



[Draft] Summary Report

6th ASEAN Hydroinformatics Data Centre (AHC) Meeting 10:00 – 12:00 hrs UTC+8, 08 December 2022, Zoom

INTRODUCTION

1. The ASEAN Hydroinformatics Data Centre (AHC) was approved as a centre under the ASEAN Committee on Science, Technology, and Innovation (ASEAN COSTI). AHC reports to the Sub-Committee on Microelectronics and Information Technology (SCMIT).
2. AHC shall be a platform to support data connectivity among ASEAN's water, weather, and disaster related agencies. ASEAN member states can also share their knowledge and technology through AHC to broaden future implementation and operation.
3. The Sixth Meeting of the ASEAN Hydroinformatics Data Centre (AHC) was held on 08 December 2022 virtually through Zoom hosted by Nanyang Technology University (NTU), Singapore.
4. The Meeting was attended by the delegates from 8 member states, including the Kingdom of Cambodia, the Republic of Indonesia, the Lao People's Democratic Republic, the Republic of the Union of Myanmar, the Republic of the Philippines, the Republic of Singapore, the Kingdom of Thailand and the Socialist Republic of Vietnam. The list of the delegates appears as ANNEX 1.

AGENDA ITEM 1: OPENING AND ADOPTION OF THE AGENDA

5. Prof. Law Wing Keung from Singapore, Chairman of AHC, warmly welcomed the participants to the Sixth AHC Official Meeting.
6. The Meeting discussed and adopted the agenda in ANNEX 2.

AGENDA ITEM 2: AHC ROADMAP 2020 – 2030

2.1 Review of AHC Roadmap 2020 – 2030

7. AHC Chairman reviewed the AHC Roadmap which is consisted of three phases for the ten-year period of 2020 - 2030. Phase 1, Data (2020 – 2021), was to share the knowledge by creating a platform. Phase 2, Technology (2022 – 2025), is to build capacity and exchange knowledge by the first group of members starting with the

“Knowledge Sharing” activity from Jan 2022. Phase 3, AHC Application (2026-2030), shall be carried out by the second group of members.

8. AHC Chairman reviewed the AHC's knowledge-sharing framework with three focuses: “Knowledge Sharing”, “Technology Matching”, and “Capacity Building”. He emphasized that the adoption of the framework on sharing is of critical importance for future disaster reduction in ASEAN under climate change, and AHC can be an effective platform to accelerate and strengthen regional collaboration. In 2022, AHC maintained its interaction with the ASEAN CIO Association (ACIOA) to integrate and accelerate the roles of ICT and Hydroinformatics for disaster risk reduction in the region as well as exchange past experience on prepare-response-action on approaching disaster. AHC also actively participated in the activities from other ASEAN associations. They included the “Hydroinformatics in Flood Early Warning & Forecasting” workshop under International Hydrological Programme (8th June 2022); ASEAN Strategic Policy Dialogue on Disaster Management (18-19th August 2022); The 50th Meeting of ASEAN Sub-Committee on Micro-electronics and Information Technology (5th October 2022), as well as activities organized by related organizations.

AGENDA ITEM 3: AHC KEY INFORMATION

3.1 Chairmanship

9. AHC Chairman informed the appointment of the new AHC Vice-Chair, Assoc. Prof. Dr. Pham Thi Thanh Nga from the Viet Nam Institute of Meteorology, Hydrology and Climate Change (IMHEN), Ministry of Natural Resources and Environment (MONRE), Vietnam. She had taken over the role from Assoc. Prof. Dr. Huynh Thi Lan Huong since September 2022. The new Vice-chair briefly introduced herself and delivered her greeting to the AHC members.

AGENDA ITEM 4: AHC ACTIVITY & ACHIEVEMENT IN 2022

4.1 Progress

4.1.1 “Hydroinformatics for Disaster Management in ASEAN” - sharing in AHC platform

10. AHC Chairman summarized the AHC activities in 2022, which closely followed the AHC Roadmap. In particular, the Roadmap Phase 2, Technology (2022 – 2025) had been initiated with the “Knowledge Sharing” activities.
11. The Meeting acknowledged the valuable contribution of all AHC members and external parties to the information sharing in the AHC platform in 2022. Particularly, their contributions towards the shared information in the AHC website (www.aseanwater.net) included: 1) Information in Science & Technology adaptation

for water management in ASEAN; and 2) Collaboration among AHC members. Examples were the information from Public Utility Board (PUB) and National Environmental Agency (NEA) from Singapore on “Flash Flood Updates by Singapore” and weather data; the real-time monitoring information from HII from Thailand on “Weather Research and Forecasting and Regional Ocean Model System (WRF-ROMS) Model”; the results of rainfall forecast from IMHEN from Vietnam on “Weather Research, and Forecasting Model developed by IMHEN”; and the Cloud Top Temperature by HII and Japan Aerospace Exploration Agency (JAXA) using Japan’s Himawari-8 satellite information.

12. With the continuous effort on the information sharing in the AHC platform (i.e., via website, WhatsApp, Facebook), AHC can contribute effectively to the disaster preparedness and sustainable development in ASEAN in the future.
13. Myanmar AHC Member made a call to write the book chapters from the AHC members to co-create the book entitled “**Hydroinformatics for Disaster Management in the Asia and the Pacific Countries**”. An expression of interest had been requested from the AHC members.

4.1.2 AHC Workshop for Knowledge Sharing

14. The Meeting reviewed the mission of the AHC Workshops with three key objectives: 1) to encourage sharing knowledge and expertise among ASEAN members; 2) to build on knowledge and expertise among ASEAN members; and 3) to link with potential partners for future collaboration.
15. AHC Secretariat from Singapore summarized that three workshops had been conducted in March, July and October 2022 in three of the 5 main Thematic Areas (TA). The topics were TA2: Big Data & Data Analysis, TA4: Flood Modelling and TA5: Water Resource Management, respectively. The workshops had drawn many participants from diverse groups such as government bodies, research institutes and universities in ASEAN. During the panel discussion held in the workshops, opinions were shared on how to better prepare for response action for disasters as well as the roles of hydroinformatics in the preparation. This demonstrates how the AHC platform can facilitate the considerations of ESG factors (environment-societies-government) towards flood mitigation in particular and water resources management at large.
16. AHC Chairman emphasized that the Knowledge Sharing is based on the community contribution and learning network from all the AHC members. He would like to thank their support and participation in 2022. The reports of all workshops are attached in ANNEX 3.

4.2 Update progress of each member on internal discussion

17. AHC members from Myanmar, Singapore, Thailand, and Vietnam updated their respective progress for the year 2022 as shown in ANNEX 4.

AGENDA ITEM 5: AHC PLANNING IN 2023

5.1 AHC Knowledge Sharing

18. AHC Secretariat from Singapore highlighted that the AHC mission of sharing knowledge and insight among AHC State members through online sharing workshops will continue in 2023. The next workshop shall be scheduled in early 2023 on TA3: Observation Technology and the speakers will be confirmed later.
19. With the success of workshops so far, AHC Secretariat proposed to maintain the regular workshop schedule in every 5-6 months during the entire Phase 2.
20. In 2023, AHC Secretariat aims to link more weather and other hydroinformatic data from the official portals of the ASEAN countries.
21. The Meeting encouraged AHC members to contribute useful information such as flood news, and disaster mitigation planning and strategy in their local context to enrich the AHC platform.

5.2 International Conference on Hydro-Environment under Climate Changes in South-East Asian (ICHECC-SA)

22. AHC Chairman informed on the planning of organizing the International Conference on Hydro-Environment under Climate Changes in South-East Asian (ICHECC-SA) by AHC Singapore, Nanyang Technology University (NTU). The conference will tentatively take place from 25 to 28 July 2023, subjected to the sponsorship of Ministry of Trade and Industry (MTI), Singapore. (After meeting note, MTI is currently re-reviewing the funding support. The physical conference and AHC Meeting in Singapore will not continue if the support is not granted)
23. If the conference proceeds, the representative speakers from 10 ASEAN Countries would be invited to deliver presentations to share their respective experience and insights in their fields.
24. The confirmation and details of the physical conference will be circulated to AHC members later.

AGENDA ITEM 6: OTHER MATTERS

25. None

AGENDA ITEM 7: DATE AND VENUE OF THE NEXT AHC MEETING

26. The Meeting agreed to the proposed organization of the 7th AHC Meeting in 2023, and the date will be confirmed later.

AGENDA ITEM 8: ADOPTION OF THE REPORT OF THE 6th AHC MEETING AND CLOSING

27. The Meeting agreed that the report would be adopted ad referendum. The AHC Secretariat will thereafter forward the endorsed report to ASEAN Secretariat.

28. AHC Chairman expressed his appreciation to all AHC members for their support and valuable assistance to the Meeting.

29. The Meeting was held in the traditional spirit of ASEAN cordiality and solidarity.

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Written by: AHC Secretariat team, Singapore

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List of ANNEXES

ANNEX 1: List of Delegates

ANNEX 2: Agenda of the 6th ASEAN Hydroinformatics Data Centre Meeting

ANNEX 3: Summary of Virtual Workshops in 2022

ANNEX 4: Update from Myanmar, Singapore, Thailand and Vietnam