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Online Workshop on Global Tools for Flood and Drought Prediction

08-10 December 2025

Agenda		
Hour [UTC]	Subject	Lecture
8 Dec. 2025		
7:00 - 7:15	Opening	Mustafa Adiguzel WMO Zehavit Ben Hillel MASHAV Dr. Amir Givati, IMS
07:15 - 8:45	Effects of climate change on the hydrological cycle: Flood and drought	Dr. Amir Givati, IMS
8:45 - 9:00	Coffee break	
9:00 - 9:45	Extreme precipitation and rain intensities: observed and projected trends	Dr. Assaf Zipori, IMS
9:45 - 10:15	Health break	
10:15 - 11:00	Using global hydrological models for flood forecasting at the local scale: A case from Israel	Dr. Amir Givati, IMS
11:00 – 11:15	Coffee break	
11:15 - 12:00	WMO pilot study of Global Riverine Flood Prediction Products	Michael Schwab, WMO
9 Dec. 2025		
7:00 - 7:45	Radar nowcasting tools	Mr. Elyakom Vadislavsky, IMS
7:45 - 8:30	UNSG Early Warnings for All (EW4ALL) initiative	Mr. Cyrille Honoré, WMO
8:30 - 8:45	Coffee break	
8:45 - 9:30	GeoGloWS: hydrological predictions on a global scale	Dr. Angelica Gutierrez, WMO
9:30 - 10:00	Health break	
10:00 - 10:45	Introduction to numerical weather prediction models and data-driven models	Dr. Yoav Levi, IMS
10:45 - 11:00	Coffee break	



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11:00 - 11:45	Drought Monitoring and Forecasting	Mr. Valentin Aich, WMO/GWP
10 Dec. 2025		
7:00 - 8:30	The Global Flood Awareness System GloFAS of the Copernicus Emergency Management Service system. A global flood forecasting tool	Dr. Peter Salamon & Dr. Stefania Grimaldi, JRC
8:30 - 8:45	Coffee break	
8:45 - 10:15	Operational global hydrological sub-seasonal and seasonal forecasting	Christel Prudhomme, Shaun Harrigan, Mohamed Azhar, Ervin Zoster ECMWF
10:15 - 10:45	Health break	
10:45 - 11:15	Summary and discussion	Dr. Amir Givati, IMS
11:15 - 11:45	Feedback and Goodbye	Dr. Amir Givati, IMS

Note: All times listed are in UTC, The final time will be determined to optimise the participants' time zone

Objectives:

An introduction to key global tools and techniques for forecasting floods and droughts, with a focus on developing practical familiarity with their use.

Outcomes:

- Participants will gain practical knowledge of online free tools for floods and droughts forecasts.
- Participants will understand the limitations and challenges faced by NMHS's in providing floods and droughts forecasts.
- Participants will understand the impact of climate change on floods and droughts frequency of occurrence and severity.
- Armed with knowledge about floods and droughts forecasting tools and their limitations, participants will make informed decisions related to issue early warnings for all.



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Moodle Site

With the valued support of **WMO**, we will use the **Moodle learning platform** for this course. All presentations, questionnaires, relevant links, and assignments will be made available there.

If you do not yet have a Moodle account, please create one using the following link:

👉 <https://etrp.wmo.int/>