

# Outline and scope of this seminar

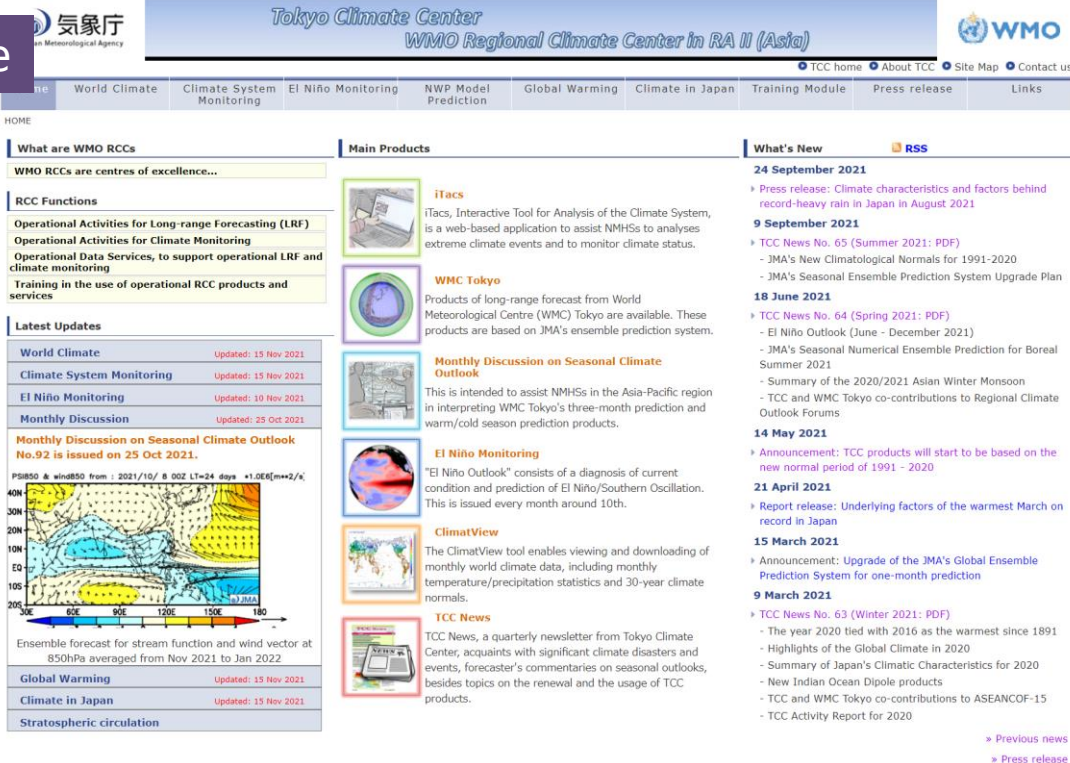
WAKAMATSU Shunya

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 this is a menu with links: Home, World Climate, Climate System Monitoring, El Niño Monitoring, NWP Model Prediction, Global Warming, Climate in Japan, Training Module, Press release, and Links. The main content area is divided into three columns: "What are WMO RCCs", "Main Products", and "What's New".

- What are WMO RCCs**
  - WMO RCCs are centres of excellence...
  - RCC Functions**
    - Operational Activities for Long-range Forecasting (LRF)
    - Operational Activities for Climate Monitoring
    - Operational Data Services, to support operational LRF and climate monitoring
    - Training in the use of operational RCC products and services
  - Latest Updates**
    - 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)
    - Monthly Discussion on Seasonal Climate Outlook No.92 is issued on 25 Oct 2021.**
    - PSIRSO & windRSO from : 2021/10/ 8 00Z LT=24 days +1.0E6(m+2/A)
    - Ensemble forecast for stream function and wind vector at 850hPa averaged from Nov 2021 to Jan 2022
    - Global Warming (Updated: 15 Nov 2021)
    - Climate in Japan (Updated: 15 Nov 2021)
    - Stratospheric circulation
- Main Products**
  - iTacs**  
iTacs, Interactive Tool for Analysis of the Climate System, is a web-based application to assist NMHSs to analyse extreme climate events and to monitor climate status.
  - WMC Tokyo**  
Products of long-range forecast from World Meteorological Centre (WMC) Tokyo are available. These products are based on JMA's ensemble prediction system.
  - Monthly Discussion on Seasonal Climate Outlook**  
This is intended to assist NMHSs in the Asia-Pacific region in interpreting WMC Tokyo's three-month prediction and warm/cold season prediction products.
  - El Niño Monitoring**  
"El Niño Outlook" consists of a diagnosis of current condition and prediction of El Niño/Southern Oscillation. This is issued every month around 10th.
  - ClimatView**  
The ClimatView tool enables viewing and downloading of monthly world climate data, including monthly temperature/precipitation statistics and 30-year climate normals.
  - TCC News**  
TCC News, a quarterly newsletter from Tokyo Climate Center, acquaints with significant climate disasters and events, forecaster's commentaries on seasonal outlooks, besides topics on the renewal and the usage of TCC products.
- What's New**
  - 24 September 2021**
    - Press release: Climate characteristics and factors behind record-heavy rain in Japan in August 2021
  - 9 September 2021**
    - TCC News No. 65 (Summer 2021): PDF
    - JMA's New Climatological Normals for 1991-2020
    - JMA's Seasonal Ensemble Prediction System Upgrade Plan
  - 18 June 2021**
    - TCC News No. 64 (Spring 2021): PDF
    - El Niño Outlook (June - December 2021)
    - JMA's Seasonal Numerical Ensemble Prediction for Boreal Summer 2021
    - Summary of the 2020/2021 Asian Winter Monsoon
    - TCC and WMC Tokyo co-contributions to Regional Climate Outlook Forums
  - 14 May 2021**
    - Announcement: TCC products will start to be based on the new normal period of 1991 - 2020
  - 21 April 2021**
    - Report release: Underlying factors of the warmest March on record in Japan
  - 15 March 2021**
    - Announcement: Upgrade of the JMA's Global Ensemble Prediction System for one-month prediction
  - 9 March 2021**
    - TCC News No. 63 (Winter 2021): PDF
    - The year 2020 tied with 2016 as the warmest since 1891
    - Highlights of the Global Climate in 2020
    - Summary of Japan's Climatic Characteristics for 2020
    - New Indian Ocean Dipole products
    - TCC and WMC Tokyo co-contributions to ASEANCOF-15
    - TCC Activity Report for 2020

[Previous news](#)  
[Press release](#)

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

- Purpose
  - To familiarize the participants with outputs of JMA's numerical prediction model and tools for one-month forecast
  - To assist the participants in improving skills in generating one-month forecast products using statistical downscaling methods

## Day 1 - Wednesday, 1 December

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 Climatology" for experts on climate analysis information
15:10-16:10 (UTC+9)	Break
16:10-17:10 (UTC+9)	4. Lecture: Seasonal Forecast (One-month Forecast)

# Schedule of this Seminar (2 Dec. 2021)

Please enter the virtual meeting room "TCC Training Seminar / 2 Dec / 1400-1710 JST"  
5 minutes before the first session starts.

Bangladesh	-3.00 hrs. (Start at 11:00 am)	Pakistan	-4.00 hrs. (Start at 10:00 am)
Bhutan	-3.00 hrs. (Start at 11:00 am)	Papua New Guinea	+1.00 hrs. (Start at 03:00 pm)
Indonesia	-2.00 hrs. (Start at noon)	Philippines	-1.00 hrs. (Start at 01:00 pm)
Laos	-2.00 hrs. (Start at noon)	Sri Lanka	-3.30 hrs. (Start at 10:30 am)
Malaysia	-1.00 hrs. (Start at 01:00 pm)	Thailand	-2.00 hrs. (Start at noon)
Mongolia	-1.00 hrs. (Start at 01:00 pm)	Viet Nam	-2.00 hrs. (Start at noon)
Nepal	-3.15 hrs. (Start at 10:45 am)	Hong Kong, China	-1.00 hrs. (Start at 01:00 pm)

## Day 2 - Thursday, 2 December

14:00-15:00 (UTC+9)	5. Lecture: Introduction of one-month forecast guidance
15:00-16:00 (UTC+9)	Break
16:00-17:00 (UTC+9)	6. Lecture: Interpretation of guidance, verification result and outputs from Numerical Prediction System (NWP)
17:00-17:10 (UTC+9)	7. Explanation on exercise for generating one-month forecast for your country - How to prepare your presentation

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

# Schedule of this Seminar (3-6 Dec. 2021)

- 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 6 Dec. at 17:00.

## Day 3 - Friday, 3 December

Taking questions from trainees through Email

8. Exercise: Generating one-month forecast for your country  
- Preparation for presentation (self-study format)

## Day 4 - Monday, 6 December

Taking questions from trainees through Email

8. Exercise: Generating one-month forecast for your country (cont.)  
- Preparation for presentation (self-study format)

# Schedule of this Seminar (7 Dec. 2021)

Please enter the virtual meeting room "TCC Training Seminar / 7 Dec / 1400-1710 JST"  
5 minutes before the first session starts.

Bangladesh	-3.00 hrs. (Start at 11:00 am)	Pakistan	-4.00 hrs. (Start at 10:00 am)
Bhutan	-3.00 hrs. (Start at 11:00 am)	Papua New Guinea	+1.00 hrs. (Start at 03:00 pm)
Indonesia	-2.00 hrs. (Start at noon)	Philippines	-1.00 hrs. (Start at 01:00 pm)
Laos	-2.00 hrs. (Start at noon)	Sri Lanka	-3.30 hrs. (Start at 10:30 am)
Malaysia	-1.00 hrs. (Start at 01:00 pm)	Thailand	-2.00 hrs. (Start at noon)
Mongolia	-1.00 hrs. (Start at 01:00 pm)	Viet Nam	-2.00 hrs. (Start at noon)
Nepal	-3.15 hrs. (Start at 10:45 am)	Hong Kong, China	-1.00 hrs. (Start at 01:00 pm)

## Day 5 - Tuesday, 7 December

14:00-15:00 (UTC+9)	9. Presentation by participants (7 participants) - Presentation (5 min.) followed by Q&A (3 min.)	<b>Presentation!</b>
15:00-16:00 (UTC+9)	Break	
16:00-17:00 (UTC+9)	9. Presentation by participants (cont.) (7 participants) - Presentation (5 min.) followed by Q&A (3 min.)	<b>Presentation!</b>
17:00-17:10 (UTC+9)	10. Wrap up and closing	

# Some remarks on presentation session

- All speakers are allocated 5 minutes of presentation, followed by 3 minutes of question and answer time.

(UTC+9)

7 Dec. 2021

14:00-14:08	Ms. Tran Viet Nam
14:08-14:16	Ms. Tracho Thailand
14:16-14:24	Mr. Peiris Sri Lanka
14:24-14:32	Ms. Escol-Canlas Philippines
14:32-14:40	Mr. Guri Papua New Guinea
14:40-14:48	Mr. Virk Pakistan
14:48-14:56	Mr. Pradhananga Nepal

7 Dec. 2021

16:00-16:08	Ms. Shijirtuyaa Mongolia
16:08-16:16	Ms. Suhaili Malaysia
16:16-16:24	Ms. Misomphane Lao PDR
16:24-16:32	Ms. Damayanti Indonesia
16:32-16:40	Ms. CHAN Hong Kong, China
16:40-16:48	Mr. Chopel Bhutan
16:48-16:56	Dr. Mallik Bangladesh



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!**