

Catalogue of Hydrologic Analysis (CHA) Workshop Report

Workshop Date: 3rd November 15:00-19:00, 2018

Venue: The Ocean Hotel in Central Shanghai (RSC meeting place)

Participants: Representatives of IHP National Committee in AP region, 32 persons

The purpose of the Catalogue of Hydrologic Analysis (CHA) is to share the information on water-related issues such as disaster preparedness, water environment conservation, and water resources management in Asia and Pacific region. Five themes have been foreseen in the context of the CHA, with reference to the themes of IHP-VIII:

Theme 1: Water-Related Disasters and Hydrological Change

Theme 2: Groundwater in a Changing Environment

Theme 3: Addressing Water Scarcity and Quality

Theme 4: Water and Human Settlements of the Future

Theme 5: Ecohydrology, Engineering Harmony for a Sustainable World

The workshop placed particular focus on theme 1: Water-Related Disasters and Hydrological Change. Hazard mapping developed in each country of the region was considered in terms of technologies, theories, experiences, good practice, and lesson learned. Participants made presentations on hazard mapping for their countries. Then we discussed a detailed publication plan to develop CHA. The workshop also discussed the tools available for analysis under the theme, such as flood prediction models, and considered needs and priorities in terms of tool development. The workshop also considered the further CHA Development Plan.

Programme:

15.00-15.15 Introduction Yasuto Tachikawa, Kyoto University and Hans Dencker Thulstrup, UNESCO Jakarta

15:15-18:00 Hazard mapping developed in each country

- Australia Ian White, Australian National University
- China Zhongbo Yu, Hohai University
- Fiji Amini Loco, Geoscience, Energy and Maritime Division, SPC
- Indonesia Ignasius D.A. Sutapa, Asia Pacific Centre for Ecohydrology (APCE)
- Japan Takahiro Sayama, DPRI, Kyoto University
- Korea Joo-Heon Lee, JoongBu University
- Malaysia Ir Hj Abdullah bin Isnin, Department of Irrigation and Drainage
- Myanmar Myo Tun Oo, Department of Meteorology and Hydrology
- Nepal Bikram Shrestha Zoowa, Department of Meteorology and Hydrology
- New Zealand Dennis Jamleson, Canterbury Water Management Strategy
- Vietnam Thi Lan Huong Huynh, Institute of Meteorology, Hydrology and Climate Change

18.00-18.20 Break

18.20-19.00 Discussion on publication plan to develop CHA Yasuto Tachikawa and Hans Dencker Thulstrup

- Publication plan: Ken Kobayashi, Kobe University
- Discussion on Table of Contents: all participants
- Discussion on Publication Schedule
- Discussion on Editorial team: all participants
- Next topics and long-term schedule: all participants
- Others



Through the discussion on the workshop and the follow-up discussion at RSC on 4 November, a publication was determined as below:

1. Contents

A sample of table of contents is below. Settings of sub-sections are flexible.

1. Introduction
1.1 Flood disaster situation (economic damage, casualties, etc)
1.2 Purpose of flood hazard mapping
2. Flood Hazard Mapping
2.1 Method
2.2 Scenario of external force
2.3 Tools (RRI, HEC, ...)
3. Dissemination of Flood Hazard Map Information
4. Application of Flood Hazard Map
4.1 Flood hazard map for XX River basin
4.2 Usage of flood hazard map
(1) Flood area zoning
(2) Flood risk mapping
(3) Multi-hazard mapping
5. Administrative, Legal and Institutional framework
6. Good Practice, Lesson Learned and Gaps
References
Appendix

2. RSC member countries are encouraged to submit documents.

Ken Kobayashi, Japan, Editor in Chief

Guillermo III Tabios, Philippines

Ignasius Sutapa, RSC Chair

Yasuto tachikawa, RSC Secretary

Hans Thulstrup, RSC Secretariat

3. Next topic and long-term schedule

Date	Theme 1 Hazard mapping	Theme 2 Draught	Theme 3
4 Nov. 2018 RSC	Publication schedule and contents are determined.		
30 April 2019	Deadline for submission		
	Editing works		
Nov. 2019 RSC	PDF publication, hopefully 50 printed version, Upload to IHP WINS	Publication schedule and contents will be determined.	
Nov. 2021 RSC		Publication	Publication schedule and contents will be determined.
Nov. 2022 RSC			Publication

Further information on the CHA is available at: <http://hywr.kuciv.kyoto-u.ac.jp/ihp/rsc/cha.html>

The 2nd Catalogue of Hydrologic Analysis (CHA) Workshop

Date: 29th October 2019 10:15-12:00

Venue: The Hotel Royal Ace, Naypyidaw in Myanmar (RSC meeting place)

Expected participants: Representatives of IHP National Committee in AP region

The development of the CHA was initiated at the 25th IHP-RSC meeting held in 2017 in Manila, the Philippines. It was agreed that the CHA address five themes corresponding to the themes of IHP-VIII (although not necessarily in the same order). The themes are:

- Theme 1: Water-Related Disasters and Hydrological Change
- Theme 2: Groundwater in a Changing Environment
- Theme 3: Addressing Water Scarcity and Quality
- Theme 4: Water and Human Settlements of the Future
- Theme 5: Ecohydrology, Engineering Harmony for a Sustainable World

The 1st CHA workshop was held the following year in conjunction with the 26th IHP-RSC meeting held in Shanghai, China, in 2018. At this workshop, it was decided to focus first volume on Theme 1: Water-Related Disasters and Hydrological Change. Documents on hazard mapping were submitted by five countries in the region with focus on the following categories of information: technologies, theories, experiences, good practice, and lesson learned. Volume One is now in the process of publication. This workshop will introduce the contents of the CHA Volume One; and discuss the theme and development process of the second volume.

Programme:

10.15-10.25 Introduction: Yasuto Tachikawa, Kyoto University and Hans Dencker Thulstrup, UNESCO Jakarta

10:25-11:15 Hazard mapping published in the CHA Volume One (10 min each including Q&A)

- Indonesia: Ignasius D.A. Sutapa, Asia Pacific Centre for Ecohydrology (APCE)
- Japan: Ken Kobayashi, Kobe University
- Republic of Korea: Joo-Heon Lee, JoongBu University
- Myanmar: Myo Tun Oo and Thet Htoo Naing, Department of Meteorology and Hydrology
- Philippines: Guillermo III Tabios, Institute of Civil Engineering, Univ. of the Philippines

11.15-11.30 Introduction of new CHA website: Hans Dencker Thulstrup and Bustamam Koetapangwa

11.30-12.00 Discussion: CHA Volume II: Yasuto Tachikawa and Ken Kobayashi

- Proposals on the Theme
- Discussion on Table of Contents
- Discussion on Editorial Team
- Topics and schedule
- Other issues