Yuqing WANG

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Education

- 1983, B.S. (Meteorology), Zhongshan University, Guanzhou, China.
- 1988, M.S. (Meteorology), Chinese Academy of Meteorological Sciences. Beijing, China.
- 1996, Ph.D. (Applied Mathematics), Centre for Dynamical Meteorology and Oceanography, Monash University, Australia.

Research Interests

- Atmospheric dynamics and physics, including planetary boundary layer processes; cumulus convection, cloud microphysics, radiation, land surface processes;
- Tropical meteorology, including tropical cyclones, equatorial waves, intraseasonal oscillation, monsoon, and ENSO;
- Atmosphere-land-ocean interactions, physical processes and linkage with atmospheric dynamics;
- Regional and global climate modeling and climate process studies, such as cloud-radiation forcing, large-scale topographic forcing in climate system;
- Development of high-resolution atmospheric models and coupled ocean-atmosphere models.

Professional Experience

- **Professor**, International Pacific Research Center and Department of Atmospheric Sciences (before July 2014, Department of Meteorology), School of Ocean and Earth Science and Technology, University of Hawaii. (08/2008-present)
- **Associate Professor**, International Pacific Research Center and Department of Meteorology, School of Ocean and Earth Science and Technology, University of Hawaii. (01/2004-07/2008)
- **Associate Researcher**, International Pacific Research Center, School of Ocean and Earth Science and Technology, University of Hawaii. (02/2000-12/2003)
- **Graduate Faculty**, Department of Meteorology, University of Hawaii. (05/2000-present)
- **Senior Professional Officer**, Bureau of Meteorology Research Centre, Melbourne, Australia. (09/1995 -01/2000)
- **Research Assistant**, Bureau of Meteorology Research Centre, Melbourne, Australia. (03/1993-08/1995)
- **Visiting scientist**, Bureau of Meteorology Research Centre, Melbourne, Australia. (09/1991-02/1993)
- **Assistant Professor**, Shanghai Typhoon Institute, Shanghai, China. (08/1988-08/1991)
- **Lecturer**, Shanghai Marine School, Shanghai, China. (08/1983-08/1985)

Community Service

Editorship

- Specialty Chief Editor, *Atmospheric Science Section* of the ***Frontiers in Earth Science*** (May 4, 2020–present)
- Member of Editorial board, ***Acta Meteoroligia Sinica*** (Chinese, January 2015-present)
- Editor, ***Journal of Meteorological Research***, (January 2015-present)
- Editor, ***Weather and Forecasting***, (January 2013-December 2017).
- Editor, ***Advances in Atmospheric Sciences***, (January 2013-present).
- Editor, ***Journal of Meteorological Society of Japan***, (July 2010-present)
- Associate Editor, ***Advances in Atmospheric Sciences***, (July 2009-December 2012).
- Associate Editor, ***Weather and Forecasting***, (January 2007-December 2012).

Meeting chair/co-chair, convener/co-convener, etc.

- **Co-Chair,** The WMO 9th International Workshop on Tropical Cyclones (IWTC9), to be held in Honolulu, December 3-8, 2018. (Designated to start the organizing preparation since January 2017).
- **Co-convener**, Special session "The Science, Prediction and Ocean Interaction of Tropical Cyclones", AOGS annual meeting (2012-2019).
- **Member**, The International Organizing Committee of the International Top-Level Forum on Rapid Change Phenomena in Tropical Cyclones, co-sponsored by WMO, November 5-9, 2012, Haikou, China
- **Chair**, The Organizing Committee of the Fifth International Workshop on Tropical Cyclones (IWTC10), Nanjing, China, December 20-22, 2010
- **Co-Convener**, Special session "Challenging Issues in Tropical Cyclone Research and Forecasts in the Western Pacific" at the 2010 Western Pacific Geophysical Meeting, June 22-25, 2010, Taipei.
- **Chair**, The Organizing Committee of the Third International Workshop on High-Resolution and Cloud Modeling – Climate and Tropical Cyclones. University of Hawaii, December 2-4, 2008.
- **Member,** The organizing committee of the "International Symposium on Tropical Weather and Climate", Guangzhou, China, November 7-11, 2004.
- **Organizer,** IPRC Mini-Workshop on Tropical Cyclones, August 20, 2004, IPRC, University of Hawaii.
- **Member**, The Organizing Committee of the Fourth Workshop on Regional Climate Modeling for Monsoon System, August 12-13, 2005, Beijing Climate Center, Beijing China.
- **Co-Convener**, Special session "Challenging Issues in Tropical Cyclone Research and Forecasts in the Western Pacific" at the 2004 Western Pacific Geophysical Meeting, August 17-20, 2004, Honolulu, Hawaii.
- **Member**, The Organizing Committee of the Third Workshop on Regional Climate Modeling, February 17-20, 2004, International Pacific Research Center, Honolulu, Hawaii.

- **Member**, The Organizing Committee of the Second Workshop on Regional Climate Modeling for Monsoon System, March 4-6, 2003, FRSGC, Yokohama, Japan.
- **Member**, The Organizing Committee of the First IPRC Regional Climate Modeling Workshop, October 9-12, 2001, East-West Center, Honolulu, Hawaii.

Committee members and other services

- **Co-Director**, State Key Laboratory of Severe Weather, Chinese Academy of Meteorological Sciences, China Administration, China, (December 2016-present).
- **Member**, The VOCALS Scientific Working Group (SWG) of the WCRP/CLIVAR VAMOS panel, (June 2008-2015).
- **Member,** American Meteorological Society's Tropical Meteorology and Tropical Cyclones Committee, (2007-2012).
- **Member,** Steering Committee of the International Pacific Research Center, University of Hawaii at Manoa, (January 2004-present).
- **Member,** SOEST Young Investigator Selection Committee, School of Ocean and Earth Science and Technology, University of Hawaii, (November 2004-2006).
- **Member,** Curriculum Committee of Meteorology Department, University of Hawaii, (February 2004-2009).
- **Member**, Selection Committee for the Max Eaton Award, 24th Conference on Hurricanes and Tropical Meteorology, American Meteorological Society, May 29 – June 2, 2000, Ft Lauderdale, Florida.
- **Referee**, *Nature, Nature Geoscience, Nature Climate Change, Nature Communication, Science, Scientific Report, J. Atmos. Sci., J. Climate, Mon. Wea. Rev., Wea. Forecasting, Q. J. Roy. Meteor. Soc., Climate Dynamics, Tellus, Intl. J. Climatol., J. Meteor. Soc. Japan, Adv. Atmos. Sci., J. Geophys. Res., Geophys. Res. Lett., J. Appl. Meteor. Climatol., Atmos. Chem. Phys., JAMES, etc.*

Courses Taught

- ATTMO 614, Tropical Cyclones
- ATMO 620, Physical Meteorology
- ATMO 610, Tropical Climate and Weather
- ATMO 303, Atmospheric Dynamics
- ATMO 402, Applied Atmospheric Dynamics
- ATMO 765, Research Seminar

Refereed Publications (1995-)

197. Li. Y.-L. **Y. Wang**, Y.-L, Lin, and R. Fei, 2020: Dependence of superintensity of tropical cyclones on SST in axisymmetric numerical simulations. *Mon. Wea. Rev*., (under review).
196. Liu, H.-Y., **Y. Wang**, and J.-F. Gu, 2020: Intensity change of binary tropical cyclones in idealized numerical simulations. *J. Atmos. Sci.*, (under review).
195. Fei, R., **Y. Wang**, and Y.-L. Li, 2020: Contribution of vertical advection to supergradient wind in tropical cyclone boundary layer: A numerical study. *J. Atmos. Sci.*, (in revision).

194. Zhao, J.-W., R.-F. Zhan, **Y. Wang**, S.-P. Xie, and Q. Wu, 2020: Untangling impacts of global warming and Interdecadal Pacific Oscillation on long-term variability of North Pacific tropical cyclone track density, *Science Advances*, (revised).
193. Wang, H., and **Y. Wang**, 2020: A numerical study of Typhoon Megi (2010). Part II: Eyewall evolution crossing Luzon Island. *Mon. Wea. Rev.*, (in revision).
192. Li, T.-H., and **Y. Wang**, 2020: The role of boundary layer dynamics in tropical cyclone intensification. Part I: Sensitivity to surface drag coefficient. *J. Meteor. Soc. Japan*, (revised).
191. Li, T.-H., and **Y. Wang**, 2020: The role of boundary layer dynamics in tropical cyclone intensification. Part II: Sensitivity to initial vortex structure. *J. Meteor. Soc. Japan*, (revised).
190. Fei, R., J. Xu, **Y. Wang**, and C. Yang, 2020: Factors affecting the weakening rate of tropical cyclones over the western North Pacific. *Mon. Wea. Rev.*, **148**, https://doi.org/MWR-D-19-0356.1. (revised)
189. Li, Y.-L., **Y. Wang**, and Y.-L. Lin, 2020: How much does the upward advection of supergradient component of boundary layer wind contribute to tropical cyclone intensification and maximum intensity? *J. Atmos. Sci.*, **77**, https://doi.org/10.1175/JAS-D-19-0350.1. (revised).
188. Zhao, J.-W., R.-F Zhan, and **Y. Wang**, 2020: Different responses of tropical cyclone tracks over the western North Pacific and North Atlantic to two distinct SST warming patterns. *Geophys. Res. Lett.*, **47**(7), e2019GL086923, https://doi.org/10.1029/2019GL086923.
187. Liu, L., **Y. Wang**, R.-F. Zhan, and J. Xu, 2020: Increasing destructive potential of landfalling tropical cyclones over China. *J. Climate*, **33**(9), 3731–3743, https://doi.org/10.1175/JCLI-D-19-0451.
186. Zhang, C.-X., **Y. Wang**, and M. Xue, 2020: Evaluation of an *E*-ε and three other boundary layer parameterization schemes in the WRF model over the Southeast Pacific and the Southern Great Plains, *Mon. Wea. Rev*., **148**(3), 1121–1145, https://doi.org/10.1175/MWR-D-19-0084.1.
185. Done, J. M., M. Ge, G. J. Holland, I. Dima-West, S. Phibbs, G. R. Saville, and **Y. Wang**, 2020: Modelling global tropical cyclone wind footprints, Special Issue on Global- and continental-scale risk assessment for natural hazards: methods and practice, *Nat. Hazards Earth Syst. Sci.,* **20**, 567–580, https://doi.org/10.5194/nhess-20-567-2020.
184. Liu, L., and **Y. Wang**, 2020: Trends in landfalling tropical cyclone induced precipitation over China, *J. Climate*, **33**(6), 2223–2235, https://doi.org/10.1175/JCLI-D-19-0693.1.
183. Liu, C., Q.-L. Li, W. Zhao, **Y. Wang**, R. Ali, D. Huang, X.-X. Lu, H. Zheng, and X.-L. Wei, 2020: Spatiotemporal characteristics of near-surface wind in Shenzhen, *Sustainability*, **12**, 739, doi:10.3390/su12020739.
182. Zhang, Z., **Y. Wang**, W.-M. Zhang, and J. Xu, 2019: Coastal ocean response and feedback to Typhoon Hato (2017) in the South China Sea: A coupled model study. *J. Geophys. Res. – Atmos.,* **124**(24), 13731-13749, https:/doi.org/10.1029/2019JD031377.
181. Xu, J., **Y. Wang**, and C. Yang, 2019: Inter-basin differences in the mean and variability of tropical cyclone MPI in the Northern Hemisphere. *J. Geophys. Res. – Atmos.,* **124**(24), 13714-13730, https:/doi.org/10.1029/2019JD031588.
180. Duan, Y.-H., Q.-L. Wan, J. Huang, K. Zhao, H. Yu, **Y. Wang***, D.-J. Zhao, J.-N. Feng, J. Tang, P.-Y. Chen, X.-Q. Lu, Y. Wang, J.-Y. Liang, L. Wu, X.-P. Cui, J. Xu, and P.-W. Chan, 2019: Landfalling tropical cyclone research project (LTCRP) in China. *Bull. Amer. Meteor.*

Soc., **100 (12)**, ES447-ES472, https://doi.org/10.1175/BAMS-D-18-241.1.

179. Li, Y.-L., Y.-L, Lin, and **Y. Wang**, 2019: A numerical study on the triggering and maintenance of a long-lived rainband in Typhoon Longwang (2005), *J. Geophys. Res. – Atmos.,* **124(19)**, 10401-10426, https:/doi.org/10.1029/2019JD030600.

178. Li, Y.-L., **Y. Wang**, and Y.-L. Lin, 2019: Revisiting the dynamics of eyewall contraction of tropical cyclones. *J. Atmos. Sci.*, **76**, 3229–3245, https://doi.org/10.1175/JAS-D-19-0076.1.

177. Wang, H., **Y. Wang**, J. Xu, and Y.-H. Duan, 2019: Evolution of the warm-core structure during the eyewall replacement cycle in a numerically simulated tropical cyclone. *J. Atmos. Sci.*, **76**, 2559–2573, https://doi.org/10.1175/JAS-D-19-0017.1.

176. Xu, J., **Y. Wang**, and C. Yang, 2019: Factors affecting the variability of MPI of tropical cyclones over the North Atlantic. *J. Geophys. Res. – Atmos.*, **124**, 6654–6668, https://doi.org/10.10292019JD030283.

175. Fu, H., **Y. Wang**, M. Riemer, and Q.-Q. Li, 2019: Effect of unidirectional vertical wind shear on tropical cyclone intensity change – Lower-layer shear versus upper-layer shear. *J. Geophys. Res. – Atmos.,* **124***,* 6265–6282, https://doi.org/10.1029/2019JD030586.

174. Zhan, R.-F., **Y. Wang**, and J.-W. Zhao, 2019: Contributions of SST anomalies in the Indo-Pacific Oceans to the interannual variability of tropical cyclone genesis frequency over the western North Pacific. *J. Climate*, **32(11)**, 3357–3372, https://doi.org/10.1175/JCLI-D-18-0439.1.

173. Pedro Diaz, J., F. J. Exposito, J. C. Perez, A. J. Gonzalez, **Y. Wang**, L. Haimberger, and J. Wang, 2019: Long-term trends in marine boundary layer properties over the Atlantic Ocean. *J. Climate*, **32**, 2991–3004, https://doi.org/10.1175/JCLI-D-18-0219.1.

172. Deng, L., Y.-H. Duan, W.-H. Gao, and **Y. Wang**, 2019: Evolution of warm-rain microphysical properties in Typhoon Usagi (2013): A numerical modeling study. *Adv. Atmos. Sci.,* **36**(5), 510–526, doi:10.1007/s00376-019-8170-6.

171. Liu, L., J. Xu., **Y. Wang**, and Y.-H. Duan, 2019: Contribution of recycling of surface precipitation to landfalling tropical cyclone rainfall: A modeling study for Typhoon Utor (2013). *J. Geophys. Res. – Atmospheres,* **124**, 870–885, DOI: 10.1029/2018JD029380.

170. Dong, M.-Y., C.-X. Ji, F. Chen, and **Y. Wang**, 2019: A numerical study of boundary layer structure and rainfall after landfall of Typhoon Fitow (2013): Sensitivity to planetary boundary layer parameterization. *Adv. Atmos. Sci.*, **36(4)**, 431–450. DOI: 10.1007/s00376-018-7281-9.

169. Wang, H., **Y. Wang**, J. Xu, and Y.-H. Duan, 2019: The axisymmetric and asymmetric aspects of the secondary eyewall formation in a numerically simulated tropical cyclone under idealized conditions on an *f*-plane. *J. Atmos. Sci.*, **76**, 357–378, DOI: 10.1175/JAS-D-18-0130.1.

168. Zhao, J.-W., R.-F. Zhan, **Y. Wang**, and H.-M. Xu, 2018: Contribution of interdecadal Pacific oscillation to the recent abrupt decrease in tropical cyclone genesis frequency over the western North Pacific since 1998. *J. Climate*, 31(20), 8211–8224, DOI: https://doi.org/10.1175/JCLI-D-18-0202.1.

167. Zhang, C.-X., and **Y. Wang**, 2018: Why is the simulated climatology of tropical cyclones so sensitive to the choice of cumulus parameterization scheme in the WRF model? *Climate Dynamics,* **51**, 3613–3633. Doi: 10.1007/s00382-018-4099-1.

166. Lin, Y.-L., Y.-L Li, Q.-S Li, M.-Y. Chen, F.-H Xu, **Y. Wang**, and B. Huang, 2018: A long lasting vortex Rossby wave induced rainband of Typhoon Longwang (2005). *Bull.*

Amer. Meteor. Soc., **99**, 1127–1134. Doi: 10.1175/BAMS-D-17-0122.1

165. Heng, J.-Y., **Y. Wang**, and W.-C. Zhou, 2018: Reply to "Comments on 'Revisiting the balanced and unbalanced aspects of tropical cyclone intensification by Heng et al. 2017'", *J. Atmos. Sci.*, **75**, 2497–2505, DOI: 10.1175/JAS-D-18-0020.1.
164. Zhao, H., and **Y. Wang**, 2018: Phytoplankton increases induced by strong tropical cyclones in the South China Sea during 1998-2015. *J. Geophys. Res.–Oceans,* **123(13)**, 2903–2920. https://doi.org/10.1002/2017JC013549.
163. Liu, H.-Y., **Y. Wang**, J. Xu, and Y.-H. Duan, 2018: A dynamical initialization scheme for tropical cyclones under the influence of terrain. *Wea. Forecasting*, **33(3)**, 641–659, https://doi.org/10.1175/WAF-D-17-0139.1.
162. Zhao, J.-W., R.-F. Zhan, and **Y. Wang**, 2018: Global warming hiatus contributed to the increased occurrence of intense tropical cyclones in the coastal regions along East Asia. *Scientific Report*, (2018)8:6023, doi: 10.1038/s41598-018-24402-2.
161. Xu, J., and **Y. Wang**, 2018: Dependence of tropical cyclone intensification rate on sea surface temperature, storm intensity and size in the western North Pacific. *Wea. Forecasting*, **33(2)**, 523–537, https://doi.org/10.1175/WAF-D-17-0095.1
160. Long, J.-C., **Y. Wang**, and S.-P. Zhang, 2018: Intercomparison of cloud amount datasets in the Kuroshio region over the East China Sea. *J. Meteor. Soc. Japan*. **96**, 127–145, Doi: 10.2151/jmsj.2018-018.
159. Xu, J., and **Y. Wang**, 2018: Effect of the initial vortex structure on intensification of a numerically simulated tropical cyclone. *J. Meteor. Soc. Japan*. **96**, 111–126, Doi: 10.2151/jmsj.2018-014.
158. Fu, H., and **Y. Wang**, 2018: Effect of uncertainties in sea surface temperature dataset on the simulation of Typhoon Nangka (2015). *Atmos. Res. Lett.*, **19,** e797, https://doi.org/10.1002/asl.797.
157. Chen, X.-M., **Y. Wang**, J. Fang, and M. Xue, 2018: A numerical study of rapid intensification of Supertyphoon Vicente (2012) in the South China Sea. Part II: Roles of inner-core processes. *J. Atmos. Sci.*, **75**, 235–255, doi:10.1175/JAS-D-17-0129.1.
156. Niu, X.-R. S., Wang, et al., 2018: Ensemble evaluation and projection of climate extremes in China using RMIP models. *Intern. J. Climatol*., **38(4)**, 2039-2055, doi: 10.1002/joc.5315.
155. Zhan, R.-F., **Y. Wang**, and J.-W. Zhao, 2017: Intensified mega-ENSO has increased the proportion of intense tropical cyclones over the western Northwest Pacific since the late 1970s. *Geophys. Res. Lett.*, **44**, 11,959–11,966, doi:10.1002/2017GL075916.
154. Zhan, R.-F., **Y. Wang**, and Q.-Y. Liu, 2017: Salient differences in tropical cyclone activity over the western North Pacific between 1998 and 2016. *J. Climate*, **30(24)**, 9979–9997, doi: 10.1175/JCLI-D-17-0263.1.
153. Yu., Z.-F., **Y. Wang**, H.-M. Xu., Y.-D. Chen, and Y.-M. Chen, 2017: An observational study of axisymmetric and asymmetric rainfall structures in landfalling tropical cyclones over China. *J. Appl. Meteor. Climat*., **56(10)**, 2883–2901. doi: 10.1175/JAMC-D-16-0334.1.
152. Hu, H., Y.-H. Duan, **Y. Wang**, X.-H. Zhang, 2017: Diurnal Cycle of Rainfall Associated with Landfalling Tropical Cyclones in China from Rain-Gauge Observations. *J. Appl. Meteor. Climat.*, **56(9)**, 2595–2605, doi: /10.1175/JAMC-D-16-0335.1.
151. Heng, J.-Y., **Y. Wang**, and W.-C. Zhou, 2017: Revisiting the balanced and unbalanced aspects of tropical cyclone intensification. *J. Atmos. Sci.*, **74(8)**, 2575–2591. 10.1175/JAS-D-17-0046.1
150. Zhan, R.-F., and **Y. Wang**, 2017: Weak tropical cyclones dominate the poleward

migration of the annual mean location of lifetime maximum intensity of Northwest Pacific tropical cyclones since 1980. *J. Climate*, **30**，6873–6882. 10.1175/JCLI-D-17-0019.1

149. Zhang, C.-X., and **Y. Wang**, 2017: Projected future changes of tropical cyclone activity over the western North and South Pacific in a 20-km-mesh regional climate model. *J. Climate*, **30(15)**, 5923–5941. 10.1175/JCLI-D-16-0597.1
148. Zhang, C.-X., K. Hamilton, and **Y. Wang**, 2017: Monitoring and Projecting Snow on Hawaii Island. *Earth's Future*, **5**, doi:10.1002/2016EF000478.
147. Zhang, X.-H., Y.-H. Duan, **Y. Wang**, N. Wei, H. Hu, 2017: A high-resolution simulation of Supertyphoon Rammasun (2014). Part I: Model verification and surface energetics analysis. *Adv. Atmos. Sci.*, **34**, 757–770, doi:10.1007/s00376-017-6255-7.
146. Sakazaki, T., K. Hamilton, C.-X., Zhang, and **Y. Wang**, 2017: Is there a stratospheric pacemaker controlling the daily cycle of tropical rainfall? *Geophys. Res. Lett.*, **44**, doi:10.1002/2017GL072549.
145. Chen, X.-M., **Y. Wang**, K. Zhao, and D. Wu, 2017: A numerical study of rapid intensification of Supertyphoon Vicente (2012) in the South China Sea. Part I: Verification of simulation, storm-scale evolution, and environmental contribution. *Mon. Wea. Rev*., **145**, 877–898, doi: 10.1175/MWR-D-16-0147.1.
144. Li, Q.-Q., **Y. Wang**, and Y.-H. Duan, 2017: A numerical study of outer rainband formation in a sheared tropical cyclone. *J. Atmos. Sci.*, **74**, 203-227, DOI: 10.1175/JAS-D-16-0123.1.
143. **Wang, Y**., and J.-Y. Heng, 2016: Contribution of eye excess energy to the intensification rate of tropical cyclones – A numerical study. *J. Adv. Mod. Earth Sys.*, **8**, 1953–1968, DOI: 10.1002/2016MS000709.
142. Meng, W.-G., and **Y. Wang**, 2016a: A diagnostic study on heavy rainfall induced by Typhoon Utor (2013) in South China. Part I: Rainfall asymmetry at landfall. *J. Geophys. Res.*, **121 (21)**, 12,781–12,802, DOI: 10.1002/2015JD024646.
141. Meng, W.-G., and **Y. Wang**, 2016b: A diagnostic study on heavy rainfall induced by Typhoon Utor (2013) in South China. Part II: Post-landfall rainfall. *J. Geophys. Res.*, **121 (21)**, 12,803–12,819, DOI: 10.1002/2015JD024647.
140. Heng, J.-Y., and **Y. Wang**, 2016: Reply to "Comments on: Nonlinear response of a tropical cyclone vortex to prescribed eyewall heating with and without surface friction in TCM4: Implications for tropical cyclone intensification". *J. Atmos. Sci.*, **73(12)**, 5105–5109, DOI: 10.1175/JAS-D-16-0262.1.
139. Xu, J., **Y. Wang**, and Z.-M. Tan, 2016: The relationship between sea surface temperature and maximum potential intensification rate of tropical cyclones over the North Atlantic. *J. Atmos. Sci.*, **73(12)**, 4979–4988.
138. Zhang, C.-X., **Y. Wang**, K. Hamilton, and A. Lauer, 2016: Dynamical downscaling of the climate for the Hawaiian Islands. Part II: Projection for the late 21st century. *J. Climate*, **29(23)**, 8333–8354. DOI: 10.1175/JCLI-D-16-0038.1.
137. Wang, H., C.-C. Wu, and **Y. Wang**, 2016: Secondary eyewall formation in an idealized tropical cyclone simulation – Balanced and unbalanced dynamics. *J. Atmos. Sci.*, **73**, 3911–3930. DOI: 10.1175/JAS-D-15-0146.1.
136. Zhao, J.-W., R.-F. Zhan, **Y. Wang**, and L. Tao, 2016: Intensified interannual relationship between tropical cyclone genesis frequency over the Northwest Pacific and the SST gradient between the Southwest Pacific and the western Pacific Warm Pool since mid-1970s. *J. Climate*, **29(10)**, 3811–3830, DOI: 10.1175/JCLI-D-15-0729.1.

135. Zhang, C.-X., **Y. Wang**, K. Hamilton, and A. Lauer, 2016: Dynamical downscaling of the climate for the Hawaiian Islands. Part I: Present-day. *J. Climate*, **29**, 3017–3048，https://doi.org/10.1175/JCLI-D-15-0432.1.

134. Heng, J.-Y., and **Y. Wang**, 2016: Nonlinear response of a tropical cyclone vortex to prescribed eyewall heating with and without surface friction in TCM4: Implications for tropical cyclone intensification. *J. Atmos. Sci.*, **73**, 1315–1333, DOI: 10.1175/JAS-D-15-0164.1

133. Li, Q., S. Wang, D.-K. Lee, J.-P. Tang, X.-R. Niu, P.-H. Hui, W. J. Gutowski Jr., K. Dairaku, J. McGregor, J. Katzfey, X.-J. Gao, J. Wu, S.-Y. Hong, Y. Wang, H. Sasaki, 2016: Building Asian climate change scenario by multi-regional climate models ensemble. Part: II: Precipitation. *Intl. J. Climatol.*, **36(13)**, 4253–4264, doi:10.1002/joc.4633.

132. Tang, J.-P., Q. Li, S. Wang, D.-K. Lee, P.-H. Hui, X.-R. Niu, W. J. Gutowski Jr., K. Dairaku, J. McGregor, J. Katzfey, X.-J. Gao, J. Wu, S.-Y. Hong, Y. Wang, H. Sasaki, 2016: Building Asian climate change scenario by multi-regional climate models ensemble. Part: I: Surface air temperature. *Intl. J. Climatol.*, **36** (13), 4241–4252, doi:10.1002/joc.4628.

131. Ling, Z., **Y. Wang**, and G. Wang, 2016: Impact of intraseasonal oscillations on the activity of tropical cyclones in summer over the South China Sea. Part I: Local tropical cyclones. *J. Climate*, **29**, 855–868. Doi:10.1175/JCLI-D-15-0617.1

130. Zhan, R.-F., and **Y. Wang**, 2016: CFSv2-based statistical prediction for seasonal accumulated cyclone energy (ACE) over the western North Pacific. *J. Climate*, **29**, 525–541. Doi: 10.1175/JCLI-D-15-0059.1

129. Ma, Z.-H, J.-F. Fei, X.-P. Cheng, **Y. Wang**, and X.-G. Huang, 2015: Contributions of surface sensible heat fluxes to tropical cyclone. Part II: The sea spray processes. *J. Atmos. Sci.*, **72**, 4218–4236. Doi:10.1175/JAS-D-15-0058.1

128. **Wang, Y**., Y. Rao, Z.-M. Tan, and D. Schonemann, 2015: A statistical analysis of the effects of vertical wind shear on tropical cyclone intensity change over the western North Pacific. *Mon. Wea. Rev*., **143**, 3434–3453.

127. Qi., L., and **Y. Wang**, 2015: Discrepancies in different precipitation data products in the Bay of Bengal (BoB) during summer monsoon season. *Adv. Meteor.*, **2015**, ID 806845, 13pp. http://dx.doi.org/10.1155/2015/806845.

126. He, H.-Z., J. Yang, D.-Y. Gong, R. Mao, **Y. Wang,** and M.-N. Gao, 2015: Decadal changes in tropical cyclone activity over the western North Pacific in the late 1990s. *Climate Dynamics*, DOI 10.1007/s00382-015-2541-1.

125. Niu, X.-R., J.-P. Tang , D.-K. Lee, W. Gutowski, Jr. , K. Dairaku , J. McGregor, J. Katzfey, X.-J. Gao, J. Wu , S.-Y. Hong, **Y. Wang** , and H. Sasaki, 2015: Projection of Indian summer monsoon climate in 2041-2060 by Multi-regional and global climate models. *J. Geophys. Res*. *– Atmospheres*, **120**, 1776–1793, doi: 10.1002/2014/D02262.

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