



NATIONAL REPORT ON IHP RELATED ACTIVITIES IN REPUBLIC OF KOREA

1. ACTIVITIES UNDERTAKEN

1.1 Meetings of the IHP National Committee

1.1.1 Composition of the IHP National Committee

- In May 2018, the IHP Korean National Committee (KNC) has been reshuffled.
- While keeping the existing membership of water-related ministries (the Ministry of Environment) and institutions (KWRA, K-water, KICT, NDMI), the KNC has decided to invite more diverse stakeholders within and outside of the government together with the new appointment of the Co-Chair (Mr. Ha-Joon Park and Dr. Sung Kim) and the Vice Chair (Professor Joo-Heon Lee).
- New institutional members are the Ministry of Foreign Affairs, the Korea Forestry Service, the Korea Institute of Hydrological Survey, the UNESCO i-WSSM and the Korea Water Forum.

1.1.2 Status of IHP-VIII activities

- The KNC embarked on the core programme's Themes and Focal Areas from the onset of the VIII phase of IHP (2014-2021). The detailed themes and focal areas are as follows:
 - (1) Water related disasters and hydrological change
 - (2) Significance of groundwater in a changing environment
 - (3) Addressing water scarcity and quality
 - (4) Water and human settlements in the future
 - (5) Harmony between sustainable ecological hydrology and engineering
 - (6) Education for water security

1.2 Activities at national level in the framework of the IHP

1.2.1 Participation in IHP Inter-Governmental Council Meeting, Regional Steering Committees/Working Groups

- The IHP Korean National Committee actively participated in the 23rd IHP Inter-Governmental Council during 11-15 June 2018 in Paris, France.
- The delegation of the Republic of Korea has taken an active part in the IHP Regional Steering Committee, Workshops and Working Group meetings held from June 2016 to May 2018.

1.2.2 National/local scientific and technical meetings

- KIWW 2018 (Korea International Water Week) has been hosted in Daegu city, Korea during September 12-15, 2018 together with Korea Water Forum, Ministry of Environment, Kwater.
- Korea Water Resources Association (KWRA) held its annual conference in May 2018 in cooperation with partner association from Japan, China, Vietnam and New Zealand.
- At the conferences, the IHP KNC organized special sessions in which the research teams involved in the experimental river basins presented and disseminated research outcomes.

1.2.3 Research/applied projects supported or sponsored

- Six IHP research projects have been supported by the Korean government (Ministry of Environment) in the period of 2015-2017 in accordance with the IHP Themes and experimental basin operation.
- In 2018, The Korea Water Resources Association (KWRA) will carry out 5 research projects (2018-2021) on the IHP Phase 8 research topic.
 - (1) Sustainable storm-hazard management for climate change adaptation
 - (2) Sustainable planning strategy and restoration of water cycle in urban catchments
 - (3) Countermeasures against water-related problems due to urbanization and land development in Cambodia
 - (4) Development of water scarcity solution and improvement of water resource availability in the future
 - (5) Characteristic analysis of representative experimental catchment and establishment of operational strategy

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

- The Ministry of Environment (MOE)-UNESCO have decided to conduct joint research on the establishment of a national master plan that should strengthen water security and assess the vulnerability of Asian and African countries to climate change each year. The scale of research fund is aiming at a total of US\$3.13 million for 10 years from 2017.
- Many KNC members attended the 8th World Water Forum held in Brasilia, Brazil from 18 to 23 March, 2018 which was co-organized by the government of Brazil and the World Water Council.

1.3 Educational and training courses

- The UNESCO i-WSSM conducted Problem-solving Programme based on On-site Diagnosis in Cambodia Mekong Delta Region and established the Integrated Flood Management Conceptual Plan on 2017. From this year, i-WSSM is undertaking the Problem-solving Programme to improve water quality and monitoring system in the outer islands of Tuvalu with the cooperation of UNESCO Office in Jakarta.
- The UNESCO i-WSSM also undertook Capacity Building Program for the Improvement of Water Security targeting high level officials, government officials, and specialists as follows.

- Knowledge and Experience Sharing Program of Korea Water Resources for Central and South American Officials & Inter-American Development Bank (2017, 2018)
- Capacity Building Program for the improvement of water security with 9 Asian countries (2017, 2018)
- Workshop on Smart Water Management with 5 Central Asian countries (2017, 2018)
- Joint Technical Workshop on Water management with HEC Software based on the MOU between K-water and USACE with 6 Asia countries (2018)

1.4 Cooperation with international/regional water centres under the auspices of UNESCO

- The IHP KNC has established a close relationship with the UNESCO Category II Center in Korea, the International Center for Water Security and Sustainable Management (i-WSSM), which is currently located within the premises of the K-water Institute.
- The i-WSSM has become one of the institutional members of the KNC and therefore, there will be more productive cooperative activities between the KNC and the i-WSSM in due course.
- The IHP KNC has been closely collaborating with the other UNESCO Category II Centers such as ICHARM in Japan, the Humid Tropic Center in Malaysia and the Asia Pacific Ecohydrology Center in Indonesia.

2. FUTURE PLANNED ACTIVITIES

2.1 Activities foreseen for 2019-2020

- The Korea Water Resources Association (KWRA) will carry out the second half of the research projects (2018-2021) on the IHP Phase 8 research topic.
 - (1) Management of water-related disasters for climate change adaptation
 - (2) Urban water cycle strategy through the establishment of sustainable water ecohydrological system
 - (3) Solutions for urban development and water challenges in developing countries
 - (4) Future strategies for water shortage challenge and water availability security
 - (5) Investigation of the characteristics of the IHP Experimental River Basins (2019-2021)

2.2 Activities envisaged in the long term

- Regular meetings will be organized and diverse activities will be discussed by the Korean National Committee.