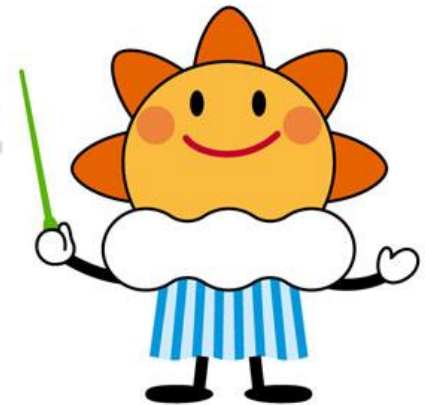


# TCC Training Seminar on Global Warming Projection Information

**9, 10, and 15 November 2022**  
**Tokyo Climate Center**  
**Japan Meteorological Agency**



**Session will begin at 14:00 (UTC+9)**

Bangladesh	-3.00 hrs. (Start at 11:00 am)	Nepal	-3.15 hrs. (Start at 10:45 am)
Bhutan	-3.00 hrs. (Start at 11:00 am)	Philippines	-1.00 hrs. (Start at 01:00 pm)
Indonesia	-2.00 hrs. (Start at noon)	Thailand	-2.00 hrs. (Start at noon)
Malaysia	-1.00 hrs. (Start at 01:00 pm)	Viet Nam	-2.00 hrs. (Start at noon)
Mongolia	-1.00 hrs. (Start at 01:00 pm)	Hong Kong, China	-1.00 hrs. (Start at 01:00 pm)

# List of Participants (Test Call: 8 Nov-1)

Please set your displayed name in the format “[Country/Region] Name”

Name	Country/Region	Attending?	Session will begin at
<b>Mr. MD. Bazlur Rashid</b>	Bangladesh		11:00 am
<b>Ms. Monju Subba</b>	Bhutan		11:00 am
<b>Ms. Phuntsho Wangmo</b>	Bhutan (Observer)		11:00 am
<b>Mr. Wai Po Tse</b>	Hong Kong, China		01:00 pm
<b>Ms. Linda Natalia So'langi</b>	Indonesia		noon
<b>Ms. Apriliana Rizqi Fauziyah</b>	Indonesia (Observer)		noon
<b>Ms. Dyni Frina Meisda</b>	Indonesia (Observer)		noon
<b>Ms. Leni Nazarudin</b>	Indonesia (Observer)		noon
<b>Mr. Muhammad Sudirman</b>	Indonesia (Observer)		noon
<b>Ms. Noveta Chandra Isti Puspita</b>	Indonesia (Observer)		noon
<b>Ms. Neng Alia</b>	Indonesia (Observer)		noon
<b>Ms. Noor Azura Binti Ismail</b>	Malaysia		01:00 pm

Tomorrow, please enter the virtual meeting room “TCC Training Seminar / 9 Nov / 1400-1715 JST” 25 minutes before the first session starts.

# List of Participants (Test Call: 8 Nov-2)

Please set your displayed name in the format “[Country/Region] Name”

Name	Country/Region	Attending?	Session will begin at
<b>Mr. Akhmyetali Khamshybai</b>	Mongolia		01:00 pm
<b>Mr. Batdorj Dashdondog</b>	Mongolia (Observer)		01:00 pm
<b>Mr. Enkhbat Erdenebat</b>	Mongolia (Observer)		01:00 pm
<b>Ms. Tergel Shijirtuya</b>	Mongolia (Observer)		01:00 pm
<b>Mr. Sudarshan Humagain</b>	Nepal		10:45 am
<b>Mr. Meliton Pio Guzman</b>	Philippines		01:00 pm
<b>Mr. Chaowat Siwapornchai</b>	Thailand		noon
<b>Ms. Kesrin Hanprasert</b>	Thailand (observer)		noon
<b>Ms. Apinya Chaila</b>	Thailand (observer)		noon
<b>Ms. Nichanun Trachow</b>	Thailand (observer)		noon
<b>Ms. Hathaichanok Wongpongsakorn</b>	Thailand (observer)		noon
<b>Ms. Tran Ngoc Van</b>	Viet Nam		noon

Tomorrow, please enter the virtual meeting room “TCC Training Seminar / 9 Nov / 1400-1715 JST” 25 minutes before the first session starts.

# List of Participants (TCC Training Seminar: 9 Nov-1)

Please set your displayed name in the format "[Country/Region] Name"

Name	Country/Region	Attending?	Presentation (UTC+9)
<b>Mr. MD. Bazlur Rashid</b>	Bangladesh		11/15 14:00-14:09
<b>Ms. Monju Subba</b>	Bhutan		11/15 14:10-14:19
<b>Ms. Phuntsho Wangmo</b>	Bhutan (Observer)		
<b>Mr. Wai Po Tse</b>	Hong Kong, China		11/15 14:20-14:29
<b>Ms. Linda Natalia So'langi</b>	Indonesia		11/15 14:30-14:39
<b>Ms. Apriliana Rizqi Fauziyah</b>	Indonesia (Observer)		
<b>Ms. Dyni Frina Meisda</b>	Indonesia (Observer)		
<b>Ms. Leni Nazarudin</b>	Indonesia (Observer)		
<b>Mr. Muhammad Sudirman</b>	Indonesia (Observer)		
<b>Ms. Noveta Chandra Isti Puspita</b>	Indonesia (Observer)		
<b>Ms. Neng Alia</b>	Indonesia (Observer)		
<b>Ms. Noor Azura Binti Ismail</b>	Malaysia		11/15 14:40-14:50

**Session will begin at 14:00 (UTC+9)**

# List of Participants (TCC Training Seminar: 9 Nov-2)

Please set your displayed name in the format "[Country/Region] Name"

Name	Country/Region	Attending?	Presentation (UTC+9)
<b>Mr. Akhmyetali Khamshybai</b>	Mongolia		11/15 16:00-16:09
<b>Mr. Batdorj Dashdondog</b>	Mongolia (Observer)		
<b>Mr. Enkhbat Erdenebat</b>	Mongolia (Observer)		
<b>Ms. Tergel Shijirtuya</b>	Mongolia (Observer)		
<b>Mr. Sudarshan Humagain</b>	Nepal		11/15 16:10-16:19
<b>Mr. Meliton Pio Guzman</b>	Philippines		11/15 16:20-16:29
<b>Mr. Chaowat Siwapornchai</b>	Thailand		11/15 16:30-16:39
<b>Ms. Kesrin Hanprasert</b>	Thailand (observer)		
<b>Ms. Apinya Chaila</b>	Thailand (observer)		
<b>Ms. Nichanun Trachow</b>	Thailand (observer)		
<b>Ms. Hathaichanok Wongpongsakorn</b>	Thailand (observer)		
<b>Ms. Tran Ngoc Van</b>	Viet Nam		11/15 16:40-16:49

**Session will begin at 14:00 (UTC+9)**

# List of Participants (TCC Training Seminar: 10 Nov-1)

Please set your displayed name in the format "[Country/Region] Name"

Name	Country/Region	Attending?	Presentation (UTC+9)
<b>Mr. MD. Bazlur Rashid</b>	Bangladesh		11/15 14:00-14:09
<b>Ms. Monju Subba</b>	Bhutan		11/15 14:10-14:19
<b>Ms. Phuntsho Wangmo</b>	Bhutan (Observer)		
<b>Mr. Wai Po Tse</b>	Hong Kong, China		11/15 14:20-14:29
<b>Ms. Linda Natalia So'langi</b>	Indonesia		11/15 14:30-14:39
<b>Ms. Apriliana Rizqi Fauziyah</b>	Indonesia (Observer)		
<b>Ms. Dyni Frina Meisda</b>	Indonesia (Observer)		
<b>Ms. Leni Nazarudin</b>	Indonesia (Observer)		
<b>Mr. Muhammad Sudirman</b>	Indonesia (Observer)		
<b>Ms. Noveta Chandra Isti Puspita</b>	Indonesia (Observer)		
<b>Ms. Neng Alia</b>	Indonesia (Observer)		
<b>Ms. Noor Azura Binti Ismail</b>	Malaysia		11/15 14:40-14:50

**Session will begin at 14:00 (UTC+9)**

# List of Participants (TCC Training Seminar: 10 Nov-2)

Please set your displayed name in the format "[Country/Region] Name"

Name	Country/Region	Attending?	Presentation (UTC+9)
<b>Mr. Akhmyetali Khamshybai</b>	Mongolia		11/15 16:00-16:09
<b>Mr. Batdorj Dashdondog</b>	Mongolia (Observer)		
<b>Mr. Enkhbat Erdenebat</b>	Mongolia (Observer)		
<b>Ms. Tergel Shijirtuya</b>	Mongolia (Observer)		
<b>Mr. Sudarshan Humagain</b>	Nepal		11/15 16:10-16:19
<b>Mr. Meliton Pio Guzman</b>	Philippines		11/15 16:20-16:29
<b>Mr. Chaowat Siwapornchai</b>	Thailand		11/15 16:30-16:39
<b>Ms. Kesrin Hanprasert</b>	Thailand (observer)		
<b>Ms. Apinya Chaila</b>	Thailand (observer)		
<b>Ms. Nichanun Trachow</b>	Thailand (observer)		
<b>Ms. Hathaichanok Wongpongsakorn</b>	Thailand (observer)		
<b>Ms. Tran Ngoc Van</b>	Viet Nam		11/15 16:40-16:49

**Session will begin at 14:00 (UTC+9)**

# List of Participants (TCC Training Seminar: 15 Nov-1)

Please set your displayed name in the format "[Country/Region] Name"

Name	Country/Region	Attending?	Presentation (UTC+9)
<b>Mr. MD. Bazlur Rashid</b>	Bangladesh		11/15 14:00-14:09
<b>Ms. Monju Subba</b>	Bhutan		11/15 14:10-14:19
<b>Ms. Phuntsho Wangmo</b>	Bhutan (Observer)		
<b>Mr. Wai Po Tse</b>	Hong Kong, China		11/15 14:20-14:29
<b>Ms. Linda Natalia So'langi</b>	Indonesia		11/15 14:30-14:39
<b>Ms. Apriliana Rizqi Fauziyah</b>	Indonesia (Observer)		
<b>Ms. Dyni Frina Meisda</b>	Indonesia (Observer)		
<b>Ms. Leni Nazarudin</b>	Indonesia (Observer)		
<b>Mr. Muhammad Sudirman</b>	Indonesia (Observer)		
<b>Ms. Noveta Chandra Isti Puspita</b>	Indonesia (Observer)		
<b>Ms. Neng Alia</b>	Indonesia (Observer)		
<b>Ms. Noor Azura Binti Ismail</b>	Malaysia		11/15 14:40-14:50

**Session will begin at 14:00 (UTC+9)**



Please set your displayed name in the format "[Country/Region] Name"

Name	Country/Region	Attending?	Presentation (UTC+9)
<b>Mr. Akhmyetali Khamshybai</b>	Mongolia		11/15 16:00-16:09
<b>Mr. Batdorj Dashdondog</b>	Mongolia (Observer)		
<b>Mr. Enkhbat Erdenebat</b>	Mongolia (Observer)		
<b>Ms. Tergel Shijirtuya</b>	Mongolia (Observer)		
<b>Mr. Sudarshan Humagain</b>	Nepal		11/15 16:10-16:19
<b>Mr. Meliton Pio Guzman</b>	Philippines		11/15 16:20-16:29
<b>Mr. Chaowat Siwapornchai</b>	Thailand		11/15 16:30-16:39
<b>Ms. Kesrin Hanprasert</b>	Thailand (observer)		
<b>Ms. Apinya Chaila</b>	Thailand (observer)		
<b>Ms. Nichanun Trachow</b>	Thailand (observer)		
<b>Ms. Hathaichanok Wongpongsakorn</b>	Thailand (observer)		
<b>Ms. Tran Ngoc Van</b>	Viet Nam		11/15 16:40-16:49

**Session will begin at 14:00 (UTC+9)**

TCC Training Seminar  
9 November 2022, Tokyo (Online)

# Outline and scope of this seminar

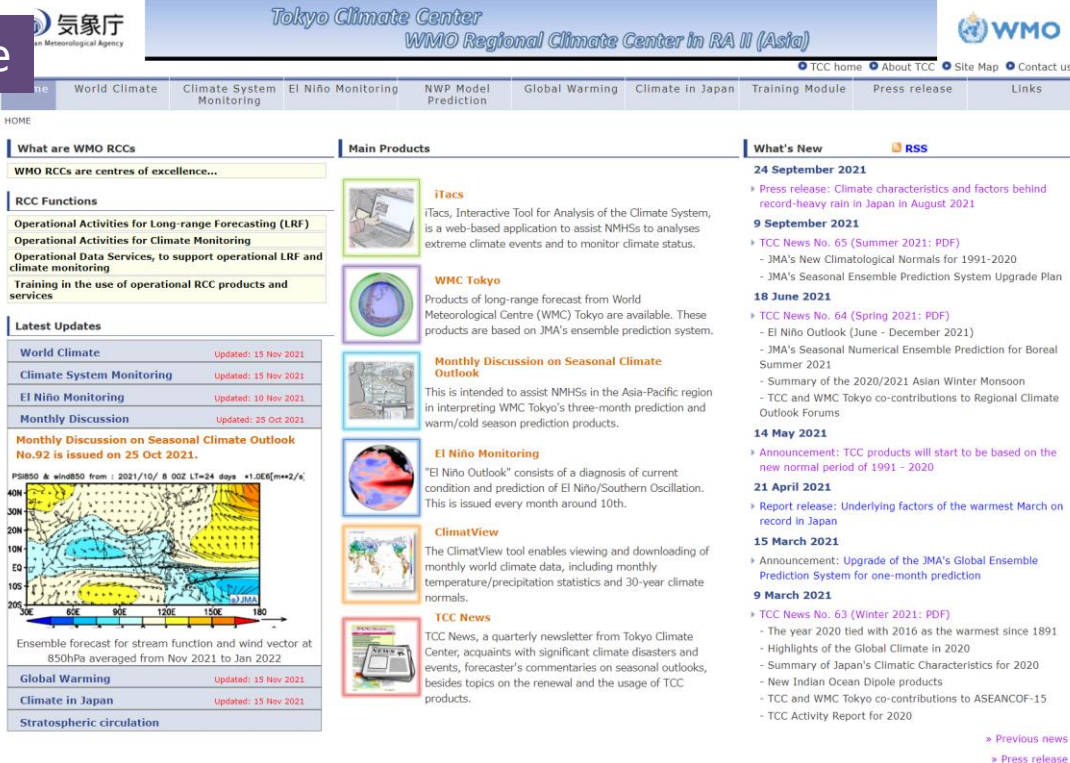
TAKAHASHI Kiyotoshi

Tokyo Climate Center, Japan Meteorological Agency

# A brief overview of Tokyo Climate Center

- TCC serves as a WMO Regional Climate Centre in the RA II.
- TCC supports NMHSs through data/information provision and capacity development activities.

**TCC website**



The screenshot shows the Tokyo Climate Center website homepage. At the top, there is a navigation bar with the JMA logo, the text "Tokyo Climate Center WMO Regional Climate Center in RA II (Asia)", and the WMO logo. Below the navigation bar, there are several main sections:

- What are WMO RCCs**: A section explaining that WMO RCCs are centres of excellence.
- RCC Functions**: A list of functions including Operational Activities for Long-range Forecasting (LRF), Operational Activities for Climate Monitoring, Operational Data Services, and Training in the use of operational RCC products and services.
- Latest Updates**: A table listing recent updates for various services:

Service	Updated
World Climate	Updated: 15 Nov 2021
Climate System Monitoring	Updated: 15 Nov 2021
El Niño Monitoring	Updated: 10 Nov 2021
Monthly Discussion	Updated: 25 Oct 2021
- Main Products**: A section featuring several products:
  - iTacs**: Interactive Tool for Analysis of the Climate System, a web-based application for extreme climate events.
  - WMC Tokyo**: Products of long-range forecast from World Meteorological Centre (WMC) Tokyo.
  - Monthly Discussion on Seasonal Climate Outlook**: Intended to assist NMHSs in the Asia-Pacific region.
  - El Niño Monitoring**: "El Niño Outlook" consists of a diagnosis of current condition and prediction of El Niño/Southern Oscillation.
  - ClimatView**: Tool for viewing and downloading of monthly world climate data.
  - TCC News**: A quarterly newsletter from Tokyo Climate Center.
- What's New**: A section with an RSS icon, listing recent news items with dates and brief descriptions, such as "24 September 2021" and "9 September 2021".

At the bottom of the screenshot, there is a large blue button with the URL: <https://www.data.jma.go.jp/tcc/tcc/index.html>

<https://www.data.jma.go.jp/tcc/tcc/index.html>

- Purpose
  - To provide participants with basic and latest knowledge about Global Warming and its Projection
  - To improve participants' skills in generating Global Warming Projection Information using detection technics of warming trends/signals

## Day 1 - Wednesday, 9 November

14:00-14:05 (UTC+9)	1. Opening <ul style="list-style-type: none"><li>- Welcome Address</li><li>- Group photo shooting</li></ul>
14:05-14:10 (UTC+9)	2. Introduction: Outline and scope of the Training Seminar
14:10-15:10 (UTC+9)	3. Lecture: "Introduction to Global Warming Projection" for experts on basis of global warming analysis information
15:10-16:10 (UTC+9)	Break
16:10-16:15 (UTC+9)	Introduction of JMA
16:15-17:15 (UTC+9)	4. Lecture: Outline of IPCC AR6

# Schedule of this Seminar (10 Nov. 2022)

Please enter the virtual meeting room "TCC Training Seminar / 10 Nov / 1400-1710 JST"  
5 minutes before the first session starts.

Bangladesh	-3.00 hrs. (Start at 11:00 am)	Nepal	-3.15 hrs. (Start at 10:45 am)
Bhutan	-3.00 hrs. (Start at 11:00 am)	Philippines	-1.00 hrs. (Start at 01:00 pm)
Indonesia	-2.00 hrs. (Start at noon)	Thailand	-2.00 hrs. (Start at noon)
Malaysia	-1.00 hrs. (Start at 01:00 pm)	Viet Nam	-2.00 hrs. (Start at noon)
Mongolia	-1.00 hrs. (Start at 01:00 pm)	Hong Kong, China	-1.00 hrs. (Start at 01:00 pm)

## Day 2 - Thursday, 10 November

14:00-15:00 (UTC+9)	5. Lecture: Guidance to Global Warming Projection data
15:00-16:00 (UTC+9)	Break
16:00-17:10 (UTC+9)	6. Lecture: Production of Global Warming Projection Information <ul style="list-style-type: none"><li>- Introduction of the global warming projection data</li><li>- Explanation of the exercise</li><li>- Example of detecting warming signals</li></ul>

**A prototype of presentation material will be provided**

# Schedule of this Seminar (11-14 Nov. 2022)

- Trainees (other than observers) are asked to work **in a form of self-study to make their presentations.**
- TCC will provide answers to inquiries on how to use our analysis tool and how to interpret forecasted data, through email (**[tcc@met.kishou.go.jp](mailto:tcc@met.kishou.go.jp)**).

Please upload your presentation material to the designated storage by 14 Nov. at 17:00.

## Day 3 - Friday, 11 November

Taking questions from trainees through Email

8. Exercise: Generating global warming projection information for your country  
- Preparation for presentation (self-study format)

## Day 4 - Monday, 14 November

Taking questions from trainees through Email

8. Exercise: Generating global warming projection information for your country (cont.)  
- Preparation for presentation (self-study format)

# Schedule of this Seminar (15 Nov. 2022)

Please enter the virtual meeting room "TCC Training Seminar / 15 Nov / 1400-1710 JST" 5 minutes before the first session starts.

Bangladesh	-3.00 hrs. (Start at 11:00 am)	Nepal	-3.15 hrs. (Start at 10:45 am)
Bhutan	-3.00 hrs. (Start at 11:00 am)	Philippines	-1.00 hrs. (Start at 01:00 pm)
Indonesia	-2.00 hrs. (Start at noon)	Thailand	-2.00 hrs. (Start at noon)
Malaysia	-1.00 hrs. (Start at 01:00 pm)	Viet Nam	-2.00 hrs. (Start at noon)
Mongolia	-1.00 hrs. (Start at 01:00 pm)	Hong Kong, China	-1.00 hrs. (Start at 01:00 pm)

## Day 5 - Tuesday, 15 November

14:00-15:00 (UTC+9)	8. Presentation by participants (5 participants) - Presentation (6 min.) followed by Q&A (3 min.)	<b>Presentation!</b>
15:00-16:00 (UTC+9)		
16:00-17:00 (UTC+9)	8. Presentation by participants (cont.) (5 participants) - Presentation (6 min.) followed by Q&A (3 min.)	<b>Presentation!</b>
17:00-17:10 (UTC+9)	9. Wrap up and closing	

# Some remarks on presentation session

- All speakers are allocated 6 minutes of presentation, followed by 3 minutes of question and answer time.

15 Nov. 2022

Time	Presenter
14:00-14:09	Mr. Rashid Bangladesh
14:10-14:19	Ms. Subba Bhutan
14:20-14:29	Mr. Tse Hong Kong, China
14:30-14:39	Ms. So'langi Indonesia
14:40-14:49	Ms. Ismail Malaysia

15 Nov. 2022

(UTC+9)

Time	Presenter
16:00-16:09	Mr. Khamshybai Mongolia
16:10-16:19	Mr. Humagain Nepal
16:20-16:29	Mr. Guzman Philippines
16:40-16:39	Mr. Siwapornchai Thailand
16:50-16:49	Ms. Tran Viet Nam





The JMA mascot; Harerun

**When you have any difficulties or need help during the course of the seminar, please feel free to contact JMA staff ([tcc@met.kishou.go.jp](mailto:tcc@met.kishou.go.jp)).**

**We are happy to serve you!**