

# Thailand National Report on IHP Related Activities for 24th UNESCO IHP Regional Steering Committee Meeting for Southeast Asia and the Pacific

24—26 OCTOBER 2016, ULAAN BATOR, MONGOLIA

## Meeting of the IHP National Committee


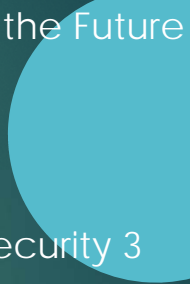
- ▶ **During Oct 2015 – Sept 2016**, there was **not** Thailand National Committee –IHP meeting or any discussions. However, the secretariat of TNC – IHP still encourages the members to continue on knowledge and technology sharing, and cooperate in various ways to promote hydrological improvement and water resources criteria.

## Activities at national level in the framework of the IHP

- ▶ Representatives from TNC – IHP and the Department of Water Resources participated in
- ▶ the 23rd Regional Steering Committee Meeting for Southeast Asia and the Pacific, RSC for UNESCO-IHP and the Conference, 19-22 October 2015, Medan, Indonesia

## Research/applied projects supported


- ▶ Theme 1 Water Related Disasters and Hydrological Changes 12 projects
- ▶ Theme 2 Groundwater in a Changing Environment 9 projects
- ▶ Theme 3 Addressing Water Scarcity and Quality 8 projects

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- ▶ Theme 4 Water and Human Settlements of the Future  
3 projects
  - ▶ Theme 6 Water Education Key, for Water Security 3  
projects

## Participation in international scientific meeting




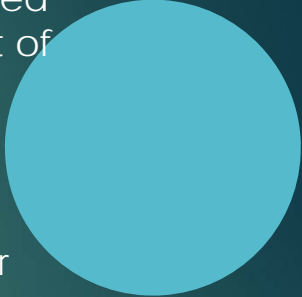
- ▶ Asian Water Cycle Initiative on " Asia Water Cycle Symposium : AWCS, 1-2 March 2016, Tokyo, Japan.
- ▶ The meeting of the Typhoon Committee on Annual Meeting of 48 (48 TC Session) Hawaii USA in March 2016.

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- ▶ Regional Consultation Workshop on Discharge and Sediment Decentralization Batch 2 and Preparation for the New TORs to Continue the National Data Collection 2016-2017 on 2-4 April 2016, Vientiane , Lao PDR.
  - ▶ The first meeting of the Committee of the cyclone - 43rd Session of WMO/ESCAP Panel on Tropical Cyclones, Annual Meeting of 43 (43 Panel of PTC) 2-6 May 2016 in New Delhi India.

## Future activities



- ▶ Continuation of Collaboration with RSC-IHP for Southeast Asia and the Pacific
- ▶ Enhancing activities contributed to IHP-VIII
- ▶ Enhancing activities on flood and drought management
- ▶ Continuation on promotion of integrated water resources management

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- ▶ Expansion on implementation of integrated water resources management to the rest of the country
  - ▶ Promotion on capacity building on water resources management for River Basin Committee

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- ▶ Participate in the international forum/conference on water resources management or environmental aspects
  - ▶ THA 2017 International Conference on Water Management and Climate Change towards Asia's Water Energy - Food Nexus on 25-27 January 2017 Swissôtel Le Concorde, Bangkok Thailand.

Thank you



**NATIONAL REPORT ON IHP RELATED ACTIVITIES**

**THAILAND**

**for**

**24<sup>th</sup> UNESCO IHP Regional Steering Committee Meeting  
for Southeast Asia and the Pacific:  
(UNESCO IHP RSC for SEAP)**

**24-26 October 2016**

**Ulaanbaatar, Mongolia**

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## 1 ACTIVITIES UNDERTAKEN IN THE PERIOD of November 2015 – October 2016

### 1.1 Meeting of the IHP National Committee

#### 1.1.1 Decision regarding the composition of the IHP National Committee

The present composition of Thailand National Committee – IHP: TNC-IHP consists of 18 members as follows:

<b>Chairman:</b>	Director General of Department of Water Resources
<b>Vice Chairmen:</b>	Deputy Director General of Department of Water Resources Deputy Director General of Royal Irrigation Department
<b>Secretary:</b>	Director, Bureau of Research, Development and Hydrology Department of Water Resources
<b>Members:</b>	Representatives from concerned agencies and experts are as follows: <ol style="list-style-type: none"><li>1. National Park, Wildlife and Plant Conservation Department</li><li>2. Department of Groundwater Resources</li><li>3. Royal Irrigation Department</li><li>4. Thai Meteorological Department</li><li>5. Marine Department</li><li>6. Hydrographic Department, Royal Thai Navy</li><li>7. National Research Council of Thailand</li><li>8. Department of Royal Rainmaking and Agricultural Aviation</li><li>9. Secretariat of the Thai National Commission for UNESCO</li><li>10. Electricity Generating Authority of Thailand</li><li>11. The Thailand Research Fund</li><li>12. Thai Hydrologist Association</li><li>13. Mr. Veeraphol Taesombat</li><li>14. Director of Research and Hydrology Development Division, Bureau Research Development and Hydrology Department of Water Resources</li></ol>

The mailing address is as follows:

Thailand National Committee for the IHP  
Department of Water Resources  
180/3 Rama VI Rd., Soi 34, Samsennai,  
Phayathai, Bangkok, 10400, Thailand  
Tel : +662 298 6604 Fax: +662 298 6604  
Email : [wandee\\_pat@yahoo.com](mailto:wandee_pat@yahoo.com)  
[kanokwan.yw@gmail.com](mailto:kanokwan.yw@gmail.com)

#### 1.1.2 Status of IHP-VIII activities

The activities related to IHP-VIII on water resources are undertaken through the strategies and implementation plans on water resources management focused on public participation in 25 river basins in Thailand.

#### 1.1.3 Decisions regarding contribution to/participation in IHP-VIII

There was not the meeting of Thailand National Committee –IHP or any discussions in October 2015 – September 2016. However, the secretariat of TNC – IHP still encourages the members to continue on knowledge and technology sharing, and cooperate in various ways to promote hydrological improvement and water resources criteria.

## **1.2 Activities at national level in the framework of the IHP**

### **1.2.1 National/local scientific and technical meetings**

Thai representatives attended in various meetings particularly on hydrology, meteorology, flood forecasting and warning system, water resources and environmental management.

### **1.2.2 Participation in IHP Steering Committees/Working Groups**

Representatives from TNC – IHP and the Department of Water Resources participated in the 23<sup>rd</sup> Regional Steering Committee Meeting for Southeast Asia and the Pacific, and the International Conference on Integrated Actions for Global Water and Environmental Sustainability, 19-22 October 2015, Medan, Indonesia.

### **1.2.3 Research/applied projects supported or sponsored**

Research projects have implemented by concerned agencies of the Thai government for the fiscal year of 2015 (B.E.2558) according to the IHP VIII are as following:

#### **Theme 1 Water Related Disasters and Hydrological Change**

TNC - IHP has implemented various activities according to the Theme 1 as follows;

- Telemetry system installation for water monitoring.
- Development of capacity building models on community's adaptation for the rising risk of water resources from climate change and fluctuation in 2015-2016.
- Developing of perception from flood - landslide disaster and community preparedness behavior for mitigating the impact of disaster: Case study of flood-landslide risk areas in Southern region 2015-2016.
- Evaluating and monitoring surface water quality of community water resources in the area affected by flood of Nan River Basins in 2015-2016.
- Risk assessment and impact analysis of climate change on community water resources: A case study comparison of Chi and Mun river basins 2015-2016.
- Local utilization on water resources conservation and rehabilitation project in the areas of Water Resources Regional 3 Office, Department of Water Resources in 2015-2016.
- Developing of perception from flood - landslide disaster and community preparedness behavior for mitigation the impact of disaster: Case study of flood-landslide risk areas in southern region on 1 October 2015 - 30 September 2016.
- Development of capacity building models on community's adaptation for the rising risk of water resources from climate change and fluctuation on 1 October 2015 - 30 September 2016.
- Awareness of local community to the impact of climate change and adaptation.
- Climate change and its impacts on water resources management of community (Multiple case studies: tributaries of the Mun River basin)
- The effect of climate change on community based water management: Case study in the Mun River sub watershed area.
- Benefiting from global and local earth observation systems.

#### **Theme 2 Groundwater in a Changing Environment**

TNC - IHP has implemented various activities according to the Theme 2 as follows;

- Project implementation on groundwater and hydro-geological map by the Department of groundwater resources with financial support of Groundwater Development Fund
- Installation of telemetry system for water monitoring.
- Installation of simple water gauges with message boards for early warning to community.
- Roles of local administration on flood management in Pathumthani Province.
- Selection of the location for disaster victim center and assistance route for flood mitigation.
- Study on using lateritic by mixture of soil and cement for road restoration after flood.
- Market strategies of hotel business after the violent of flood in 2011; Case Study in PhraNakorn Sri Ayutthaya Province.
- Addressing strategies for management of aquifers recharge.
- Promoting management of trans-boundary aquifers.

### **Theme 3 Addressing Water Scarcity and Quality**

TNC - IHP has implemented various activities according to the Theme 3 as follows;

- Improvement of Electricity Generating Authority of Thailand (EGAT) Reservoir Operation Rule Curve.
- Model Improvement for optimal reservoir operation in the Maeklong River Basin.
- Local wisdom on water resources management in the upper northeastern Mekong river basin.
- Study the efficiency on water resources management in paddy field due to the change of water storage in the Mun river basin, Phase III in Samrong District, Ubon Ratchathanee province.
- Study on sustainable water resources management in household according to the philosophy of sufficiency economy.
- Strategy review on water resources management for preparedness on climate change in Thailand.
- Water access and efficient water use according to the green economic concept to handle climate change in Suan Pheung district, Ratchaburi province.
- Strengthening of water user group.

### **Theme 4 Water and Human Settlements of the Future**

TNC - IHP has implemented various activities according to the Theme 4 as follows;

- Study on format of expansion for production of drinking water with slowly sand filtration system in backcountry such as Omkoi and Mae Chaem districts in Chiang Mai province.
- System wide changes for integrated management approaches.
- Institution and leaderships for beneficitation and integration.

### **Theme 5 Eco-hydrology, Engineering Harmony for a Sustainable World**

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### **Theme 6 Water Education Key, for Water Security**

TNC - IHP has implemented various activities according to the Theme 6 as follows;

- Enhancing tertiary water education and professional capabilities in the water sector
- Water education for children and youth
- Education for transboundary water cooperation and governance

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

- Collaborate with German Agency for International Cooperation: GIZ under the support by German Federal Ministry of Environment, Nature Conservation and Nuclear Safety (BMU) to contribute the project on Improved Flood and Drought Prevention through Ecosystem-Based Adaptation in Watershed for 3 years of implementation

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1.2.5 Other initiatives

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### **1.3 Educational and training courses**

1.3.1 Contribution to IHP courses

None

1.3.2 Organization of specific courses

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1.3.3 Participation in IHP courses

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

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## **1.5 Publications**

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## **1.6 Participation in international scientific meeting**

### 1.6.1 Meetings hosted by the country

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### 1.6.2 Participation in meetings abroad

Representatives from Thailand participated in the meeting abroad as follows:

- Asian Water Cycle Initiative on “Asia Water Cycle Symposium: AWCS, 1-2 March 2016, Tokyo, Japan.
- The meeting of the Typhoon Committee on Annual Meeting of 48 (48 TC Session) Hawaii USA in March 2016.
- Regional Consultation Workshop on Discharge and Sediment Decentralization Batch 2 and Preparation for the New TORs to Continue the National Data Collection 2016-2017 on 2-4 April 2016, Vientiane, Lao PDR.
- The 1<sup>st</sup> Meeting of the Committee of the cyclone – The 43<sup>rd</sup> Session of WMO/ESCAP Panel on Tropical Cyclones, Annual Meeting of 43 (43 Panel of PTC) on 2-6 May 2016 in New Delhi India.
- The Working Session on National Indicative Plans "Monitoring and Evaluation System", Office of Secretariat in Vientiane (OSV) on 12 May 2016.
- The Workshop for Partner Staff on M&E and Measuring Change, 26-27 May 2016, Vientiane, Lao PDR.
- Cooperative Visit between the Ministry of Natural Resources and Environment of the Kingdom of Thailand and the Department of the Environment and Heritage of Australia, 10-16 July 2016, Australia.
- Regional Technical Workshop on the Council Study's Social and Economic Assessment Approach and Methodology, 26 August 2016, OSV, Vientiane, Lao PDR.
- Regional Dissemination Meeting on the National Indicative Plans 2016-2020, 1 September 2016, Phnom Penh, Cambodia.
- The meeting of the Typhoon Committee on Hydrology Group Meeting at 5 (5WGH) South Korea on 5- 8 September 2016.
- The field trip to Lancang River as part of the Joint Research between MRC – China and IWMI, 22 – 26 September 2016, China
- International Training Workshop on Watershed Management and Technology for Soil and Water Conservation, 9-15 October 2016, Beijing, China.

## **1.7 Other activities at regional level**

### 1.7.1 Institutional relations /cooperation

TNC-IHP has remained coordination closely and contacts with UNESCO Jakarta Office and UNESCO Bangkok.

### 1.7.2 Completed and ongoing scientific projects

- Implementation of Joint-Discharge and Sediment Transport and Bed load Measurements in Mekong River in Thailand.
- Nam Pong project: Series of training for national modeler under IWRM principles.
- Lam Ta Kong project: Series on the job training/workshop for capacity building for the application of ArcSWAT.

## **2 FUTURE ACTIVITIES**

### **2.1 Activities planned until December 2016**

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### **2.2 Activities foreseen for 2016-2017**

- Continuation of Collaboration with RSC for Southeast Asia and the Pacific
- Enhancing activities contributed to IHP-VIII
- Enhancing activities on flood and drought management
- Continuation on promotion of integrated water resources management
- Expansion on implementation of integrated water resources management to the rest of the country
- Promotion on capacity building on water resources management for River Basin Committee
- Participate in the international forum/conference on water resources management or environmental aspects
- THA 2017 International Conference on Water Management and Climate Change towards Asia's Water Energy - Food Nexus on 25-27 January 2017 in Bangkok Thailand.

### **2.3 Activities envisaged in the long term**

- Enhancing activities contributed to IHP-VIII
- Enhancing activities in Flood and Drought Management
- Highlight on Integrated Water Resources Management in 25 river basins
- Continuation of raising public awareness and education on water resources management
- Continuation of raising public participation on water resources management

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*Thailand National Committee for IHP  
Department of Water Resources  
Ministry of Natural Resources and Environment  
October 2016*