

Program for the 47th Annual Climate Diagnostics and Prediction Workshop

Logan, Utah, October 25–27, 2022

(Program Update: October 23, 2022)

Poster Program

Tuesday, October 25, 2022

5:30 -7:30 pm - Ice Breaker (Light refreshments served)

P1. Improved Seasonal Forecasts with Mixture Models and Weather Regimes, **Cody Ratterman**, *Utah State University*, Wei Zhang and Grace Affram, *Utah State University*

P2. The Impact of Indian Ocean SSTs Variability on US Winter Seasonal Climate Variability, and Predictability, **Bhaskar Jha**, *NOAA/CPC* and Arun Kumar, *NOAA/CPC*

P3. Seasonal Prediction of Summertime Heavy Rainfall in the Midwestern and Southeastern US from Springtime Sea Surface Salinity, **Laifang Li**, *Pennsylvania State University*, Christopher M. Sala, *Pennsylvania State University*, Caroline C. Ummenhofer and Raymond W. Schmitt, *Woods Hole Oceanographic Institute*

P4. The Bias Correction of Seasonal Scale Forecast in Surface Temperature, **Meng-Pai Hung**, *Chinese Culture University, Taipei, Taiwan*, Tun-Kai Chang, Yu-Haw Chou, and Chia-An Lin, *Chinese Culture University, Taipei, Taiwan*, Meng-Shih Chen and Tzu-Ting Lo, *Central Weather Bureau*

P5. Further Insights into Subseasonal Forecasts from Coupled UFS Through Physics Tests, **Benjamin Green**, *CU/CIRES & NOAA/Global Systems Laboratory*, Eric Sinsky, *NOAA/CPC*, Vijay Tallapragada, *NOAA/EMC*, Shan Sun and Georg Grell, *NOAA/Global Systems Laboratory*

P6. GEFSv12 and CFSv2 Based Sub-seasonal Storminess Outlook, **Yutong Pan**, *NOAA/CPC*, Edmund K.M. Chang, *Stony Brook University*, Wanqiu Wang, Hui Wang, and David DeWitt, *NOAA/CPC*

P7. Analysis and characterization of long-term changes in Atlantic tropical storms and hurricanes, **Hui Wang**, *NOAA/CPC*

P8. Optimizing convolutional neural networks for infrastructure damage remote sensing after natural disasters, **Thomas Chen**, *Columbia University*

P9. Similarities and differences found in cyclonic tracking for South America using ERA5 and JRA55, **Luthiene Dalanhese**, *Utah State University* and Wang, S-Y., *Utah State University*

P10. Introduction to Two MJO-Kelvin Wave-ENSO Diagnostic Indices, **Yanjuan Guo**, *NOAA/CPC*, Zeng-Zhen Hu, *NOAA/CPC*, Cristiana Stan, *NOAA/EMC*, Rama Sesha Sridhar Mantripragada, *George Mason University*

- P11. XCast: A python toolkit for S2S forecasting, **Nachiketa Acharya**, NOAA/CIRES, Kyle Joseph Chen Hall, Nachiketa Acharya, NOAA/CIRES
- P12. Machine Learning to Construct Probabilistic Sub-Seasonal Precipitation Forecasting over California, **Nachiketa Acharya**, NOAA/CIRES, Kyle Joseph Chen Hall, NOAA/CIRES
- P13. Using planktic foraminifera to determine variability in the global hydrologic cycle during carbon perturbations during the Paleocene-Eocene Thermal Maximum, **Chels Howard**, Utah State University, Don Penman, Utah State University
- P14. Flux to Flow: Scalable Watershed Modeling with Deep Convolutional Residual Neural Networks, **Albert Larson**, University of Rhode Island, Ali Shafqat Akanda, University of Rhode Island
- P15. Improving forecasts of El Nino: a Bayesian Model Averaging approach, **Luke He**, NOAA/CPC, Pao-Shin Chu, Hanpei Zhang, University of Hawaii
- P16. Impact of the Arctic Oscillation from March on summertime sea ice, **Young-Kwon Lim**, NASA/GSFC, Dong Wu, Kyu-Myong Kim, Jae Lee, NASA/GSFC
- P17. Object Verification of the (CPC) Week-2 US Cold Hazard Outlooks Using the METplus MODE Tool, **Justin Hicks**, NOAA/CPC, Tim Eichler, Melissa Ou, Nicholas Novella, Adam Hartman, Daniel Harnos, Dan Collins, Johnna Infanti, NOAA/CPC, John Opatz, Tara Jensen, Barbara Brown, NCAR/RAL/DTC
- P18. Tropical Cyclone Verification of the Global Tropics Hazards Outlook, **Lindsey Long**, NOAA/CPC, Nicholas Novella, Jon Gottschalck, NOAA/CPC
- P19. Week 3-4 Multi-Model Ensemble Subsampling: A Real-time Verification, **Cory Baggett**, NOAA/CPC, Steven Simon; Michael Halpert, NOAA/CPC
- P20. Can the Texas 1950s drought be represented in CORE and the ERA-5 reanalyses?, **Leigh Zhang**, NOAA/CPC, Wesley Ebisuzaki, Arun Kumar, NOAA/CPC, Jeffrey Whitaker, NOAA/PSD, Jack Woollen, NOAA/EMC
- P21. Forecasting Rapid Changes in Evaporative Stress Index (ESI) and Soil Moisture Anomalies with Machine Learning: Role of Initial Land State versus Dynamical Model Output, **Jason Otkin**, University of Wisconsin-Madison, David J. Lorenz, University of Wisconsin-Madison Benjamin Zaitchik, Johns Hopkins University
- P22. A Historical Perspective of the La Niña Event in 2020/21, **Zeng-Zhen Hu**, NOAA/CPC, Xiaofan Li, Zhejiang University - China, Yu-heng Tseng, National Taiwan University, Yunyun Liu, National Climate Center/CMA, and Ping Liang, Shanghai Regional Climate Center/CMA