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2025 年 7 月 4 日

附件: 1 (仅以英文提供)

主题: 全球工具洪水与干旱预测工具利用在线研习会

尊敬的先生/女士,

我谨通知你, 以色列区域培训中心(RTC)将与以色列国际开发合作署(MASHAV)合作, 于 2025 年 12 月 8 至 11 日举办全球洪水与干旱预测工具利用在线研习会。

研习会的对象是来自发展中国家国家气象水文部门(NMHS)的预报员、气候学家、水文学家和研究人员。研习会旨在探索全球洪水与干旱预测工具, 使学员熟悉免费提供的用于洪水与干旱分析和预报的基本工具和技术。

本次研习会的议题以《WMO 胜任力框架纲要》(WMO-No. 1209)中的气候服务胜任力要求为基础。

研习会将以英语在线进行, 其详细信息(包括要求和申请流程)详见[附件](#)。

请有意向的候选人于 **2025 年 9 月 26 日**前填妥研习会的[在线注册表](#)。

谨上

席列斯特·绍罗教授  
秘书长

致: WMO 会员常任代表

抄送: 水文顾问

**ONLINE WORKSHOP ON  
USING GLOBAL TOOLS FOR FLOOD AND DROUGHT PREDICTIONS  
8–11 December 2025**

Ref.: 08607/2025-1.4 SI

**1. Introduction**

In line with the WMO *Early Warnings for All initiative*, floods and drought remain among the most challenging hazards to forecast, particularly flash floods. Flash floods account for approximately 85% of all flood events and have the highest mortality rate of any flood type. They occur suddenly, with less than six hours between the triggering event and the onset of flooding, making real-time forecasting (nowcasting) critical. These floods are typically short in duration but extremely intense, often featuring a high peak discharge. Their destructive force is immense, capable of altering river courses, burying structures in mud, and sweeping away everything in their path.

Drought is one of the most devastating natural hazards worldwide, with far-reaching impacts on agriculture, water resources, ecosystems, economies, and human health. It has caused billions of dollars in economic losses and triggered severe indirect consequences, including malnutrition, disease outbreaks, and population displacement.

Floods and drought are complex hydrometeorological events that are difficult to predict. Effectively preparing for them requires expertise in both hydrology and meteorology, along with a deep understanding of local conditions.

This short workshop aims to provide participants with both theoretical knowledge and practical tools to predict floods and drought, issue early warnings, and enhance collaboration among forecasters, and other emergency response personnel. The workshop is a joint initiative of the Israeli Meteorological Service (IMS) and Israel's Agency for International Development Cooperation (MASHAV), with contributions from WMO, the European Commission's Joint Research Centre (JRC) and the European Centre for Medium-Range Weather Forecasts (ECMWF). It is designed for postgraduate-level meteorologists or hydrologists working in National Meteorological and Hydrological Services (NMHSs) in developing countries.

**2. Workshop objectives**

An introduction to key global tools and techniques for forecasting floods and drought, with an emphasis on developing practical proficiency in their application.

**3. Workshop outcomes**

- Participants will gain practical knowledge of online free tools for floods and drought forecasts
- Participants will understand the limitations and challenges faced by NMHSs in providing flood and drought forecasts
- Participants will understand the impact of climate change on floods and drought frequency of occurrence and severity

- Armed with knowledge about flood and drought forecasting tools and their limitations, participants will make informed decisions related to issuing early warnings for all

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#### **4. Course format**

Synchronous lectures and practical exercises.

#### **5. Participation cost**

The workshop is free of charge.

#### **6. Training staff**

The workshop will be conducted by senior staff from IMS, WMO, JRC and ECMWF, who will share their knowledge and experience.

#### **7. Audience**

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

#### **8. Language**

The workshop will be held in English. A working knowledge of English is mandatory. All candidates will be interviewed online before the course.

#### **9. Student assessment**

- A minimum of 90% attendance is required
- The participants should have all technical accessories for a complete and active participation throughout the course
- The students will have mandatory and non-mandatory assignments
- A final project will be conducted

#### **10. Registration**

Interested candidates are requested to complete the [online application form](#) not later than **26 September 2025**.

#### **11. For further information**

Please contact [leviyo@ims.gov.il](mailto:leviyo@ims.gov.il) from RTC in Israel.

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