

India Meteorological Department is celebrating 150th year of its establishment during 15th January 2024-15th January 2025. In this backdrop a series of Popular talks are being organized by IMD.

In this series, India Meteorological Department invites you to attend a Popular talk on

Water Cycle Changes in a Globally Warming Climate



IITM, Pune



13th Dec 2024



Time: 03:00 PM

<https://imd-mb.webex.com/imd-mb/j.php?MTID=m00fadd2b1f10b3431c31bfeb54cc5ccf>

<https://youtube.com/live/wBbp0qlm4vs?feature=share>



Dr. Raghavan Krishnan

Director, Indian Institute of Tropical Meteorology (IITM) Pune

About the Speaker

Dr. Raghavan Krishnan specializes in climate modeling to understand scientific issues relating to “Climate Change, Asian Monsoon and Water Cycle”. Under his leadership the Centre for Climate Change Research (CCCR) @ IITM, Pune, developed the first Earth System Model (ESM) from India that contributed to the CMIP6 and IPCC Sixth Assessment Report. He was a Coordinating Lead Author in the IPCC AR6 WG1 report (Chapter-8: Water Cycle Changes) and a Drafting Author in the Summary for Policymakers. He is a Member of the Joint Scientific Committee (JSC), World Climate Research Programme (WCRP), World Meteorological Organisation (WMO).



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About the Talk

Human-induced climate change has warmed the atmosphere, ocean, and land, and is already affecting every region of Earth in multiple ways. The changes we experience will increase with further warming. This talk will provide summary of the key assessments from the IPCC AR6 WG1 report, with special focus on observed and projected changes in water cycle, the regional monsoons, attribution of regional monsoon precipitation changes to different anthropogenic drivers (e.g., greenhouse gases (GHG), aerosols,..), uncertainties in projections of water cycle and monsoon rainfall changes and related topics. Finally, the implications of water cycle changes for adaptation and mitigation options will be briefly discussed.