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:


**Research articles (2019 - 2020)**

2019 (2)

2018 (26)

(* below means number of articles weakly related to TIGGE)
2017 (27)


• 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 (21)

• 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. Kowaleks (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, Jeng-Dar Tsay, Eugene S. Talkle (2016), A Forecast Advisory for Afternoon Thunderstorm Occurrence in the Taipei basin during Summer Developed from Diagnostic Analysis, Weather and Forecasting
• Zhou, B. and Zhai (2016), A New Forecast Model Based on the Analog Method for Persistent Extreme Precipitation, Weather and Forecasting
• Zsotér, E., F. Pappenberger, P. Smith, R.E. Fuelberg, F. Anctil, M.H. Ramos

2015 (22)

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


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


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


2014 (34, *)


**Kim, S., R. M. Samelson, C. Snyder, 2011:** Toward an Uncertainty Budget for a Coastal Ocean Model. Monthly Weather Review, 139 (3), 866-884. [doi](http://dx.doi.org/10.1175/2010MWR3352.1)


**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; Sui, Chung-Hsiung; 2011:** Tropical Cyclone–like Vortices Detection in the NCEP 16-Day Ensemble System over the Western North Pacific in 2008: Application and Forecast Evaluation. Weather & Forecasting. Feb 2011, Vol. 26 Issue 1, pp 8-17. [link](http://journals.ametsoc.org/doi/abs/10.1175/2010WAF222415.1)


**Wiegand, L., A. Twitchett, C. Schierz, W. Knippertz, 2011:** Heavy Precipitation at the Alpine South Side and Saharan Dust over Central Europe: A Predictability Study Using TIGGE. Weather and Forecasting Volume 26, Issue 6 (December 2011) pp. 957-974 doi: [10.1175/2010WAF2222326.1](http://dx.doi.org/10.1175/2010WAF2222326.1)


**Keller, J., 2011:** Investigation of predictability during the extratropical transition of tropical cyclones using the THORPEX Interactive Global Ensemble (TIGGE), 29th Conference on Hurricanes and Tropical Meteorology. [link](http://ams.confex.com/ams/fdpapers/168784.pdf)


2007 (4, *1)


2006 (1, *0)

• Matsueda, M., M. Kyouda, H.L. Tanaka and T. Tsuyuki, 2006: Multi-Center Grand Ensemble using Three Operational Ensemble Forecasts. SOLA, 2, 33-36 http://www.istage.jst.go.jp/article/sola/2/0/2_33/_article

2005 (1, *0)