



PennState

College of Education
College of Earth and Mineral Sciences
Department of Meteorology and Atmospheric Sciences



Pushing the Limits of Sub-seasonal to Seasonal (S2S) Weather Forecasting



Dates: June 20 - 24, 2022
Time: 9:00 a.m. - 4:00 p.m.
Location: Virtual
Target audience: Secondary teachers
Application Deadline: June 6
Contact: [Matthew Johnson, Ph.D.](mailto:Matthew.Johnson@psu.edu)



How do scientists predict weather two weeks to two months in advance? Forecasting at these lead times is often regarded as the next frontier in forecasting, and if successful will have numerous society benefits. Join Meteorology and Atmospheric Science professors and researchers Drs. Steven Feldstein and Sukyoung Lee, in collaboration with CSATS science educators, in this NSF funded grant in Climate and Large-Scale Dynamics. Teachers will become immersed into the practices that scientists use to understand the underlying science and perform sub-seasonal to seasonal (S2S) weather forecasts. Gaining relevant research experience along with collaborating with science educators, teachers will be able to translate this information into classroom lessons aligned with the Next Generation Science Standards that emphasize student learning about the practices of scientists.

This workshop will help educators learn how to apply important physics concepts to various phenomena. Through this one-week workshop, teachers will get a firsthand opportunity to learn about:

- diagnostic and modeling strategies utilized by researchers
- relationships between daily and longer lead-time probabilistic S2S weather forecasts
- data sites utilized by researchers for S2S weather forecasts and how to use them in your classroom

Workshop Benefits:

- Teachers will receive a \$500 stipend for attendance and implementation.
- Act 48 Credits will be provided upon request.

For more information and to apply:

csats.psu.edu/overview-of-csats-programs/summer-workshops/s2s

Sponsored by

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For more information: contact Matt Johnson @ mmj125@psu.edu or 814-863-6607