



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

*First Webinar with the Fiji Meteorological Service*

**2023  
August 28**

**10:00 - 12:00**  
[Japan Time, UTC+9]

**13:00 - 15:00**  
[Fiji Time, UTC+12]

## REGISTRATION

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

<https://bit.ly/SentanProArea4>



## 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.<sup>[1]</sup> 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.

<sup>[1]</sup> 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



# Agenda



## ***Introduction of Japan's National Climate Program (SENTAN Program) and Case Study on Fiji***

### **Prof MORI Nobuhito**

Professor  
Research Division of Atmospheric and Hydrospheric Disasters,  
Disaster Prevention Research Institute, Kyoto University



## ***How are future climates projected under a global warming in a computer?***

### **Dr NAKAEGAWA Toshiyuki**

Head  
Second laboratory, Department of Applied Meteorology Research,  
Meteorological Research Institute (MRI), Japan Meteorological Agency (JMA)



## ***Dynamical downscaling of climate projection data***

### **Dr MURATA Akihiko**

Head  
First Laboratory, Department of Applied Meteorology Research,  
Meteorological Research Institute (MRI), Japan Meteorological Agency (JMA)



## ***Platforms on Water Resilience and Disasters for Social Sustainability***

### **Mr MORI Noriyuki**

Deputy Director  
International Center for Water Hazard and Risk Management (ICHARM) Japan



## ***Climate Change Impacts in Fiji***

### **Mr Jasneel Chandra**

Scientific Officer- Climatology  
Fiji Meteorological Service (FMS)



## ***Closing remarks & Wrap-up***

### **Prof TACHIKAWA Yasuto**

Professor  
Hydrology and Water Resources Research Laboratory,  
Kyoto University

## ***Facilitator***

### **Prof KOBAYASHI Kenichiro**

Associate Professor  
Risk Communication Research Department, Security  
Research Communication Group, Research Center for  
Urban Safety and Security, Kobe University



### **Dr Gerald Potutan**

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

