

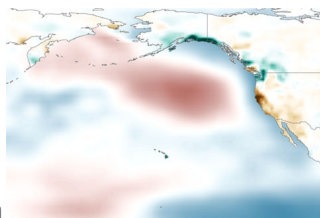
Dear MAPP PIs,

This is the first edition of a quarterly newsletter that will highlight major papers, events, and press releases related to MAPP-funded work. We'll need your help to keep the content fresh. We're interested in receiving notices of upcoming or published papers, upcoming events, milestones, or significant developments so that we can effectively promote MAPP-funded work. Please see MAPP PI Input below for information on how to submit papers supported through your MAPP award and other events or developments for the newsletter.

Research Highlights

Early years of California's drought may be linked to lingering effect of La Niña

Preliminary research by Pedro DiNezio, Yuko Okumura, and Clara Deser suggesting that dryness often deepens into drought following a La Niña event, even if the tropical Pacific has technically shifted back to "neutral" conditions, was recently featured as the #1 story on [Climate.gov](#). [Learn more...](#)

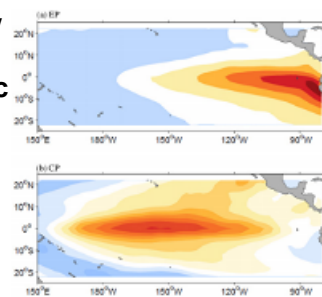


Vertical structure and physical processes of the Madden-Julian Oscillation: exploring key model physics in climate simulations

Research by Xianan Jiang (University of

The shift to a new Niño: impacts of the Central-Pacific El Niño on U.S. Winter

Findings from a MAPP-funded project entitled, "Understanding the Emerging Central-Pacific ENSO and Its Impacts on North American Climate" were recently discussed at the NOAA National Weather Service Climate Prediction Center's (CPC) Monthly Ocean Briefing on April 9th. [Learn more...](#)



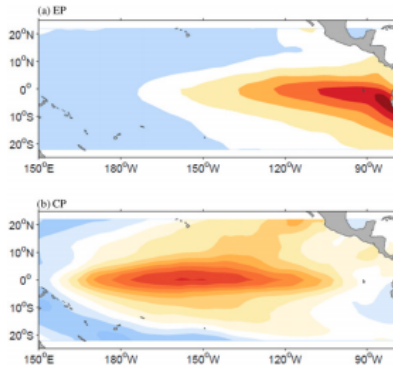
Can ENSO forecasts help predict severe thunderstorm activity?

A potentially high-impact study titled "Influence of the El Niño/Southern Oscillation on tornado



MAPP-funded project discussed at Weather Service's Monthly Ocean Briefing

Findings from a MAPP-funded project entitled, "Understanding the Emerging Central-Pacific ENSO and Its Impacts on North American Climate" were recently discussed at the NOAA National Weather Service Climate Prediction Center's (CPC) Monthly Ocean Briefing on April 9th. This research by Jin-Yi Yu (University of California, Department of Earth System Science), Yuhao Zou (University of California, Department of Earth System Science), Seon Tae Kim (University of California, Department of Earth System Science), and Tong Lee (California Institute of Technology, Jet Propulsion Laboratory) shows that two types of El Niño, the traditional Eastern-Pacific (EP) and emerging Central-Pacific (CP), have different impacts on U.S. winter temperatures and precipitation, and that CP El Niños have increased in frequency in recent decades. The typical EP El Niño mainly affects Great Lakes, Northeast, and Southwest U.S. temperatures, while the CP El Niño mostly impacts northwestern and southeastern U.S. temperatures. Additionally, the CP El Niño decreases winter precipitation overall by increasing the drying effect while weakening the wetting effect usually produced by the EP El Niño. Thus, the recent shift to the CP El Niño, such as with the 2015 El Niño, could be influencing the frequency of extended droughts in the U.S. This study discussed by CPC serves as an example of MAPP-funded research informing operations.



To access the papers discussing this research, go to:

<http://www.ess.uci.edu/~yu/PDF/YU.et.al.GRL.2012.pdf>, and <http://www.ess.uci.edu/~yu/PDF/Yu+Zou.ERL.2013.pdf>.

Monday, April 20, 2015 / Categories: **Modeling, Analysis, Predictions, and Projections, MAPP News, General News**

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The Modeling, Analysis, Predictions, and Projections (MAPP) Program's mission is to enhance the Nation's capability to understand and predict natural variability and changes in Earth's climate system. The MAPP Program supports development of advanced climate modeling technologies to improve simulation of climate variability, prediction of future climate variations from weeks to decades, and projection of long-term future climate conditions. To achieve its mission, the MAPP Program supports research focused on the coupling, integration, and application of Earth system models and analyses across NOAA, among partner agencies, and with the external research community.

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5/4/2015 8:00 AM - 5/5/2015 5:00 PM

CPO/MAPP to host Climate Reanalysis

Task Force Technical Workshop

The NOAA CPO Modeling, Analysis, Predictions, and Projections (MAPP) program will host a technical workshop for the NOAA Climate Reanalysis Task Force (NCRTF) May 4-5 at the NOAA Center for Weather and Climate Prediction (NCWCP) Conference Center in College Park, Maryland.

5/7/2015 3:00 PM - 4:00 PM

MAPP Webinar Series: Transitioning

Research to Applications Part I:

Organizational Efforts

The NOAA CPO Modeling, Analysis, Prediction, and Projections (MAPP) program hosted a webinar titled Transitioning Research to Applications Part I: Organizational Efforts on May 7, 2015. The announcement is provided