Research articles

We have compiled a list of scientific papers, conference presentations and other reports of research using TIGGE data. We survey the literature every year or so to update the list, but we encourage all researchers using TIGGE data to inform us, so that we can publicise your work more quickly via this website.

How to refer to TIGGE in a paper

TIGGE DOI for scientific papers: https://doi.org/10.1175/2010BAMS2853.1

Please use the following acknowledgement to refer to TIGGE:

"This work is based on TIGGE data. TIGGE (The Interactive Grand Global Ensemble) is an initiative of the World Weather Research Programme (WWRP)."

It is important to mention the data source of your research to be able to keep the TIGGE project alive for longer.

Regarding dataset source, please cite:


[ 2019 ] [ 2018 ] [ 2017 ] [ 2016 ] [ 2015 ] [ 2014 ] [ 2013 ] [ 2012 ] [ 2011 ] [ 2010 ] [ 2009 ] [ 2008 ] [ 2007 ] [ 2006 ] [ 2005 ]

(* below means number of articles weakly related to TIGGE)

2019

(2)


2018

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2017


• Leonardo, N.M. and B.A. Colle (2017), Verification of Multimodel Ensemble Forecasts of North Atlantic Tropical Cyclones, Weather and Forecasting

• Loeber, C.F., M.A. Herrera, and I. Szunyogh (2017), An Assessment of the Performance of the Operational Global Ensemble Forecast Systems in Predicting the Forecast Uncertainty, Weather and Forecasting


• S. Karuna sagar et.al, (2017), Prediction skill of stormrain events over India in the TIGGE weather prediction models. Atmospheric Research, 198, 194-204.

• Ying, Y. and F. Zhang (2017), Practical and Intrinsic Predictability of Multiscale Weather and Convectively Coupled Equatorial Waves during the Active Phase of an MJO, Journal of the Atmospheric Sciences

• Yamaguchi, M., J. Ishida, H. Sato, and M. Nakagawa (2017), WGNE Intercomparison of Tropical Cyclone Forecasts by Operational NWP Models: A Quarter Century and Beyond, Bulletin of the American Meteorological Society

• Yamaguchi, M. and N. Koide (2017), Tropical Cyclone Genesis Guidance Using the Early Stage Dvorak Analysis and Global Ensembles, Weather and Forecasting


• Xiping Zhang and Hui Yu (2017), A Probabilistic Tropical Cyclone Track Forecast Scheme Based on the Selective Consensus of Ensemble Prediction Systems, Weather and Forecasting

2016

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• Colby, Frank P. Jr., 2016: Tropical Cyclone Track and Intensity Errors in the 2015 NCEP Global Ensemble Model. Proceedings of the 32nd Conference on Hurricanes and Tropical Meteorology, San Juan, PR, 18-22 April, 2016


• Don, P.K., J.L. Evans, F. Chiaromonte, and A.M. Kowaleski (2016), Mixture-Based Path Clustering for Synthesis of ECMWF Ensemble Forecasts of Tropical Cyclone Evolution. Monthly Weather Review

• Dong, L. and F. Zhang (2016), OBEST: An Observation-Based Ensemble Subsetting Technique for Tropical Cyclone Track Prediction, Weather and Forecasting


• Herrera, M.A., I. Szunyogh, and J. Tribbia (2016), Forecast Uncertainty Dynamics in the THORPEX Interactive Grand Global Ensemble (TIGGE), Monthly Weather Review


• Tsing-Chang Chen, Jenq-Dar Tsay, Eugene S. Takle (2016), A Forecast Advisory for Afternoon Thunderstorm Occurrence in the Taipei Basin during Summer Developed from Diagnostic Analysis, Weather and Forecasting

• Yang Bo, Sun Jisong, Mao XuLin yinjing (2016), A New Forecast Model Based on the Analog Method for Persistent Extreme Precipitation, Weather and Forecasting


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• Carolyn A. Reynolds, Elizabeth A. Satterfield, Craig H. Bishop (2015), Using Forecast Temporal Variability to Evaluate Model Behavior, Monthly Weather Review

• Colby Jr, F. P. (2015), Global Ensemble Forecast Tracks for Tropical Storm Debby. Weather and Forecasting, e-View, doi: http://dx.doi.org/10.1175/WAF-D-14-00083.1
• Colby, Frank P., Jr., 2015: Analysis of Ensemble Forecasts for Hurricane Isaac. Proceedings of the 16th Conference on Mesoscale Processes, Boston, MA August 3 – 6, 201


• Frank P. Colby Jr (2015), Global Ensemble Forecast Tracks for Tropical Storm Debby. Weather and Forecasting


• Munehiko Yamaguchi, Frédéric Vitart, Simon T. K. Lang, Linus Magnusson, Russell L. Elsberry, Grant Elliott, Masayuki Kyouda, Tetsuo Nakazawa (2015), Global Distribution of the Skill of Tropical Cyclone Activity Forecasts on Short- to Medium-Range Time Scales, Weather and Forecasting


• Ruoyun Niu, Panmao Zhao, Baiquan Zhou (2015), Evaluation of Forecast Performance of Asian Summer Monsoon Low-Level Winds Using the TIGGE Dataset. Weather and Forecasting


2014

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- *Davis, Christopher A., Wen-Chau Lee: 2012: Mesoscale Analysis of Heavy Rainfall Episodes from SoWMEXT/TIMREX. Journal of the Atmospheric Sciences, 69 (2), S21-S37. doi: [http://dx.doi.org/10.1175/JAS-D-11-0120.1]*


- *Duan, Yihong, Jiandong Gong, Jun Du, Martin Charron, Jing Chen, Guo Deng, Geoff DiMego, Masahiro Hara, Masaru Kunii, Xiaoli Li, Yinglin Li, Kazuo Saito, Hiromu Seko, Yong Wang, Christoph Wittmann, 2012, An Overview of the Beijing 2008 Olympics Research and Development Project (BoRDP), Bulletin of the American Meteorological Society, 93 (3), 381-403. doi: [http://dx.doi.org/10.1175/BAMS-D-11-00115.1]*


- *Li Baiping, Zhi Xiefei: 2012, Comparative study of four correction schemes of the ECMWF surface temperature forecast. Meteorological Monthly (China), Vol. 38, No. 8, 2012*

- *Schumacher, R. S., T. J. Galarneau, Jr.: 2012, Moisture transport into midlatitudes ahead of recurring tropical cyclones and its relevance in two predecessor rain events, Monthly Weather Review, e-View. doi: [http://dx.doi.org/10.1175/MWR-D-11-00307.1]*


• Schumacher, R. S., 2011, Ensemble-Based Analysis of Factors Leading to the Development of a Multiday Warm-Season Heavy Rain Event, Monthly Weather Review, 139 (9), 3016-3035 doi: http://dx.doi.org/10.1175/MWR-D-10-05022.1


• Tsai, Hsiao-Chung; Lu, Kuo-Chen; Elsberry, Russell L.; Lu, Mong-Ming; Cui, Chung-Hsiung; February 2011, Singular Vectors for Tropical Cyclone–Like Vortices in a Nondivergent Barotropic Framework, Journal of the Atmospheric Sciences, 68 (10), 2273-2291. doi: http://dx.doi.org/10.1175/2011JAS3272.1

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