A HEATED WORLD?! What does that mean for the state of our global water resources?

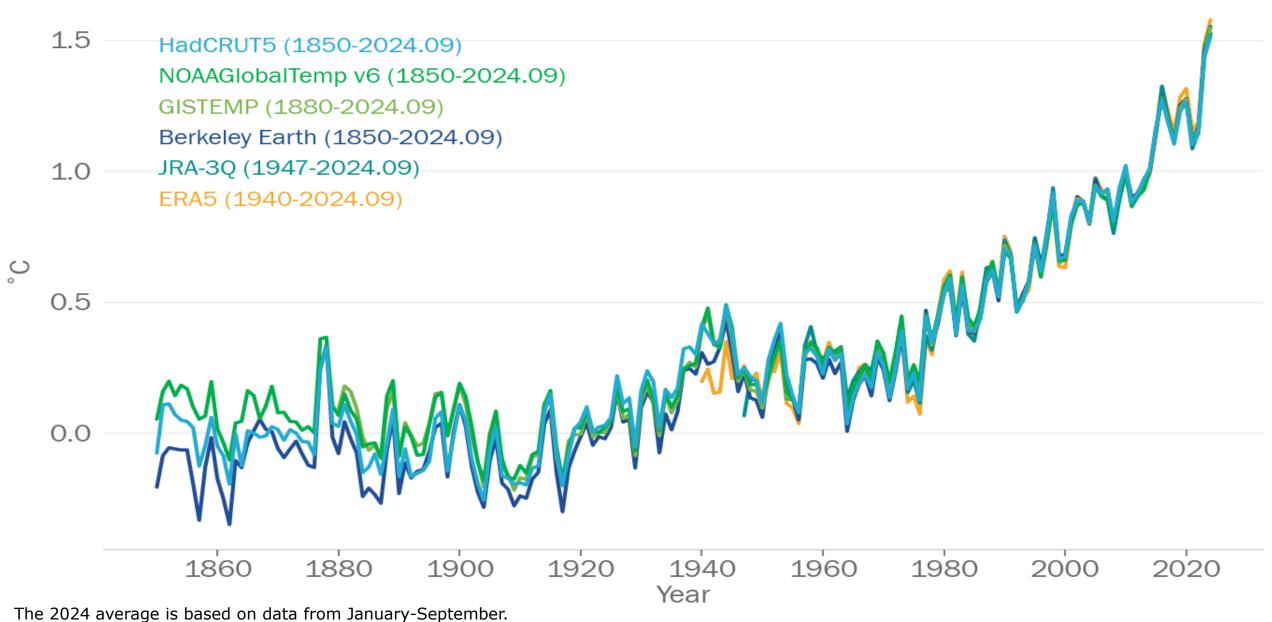
Stefan Uhlenbrook, Sulagna Mishra and MANY others





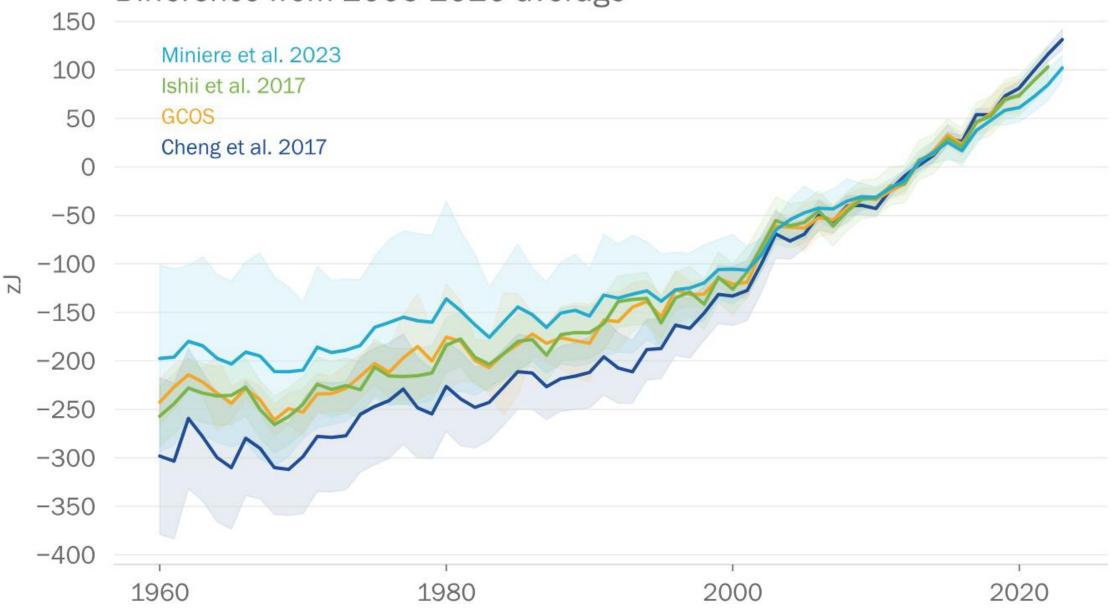


Global mean temperature 1850-2024 Difference from 1850-1900 average



Ocean heat content to 2000m 1960-2023

Difference from 2005-2020 average

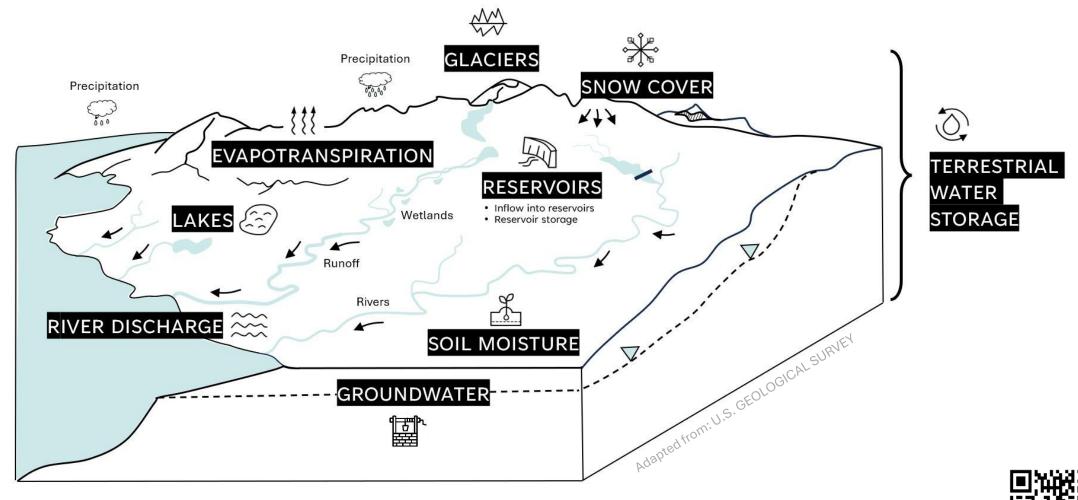


WHAT DOES THE REPORT PROVIDE?

- Provide a quantitative assessment of global water resources in the last year
- Give an overview of status on data availability and data sharing at a global scale (hydrological data)
- Innovative methodology used to overcome the gaps in available observations
- The report was well received by Members, international organizations and media (>2500 articles)



HOW DOES THE REPORT COVER THE WATER (HYDROLOGICAL) CYCLE?

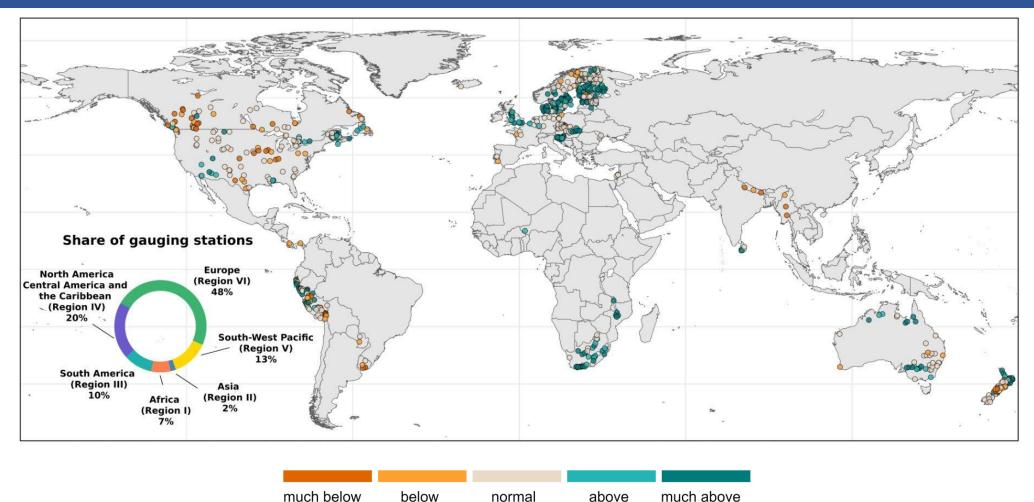






OBJECTIVE IS TO HAVE DOTS ALL OVER THE GLOBE! MONITORING IS THE BACKBONE FOR EW4ALL



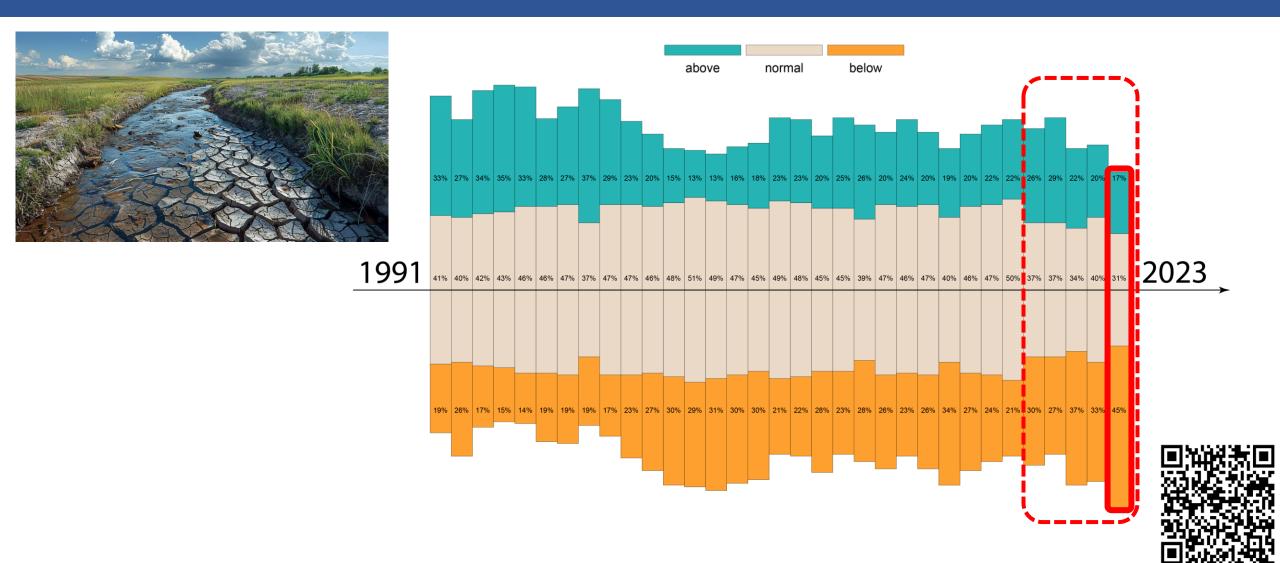






2023 DRIEST YEAR FOR GLOBAL RIVERS IN OVER THREE DECADES



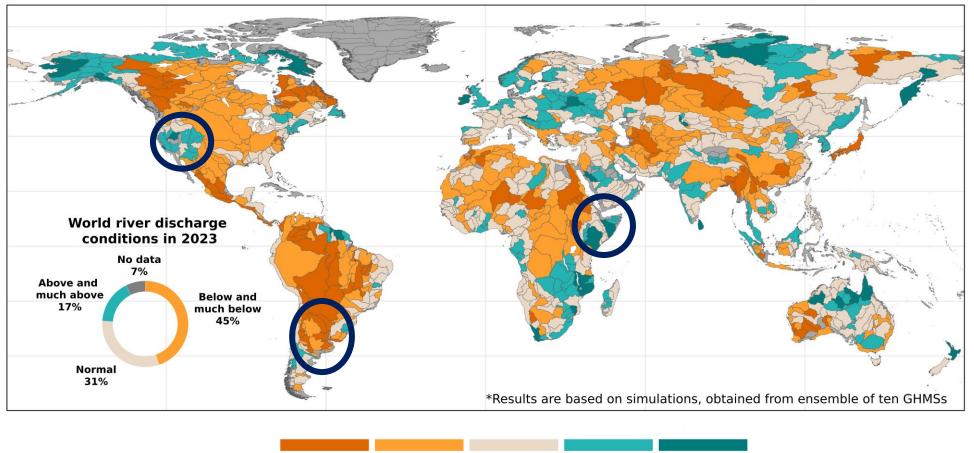




2023: HALF OF THE GLOBE HAD DRY RIVER FLOW CONDITIONS



Mean river discharge for the year 2023 compared to the period 1991–2020 (for basins larger than 10 000 km²)



normal

above

much above

much below

below





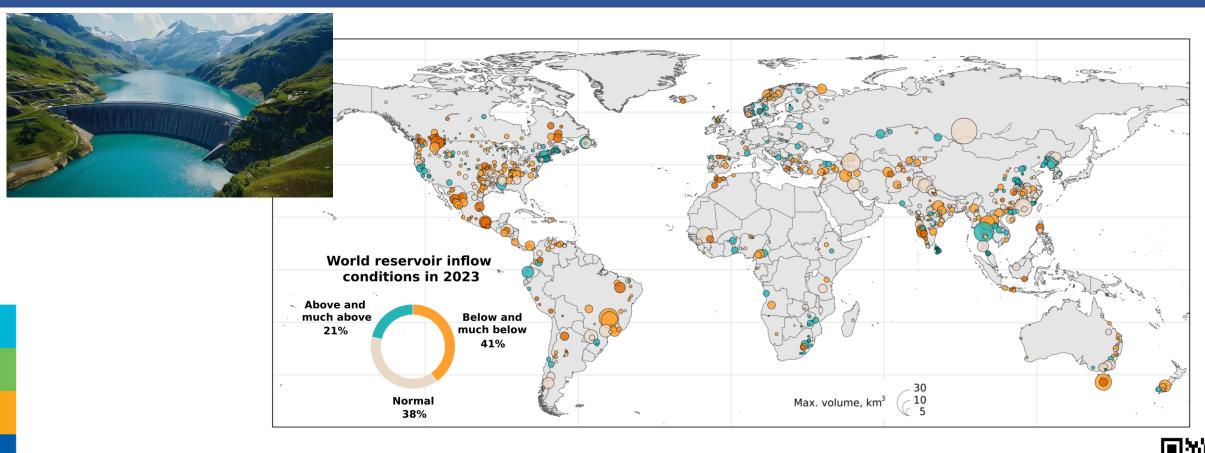


BELOW-NORMAL RESERVOIR INFLOW IN 2023



Less water available for ecosystems and societies

Mean annual inflow into selected reservoirs in 2023 as compared to the historical period 1991–2020







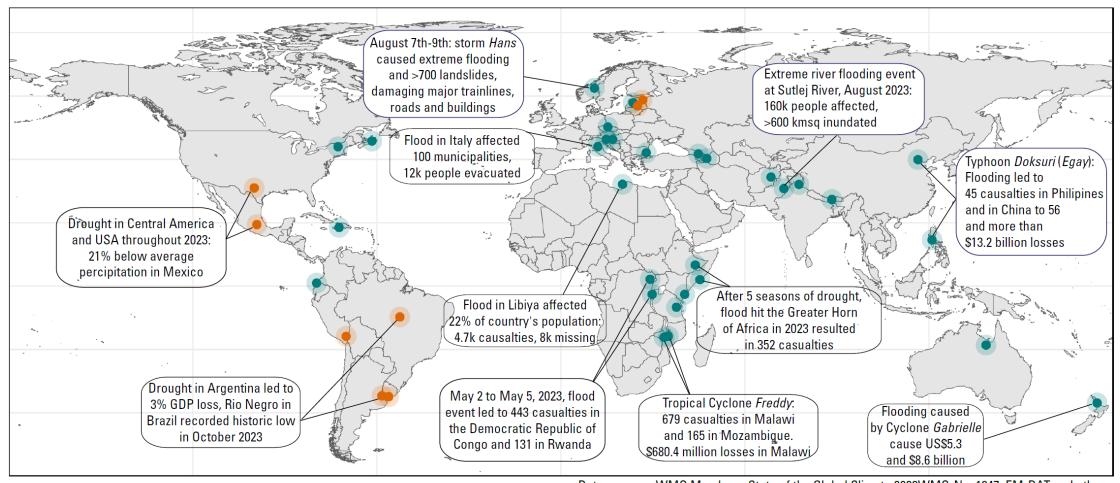




HIGH-IMPACT HYDROLOGICAL EVENTS IN 2023



Selected most notable high-impact hydrological events across the globe in 2023



Data sources: WMO Members, State of the Global Climate 2023WMO-No. 1347, EM-DAT and others



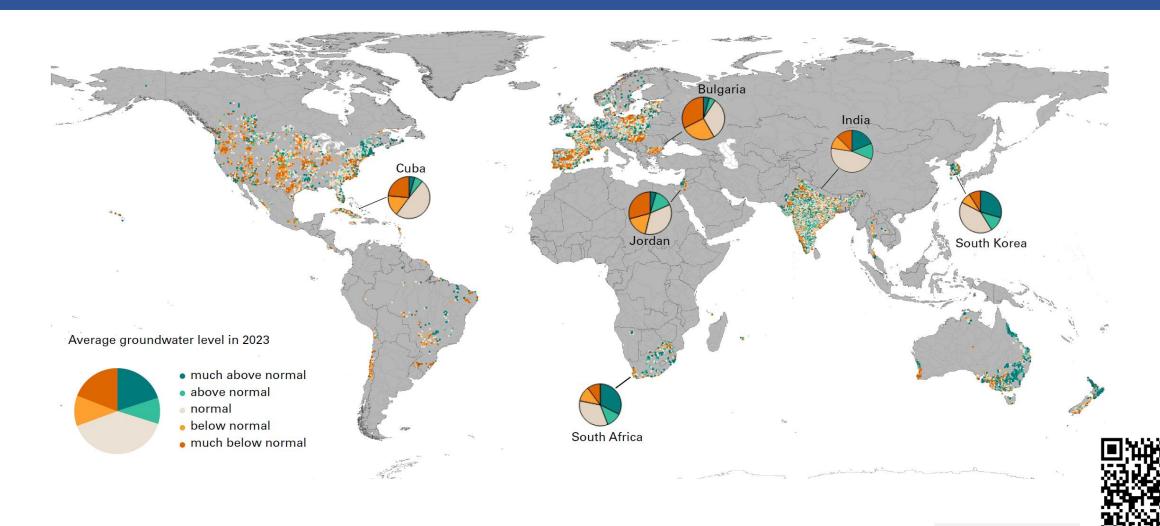




2023: GROUNDWATER LEVELS







BIG THANK YOU TO ALL!

WMO MEMBERS & ...















































Universität Stuttgart









Environment and Climate Change Canada

& many more!

