



INTERNATIONAL SAVA RIVER BASIN COMMISSION

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Zagreb, October 21, 2009

**12th Sava PEG FP Meeting
REPORT¹
Zagreb, Croatia – October 20-21, 2009**

¹ Final version – reviewed and accepted by the PEG FP

Agenda of the Meeting

1. Opening of the meeting

- Welcome address
- Adoption of the Agenda

2. Report on the ISRBC activities and developments

3. Flood hazard and risk maps

- Joint Flood mapping study
 - Information on the latest developments in the project preparation
 - USACE- Terms of Reference and Scope of Services
 - Data collection
 - Available and needed data – hydrologic, topographic etc.
 - Discussion on the collection methods and timeframe

4. Protocol on Sediment management

- Presentation of the status after PEG RBM14
- Discussion on open issues and recommendations

5. Other flood related activities

- Cooperation with the ICPDR in preparation of the Sava FAP
 - Presentation of the compiled FAP
 - Discussion and recommendations

List of Annexes:

Annex I.: List of participants

Annex II.: List of meeting documents and presentations

Minutes of the meeting

AD.1 Opening of the meeting

➤ *Welcome address*

Mr. Zeljko opened the meeting and welcomed the participants. He noted that all Parties are represented at the meeting.

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

➤ *b. Adoption of the Agenda*

🇺🇳 The Group has adopted the proposed Agenda of the 12^h PEG FP meeting.

AD.2 Report on the ISRBC Activities and Developments

a. Brief information on the activities between the 11th and 12^h PEG FP meeting by the Chairman

Mr. Zeljko briefed the Group on the latest developments and ISRBC activities

- the **13th Special Session of the ISRBC** held on 22th and 23th of September in Zagreb where:
 - the SRB Analysis Report has been accepted, so it will be distributed to the national institutions responsible for the FASRB implementation in paper form and uploaded on the ISRBC homepage, respectively;
 - The Sava Commission took note on the report from 11th PEG FP meeting and the summary report on the activities of the PEG FP performed in the period between the two SC meetings;
 - The work of the Ad hoc Expert Group for Hydrological Issues related to Navigation (Ah HIN EG) has terminated. Ad hoc Expert Group for Hydrological and Meteorological Issues (Ah HM EG) is going to implement the remaining tasks;
 - Tentative schedule of the meeting for final harmonization of the the Protocol on Flood Protection is December 2009;
 - Observer status at the ISRBC has been granted to the World Wide Fund for Nature for the period of two years.

Mr. Zeljko also gave information on the important ongoing and planned projects as well as on the planned promotional activities of the Sava Commission.

🇺🇳 The Group took note on the information.

AD3. Flood hazard and risk maps

➤ Joint Flood mapping study

○ *Information on the latest developments in the project preparation*

Mr. Zeljko gave a presentation on the latest developments in the preparation of the Flood mapping study for the Sava River and his latest contacts with USACE, through the five telephone conferences and the visit of Mr. Steven Grant to the ISRBC in Zagreb, in September 2009.

He emphasized following:

- The ToR and Scope of Services has been prepared by the USACE;
- Approximate HEC RAS model of the Sava River has already been developed by the USACE, based on the 30-m DEM and initial hydrology data sets;
- The USACE is willing to improve the model to the most possible extent. It depends mostly on collection and preparation of better input data (ground surface data, hydrology etc...) from the Sava country institutions;
- USACE submitted IFSAR higher resolution DEM for certain parts of B&H;
- The Secretariat requested the 30 m DEM for the Sava RB from the USACE. Because of the fact that it is still unclassified the request will be considered by the USACE.

o *USACE- Terms of Reference and Scope of Services*

The main goal of this project is to provide a hydraulic model of the Sava River that will ultimately support all future cooperative efforts of the Sava countries in flood management.

The outputs from the USACE will include following:

- *Georeferenced HEC-RAS Model of the Sava River*
- *Guidance (recommendations) on Flood Hazard and Risk Mapping*
- *Hydraulic Structure Surveying and Inventorying geospatial data model*
- *Product Transfer and Technical Training for flood mapping in Zagreb*

ToR and the scope of services for the Flood mapping study have been discussed.

Conclusions:

- ✚ The PEG FP welcomes the assistance of the USACE in flood modeling exercise;
- ✚ The ToR and the Scope of Services are generally acceptable;
- ✚ Hydraulic model of the Sava River should cover all the countries (SI,HR,BA and RS);
 - o Data collection
 - Available and needed data – hydrologic, topographic etc.

Mr. Zeljko presented the status of currently available data for modeling. He stressed that the initial approximate model is very rough and that there is need to collect all available finer input data from all sources in order to improve the model. The PEG FP discussed on availability of ground surface data, hydraulic models etc... existing in national institutions.

- Discussion on the collection methods and timeframe

After discussion the PEG FP agreed to:

Hydrologic inputs:

- ✚ The Secretariat shall update the table "Hidrološki podaci za hidraulički model_USACE" and distribute it to the members of the PEG FP;
- ✚ The PEG FP members shall fill in the table for hydrologic stations in their countries with available figures and return it to the Secretariat;

- ✚ Additionally, the PEG FP shall submit available rating curves (Q-H) for above mentioned stations;
- ✚ The Secretariat shall, after receiving requested inputs, compile common table for the Sava River to serve as an official hydrologic input for flood modeling for different scenarios;

Other input data (DTM, XS, levee alignments and heights, digital ortophoto) and available hydraulic models

- ✚ Based on the information on usable data (see AD.3 Basic information on existing data) the Secretariat shall prepare a letter with request for available data and submit it to the institutions in the Parties who own the specific data. The letter should be supplemented by the list of requested data with all necessary information (requested forms of the data etc...)

AD.4. Draft Protocol on Sediment Management

- Presentation of the status after PEG RBM14

Mr. Samo Grošelj presented the status of the draft Protocol on Sediment Management after the latest revision by the SC EGs and presented the issues that are still under discussion.

- Discussion on open issues and recommendations

- ✚ The Group proposes that Sediment management task group reconsider changing the term "adoption" of the first Sediment management plan as given in paragraph 4 of the Article 5 with the term "preparation";
- ✚ The PEG FP recommends to the task group to analyse certain solutions proposed in the Protocol on Flood protection for the activities of similar nature, in order to investigate their applicability in the Protocol on Sediment management;
- ✚ The interested PEG FP members are invited to attend the next Sediment TG meeting, which will be held in November 2009, tentatively.

5. Other flood related activities

- Cooperation with the ICPDR in preparation of the Sava FAP

The new version of the Sub-basin Level Flood Action Plan for the Sava River Basin, as initiated by the ICPDR and compiled from the national Flood Action Plans by ISRBC, has been presented.

- Discussion and recommendations

The document has been discussed by the Group. Representatives of the ICPDR also took part in the meeting.

The following has been agreed:

- ✚ To introduce an additional item in the document with the title: Flood Defense on the Transboundary Tributaries of the Sava River;

- ✚ Bosnia and Herzegovina shall fill in the Chapter 3. Target settings and Chapter 4. Measures to achieve targets in the common Sava FAP as soon as possible and submit it to the ISRBC Secretariat;
- ✚ The final document will be sent to the ICPDR by the 5th November 2009.

The Next PEG FP meeting is scheduled for February 9 -10, 2010, in Zagreb.

Annex I. PEG FP12 - List of participants:

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Annex II. PEG FP12 - List of documents and presentations:

A. Documents:

Agenda item	Title (Ref. Nr.)	ENG	HR V	SL O	BIH - BOS	BIH - HR V	BIH - SRP	SRP
AD.1	PEG FP12_invitation_25-09-2009 (3-09-16/1-2-PEG.3)	↓						
AD.1	AD.1.PEG FP12_adopted Agenda_25_09_09 (3-09-16/2-2-PEG.3)	↓						
AD.3.	AD.3 20090921_telcon	↓						
AD.3	AD.3 Basic information on existing data	↓						
AD.3	AD.3 Hidroloski podaci za hidraulički model_USACE		↓					
AD.3	AD.3 SavaRiverScopeandNeeds20090918	↓						
AD.3	AD.3 TOR_20090916	↓						
AD.4	AD.4.Sediment management_draft17	↓						
AD.5	AD.5 FAP Sava_20091015	↓						

B. Presentations:

Agenda item	Title (Ref. Nr.)	ENG	HR V	SL O	BIH - BOS	BIH - HR V	BIH - SRP	SRP
AD.2	AD.2 Presentation_ISRBC_PEG FP12da	↓						
AD.2	AD.3 Presentation_USACE_Joint flood mapping study	↓						
AD.5	AD.5 Draft Protocol on Sediment Management to the Framework	↓						