CPAESS Discovery Seminar

How predictable are North American summer heat extremes on the subseasonal timescale?

DATE: **Wednesday, March 4, 2026**

TIME: **11:00 AM - 12:00 PM MT** (VIRTUAL)

WATCH THE LIVE WEBCAST

The subseasonal-to-seasonal (S2S) prediction of the summertime heat extremes remains a critical, yet underexplored challenge. Using a recently developed GFDL SPEAR S2S prediction system, we assessed the S2S prediction of weekly hot days (WHD) over North America. The system exhibits significant predictive skill of WHD at a two-week lead, particularly over northwestern North America and regions east of the Great Lakes. The highest skill extends to week 3 in the south-central U.S.

Baoqiang Xiang is a CPAESS Scientist at NOAA's Geophysical Fluid Dynamics Laboratory (GFDL). His research focuses on numerical model development and large-scale climate variability and predictions. He is currently working on developing the GFDL's next-generation Atmospheric Model AM5 and the GFDL subseasonal-to-seasonal prediction system.

Baoqiang Xiang is the 2019 recipient of the WCRP/WWRP International Prize for Model Development.

SPEAKER

Baoqiang (Bao) Xiang

CPAESS Scientist V

NOAA Geophysical Fluid Dynamics Laboratory (GFDL)

UCAR | CPAESS Cooperative Programs for the Advancement of Earth System Science

CONTACT: CPAESS Discovery Seminars Coordinator, Dawn Mullally at mullally@ucar.edu

Boulder, CO • cpaess.ucar.edu