

The 26th UNESCO-IHP Regional Steering Committee

Viet Nam – Country Report

Shanghai, December 2018

VIET NAM - COUNTRY REPORT

1. ACTIVITIES UNDERTAKEN IN THE PERIOD NOV 2017 – OTC 2018

National/local scientific and technical meetings

- Work very closely with water related organization in Ministry of Natural Resources and Environment and Water use and disaster related to water organization in Ministry of Agriculture and Rural Development, Ministry of Construction, Ministry of Transportation.
- Meetings with professional societies (particularly, the Viet Nam Panel on Climate Change, Viet Nam Fluid Mechanics, and Viet Nam Geography Societies).
- The Chairman and the Members of the IHP National Committee meet regularly to discuss IHP matters.
- Organized a training course on applying and using the Flash Flood Warning Systems to develop flash flood risk maps.

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1. ACTIVITIES UNDERTAKEN IN THE PERIOD OCT 2017 – OTC 2018

Research/applied projects supported or sponsored

- Finalized the Project on “Developing of Flash Flood Risk Maps to 19 provinces in Central and Central Highland of Vietnam”. Transfer the result to Vietnam Hydro-Meteorological Administration for apply in the practice.
- Other Project are ongoing or just been implemented:
 - Updating Climate Change Scenarios for Viet Nam.
 - Developing The National Climate Assessment.
 - Developing Project of Climate Adaptation and Sustainable Development for the Central Viet Nam. In which, we mention about developing the early warning system and Intergrated water resouces management.
 - Implementing the Study of multi-disaster management and scientific solutions, development of tools for decision support for multi-disaster response, pilot application for the Central Coast.
 - Study on water security; assess ground water (especial on salinity intrusion); water quality;

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1. ACTIVITIES UNDERTAKEN IN THE PERIOD OCT 2017 – OTC 2018

Other initiatives

- Submitted to the Viet Nam Ministry of Science and Technology the National project title: "Combining top-down and bottom-up approaches in assessing water resources risks due to changes in hydrological systems". The main objective of the research is provide a contribution from Viet Nam to the UNESCO/IHP Strategic Plan in the VIII phase (2014-2021). At current, the project proposal has been and received positive feedback.

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

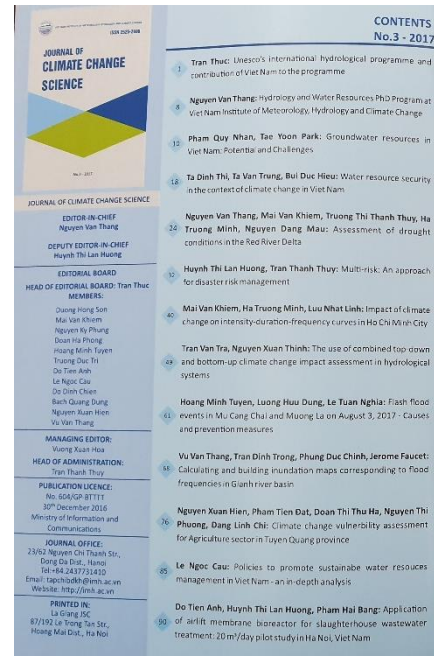
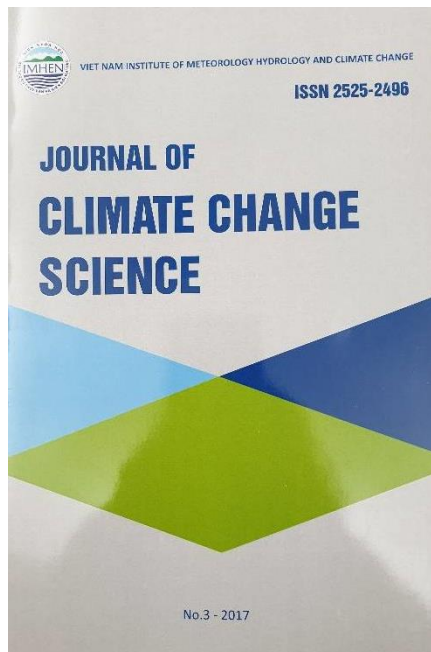
- Worked closely with the International Center for Water Hazard and Risk Management (ICHARM) from Japan and the Institute of Technology Bandung from Indonesia to submit a joint project proposal within the e-Asia "Disaster Risk Reduction and Management" platform. As for the IMHEN side, a project proposal of "Combining community knowledge and modern technology in natural disaster management" has been submitted to the Viet Nam Ministry of Science and Technology. At current, the project proposal has received positive feedback from Viet Nam MOST and the application is pending approval for waiting approval from Japan and Indonesia.

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1. ACTIVITIES UNDERTAKEN IN THE PERIOD OCT 2017 – OTC 2018

Publication

- Published a special issue on the IHP-VIII and researches under the IHP-VIII themes. In which, there are 13 paper have been publicated. The title of the issue is: Special Issues on UNESCO's IHP, Journal of Climate Change Science, No.3-2017, Ha Noi, Viet Nam.



UNESCO'S INTERNATIONAL HYDROLOGICAL PROGRAMME AND CONTRIBUTION OF VIET NAM TO THE PROGRAMME

Tran Thuc
Chairman of Viet Nam National Committee for the UNESCO-IHP
Received: 15 June 2017; Accepted: 21 August 2017

1. Introduction

The International Hydrological Programme (IHP), a UNESCO's intergovernmental scientific co-operative programme in hydrology, is a vehicle through which Member States can upgrade their knowledge of the water cycle and thereby increase their capacity to better manage and develop their water resources. It is the only intergovernmental programme of the UN system devoted to the scientific, educational and capacity building aspects of hydrology. Since its inception in 1975, IHP has evolved from an internationally coordinated hydrological research programme into a comprehensive programme to facilitate education and capacity building, and enhance water resources management and governance. Originally implemented in six-year phases and now in eight-year phases since 2014, IHP stimulates and encourages hydrological research, and assists Member States in research and training activities. IHP facilitates an interdisciplinary and integrated approach to watershed and aquifer management, which incorporates the social dimension of water resources, and promotes and develops international research in hydrological and freshwater sciences.

1.1. Hydrology Initiatives

As a science and education programme at the global level, the IHP covers a wide spectrum of projects and initiatives. All IHP-related activities are endorsed, recommended and coordinated through the IHP Intergovernmental Council.

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IHP's two cross-cutting initiatives, FRIEND-Water and HELP, interact with all IHP themes through their operational concepts. IHP's associated initiatives cover projects and activities that contribute to the development and implementation of IHP themes, and are often interlinked with joint initiatives and interagency components.

FRIEND-Water (Flow Regimes from International Experimental and Network Data). An international research initiative that helps to set up regional networks for analysing hydrological data through the exchange of data, knowledge and techniques at the regional level.

- GRAPHIC (Groundwater Resources Assessment under the Pressures of Humanity and Climate Change). A UNESCO-led project seeking to improve our understanding of how groundwater interacts within the global water cycle, how it supports human activity and ecosystems, and how it responds to the complex dual pressures of human activity and climate change.
- G-WADI (Global Network on Water and Development Information in Arid Lands). A global network on water resources management in arid and semi-arid zones whose primary aim is to build an effective global community to promote international and regional cooperation in the arid and semi-arid areas.

- HELP (Hydrology for the Environment, Life and Policy). A new approach to integrated catchment management by building a framework for water law and policy experts, water resource managers and water scientists to work together on water-related problems.
- IDI (International Drought Initiative). The initiative aims at providing a platform for

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2. FUTURE ACTIVITIES

2.1. Activities planned until December 2018

- Attending meeting of 27th IHP Regional Steering Committee for Southeast Asia and the Pacific.

2.2. Activities foreseen for 2019-2020

- Oriented towards the goal of IHP-VIII period 2014-2021, IHP Viet Nam focuses on the following issues:
 - (i) Water resources security; Water for sustainable cities; Disaster preparedness for schools and communities; Sustainable water resources management; Effectively managing rivers, national aquifers and transboundary aquifers; Raise awareness of all levels on climate change;
 - (ii) Water, Energy and Food Nexus to improve the capacity of integrated water resources management;
 - (iii) Propagate and disseminate themes of the eighth phase of UNESCO-IHP activities: 2014-2021 in agencies and schools.
- Participate in the IHP Asia-Pacific activities and contribute to Annual Scientific Conferences and Workshops.
- **Registered to organize of the 28th IHP-RSC meeting in Viet Nam.**

2.3. Activities envisaged in the long term

- Enhance activities that contribute to IHP-VIII. - Focus on water security and scarcity in Vietnam.
- Upgrade flash flood warning systems and develop detail flood forecasting maps for Vietnam.
- Transfer technology and training course in Hydrology and water resources

Thank you!

Shanghai, December 2018