



Webinar on “Climate Change Impacts: Health, Floods, and Water Scarcity”

19 and 20 November 2024
1:00 pm – 3:00 pm (Cairo Time)

Organized by
The Arab Water Council (AWC) through its Affiliated the Arab Water Academy (AWA)

Concept Note & Agenda

Introduction:

The **Arab Water Council (AWC)** and the **Arab Water Academy (AWA)** (which is affiliated to **AWC**), are pleased to invite you to join our upcoming webinar on a crucial topic that affects us all: “**Climate Change Impacts: Health, Floods, and Water Scarcity**”. This event will explore the profound ways climate change influences global and regional water resources and the pressing issue of human security. The webinar will be convened during two sessions on days 19 and 20 November 2024. The first session on 19 November 2024 on topic “**Climate Change in Arabia: Extreme Heatwaves, and Extreme Flooding!**” and the second session on 20 November 2024 on topic “**How Climate Change Impacts Water Scarcity in the Nile and over the Mediterranean?**”

Prof. Elfatih Eltahir will present the two sessions. **Prof. Elfatih** is H. M. King Bhumibol Professor of Hydrology and Climate, and Professor of Civil and Environmental Engineering at the Massachusetts Institute of Technology (MIT).

Over View of Two Sessions:

Session 1: Climate Change in Arabia: Extreme Heatwaves, and Extreme Flooding!

The region around the Gulf is a hotspot for humid heatwaves. During the webinar event, the presentation and discussions will focus on how climate change may amplify the intensity and frequency of these heatwaves in the future with significant implications to human health. The same region experienced recently, over several locations, extreme flash floods in which a whole year rainfall occurred in one day! The mechanism responsible for such storms will be discussed to shed the light on how climate change may increase the frequency of such events in the future.

Session 2: How Climate Change Impacts Water Scarcity in the Nile and over the Mediterranean?

Water is a vital source of life around the Mediterranean and over the Nile basin. Even under the current climate conditions, these two regions suffer from significant water scarcity. During the webinar event, the presentation and discussions will focus on how climate change may exacerbate this situation, and discuss the physical mechanisms that explain the projected impacts of climate change on availability of water, over these two important regions.

Key Topics Cover:

- The link between climate change and water scarcity
- Regional impacts on water resources and human health
- Strategies for adaptation and resilience in vulnerable communities
- Policy responses and sustainable solutions for a secure future

Why Attend?

This event will bring together climate experts, policy makers, and water management professionals to discuss these urgent issues and explore actionable insights. You will have the opportunity to engage in an interactive Q&A and connect with other participants dedicated to addressing climate challenges.

Session 1

Date: Tuesday 19 November 2024

Time: 1:00 pm – 3:00 pm (Cairo Time)

Session 2

Date: Wednesday 20 November 2024

Time: 1:00 pm – 3:00 pm (Cairo Time)

Registration:

To secure your spot for the two sessions on 19th & 20th of November 2024, please register by 15 November 2024.

<https://zoom.us/meeting/register/tJASduirrDgjHdJUN2LwOp2UW6TxBdTXw4zd>

We look forward to your participation in this timely and important discussion. Together, we can work towards a resilient and sustainable future.

Bio of Prof. Elfatih Eltahir:



Dr. Elfatih Eltahir is H. M. King Bhumibol Professor of Hydrology and Climate, and Professor of Civil and Environmental Engineering at the Massachusetts Institute of Technology (MIT). **Dr. Eltahir** is a recipient of the US Presidential Early Career Award for Scientists and Engineers (PECASE) in 1997; and the Kuwait Prize in Applied Science in 2000 for his work on climate change. He has been elected Fellow of the American Geophysical Union (AGU) in 2008. He received the Hydrologic Sciences Award of the American Geophysical Union in 2017. Elected member of

National Academy of Engineering (2023), fellow of the World Academy of Sciences (2023), and member of the Sudanese National Academy of Sciences

Titles relevant books: "Hotspots for Heat Stress in a Changing Climate: Persian Gulf, South Asia, and Eastern China" (2022); "A Path Forward for Sharing the Nile Water: Sustainable, Smart, Equitable, Incremental" (2019).

Detailed Agenda:

Moderator: Prof. Dr. Abdin Salih , Director of AWA

| Session 1: Tuesday 19 November 2024 | |
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| Time | Agenda Item |
| 1:00 – 1:15 pm | Opening Remarks By: H.E. Prof. Dr. Mahmoud Abu-Zeid President, Arab Water Council |
| 1:15 – 2:00 pm | Session1: “Climate Change in Arabia: Extreme Heatwaves, and Extreme Flooding!” By: Prof. Dr. Elfatih Eltahir Professor of Hydrology and Climate, and Professor of Civil and Environmental Engineering at the Massachusetts Institute of Technology, USA. |
| 2:00 – 2:15 pm | Commentator Prof. Dr. Walid Abderrahman Vice-President, AWC & Professor of Water Resources Engineering and Management, (formerly) King Fahd University of Petroleum and Minerals, Dhahan, KSA |
| 2:15 – 2:50 pm | Open Discussion |
| 2:50 – 3:00 pm | Closing and Wrap-Up By: Prof. Dr. Abdin Salih Director of AWA |
| Session 2: Wednesday 20 November 2024 | |
| Time | Agenda Item |
| 1:00 – 1:10 pm | Opening By: H.E. Dr. Hussein El-Atfy Secretary-General, AWC |
| 1:10 – 2:00 pm | Session2: How Climate Change Impacts Water Scarcity in the Nile and over the Mediterranean? By: Prof. Dr. Elfatih Eltahir Professor of Hydrology and Climate, and Professor of Civil and Environmental Engineering at the Massachusetts Institute of Technology, USA. |
| 2:00 – 2:15 pm | Commentator Prof. Khaled M. AbuZeid, Ph.D., P.E., PMP Senior Regional Water Resources Director, CEDARE, Regional Director for Technical Programs, AWC & Secretary-General, EWP |
| 2:15 – 2:50 pm | Open Discussion |
| 2:50 – 3:00 pm | Closing and Wrap-Up By: Prof. Dr. Abdin Salih Director of AWA |