

# OVERVIEW

NOAA's 42<sup>nd</sup> Climate Diagnostics and Prediction Workshop was held in Norman, Oklahoma on 23-26 October 2017. The workshop was hosted by the School of Meteorology at the University of Oklahoma and was co-sponsored by the Climate Prediction Center (CPC) of the National Centers for Environmental Prediction (NCEP) and the Climate Services Branch (CSB) of the National Weather Service (NWS).

The workshop focused on five major themes, with an emphasis on climate prediction, monitoring, attribution, and diagnostics related to:

1. Recent high-impact weather, climate, and water events, such as the 2016-17 La Niña and its transition from the 2015-16 El Niño and the repeated atmospheric river events of January 2017 impacting the North Pacific;
2. Subseasonal-to-seasonal (S2S) extremes and hazards, such as severe weather;
3. Drought and pluvial events, with particular focus on the Great Plains;
4. High-latitude and Arctic variability and change, and linkages with the lower latitudes;
5. Climate prediction applications for decision support services.

The workshop featured daytime oral presentations, invited speakers, and discussions with a poster session event in one evening.

This Digest is a collection of extended summaries of the presentations contributed by participants. The workshop is continuing to grow and expected to provide a stimulus for further improvements in climate monitoring, diagnostics, prediction, applications and services.