

Ref. No.: 3-15-15/2-3
Zagreb, November 06, 2015

30th PEG RBM Meeting
REPORT
Zagreb, Croatia – 05-06 November 2015

Agenda of the meeting

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Minutes of the meeting

AD. 1. Opening of the meeting

Ad.1.1. Welcome and opening remarks

Chairman of the PEG RBM, Mr. Zeljko opened the meeting and welcomed the participants. The PEG members from Serbia and Bosnia and Herzegovina participated at the meeting. Slovenia was represented by Mr Janko Zakrajšek from Institute for Water of the Republic of Slovenia. Croatian representatives could not attend the meeting.

The full list of participants is attached to this report as Annex I.

Ad.1.2 Adoption of the agenda

The PEG RBM adopted the agenda of the 30th meeting (Doc. Ref. No.: 3-15-15/2-2). The draft agenda distributed before the meeting was amended with the information on the DRINKADRIA project, presented by Mr. Miodrag Milovanović.

AD. 2. Overview of the ISRBC activities

Mr. Komatina, the Secretary, presented an overview of the activities and developments in the ISRBC between the two PEG meetings. He emphasized the following:

Main events held:

- Ministerial meeting on regional water cooperation (Brčko, 6 July 2015)
- 38th and 39th Sessions of the ISRBC (Brčko, 6-7 July 2015; Zagreb, 19-20 Oct. 2015)

The main motive for organizing the ministerial meeting was to review activities undertaken in the period after the May 2014 flood. The two documents were signed at the meeting: Protocol on Sediment Management to the FASRB and the bilateral agreement BA - HR on use of water from public water supply systems crossed by the national borders.

Mr. Komatina also informed the PEG on the current status of the ISRBC projects and on the status of other protocols.

Regarding public participation activities Mr. Komatina announced that the establishment of the Sava Water Council, which will act as an advisory body, is expected in December 2015 or, more likely, in January 2016. The costs of participation at the Council's meetings will be covered by the members. The founding meeting costs will be covered from the project financed by the US Government.

- Since the SRBA and SWMI documents will be by then in a mature phase, the PEG recommends inviting the observers to the ISRBC which deal with the RBM issues to participate at the meeting.

More details on these and other activities and events are provided in Mr. Komatina's presentation (*AD.2_Presentation_ISRBC_PEG RBM 30*), which is available at the ftp site of PEG RBM.

AD. 3. 2nd Sava River Basin Analysis

Mr. Samo Grošelj gave an introductory presentation of the new version of the 2nd SRBA report (*AD.3_Sava_River_Basin_Analysis_Report_draft 3.2_track*), and distributed a table with an overview of had been done regarding comments and remarks (*AD.3._ Table of comments and remarks on SRBA_Report*) from the previous PEG RBM meeting.

Conclusions and actions agreed:

- General remarks:
 - Chapters 2.1.5, 2.1.6 and 2.1.7 should be jointed to avoid repetition;
 - All data in tables which has not changed from the 1st SRBA (magenta top rows) should be reviewed by the countries (e.g. data on typology).

- Specific technical remarks:
 - In footnote (1) the hour of signature between ISRBC and ME should be deleted!
 - Figure 1: Sava River Basin relief characteristic should be presented as map!
 - Table 3: Distribution of main land cover classes in SRB- The data for Corinne 2012 should be used and the analysis provided.
 - Hydrological characteristic: Serbia will provide comments on average Sava discharge at the confluence with Danube taking into account latest studies.
 - To add legend to Figure 2, 3 and 4 on spectrum of discharges along the Sava River;
 - Chapter 2.2.1- delete additional explanation regarding longitudinal profile because text is different as it is shown in figure 5.
 - Chapter 2.2.2- to delete repetition of torrential behaviour of right tributaries in the text below table.
 - Chapter 2.3.1.1 Ecoregions- provide short description on Eco-region 6 which covers ME.
 - Table 7- factors applied in the typology of the Sava- HR, RS and SI should check the data in table. Data for BA has not been changed!
 - Table 9- BA will provide data for rivers which are missing (e.g. Pliva, Lašva, Krivaja, Spreča, Piva, Tara, Čehotina, Prača, Drinjača). Table 10 should be modified after data for additional data will be received;
 - Table 17, Reservoirs in the SRB- RS provided new data for reservoir Rovni;
 - Chapter 3 Identification of significant pressures: RS and Si will provide new data for pressures. Data for BA remains the same as in Sava RBM Plan, while HR – no information.
 - Chapter 3.1.2.2 Assessment of impacts from diffuse pollution sources- ICPDR should be contacted to revise MONERIS for the Sava River Basin.
 - Chapter 3.1.4.1 and table 27- Data for longitudinal continuity and habitat interruption should be taken from the Sava RBM Plan! Only for SI new HPPs on the Sava River should be added.
 - Chapter 3.1.4.3 Hydrological alteration- Text for BA and ME is missing. Data on hydropeaking should be checked!
 - Chapter 3.1.4.4- New text on Morphological alteration criteria according to the Danube RBM Plan should be provided with explanation why new criteria are applied. Tables and figures should be changed!
 - Chapter 3.1.5 FIP- text and table for RS does not comply. It should be mentioned that rehabilitation of the Sava River Waterway is a joint project of BA, RS and HR.;
 - Chapter 3.1.6- It should be mentioned that according to ICPDR criteria there is no accidental risk spots in RS;
 - Chapter 4.2 Identification of HMWBs- to revise data on HMWBs on Sava tributaries for BA! Only BA has provisional HMWBs;
 - Chapter 6 Water Quality monitoring- to add data on monitoring stations from Sava RBM Plan. BA will provide additional data!
 - Chapter 7 Protected areas- the countries (GIS experts) will check data on PAs!
 - Chapter 9 Economic activities- the countries will provide new data for GDP and population for country and SRB.
 - Integration issues- the Secretariat shall provide new text for integration issues. It is not necessary to describe measures!

- Next steps
 - Noting that the new analysis was made for the Danube Basin, the Secretariat will ask ICPDR to recalculate the nutrient emissions for the Sava River Basin;
 - The PEG RBM members will check and send missing or new information to the Secretariat in accordance to the general and specific technical remarks above, by mid-December (tentatively);

- The Secretariat will prepare the upgraded version of the 2nd SRBA report after receiving new data from the countries and send it for review to the PEG RBM before next meeting.

AD.4. SWMI for the Sava River Basin

Mr. Samo Grošelj gave an introductory remarks regarding the new version of SWMI paper (ver. 2). Mr. Zeljko noted that a certain modifications have been made in the paper after its distribution to the PEG.

This modified version (AD.4_SWMIs draft 2.1) was presented and discussed at the meeting.

The PEG RBM discussed on the report with conclusions and actions agreed, as follows:

➤ **General and specific remarks and recommendations:**

The following remarks remain open from the 29th PEG RBM meeting:

- The PEG members should deliver information required for defining the Chapter 4-Significant Water Management Issues;
- RS will deliver data and information about N-tot and P-tot recorded on the stations in RS in order to control any possible improvements in relation to the information that is presented in draft document;
- HR should deliver data for habitats;
- HR will check its deadlines which apply regarding implementation of EU directives, and related parts of the text;

➤ **Conclusions:**

- In Chapter 4 of the SWMI paper it is necessary for each SWMI (and other important issues) elaborate in more details what are the measures identified (both for EU and non-EU countries) in the 1st SRBMP and provide a brief overview of the implementing status of these measures
- In addition, the paper should be amended by a brief information which further measures are foreseen for the 2nd SRBMP
- The countries will provide the above information *by December 10 2015 at latest*
- The Secretariat will then update the SWMI paper *by the end of 2015*
- It is expected that the paper agreed by the PEG will be submitted to the ISRBC on time to be on the agenda of its February session in order to obtain the formal approval for web-based public consultation

AD.5. Sava GIS

D. Zeljko gave an introductory presentation with an overview of the Sava GIS implementing status, as well as on the chronology of the Sava GIS development. He noted that the Sava GIS project is at its closing phase and thanked to everyone who contributed to this demanding project. He especially acknowledged the contribution of the EC – DG ENV, ICPDR, national institutions of the Parties, the members of the expert groups, especially GIS EG, consultants and all other contributors.

He also noted that the urgent issue needed to be solved for a successful operational functioning of the SavaGIS will be engagement of a full-time expert in the Secretariat and informed the PEG that this issue was discussed at the last ISRBC session.

Ms Jarmila Pezo, the project leader on behalf of the IN2&IGEA Consortium, provided an update on the Sava GIS main outcomes and functionalities and thereafter presented the Sava GIS demo, showing its main functionalities. She also noted that the remaining issue before final taking over the system to the ISRBC are the trainings for the public and registered users and for the administrators (ISRBC Secretariat).

AD. 6. Sava HIS

Mr. Mirza Sarač presented the project scope and objectives and an overview of the SavaHIS functionalities. He stressed that the legal background for implementation of the SavaHIS are FASRB,

Protocol on flood protection to the FASRB, WMO Resolutions and Policy on the exchange of hydrological and meteorological data and information in the SRB.

SavaHIS is part of the SavaGIS and he noted that collecting and storing of the time-series was part of the 3rd implementation phase of the Sava GIS and now the process is accelerated due to the need of the Data Policy implementation. Concept of the SavaHIS is similar as the concept of CUAHSI (<https://www.cuahsi.org/>), which implies Water ML format implementation in accordance with standards of the World Hydrological Observing System and WMO Information System.

Mr. Sarač also presented how selection of hydro and meteo gauging stations, proposed for SavaHIS, has been made.

The project is supported by the ICPDR, the Finish Meteorological Institute as well as the ISRBC, and has been implemented by the Consortium consisting of IN2&IGEA Consortium, with project duration from July until October 2015.

After introductory presentation Ms. Jarmila Pezo (IN2&IGEA Consortium) presented in details the SavaHIS as well as current project status. She presented results of the assessment phase, which has been made on the basis of technical meetings conducted in July, 2015, and afterwards presented the Sava HIS demo.

AD.7. ISRBC relevant projects

Ad.7.1. Introduction

The Secretariat provided general information on the ISRBC projects and a detailed information on the following:

UNECE Sava Nexus

Mr. Dejan Komatina informed the participants that the final results of the UNECE Sava Nexus assessment will be presented at UNECE Meeting of the Parties (Budapest, November 2015). In addition the assessment results are planned to be discussed at national events to be organized in B&H and in Serbia because lack of consultation with national institutions during the UNECE Sava Nexus assessment was noted at the Nexus workshop (May 2015) and at the 29th PEG RBM meeting (June 2015).

Sava Sediment

This project is being developed in the frame the project “Towards Practical Guidance for Sustainable Sediment Management using Sava River as a Showcase” resulting in organizing the training course and Part I of the Guidance on Sustainable Sediment Management in the Sava River Basin (in October 2012) and implementing the project Estimation of the Sediment Balance of the Sava River (in 2013). The project is supported by the UNESCO Venice Office. The project activities have been performed by the ISRBC and the core Expert Group for sediment management already established for the BALSES. The draft report of the project covering establishment of strategic goals and specific objectives of the sediment monitoring and data exchange system, revision of existing sediment monitoring data, revision of technical international standards and technics of monitoring and assessment of their application in the Sava River Basin and establishment of on-line free database on sediment taking into account the initial functionalities of Sava Geportal implemented by ISRBC is under finalization.

In addition the workshop on sediment monitoring on the Sava River was held on September 3- 4, 2015 at the premises of the ISRBC, Kneza Branimira 29, Zagreb. The participants of the workshop were the representatives of the ministries and water agencies relevant for water management, hydrometeorological services, research institutions from the Sava River basin and University of Vienna (BOKU) and manufacturers of monitoring equipment and software (Ejkelkamp-MEGRA in AquaVision). At the workshop the sediment monitoring technics and equipment has been demonstrated at the field.

STAWA

Mr. Samo Grošelj presented the status on the project “Towards the assessment of ecological status of water bodies in the Sava River Basin – STAWA”, which is 1-year project (2016-2016) started in April 2015. The lead partner is Institute Siniša Stanković (contact person: Momir Paunović).

Until now data sources have been identified and datasets on water quality data, hydrological data (both for period 2005-2013), biological data from research projects (period 2010-2015) and GIS datasets have been collected and evaluated. The existing sampling protocols and protocols for collecting data have been reviewed.

Two project meetings have been held (May 18- kick-off meeting and July 9, 2015). The 3rd meeting will be held at the end of November 2015.

In February 2016 the workshop will be organized in Ljubljana (SI) on issues relevant for the project, in particular biological quality elements in ecological status assessment.

AD.7.2. Danube Nexus – Case study Sava

Mr. Ad de Roo, EU JRC, provided an overview of the Danube Nexus and presented the Sava case study in details. He mentioned that the draft report had been produced and the final report on modelling water demand and availability scenarios for current and future land use and climate in the Sava river Basin would be available in the 1st week of December 2015 taking into account the feedback of the PEG RBM meeting.

He presented the development of models and scenarios like LUISA land use scenario (only for SI and HR – BA, RS and ME will be available in 2016), Maize scenario with increased irrigation and LISFLOOD outputs (projected changes in water demand, low-flow, e-flow breaches, Q50 for HHP and TP, Q under natural or no water use & hydropower, root water stress, groundwater resources, water exploitation index, water shortages under different scenarios). He also provided draft conclusions of the modelling.

At the end he mentioned that after approval of the final report, the update of the Sava scenarios and full Danube scenario will be provided in June 2016.

Taking into account the time limits of the JRC, the PEG RBM was asked to provide comments until November 20, 2015.

More information and details can be found in his presentation (*AD.7.2_JRC_Sava Water Nexus Case Study.pptx*).

AD.8. Other issues

Mr. Milovanović presented the DRINKADRIA project, whose core focus is cross border/ regional water supply and shared transboundary water resources management, necessary for the drinking water supply. A set of standardized protocols on the applicable management of water supply systems and water resources (usually groundwater in the Adriatic area) is being developed through the project activities. The 17 project partners are from Southeastern Europe (IT, SI, HR, BA, RS, ME and GR). DRINKADRIA is financed through AdriaticIPA.

More information and details can be found in his presentation (*AD.8_DRINK ADRIA.ppt*).

The next meeting of the PEG RBM is planned for the second half of January.

Annex I: LIST of PARTICIPANTS

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Annex II: List of meeting documents (D) and presentations (P)

Agenda item No:	Title	Language	Type
1	AD.1.2_PEG RBM30_Agenda	eng	D
2	AD.2_Presentation_ISRBC_PEG RBM 30	eng	P
3	AD.3.1_Table of comments and remarks on SRBA_Report	eng	D
	AD.3.2_Sava_River_Basin_Analysis_Report_draft 3.2_track	eng	D
	AD.3.2_Sava_River_Basin_Analysis_Report_draft 3.2_clean	eng	D
	AD.3_Protected areas	eng	D
	AD.3.4_Integration issues	eng	D
4	AD.4_SWMIs draft 2.1	eng	D
5	AD.5_Sava GIS Project_Information	eng	D
	AD.5.1_SavaGIS_Overview	eng	P
	AD.5.2_SavaGIS results	eng	P
	AD.6_Sava HIS Project_Information	eng	D
	AD.6.1_SavaHIS_Overview	eng	P
	AD.6.2_SavaHIS results	eng	P
7	AD.7.2_JRC_Sava Water Nexus Case Study	eng	P
	AD.7.2_JRC_Sava_Nexus_Science Policy Report	eng	D
8	AD.8_DRINK ADRIA	eng	P