NATIONAL REPORT ON IHP RELATED ACTIVITIES

THAILAND
June 2012 - May 2014

for
21st Session of the IHP Intergovernmental Council: IHP-IC-XXI)
(UNESCO, Paris, 18-20 June 2014)

Paris, France
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1. Activities undertaken in the period of June 2012 – May 2014

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:

Chairman: Director General of Department of Water Resources
Vice Chairmen: Deputy Director General of Department of Water Resources
              Deputy Director General of Royal Irrigation Department
Secretary: Director, Bureau of Research, Development and Hydrology,
           Department of Water Resources
Members: Representatives from concerned agencies and expert are as follows:
1. National Park, Wildlife and Plant Conservation Department
2. Department of Groundwater Resources
3. Royal Irrigation Department
4. Meteorological Department
5. Marine Department
6. Hydrographic Department
7. National Research Council of Thailand
8. Bureau of Royal Rainmaking and Agricultural Aviation
9. Secretarial of the Thai National Commission for UNESCO
10. Electricity Generating Authority of Thailand
11. The Thailand Research Fund
12. Thai Hydrologist Association
13. Mr. Veeraphol Taesombat
14. Director of Research and Hydrology Development Division,
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1.1.2 Status of IHP-VII activities (including IHP-VIII activities if applicable)
   Please see attached sheet.

1.1.3 Decisions regarding contribution to/participation in IHP-VII
   During June 2012 – May 2014, there was a discussion with Thailand National
   Committee –IHP meeting to review some activities and organize the meeting in future. However,
   the committee still encourages IHP members to continue sharing knowledge and technology, 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 20th Regional Steering Committee Meeting for Southeast Asia and the Pacific, RSC for UNESCO-IHP and the International Conference on Sharing Knowledge of Issues in Water Resources Management to Face the Future, 5-9 November 2012 in Langkawi, Malaysia.
- The 21st Regional Steering Committee Meeting for Southeast Asia and the Pacific, RSC for UNESCO-IHP and the Conference, 30 September - 5 October 2013, Gyeongju, Republic of Korea.

1.2.3 Research/applied projects supported or sponsored
Research project approved by National Research Council of Thailand and funded by Thai government for fiscal year of 2013 (B.E.2556) are as following:
- Feasibility and frequency of flood and land slide from climate change and global warming. (Case study: Northern Thailand)
- Enhancing capabilities of community to cope with water related disaster. (Case study: Chi river basin)
- Awareness of local community to impact of climate change and adaptation
- Climate change and its impact on water resources management of community. (Multiple case study: tributaries of Mun river basin)
- Water resources management in the Chi river basin community.
- Water resources management in the Klong Tha Lat sub-basin with WEAP mathematical model.
- Study of any flood response with participation of Ban Klong Wa community. (Kor Hong municipality, Hat Yai district, Songkhla province)
- The effect of climate change on community based water management: Case study in the Mun River sub watershed area, 1 October 2012-30 September 2014.
- The conservation planning on small canal and the way of life for Ampawa district’s people, Samutsongkarm province, June 2013- June 2014.

1.2.4 Collaboration with other national and international organizations and/or programmes
- Cooperate with Ministry of Natural Resources and Environment (MNRE) and other concerned agencies such as UNESCAP to organize a meeting/events/ exhibitions on the occasion of the World Water Day in March 2013 and 2013.
- Cooperate with JICA for project implementation on Comprehensive Flood Management Plan for the Chao Phraya River Basin during July 2012 – September 2013. The project is already completed with successful by the end of September.
- Trilateral Cooperation; Lao PDR, Thailand and German Agency for International Cooperation: GIZ on Nam Xong Sub-River Basin Management, Vangveieng District, Vientiane Province, Lao PDR.
- 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.
- Collaborate with Network of Asian River Basin Organizations (NARBO) on NARBO RBO Benchmarking program, 2013-2014 (RBOB 2013) in cooperation with Japan Water Agency (JWA).

1.2.5 Other initiatives
- The Department of Water Resources initiates the guidelines on Conjunctive Water Management with the Department of Groundwater Resources and Royal Irrigation Department, Thailand under the consultations of Natural Heritage Institute (NHI), the United States of America.
- The Department of Water Resources initiates the guidelines on the SOURCE Model for decision support on water resources management with eWater Cooperative Research Center, Australia.
1.3 Educational and training courses

1.3.1 Contribution to IHP courses

None

1.3.2 Organization of specific courses

- National Training on Operation and Maintenance of ADCP and GPS equipment on 29-30 July 2013, Nong Khai, Thailand.
- Training Programme on the sediment grain size analysis on 5-6 August 2013, Chiang Saen Hydrological Centre, Chiang Rai, Thailand.
- National Training on Operation and Maintenance of Early Warning System in the High Risky Areas of Flash Flood and Landslide on 9-10 May 2013, with the total of 1,052 stations, cover 3,207 villages. Its objectives are to increase understanding and skills for public relations and public hearing on the early warning system for flood risk areas - landslide prone areas in the foothills and plains for 2013.
- National Training on Operation and Maintenance of Grain Size Analysis, on 5 – 6 August 2013, Chiang Rai, Thailand.
- National Training on Operation and maintenance of Echo Sounder on 27 – 28 November 2013, Ubon Ratchathani, Thailand.
- Regional Training on Quality Assurance and Quality Control (QA/QC) for Spatial GIS and Hydro-Meteorology Data, 25 – 27 February 2014, Ho Chi Minh City, Viet Nam.
- Regional Technical Workshop on Discharge and Sediment Data Quality Assurance (QA) and Quality Control (QC), 11-14 March 2014, Siem Reap, Cambodia.

1.3.3 Participation in IHP courses

- Thai representative attended the training course on Precipitation Measurement from Space and its Applications on 18 November-1 December 2012, Nagoya, Japan.

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

1.5 Publications

There are numerous Publications from various conferences.

1.6 Participation in international scientific meeting

1.6.1 Meetings hosted by the country

- Ministry of Natural Resources and Environment, Thailand hosted the 12th ASEAN Ministerial Meeting on the Environment in September 2013.
- Royal Thai Government hosted the 2nd Asia-Pacific Water Summit and Exhibitions, 14-20 May 2012, Chiang Mai, Thailand.

1.6.2 Participation in meetings abroad
Representatives from Thailand participated in
- The 13th ASEAN Working Group on Water Resources Management, 24-26 June 2013, Darussalam, Brunei.
- The 2nd Mekong River Commission Summit and related Meeting, 2-5 April 2014, Ho Chi Minh City, Vietnam.

1.7 Other activities at regional level

1.7.1 Institutional relations /co-operation
- TNC-IHP has remained coordination closely and contacts with UNESCO Jakarta Office and UNESCO Bangkok.

1.7.2 Completed and ongoing scientific projects

- Completed project
The Mekong-HYCOS is the MRC project funded by Agence Française de Développement (AFD) and Fonds Français pour l’Environnement Mondial (FFEM). The Mekong-HYCOS Mekong-HYCOS project operated by the Information and Knowledge Management Programme (IKMP). Since 2006, it has upgraded existing hydro-meteorological stations in Cambodia, Lao PDR, Thailand, Viet Nam and PR China with state-of-the-art equipment and tools as well as operating systems to meet the standards of the World Meteorological Organization, the project’s partner. The project also installed new posts in the countries.

Currently, there are 49 stations throughout the region, 17 stations on the mainstream, 30 stations on the tributaries and 2 tidal stations in the Mekong Delta. These stations are able to share raw data on rainfall and water levels through the MRC’s data sharing platform. Moreover, the MRC’s Flood Management and Mitigation Programme and national flood forecasting agencies use the data for their flood model and trigger flood warnings if waters reach critical levels. Near real-time flood forecasting information is also available on the MRC’s website: http://www.mrcmekong.org.

- 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
- The Lam Ta Kong sedimentation model calibration to be held on 21-23, August 2013.

2 FUTURE ACTIVITIES

2.1 Activities planned until December 2014
- Thai representatives will participate in the IHP Training Course in Kyoto, Japan.
- The Department of Water Resources, Thailand in cooperation with UNEP will organize the 1st International Environment Forum for Basin Organizations in November 2014, Bangkok, Thailand.

2.2 Activities foreseen for 2015-2016
- Continuation of Collaboration with RSC for Southeast Asia and the Pacific
- Continuation of involvement in Asian-Pacific FRIEND
- 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
- Thai Hydrologist Association, Faculty of Engineering, Chulalongkorn University and Kasetsart University, Royal Irrigation Department, Department of Water Resources, Thailand Research Fund and Asian Institute of Technology will co-organize THA 2015 International Conference on *Climate Change and Water & Environment Management in Monsoon Asia*, 28-30 January 2015 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 awareness in efficient water resources management
- Continuation of raising public participation for better water resources management