

REPORT OF THE INDONESIAN NATIONAL COMMITTEE OF IHP

1. ACTIVITIES UNDERTAKEN IN THE PERIOD June 2014 – September 2016

1.1 Meetings of the IHP National Committee

1.1.1. Decisions regarding the composition of the IHP National Committee

The new organizational structure of the Indonesian National Committee for IHP consist of a Chairman, 5 Vice Chairman, two Secretaries, 5 Working Group Coordinators and members from various research institutes, universities and sectoral-Ministries.

The composition of the National Committee is:

Chairman	: Dr. Ir. Zainal Arifin, MSc
Vice Chairman I	: Dr. Ir. Arie Setiadi Moerwanto, M.Sc (Ministry of Public Work and Housing)
Vice Chairman II	: Ir. F.X Sutijastoto, MA (Ministry of Energy and Mineral Resources)
Vice Chairman III	: Dr. Hilman Nugroho (Ministry of Environment and Forestry)
Vice Chairman IV	: Prof. Dr. Hery Harjono (APCE – UNESCO)
Vice Chairman V	: Prof. Dr. Arief Rachman (Ministry of Education and Culture)
Secretary I	: Dr. Ir. Fauzan Ali, MSc
Secretary II	: Nur Trie Aries, MA
Working Group I Coordinator	: Dr. William Putuhena
Working Group II Coordinator	: Ir. Rudy Suhendar, M.Sc
Working Group III Coordinator	: Ir. Hermono Sigit
Working Group IV Coordinator	: Dr. Ignasius D.A. Sutapa, MSc.
Working Group V Coordinator	: Secretary of INATCOM
Members:	
1. Prof. Drs. Agus Subekti MSc, PhD	: Ministry of Education and Culture
2. Ir. Dodid Murdohardono, MSc	: Ministry of Energy and Mineral Resources
3. Drs. Endro Santoso, MSi	: BMKG
4. Drs. Arko Hananto Budiadi	: Ministry of Foreign Affairs
5. Dr. Titi Anggono	: Indonesian Institute of Sciences (LIPI)
6. Dr. Ir. M. Rahman Djuwansah	: Indonesian Institute of Sciences (LIPI)
7. Ir. Sudaryati Cahyaningsih	: Indonesian Institute of Sciences (LIPI)
8. Dr. Budi Kartiwa	: Ministry of Agriculture
9. Ir. Imam Anshori, MT	: National Water Resources Council
10. Dr. Sutopo Purwo Nugroho	: National Bureau of Disaster Management BNPB)
11. Drs. Budi Suhardi, DEA	: BMKG
12. Dr. Armi Susandi	: National Climate Change Council (DNPI)
13. Dr. Saiful Anwar	: Ministry of Environment and Forestry

The committee hold bimonthly coordination meetings and in addition several technical meetings as needed for the planning and implementation of seminars and workshops organized under coordination of the committee. The committee routine meetings is attended by the Chairman of the Indonesian Committee for UNESCO and by Program Specialist of the UNESCO Jakarta Office. Members of the national committee through regular meetings distribute informations gathered during the meeting as well as report to the meeting hydrological and related activities in their organizations.

1.1.2. Status of IHP-VIII activities

Theme 1. **WATER-RELATED DISASTERS AND HYDROLOGICAL CHANGE**

1. Risk management as adaptation to global changes
 - Impacts of landuse and climate change on hydrologic regime on a watershed
 - Studies on water resources carrying capacity (WRCC)
2. Understanding coupled human and natural processes
3. Benefiting from global and local Earth observation systems
4. Addressing uncertainty and improving its communication
5. Improve scientific basis for hydrology and water sciences for preparation and response to extreme hydrological events

Theme 2. **GROUNDWATER IN A CHANGING ENVIRONMENT**

1. Enhancing sustainable groundwater resources management
 - Implementing of ASRG Technology for groundwater recharge in industrial areas, urban areas by RC for Geotechnology – LIPI
2. Addressing strategies for management of aquifers recharge
3. Adapting to the impacts of climate change on aquifer systems
4. Promoting groundwater quality protection
 - Research Center for Physic - Indonesian Institute of Sciences (LIPI) conduct research on Groundwater identification for community and economy in Serang, Province of Banten
5. Promoting management of transboundary aquifers

Theme 3 **ADDRESSING WATER SCARCITY AND QUALITY**

1. Improving governance, planning, management, allocation, and efficient use of water resources
2. Dealing with present water scarcity and developing foresight to prevent undesirable trends
3. Promoting tools for stakeholders involvement and awareness and conflict resolution
4. Addressing water quality and pollution issues within an IWRM framework - improving legal, policy, institutional, and human capacity
 - Research Center for Limnology-Indonesian Institute of Sciences (LIPI) conduct research on water resources management in Saguling Demosite, West Java
5. Promoting innovative tools for safety of water supplies and controlling pollution

Theme 4. **WATER AND HUMAN SETTLEMENTS OF THE FUTURE**

1. Game changing approaches and technologies
2. System wide changes for integrated management approaches
3. Institution and leadership for beneficiation and integration
4. Opportunities in emerging cities in developing countries

5. Integrated development in rural human settlement

Theme 5. ECOHYDROLOGY, ENGINEERING HARMONY FOR A SUSTAINABLE WORLD

1. Hydrological dimension of a catchment– identification of potential threats and opportunities for a sustainable development
2. Shaping of the catchment ecological structure for ecosystem potential enhancement – biological productivity and biodiversity
3. Ecohydrology system solution and ecological engineering for the enhancement of water and ecosystem resilience and ecosystem services
 - APCE-UNESCO promote research and develop Ecohydrology Demosite in Saguling Reservoir, in West Java
 - APCE-UNESCO promote research on sustainable management of peatland in ex-megarice project, Central Kalimantan
4. Urban Ecohydrology – storm water purification and retention in the city landscape, potential for improvement of health and quality of life
5. Ecohydrological regulation for sustaining and restoring continental to coastal connectivity and ecosystem functioning

Theme 5. **WATER EDUCATION, KEY FOR WATER SECURITY**

1. Enhancing tertiary water education and professional capabilities in the water sector
 - Basic hydrological training for the water resources managers of the river area
 - Centre River Basin Organization Management (CRBOM) establishment as a center that will facilitate the implementation of experience in water resources management based on river basin carried out by the RBO (River Basin Organization)
 - Commemorating the world water day (Ministry of Public Works), Exhibition, National seminar (opened by the Minister of Public Works), discussions with awardees good water management
 - Ministry of Environment: Management of rivers and lakes
2. Addressing vocational education and training of water technicians
3. Water education for children and youth
 - APCE-UNESCO promote water quality protection for elementary school students during world water day celebration event
4. Promoting awareness of water issues through informal water education
5. Education for transboundary water cooperation

1.2. Activities at national level in the framework of the IHP

- National Seminar of Limnology : Management of 15 Priority Lakes in Indonesia
- FGD evaluation and implementation of management programs 15 Priority Lakes in Indonesia in 2014 and 2015

1.2.1. National/local scientific and technical meetings

- Hearings with the House of Representatives Commission VII, on the research of 15 priority Lakes in Indonesia
- Technical Meeting to construct Government Regulation of water resources management in Indonesia

- Technical Meeting to construct Government Regulation of mangrove and wetland areas zonation
- Technical Meeting with the Ministry of Marine Affairs and Fisheries to identify the potential resources of 15 priority lakes in Indonesia
- Meeting with the Ministry of Education and Culture, and Indonesia National Committee for Unesco

1.2.2. Participation in IHP Steering Committees/Working Groups

Annual meetings of the Regional Steering Committee for IHP in the Asia Pacific region are held in rotational base locations. Indonesia has always participated in these yearly meetings.

1.2.3. Research/applied projects supported or sponsored

RC for Limnology – Indonesian Institute of Sciences :

- Development of Saguling Reservoir Demo-site

RDC for Water Resources – Ministry of Public Works

- Flood forecasting and warning system
- Area reduction factor in West Jawa
- Rainfall runoff relationship for flood analysis
- Hydrological characteristics and the erosion rate as a function of land use change
- Balance and utilization of water resources strategy
- Balance and allocation of water in Indonesia
- Forecasts and drought control in the River watershed of Pemali Comal
- Development of flood and drought risk map of the Java island
- Raw water supply technology development in East Java

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

- Biovillage development in Giam Siak Kecil – Bukit Batu Biosphere Reserve in collaborate with MAB – Unesco : Promoting Alternative Technology To Provide Clean Water In Peat land Area
- Development of Peat Water Treatment Technology To Provide Clean Water In Peat land Area in colaboration with Katingan Prefecture – in Central Kalimantan
- Committee member of the National Congress of Sciences especially in water field

1.2.5. Other initiatives

1.3. Educational and training courses

1.3.1. Contribution to IHP courses

- APCE-UNESCO hosted IHP training course in Yogyakarta in November 8-9, 2014

1.3.2. Organization of specific courses

1.3.3. Participation in IHP courses

- 15 participants form Indonesia IHP jointed the IHP training course held in Yogyakarta in November 2014.

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

1.5. Publications

- Proceeding International Conference on Ecohydrology (ICE) “Ecohydrology Approaches Facing the Global Water Environment Challenges”, with 50 papers.

1.6. Participation in international scientific meetings

1.6.1. Meetings hosted by the country

- IHP Training Course in Yogyakarta, November 8 – 9, 2014
- International Conference on Ecohydrology, Yogyakarta, November 10 – 12, 2014
- 22nd RSC Meeting of IHP in Yogyakarta, November 13 – 14, 2014
- Meeting of APCE-UNESCO Governing Board member, Yogyakarta, November 12, 2014
- Strategic Meeting and International Workshop of UNESCO, Jakarta 11-12 March 2015
- World Water Day Workshop March 24, 2015 in Jakarta
- Meeting of Taman Lorentz Papua World Heritage, in Jakarta
- Workshop “Ecohydrology and Lake Ecosystem, collaboration of APCE – P2Limnologi – ILEC – Shiga University in June, 2 2014 in Cibinong
- 23rd RSC Meeting of IHP in Medan, November 2015

1.6.2. Participation in meetings abroad

- Ecohydrology Steering Committee Meeting in Paris May, 20 – 21, 2014
- IGC Meeting of IHP in Paris June 2014
- International Seminar on Landscape and Sustainable water resources management di Canberra Australia, June, 2014
- International Water Diplomacy Meeting Koblenz – Germany, November 2014
- World Lake Conference 2014 in September 2014, Perugia
- Meeting of Indonesia Delegation with ILEC related to WLC16, 3 September 2014 di Perugia
- World Water Forum in Daegu, Korea, in May 2015
- Unesco Water Family Centres and Chairs Meeting in Kuala Lumpur, Malaysia, in March 2015
- COP21 Meeting in Paris, December 2015
- International Symposium of Ecohydrology in Lyon France, in November 2015
- THA 2015 International Conference on “Climate Change and Water & Environment Management in Monsoon Asia”, Bangkok – Thailand, January 28-30, 2015
- Japan-Asia Youth Exchange Program in Science (Sakura Exchange in Sciences) (3rd -12nd March 2015
- Unesco Water Family Centres Coordination Meeting in Beijing – China, May 2016
- Unesco Water Family Centre Meeting in Tehran, Iran, March 2016

1.7. Other activities at regional level

1.7.1. Institutional relations/cooperation

1.7.2. Completed and ongoing scientific projects

2. FUTURE ACTIVITIES

2.3. Activities planned until December 2016

- Participation in IHP-Training course
- Collaboration meeting of IHP and MAB in Bali 2016
- Development and inauguration of Saguling Demosite, 29 October 2016
- Workshop of Ecohydrology in Yogyakarta 12 – 14 October 2016
- Workshop of Ecohydrology in Kefamenanu TTU, NTT, 18 – 19 October 2016

2.4. Activities foreseen for 2017-2018

- Asia Pacific Centre for Ecohydrology, Indonesian National Committee for IHP-UNESCO, Indonesian Institute of Sciences, Indonesian National Committee of Indonesia, will continue to conduct on going research on Ecohydrology Demosite “Sediment Deposition System on Saguling Reservoir”
- Participation in IHP-RSC meeting Asian Pacific FRIEND
- Participation in IHP-Training course
- Conducting International seminar on Ecohydrology, in cooperation with the Ministry of Education and Culture of Indonesia
- Conducting regional training on ecohydrology, in cooperation with UNESCO Jakarta Office and KNIU

2.5. Activities envisaged in the long term

- Participation in IHP-RSC activities and IHP Intergovernmental Council meetings.