTAS) for an international dissemination work is requested by Victor Dukhovny. Finally, the scenario approaches in the three river basins need some slight harmonization with respect to assumptions concerning the development of the cotton market. A memorandum was established to write up about approval of SIC ICWC approach for integration and a joint publication on the scenario approaches (Thomas Gaiser, Andreas Printz, Yusup Rysbekov and Valery Prihodky).

The status of the model integration in the Neckar and Oueme basin was presented by Hans-Georg Schwarz von Raumer.

## **2. Workpackage progress, deliverables and budget**

Workpackage progress has been covered by the preceding presentations. All twelve deliverables that were due within the second reporting period, were submitted to the Commission. Four deliverables that were due in the last month of the reporting period are delayed by maximum 3 months. The project has spent 91% of the prefinancing amount of the first two reporting periods. Some contractors have spent less than requested in these periods and will receive proportionally less as prefinancing for the last reporting period. In order to avoid that resources are lost, the Management Board decides, that **ALL CONTRACTORS WILL HAVE TO SUBMIT A PRELIMINARY FINANCIAL STATEMENT ON 1 OF DECEMBER 2006**. Based on the statements, the Management Board will decide on December 15, 2006 about the final budget distribution.

## **3. Midterm Review Meeting - Recommendations of the reviewers**

The recommendations made by the reviewers have been fulfilled in a very satisfactory way. The Management Board has been particularly impressed by the progress of the workpackages in the Chirchik basin. The training schedule in the Chirchik basin has been defined and approved as follows:

April 2006 – SLISYS training and implementation (responsible. T. Gaiser)

May 2006 – Casimir training (M. Schneider)

September 2006 – MODFLOW training (R. Barthel)

September 2006 - Training in application and adaptation of QUAL2K and MONERIS

## **4. Project time schedule (Conferences, Reporting etc.)**

4.1. Final public presentations in the basins:

July 18, 2006 at Stuttgart – Neckar basin (Organisation: Lange)

September 2006 at Tashkent – Chirchik basin (Organisation: Dukhovny and Rysbekov)

November 8, 2006 at Parakou – Oueme basin (Organisation: Adisso and Igue)

Final scientific conference: December 13-15 at Stuttgart-Hohenheim castle.

Preliminary title: Integrated River Basin Management in Contrasting Climate Zones

**Each contractor should give one presentation plus 1 poster with key results.**

Coordinator: Karl Stahr

Scientific committee: Oskar Wallgren, Victor Dukhovny, Jacques Ganoulis, Ben Sonneveld

Organising Committee: Thomas Gaiser, Roland Barthel/Jens Götzinger, Hans-Georg Schwarz von Raumer, Elisabeth Wittek, Heike Weippert

Invited speakers: Minister for Environment (Interface science –policy) invitation by Giselher Kaule, Integrated modeling (Farquharson or Peter Loveland (CEH), Diekkrüger (U Bonn) invitation by Karl Stahr).

## **5. Miscellaneous**

5.1. Final reporting: Deadline 15.2.2007

5.2. Final publication: The Management Board decided to envisage a book publication of the major project results. The editorial board is identical with the scientific board established for the final conference. Funding of the publications is not yet secured.

Frank-Michael Lange

Thomas Gaiser

Karl Stahr

Annex I

Annex II

**Programme of the integration workshop from April 7 to 10 at Tashkent**

**RIVERTWIN Project  
Workshop Agenda  
Tashkent, 7...10 April 2006**

<b>7 April – arrival to Tashkent, accommodation in the hotel “Turkestan”</b>	
<b>8 April, <u>workshop – discussion of progress achieved on the Chirchik river basin</u></b>	
<b>9.00...9.20</b>	Presentation of participants
<b>9.20...9.40</b>	Opening speech by Prof. Dukhovny V.A. and Prof. Karl Stahr
<b>9.40...10.00</b>	Progress report on WP6 6 (A.S. Sorokin). Connection with WEAP
<b>10.00...10.20</b>	DB interface and its development for linking of models and scenario computations (D.Sorokin).
<b>10.20...10.40</b>	HBV-IWS model testing and adaptation (V. Tyugai).
<b>10.40...11.00</b>	Agricultural water consumption module within the integrated model (G. Solodkiy).
<b>11.00...11.30</b>	Coffee-break
<b>11.30...11.50</b>	GAMS module for water distribution among water consumers and users within the integrated model (A. Sorokin).
<b>11.50...12.10</b>	QUAL2k and MONERIS model testing and adaptation (A. Tuchin).
<b>12.10...12.30</b>	Socio-economic model ACRE within the integrated model (A. Tuchin).
<b>12.30...12.50</b>	SLISYS-EPIC – G. Stulina
<b>12.50...13.30</b>	Approach for integration of models MOSDEW-Chirchik
<b>13.30...15.00</b>	Lunch
<b>15.00...15.20</b>	Rysbekov Yu.Kh. – Progress on WP7
<b>15.20...15.40</b>	Stulina G.V. – Regional climate change models
<b>15.40...16.00</b>	Ruziev I.B. – Environmental status and ways of ChAB sustainable development.
<b>16.00...16.20</b>	Nerozin S.A. – State of agricultural production in ChAB.
<b>16.20...16.40</b>	Coffee-break
<b>16.40...17.00</b>	Prikhodko V.G. – Socio-economic indicators in ChAB.
<b>17.00...18.00</b>	Discussion
<b>9 April – visit to Chirchik basin (Charvak, Pskem section, etc.), irrigation systems</b>	
<b>10 April – workshop (continued)</b>	
<b>9.00...9.20</b>	General approaches to scenario development in Central Asia – Dukhovny V.A.
<b>9.20...9.40</b>	Rysbekov Yu.Kh. – Principle approaches to scenario development for ChAB

<b>9.40...11.00</b>	Presentation of particular scenarios
<b>11.00...11.30</b>	Coffee-break
<b>11.30...12.40</b>	Participants divided into different groups: Gaiser, Stulina – SLISYS-EPIC Wallgren, Solodky, Sorokin – WEAP Ganoulis, Kiourtsidis, Zardava, Tuchin, Ruziev – Qual2k-Moneris
<b>12.40...13.30</b>	Conclusion
<b>13.30...15.00</b>	Lunch
<b>15.00...17.00</b>	Management Board meeting*
<b>19.00</b>	Dinner
<b>11 April – departure</b>	

\* In time of Management Board meeting A.Printz, Schwarz von Raumer, , Tuchin, Sorokin will discuss model integration. Wallgren participates in MB meeting

**Short note for the BM on 10/04/2006.**

The ECONWAT model will be designed to perform cost-benefit analysis in the evaluation of prospective development scenarios that aim to improve Human Well-Being by enhanced accessibility of water supply.

The appointment of a PhD candidate took longer than expected and after a delay of several months the Beninese counterpart arrived mid January, 2006 at SOW-VU. In first instance the training would be held for four months, followed by the start of the PhD course in Germany. However, the visa requirements for the four months period would give a further delay of several month and it was decided to shortened the stay at SOW-VU by one month.

The first part of the course concentrated on training of GIS skills with practical applications in the use of polygon, grid and point data for Benin. These techniques were used to compile a consolidated data set on household surveys, village data district statistics (under-nutrition rate) and biophysical data (length of growing period, annual rainfall) for econometric and cost-benefit analysis. The data analysis identified output (e.g. income, agricultural production), input (e.g. water accessibility, infrastructure) and control variables (e.g. agro-ecological conditions, distance to markets). Several neighbourhood function were tested to relate household data to other spatial data basis. A first attempt based on a neighbourhood function with physical distance as the main factor was analyzed in a SAS program.

In the coming months the planned activities are:

1. Finalize the consolidated data base to analyze the relation between water accessibility and human well-being;
2. In coordination with HBV model, a cost-benefice analysis will be used for economic valuation of water resources.

Concerning SOW-VU's input we assigned one and a half month to the training of the PhD candidate during his stay in Amsterdam (part of the other time spend with the PhD candidate is considered as joint research). The remaining two and a half month for the training SOW-VU proposes to assign as follows: a) a follow-up training of the PhD candidate in the course of his PhD program (during his stay in Germany) b) further supervision of the PhD candidate at distance and c) a short training in Benin in statistical and GIS techniques.

Furthermore, in the last activity report we updated the delivery date of 'Results of agroeconomic valuation model' and estimate that this will be December 2006, because it necessarily will be after the final version of the HBV model is completed. It would be good to make this explicit in any updated delivery schedule of the Rivertwin-project.