1. ACTIVITIES UNDERTAKEN IN THE PERIOD JUNE 2014 – MAY 2016

1.1 Meetings of the IHP National Committee

The Slovak Committee for Hydrology represents the Slovak NC IHP UNESCO. It was established in 1993 with the support of the Slovak Commission for UNESCO. The committee consists of the Executive Committee and the Plenum. The current business is handled by the secretariat associated with the Institute of Hydrology of the Slovak Academy of Sciences in Bratislava. The Plenum meets once a year, usually in the first half of the year. The Executive Committee meets at need.

1.1.1 Decisions regarding the composition of the IHP National Committee

There were no changes in the composition of the IHP National Committee during the period. The Plenum consists of 19 members, and 6 of them form the Executive Committee. All the main research institutes, universities and ministries related to hydrology in Slovakia are represented in the committee. The present membership of the IHP NC of Slovakia is as follows:

Executive Committee:

Chairman:
MIKLÁNEK Pavol, Institute of Hydrology, Slovak Academy of Sciences, Bratislava

Vice-chairman
SZOLGAY Ján, Slovak University of Technology, Bratislava

Scientific secretary
HALMOVÁ Dana, Institute of Hydrology, Slovak Academy of Sciences, Bratislava

Members
FENDEKOVÁ Miriam, Comenius University, Bratislava
HOLUBOVÁ Katarína, Water Research Institute, Bratislava
POÓROVÁ Jana, Slovak Hydrometeorological Institute, Bratislava

Plenum:

BAČÍK Martin, Hydromelioracie, s.e., Bratislava
ELIŠ Pavol, Slovak Agricultural University, Nitra
HLAVČOVÁ Kamila, Slovak University of Technology, Bratislava
HOLKO Ladislav, Institute of Hydrology, Slovak Academy of Sciences, Bratislava
LAPIN Milan, Comenius University, Bratislava
LEŠKOVÁ Danica, Slovak Hydrometeorological Institute, Bratislava
LICHNER Lubomír, Institute of Hydrology, Slovak Academy of Sciences, Bratislava
MAJERČÁKOVÁ Olga, Slovak Hydrometeorological Institute, Bratislava
NOVÁK Viliam, Institute of Hydrology, Slovak Academy of Sciences, Bratislava
PASTIRČÁK Vladimír, Slovak Hydrometeorological Institute, Bratislava
PEKÁROVÁ Pavla, Institute of Hydrology, Slovak Academy of Sciences, Bratislava
RONCÁK Peter, private consultant, Bratislava
ŠOLTÉSZ Andrej, Slovak University of Technology, Bratislava
1.1.2 Status of IHP-VIII activities

The activities of the Slovak institutions were concentrated on the following IHP-VIII Focal Areas:

1.2 - Understanding coupled human and natural processes
1.3 - Benefiting from global and local Earth observation systems
1.5 - Improve scientific basis for hydrology and water sciences for preparation and response to extreme hydrological events
6.1 - Enhancing tertiary water education and professional capabilities in the water sector

IHP Associated programme: Flow Regimes from International Experimental and Network Data (FRIEND)

EURO FRIEND 2 Low flows and droughts

The Slovak representative Dr. Holko is member of the Steering Committee of Euromediterranean Network of Experimental and Reference Basins (ERB) related to Focal Area 1.3 Benefiting from global and local Earth observation systems.

The Slovak representative Dr. Fendeková was member of EUROFRIEND Working group 2 Low flows and droughts (CCCP FRIEND).

The Slovak representative Dr. Pekárová is the international coordinator of the Flood Regimes of the Rivers in the Danube Basin project of the Regional co-operation of the Danube countries in framework of IHP UNESCO (Focal Area 1.5 Improve scientific basis for hydrology and water sciences for preparation and response to extreme hydrological events).

The Slovak NC participated in organisation of the following international conferences:


ERB conference 2016, Hydrological behaviour in small basins under changing conditions, Bucharest, Romania, September 5 – 8, 2016.

1.2 Activities at national level in the framework of the IHP

1.2.1 National/local scientific and technical meetings

The 26th Conference of Young Slovak and Czech Hydrologists was organised on 6. November 2014 in Bratislava and the conference proceedings were published. Following three papers were awarded:

- Katarína Jeneiová, Slovak University of Technology, Bratislava – Changes in occurrence of the maximum annual discharges across the territory of Slovakia
- Pavel Ježík, Technical University, Brno – Map application for identification of small basins highly threatened by flash floods
- Dagmar Stojkovová, Institute of Hydrology SAS, Bratislava – Identification of hydrological drought in groundwater regime in the Laborec basin
The 27th Conference of Young Slovak and Czech Hydrologists was organised on 5. November 2015 in Bratislava and the conference proceedings were published. Following three papers were awarded:

- Belan, Martin, Slovak Hydrometeorological Institute, Bratislava - Semi-distributed rainfall-runoff modelling of changes in snow cover in Slovak basins
- Krajčí, Pavel, Danko, Michal, Institute of Hydrology SAS, Bratislava – Experimental measurement and modelling of snowmelt runoff in mountainous microbasin
- Sleziak, Patrik, Slovak University of Technology, Bratislava – Analysis of conceptual hydrological model performance in calibration into different time scales

1.2.2 Participation in IHP Steering Committees/Working Groups

ERB Steering Committee meeting, 9. – 13. 9. 2014 at Coimbra Portugal, Dr.Holko

27th Meeting of the NC IHP representatives of the Danube countries, 22.-24. 9. 2014 at Deggendorf, Germany, Dr. Miklánek, Dr. Pekárová

3rd Workshop of the Theme 9 Flood regime of the rivers in Danube basin of the Danube countries collaboration, 22. 9. 2014 at Deggendorf, Germany, Dr. Miklánek, Dr. Pekárová

EURO FRIEND 2 Low flows and droughts Working group meeting, Montpellier, France, 10. October 2014, Dr. Fendeková

Meeting of the NC IHP Representatives of the Electoral Group UNESCO II – Central and Eastern Europe, Moscow, Russia, 16. September 2015, Dr. Miklánek

Large World Rivers Initiative Working Group, Vienna, Austria, 25.and 26. June 2015, Dr. Miklánek

ERB Steering Committee meeting, 9. – 10. 9. 2015, Wageningen, The Netherlands, Dr.Holko

Meeting of the NC IHP Representatives of the Electoral Group UNESCO II – Central and Eastern Europe, 16. – 18. March 2016, Skocjan, Slovenia, Dr. Miklánek

1.2.3 Research/applied projects supported or sponsored

The Slovak IHP NC has no possibility to support or sponsor any research/applied projects, but it is supporting co-operation and participation in IHP UNESCO projects.

1.2.4 Collaboration with other national and international organizations and/or programmes

The Slovak Committee for Hydrology is a joint IHP/IAHS national committee, in fact. The national representative of IAHS prof. Szolgay is the vice-chairman of the committee and the IAHS national correspondents are members of the committee. The WMO OHP is also represented in the committee. Most of the activities within these three programmes are organised jointly.

1.2.5 Other initiatives

Except the IHP projects, the IHP National Committee is traditionally organizing three national activities. The NC has its own library of UNESCO and other international
publications that is used by the hydrological community; it is organizing the Conferences of Young Hydrologists and publishing series of SVH Publications (Publications of the Slovak Committee for Hydrology).

1.3 Educational and training courses

1.3.1 Contribution to IHP courses
There was no contribution to IHP courses during the period of interest.

1.3.2 Organization of specific courses
The NC did not organize any training seminar during the period of interest.

1.3.3 Participation in IHP courses
There was no participant from Slovakia in IHP courses in 2010-2012.

1.4 Cooperation with the UNESCO-IHE Institute for Water Education and/or international/regional water centres under the auspices of UNESCO

There is no specific cooperation between Slovak NC and UNESCO/IHE.

1.5 Publications

The Slovak NC is supporting publications in three main groups:
These are monographs summarizing results of the IHP projects. The series started in 1997 and twelve volumes were published till now. One of them was published within the period of this report.
– UNESCO and IHP publications, mainly proceedings of international conferences.
Unfortunately, none of them was published within the period of this report.
– Proceedings of the conferences organised in Slovakia related to IHP:
1.6 Participation in international scientific meetings

1.6.1 Meetings hosted by the country

26th Conference of the Young Hydrologists, SHMI, Bratislava, Slovakia, 2014.
27th Conference of the Young Hydrologists, SHMI, Bratislava, Slovakia, 2015.

1.6.2 Participation in meetings abroad

EUROFRIEND WG 2 meeting, Montpellier, 2014: Fendeková. M.
ERB (European Network of Experimental and Representative Basins) Steering Committee meeting, Coimbra, 2014: Holko, L.
ERB (European Network of Experimental and Representative Basins) Steering Committee meeting, Wageningen, 2015: Holko, L.
27th Meeting of the NC IHP representatives of the Danube countries, Deggendorf, Dr. Miklánek, Dr. Pekárová
3rd Workshop of the Theme 9 Flood regime of the rivers in Danube basin of the Danube countries collaboration, Deggendorf, Dr. Miklánek, Dr. Pekárová
Meeting of the NC IHP Representatives of the Electoral Group UNESCO II – Central and Eastern Europe, Moscow, Russia, Dr. Miklánek
Large World Rivers Initiative Working Group, Vienna, Dr. Miklánek
26th Hydrological conference of the Danubian countries, Deggendorf, 2014: 16 papers and 20 participants.
Meeting of the NC IHP Representatives of the Electoral Group UNESCO II – Central and Eastern Europe, Skocjan, Slovenia, Dr. Miklánek

1.7 Other activities at regional level

1.7.1 Institutional relations/cooperation

The Slovak IHP NC does not have institutional relations/cooperation at a regional level except the IHP UNESCO projects.

1.7.2 Completed and ongoing scientific projects

The Slovak IHP NC did not organise or participate in any projects out of IHP UNESCO.
2. **FUTURE ACTIVITIES**

2.1 **Activities planned until December 2016**

The NC will continue in all the main ongoing activities mentioned in the report. Activities within the IHP projects and participation at the meetings depend on their working plans, but most of the activities will be oriented on following projects of IHP-VIII:

1.2 - Understanding coupled human and natural processes
1.3 - Benefiting from global and local Earth observation systems
1.5 - Improve scientific basis for hydrology and water sciences for preparation and response to extreme hydrological events
6.1 - Enhancing tertiary water education and professional capabilities in the water sector

IHP Associated programme: Flow Regimes from International Experimental and Network Data (FRIEND)

EURO FRIEND 2 Low flows and droughts

Specific activities:
- coordination of the IHP UNESCO Project Flood regime of the rivers in the Danube basin;
- participation at EUROFRIEND2 meeting;
- ERB Steering Committee meeting, Bucharest, Romania;
- co-organization of the 16. Biannual ERB2016 conference at Bucharest;
- 28. Conference of the Young Hydrologists in Bratislava
- Diploma Award of the NC for excellent diploma thesis in hydrology at Slovak University of Technology
- organization of the XXIV. Poster Day on Transport of water, chemicals and energy in the system soil-plant-atmosphere
- participation at the "Water resources and wetlands" conference at Tulcea, Romania
- co-organization of the Danube Day at Bratislave

2.2 **Activities foreseen for 2017-2018**

The continuation in all the main ongoing activities in framework of IHP-VIII is foreseen (see para 2.1.):

- Continuation in Regional co-operation of the Danube countries in hydrology.
- Participation at the regular bi-annual hydrological Conferences of the Danube countries.
- Continuation in organisation of the Poster days Transport of water, chemicals and energy in the system soil-plant-atmosphere.
- Publication of SVH Publications
- Participation in European Reference Basins project.

CCPC FRIEND (Flow Regimes from International Experimental and Network Data)
- Participation in EURO FRIEND working group 2
- Collaboration and co-ordination of activities with other international programs and projects as European Network of Experimental and Reference Basins (ERB), and others.
- Maintenance and promotion of research in experimental and representative basins.
2.3 Activities envisaged in the long term

Continuation in active participation in the IHP UNESCO. No specific activities planned at the moment.

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