Professor FENG Guolin

College	College of Physical Science and Technology
Current Position	Professor
Types of Tutor	Doctoral Tutor
Language	Chinese/English
Education	Graduated as a bachelor of science from Beijing Normal University in 1988; Study nonlinearity and got a master degree in Beijing Normal University and Chinese Academy of Meteorological Science during 1991-1994; Research the mechanism behind the atmospheric system and got a PHD in Lanzhou University during 1999-2002; Work for the Institute of Atmospheric Physics, Chinese Academy of Science as a post doctor during 2022-2004
Research Interests	Climate change , Short-term prediction , Multi-coupled climate models
Selected Publications	1. **Feng GL**, Sun SP, Zhao JH and Zheng ZH. Analysis of stable components for extended-range (10–30 days) weather forecast: A case study of continuous overcast-rainy process in early 2009 over the mid-lower reaches of the Yangtze River. Science China Earth Sciences, 2013, 56(9): 1576-1587. 2. **Feng GL** and Wu YP. Signal of Acceleration and Physical Mechanism of Water Cycle in Xinjiang, China. Plos One, 2016, 11(12): 1-12. **SCI 收录** 3. **Feng GL**, Zou M, Qiao S, Zhi R and Gong ZQ. The changing relationship between the December North Atlantic Oscillation and the following February East Asian trough before and after the 1980s. Climate Dynamics, 2018, doi: 10.1007/s00382-018-4165-8. **SCI 收录** 4. Feng AX, Fu CH, Xu XL and **Feng GL***. An extended clique degree distribution and its

	heterogeneity in cooperation–competition networks. Physica A: Statistical Mechanics and Its Applications, 2012, 391(7): 2454-2462. **SCI 收录** 5. Yang P, Hou W and **Feng GL***. The characterisctics of clusters in weather and climate extreme events in China during the past 50 years. Chinese Physics B, 2012, 21(1): 549-577. 6. Zhao JH, **Feng GL*** and Zhi R. Progresses and prospects on research for season division and changes in China. Journal of Tropical Meteorology, 2013, 19(1): 28-38. **SCI 收录** 7. Wang K and **Feng GL***. Analysis of stable components in the extended-range forecast for the coming 10-30 days in winter 2010 and 2011. Chinese Physics B, 2013, 22(12): 574-581. **SCI 收录** 8. Zhao JH and **Feng GL***. Reconstruction of conceptual prediction model for the three rainfall patterns in the summer of eastern China under global warming. Science China Earth Sciences, 2014, 57(12): 3047-3061. 9. Gong ZQ, Zhao JH, **Feng GL*** and Chou JF. Dynamic-statistics combined forecast scheme based on the abrupt decadal change component of summer precipitation in East Asia. Science China Earth Sciences, 2015, 58(3): 404-419. **SCI 收录** 10. Su T and **Feng GL***. Spatial-temporal variation characteristics of global evaporation revealed by eight reanalyses. Science China Earth Sciences, 2015, 58(2): 255-269. 11. Wu YP and **Feng GL***. A new algorithm for seasonal precipitation forecast based on global atmospheric hydrological water budget. Applied Mathematics and Computation, 2015(C), 268: 478-488. **SCI 收录** 12. Wu YP, Cao HX and **Feng GL***. Prospective Study on Applications of Non-Equilibrium

	Thermodynamics to Climate Modeling. Journal of Coastal Research, 2015, 494(73): 342-347. **SCI 收录** 13. Tao Su, **Feng GL***, Jie Zhou and Min Y. The response of actual evaporation to global warming in China based on six reanalysis datasets. International Journal of Climatology, 2015, 35(11): 3238-3248. **SCI 收录** 14. Su T, Feng TC and **Feng GL***. Evaporation variability under climate warming in five reanalyses and its association with pan evaporation over China. Journal of Geophysical Research: Atmospheres, 2015, 120(16): 8080-8098. **SCI 收录** 15. Qiao SB, Gong ZQ, **Feng GL*** and Qian ZH. Relationship between cold winters over Northern Asia and the subsequent hot summers over mid‐lower reaches of the Yangtze River valley under global warming. Atmospheric Science Letters, 2015, 16(4): 479-484. 16. Wu YP, **Feng GL*** and Li BL. Interactions of Multiple Atmospheric Circulation Drive the Drought in Tarim River Basin. Scientific Reports, 2016, 6: 26470. **SCI 收录** 17. Qiao SB and **Feng GL***. Impact of the December North Atlantic Oscillation on the following February East Asian trough. Journal of Geophysical Research: Atmospheres, 2016, 121(17): 10074-10088.**SCI 收录** 18. Zhao JH, Yang L, Gu BH, Yang J and **Feng GL***. On the Relationship between the Winter Eurasian Teleconnection Pattern and the Following Summer Precipitation over China. Advances in Atmospheric Sciences , 2016, 33(6): 743-752. **SCI 收录** 19. Chu QC, Wang QG, Qiao SB and **Feng GL***. Feature analysis and primary causes of pre-flood season “cumulative effect” of torrential rain over South China. Theoretical and Applied Climatology, 2018, 131(1-2): 91-100.

	20. Yan PC, Hou W and **Feng GL***. Transition process of abrupt climate change based on global sea surface temperature over the past century. Nonlinear Processes in Geophysics, 2016, 23(3): 115–126. 21. Yang L, Zhao JH and **Feng GL***. Classification of Typical Summer Rainfall Patterns in the East China Monsoon Region and their Association with the East Asian Summer Monsoon. Theoretical and Applied Climatology, 2017, 129(3-4): 1201-1209. 22. Chu QC, Wang QG, Qiao SB and **Feng GL***. Spatial-temporal characteristics of the "Cumulative Effect" of Torrential Rain over South China. Theoretical and Applied Climatology, 2017, 127(3-4): 911-921. 23. Chu QC, Wang QG and **Feng GL***. Determination of the major moisture sources of cumulative effect of torrential rain events during the preflood season over South China using a Lagrangian particle model. Journal of Geophysical Research Atmospheres, 2017, 122(16): 8369-8382. **SCI 收录** 24. Gong ZQ, Dogar M M, Qiao SB and **Feng GL***. Assessment and correction of BCC-CSM's performance in capturing leading modes of summer precipitation over North Asia. International Journal of Climatology, 2017, 38(5): 2201-2214. 25. Cheng JB, Xu ZH, Hu P, Hou XY, Gao CB and **Feng GL***. Significant role of orography in shaping the Northern Hadley circulation and its poleward expansion during boreal summer. Geophysical Research Letters, 2018, 45(13): 6619-6627. 26. Han Z, Su T, Huang B, Feng T, Qu S, **Feng GL***. Changes in global monsoon precipitation and the related dynamic and thermodynamic mechanisms in recent decades. International Journal of Climatology. 2018, doi:org/10.1002/joc.5896. 27. Zixuan Han, Tao Su, Qiong Zhang, Qin Wen, Guolin

	Feng*，Thermodynamic and dynamic effects of increased moisture sources over the Tropical Indian Ocean in recent decades. Climate Dynamics.2019.0906, 53(11),7081-7096. （SCI 一区） 28. Wang Zheng, Feng Guolin, Zhi Rong, Hu Po. Seasonal Division of 850 hPa South China Sea based on Multi-Element Atmospheric Condition Similarity. Theoretical and Applied Climatology, 2019.11 https://doi.org/10.1007/s00704-019-03025-1（SCI 三区） 29. Wang Zheng, Zhi Rong, Wang Yu, Feng Guolin, Partition of Season Based on Multi-elements and the Decadal Change of Season Duration in China, Journal of Tropical Meteorology，2019, 25(3): 385-398. 30. Feng Guolin*, The Roles of Moisture Transports in Intraseasonal Precipitation during the Preflood Season over South China. International Journal of Climatology. 2019.09.19, doi:10.1002/2016JD026426 (页码范围) （SCI 二区） 31. Feng Guolin*, Roles of moisture sources and transport in precipitation variabilities during boreal summer over East China. Climate Dynamics，2019.6．24 （SCI 一区） 32. Zhao Yuheng, Feng Guolin*, Zheng Zhihai, Zhang Daquan, Evolution of tropical interannual sea surface temperature variability and its connection with boreal summer atmospheric circulations. International Journal of Climatology, 2019, DOI:10.1002/joc.6361 33. Liu Gang Qu Meihui Feng Guolin Chu Qucheng Cao Jing Yang Jie Cao Ling Feng Yao, Application study of monthly precipitation forecast in Northeast China based on the cold vortex persistence activity index, Theoretical And

	Applied Climatology, 2019, 135(34): 1079-1090.
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