

**WMO OMM**

World Meteorological Organization
Organisation météorologique mondiale
Organización Meteorológica Mundial
Всемирная метеорологическая организация
المنظمة العالمية للأرصاد الجوية
世界气象组织

Secrétariat

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17 July 2026

Annex: 1 (available in English only)

Subject: Online Workshop on High-resolution Climate Modelling,
14 to 22 December 2026

Action required: For information and appropriate action, no later than **25 September 2026**

Dear Sir/Madam,

I am pleased to inform you that the Online Workshop on High-resolution Climate Modelling will be conducted from 14 to 22 December 2026. The workshop will be organized by the WMO Regional Training Centre (RTC) Bet-Dagan, Israel, in cooperation with Israel's Agency for International Development Cooperation (MASHAV), and with expert support from the Deutscher Wetterdienst (DWD), Germany.

The workshop is intended for researchers, climatologists, forecasters, hydrologists and climate service providers from National Meteorological and Hydrological Services (NMHSs) in developing countries. It aims to strengthen participants' ability to understand and evaluate climate models, and to familiarize them with the fundamentals of dynamical downscaling using convection-permitting models for weather and climate prediction. It will also introduce the Climate Limited-area Modelling Community (CLM Community) and AI-based approaches to downscaling. Participants will also gain hands-on experience in model data manipulation, including statistical downscaling techniques for producing climate change indices.

The workshop content is aligned with the guidance provided in the [Step-by-step Guidelines for Establishing a National Framework for Climate Services](#) (WMO-No. 1206). It will be conducted online and delivered in English. Further details, including participation requirements and application procedures, are provided in the [annex](#). Interested candidates are kindly requested to complete the [online Participant Application Form](#) as soon as possible but no later than **25 September 2026**.

The Secretariat would appreciate your assistance in bringing this training opportunity to the attention of interested candidates in your Service and in facilitating the nomination process.

Yours faithfully,

Prof. Celeste Saulo
Secretary-General

To: Permanent Representatives of Members with WMO

cc: Hydrological Advisers

Course Information

Online Workshop on High-resolution Climate Modelling

14–22 December 2026

1. Introduction

In line with the Global Framework for Climate Services (GFCS) initiative to strengthen the production and use of science-based climate information, the Online Workshop on High-Resolution Climate Modelling aims to enhance understanding of how high-resolution climate data are generated and applied.

Participants will enhance their knowledge and strengthen their capacity to coordinate, develop, deliver and use climate services to support decision-making and address climate-related risks at regional and national levels.

The workshop is a joint initiative of the Israel Meteorological Service (IMS) and Israel's Agency for International Development Cooperation (MASHAV), with contributions from Deutscher Wetterdienst (DWD, the German weather service). It is designed for postgraduate-level meteorologists or hydrologists working in National Meteorological and Hydrological Services (NMHSs) in developing countries.

2. Course objectives

- a) Develop participants' ability to understand and critically evaluate climate models.
- b) Introduce the fundamentals of dynamical downscaling using convection-permitting models for both weather and climate applications.
- c) Present the Climate Limited-area Modelling Community and its activities.
- d) Provide an overview of AI-based approaches for downscaling.
- e) Provide hands-on experience in model data processing, including statistical downscaling techniques for generating climate change indices.

3. Course outcomes

- a) Participants will gain practical knowledge on climate modeling.
- b) Participants will understand the limitations and challenges faced by NMHSs in providing climate change projections.
- c) Participants will understand climate change indices for extreme events.
- d) Equipped with an understanding of the strengths and limitations of climate modelling, participants will be able to make informed decisions when assessing local climate change.

4. Course format

Synchronous lectures and practical exercises.

5. Participation cost

The workshop is free of charge.

6. Training staff

The course will be conducted by senior staff from IMS and DWD, who will share their knowledge and experience.

7. Audience

The workshop is aimed at forecasters, climatologists, hydrologists and researchers from NMHSs and research institutions in developing countries.

8. Language

The workshop will be held in English. A working knowledge of English is mandatory.

9. Student assessment

- A minimum of 90% attendance is required.
- Participants should have all technical accessories for complete and active participation throughout the online course.
- For hands-on exercises, participants should have R installed on their computers, and installation of RStudio is recommended.
- Participants will complete assignments and undertake a final project for their region.
- Upon successful completion, a certificate will be awarded.

10. Registration

Interested candidates are requested to complete the [online Participant Application Form](https://forms.gle/VR8SZoZXNoaCbqiN9) (<https://forms.gle/VR8SZoZXNoaCbqiN9>) no later than **25 September 2026**.

For further information, please contact:

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