



Webinar Series on Climate Change Projection for Disaster Risk Reduction in Asia-Pacific Region

Fifth Webinar with the Republic of Korea

27 February 2026
13:00 - 15:00
[Japan Time, UTC+9]

Background

In the Sixth Assessment Report (AR6) of the IPCC, which comprises the contributions of three Working Groups: Working Group 1 (the physical science basis); Working Group 2 (impacts, adaptation, and vulnerability); and Working Group 3 (mitigation), extremes - including temperature extremes, heavy precipitation, pluvial floods, river floods, droughts, and storms - are highlighted as main Climatic Impact Drivers (CIDs) that affect an element of society or ecosystems. These extremes are mentioned in the Working Group 1 Report to show the science of how and why the climate has changed. In the Working Group 2 Report, research on the impacts of extremes (e.g., storms and floods) has evolved to include not only the assessment of impacts on the ecosystems and biodiversity but also the assessment of impacts on humans and their diverse societies, cultures, and settlements as well as social changes in population and economies.

IPCC Sixth Assessment Report, <https://www.ipcc.ch/report/sixth-assessment-report-cycle/>

Objectives

In view of the findings of AR6, the Advanced Study of Climate Change Projection (SENTAN), which comprises a number of research institutes in Asia and the Pacific, aims to achieve the integration of hazard models focusing on storm-and-flood hazards and water resources. In particular, it aims to develop a climate change impact projection model of extreme weather events (e.g., storms and floods) that is downscaled to Japan and Asia-Pacific region. This study will assess the effects of extreme weather events and analyze the changes of hazards with rising temperature, as downscaled to Japan and Asia-Pacific region.

Against this backdrop, the SENTAN project is organizing a series of webinars that will serve as venue to:

- present the framework of hazard-related weather information (developed by SENTAN) to be applied to climate change adaptation
- share the products of climate change projections and improve climate change literacy among DRR practitioners, researchers, and engineers

REGISTRATION

For registration, please scan this QR code or visit the link below and fill out the registration form



https://bit.ly/SentanProArea4_5th

CERTIFICATE

Register and attend workshops and receive a Certificate of Participation. For application of the Certificate:



https://bit.ly/ReqForm_Sentan_5th_Certificate

*The deadline for submitting the request form is 6 March 2026 (Fri).

SentanPro Website

Conference Documents are available at

<http://www.castr.dpri.kyoto-ac.jp/sentan4/webinar/index.html>

 sentanpro@adrc.asia

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SPEAKERS :



The outline of the Advanced Climate Research Project (SENTAN Program) and the impact of global warming on storm surges and waves

Prof. MORI Nobuhito

Professor, Research Center for Climate Change Adaptation Strategy, Disaster Prevention Research Institute, Kyoto University



Mitigating climate-driven urban flood responses: a laboratory-based physical modelling approach

Dr. Haksoo Kim

Senior Research Officer, Disaster Safety Experiment Center, National Disaster Management Research Institute (NDMI)



Flood Hazard Assessment toward Community-Based Management in River Basins Outside Japan

Prof. KOBAYASHI Kenichiro

Professor, Graduate School of Science and Engineering, Civil and Environmental Engineering Program, Saitama University



Experimental Validation-Based Vulnerability Assessment and Mitigation Method Development for Mass-movement Disaster

Dr. Jaejung Kim

Research Officer, Disaster Safety Experiment Center, National Disaster Management Research Institute (NDMI)



Projection of Multiscale River Flood Changes Across Japan using Ensemble Climate Dataset

Prof. SAYAMA Takahiro

Professor, Research Division of Disaster Management for Safe and Secure Society, Disaster Prevention Research Institute, Kyoto University



Drought management in Korea: Current trends and NDMI's R&D

Dr. Hyeon Cheol Yoon

Research Officer, National Integrated Drought Center, National Disaster Management Research Institute (NDMI)



Adaptation strategies based on predictions of future changes in hazards and society

Prof. FUJIMI Toshio

Associate Professor, Research Center for Climate Change Adaptation Strategy, Disaster Prevention Research Institute, Kyoto University



Integrated Urban Flood Monitoring for Disaster Risk Reduction: RAINSYS & RainMe

Ms. Hyejin Moon

Senior Researcher, Disaster Prevention Research Division, National Disaster Management Research Institute (NDMI)



Wrap-up & Closing remarks

Prof. TACHIKAWA Yasuto

Professor, Department of Civil and Earth Resources Engineering, Graduate School of Engineering, Kyoto University

FACILITATORS :



Dr. IKEDA Makoto

Senior Researcher, Research Department, Asian Disaster Reduction Center (ADRC)
Visiting Associate Professor, Kobe University



Dr. Gerald Potutan

Senior Researcher, Research Department, Asian Disaster Reduction Center (ADRC)
Visiting Associate Professor, Kobe University

