Curriculum vitae

PERSONAL INFORMATION

Family name, First name: **He**, **Shengping**

Date of birth: 23.11.1985; Nationality: China

Researcher ID: A-4084-2017; https://www.webofscience.com/wos/author/rid/A-4084-2017

URL for web site: https://www.uib.no/en/persons/Shengping.He

My research themes include climate variability, climate change, and climate predictability over the Northern Hemisphere. I have been the **project leader of four research projects:** two on-going projects funded by the Research Council of Norway (NOK 22 million, 2021-2026) and two completed projects funded by the National Natural Science Foundation of China (NOK 1.3 million, 2016-2020) (see Section 3 in application).

Since 2012, I have authored or co-authored **72 peer review publications** (first author and/or corresponding author: 42%), 40 of which have been published during 2019-2024. According to the Web of Science, 64 of these have been cited a total of 1946 times (the latest ones have no citations yet), with an average citation rate of 30 and an h-index of 26.

I am now leading two research projects to understand the causes and impacts of an **unforeseen Arctic change**, which has been previously overlooked by scientific community, that the extent and the volume of newly-formed sea ice in winter have been increasing from the late 2010s, and will continue to do so until the middle of this century [1][2]. I have proposed **a novel perspective** on the impacts of deep Arctic warming [3] which has enlightened many studies (e.g., Labe et al. (https://doi.org/10.1029/2020GL088583) stated that "*deep tropospheric warming may be important in resolving the mechanisms driving the "warm Arctic, cold Siberia" temperature anomaly pattern*"). I have contributed to the understanding of seasonal climate prediction skills due to summer sea ice anomalies. One of my studies has been awarded **Esteemed Original Paper Prize** (one of six in 2020) by *Advances in Atmospheric Sciences* based on their download statistics from SpringerLink and ISI citations [4]. I was **among the pioneers** to point out that ENSO has unstable impacts on the mid-latitude atmospheric circulation [5][6] which have been **recognized by the latest IPCC Sixth Assessment Report**. I have published **the first synthesis paper** [7] which has integrated the mechanistic understandings on how the Arctic Oscillation impacts the East Asian summer monsoon, winter monsoon, and precipitation. I have contributed **to the IPCC Special Report as a chapter scientist** [8].

References from 72 publications (Those publications with me being corresponding authors are indicated by ✉. Authors under my supervision are underlined)

[1] **He S.**✉, D. Helge, T. Furevik, H. Wang, K. Fan, L. Graff, Y. J. Orsolini, 2024: Relative impacts of sea ice loss and atmospheric internal variability on winter Arctic to East Asian surface air temperature based on large-ensemble simulations with NorESM2. *Advances in Atmospheric Sciences*, Doi: doi.org/10.1007/s00376-023-3006-9

[2] Zhao J., **S. He**✉, K. Fan, H. Wang, and F. Li, 2024: Projecting wintertime newly formed Arctic sea ice through weighting CMIP6 model performance and independence. *Advances in Atmospheric Sciences*, 1-18. (1 citation)

[3] **He S.**✉, X. Xu, T. Furevik, and Y. Gao, 2020: Eurasian cooling linked to the vertical distribution of Arctic warming. *Geophysical Research Letters*, 47(10): e2020GL087212. (89 citations)

[4] **He S.**✉, Y. Gao, T. Furevik, H. Wang, and F. Li, 2018: Teleconnection between sea ice in the Barents Sea in June and the Silk Road, Pacific–Japan and East Asian rainfall patterns in August. *Advances in Atmospheric Sciences*, 35(1), 52-64. (61 citations)

[5] Wang H. and **S. He**, 2012: Weakening relationship between East Asian winter monsoon and ENSO after mid-1970s. *Chinese Science Bulletin*, 57, 3535-3540. (194 citations)

[6] **He S.**✉, H. Wang, J. Liu, 2013: Changes in the relationship between ENSO and Asia–Pacific midlatitude winter atmospheric circulation. Journal of Climate, 26(10), 3377-3393.

[7] **He S.**✉, Y. Gao, F. Li, H. Wang, and Y. He, 2017: Impact of Arctic Oscillation on the East Asian climate: A review. Earth-Science Reviews 164, 48-62 (2017). (228 citations)

[8] Meredith M., M. Sommerkorn, S. Cassotta, C. Derksen, A. Ekaykin, A. Hollowed, G. Kofinas, A. Mackintosh, J. Melbourne-Thomas, M.M.C. Muelbert, G. Ottersen, H. Pritchard, and E.A.G. Schuur, 2019: Polar Regions. In: IPCC Special Report on the Ocean and Cryosphere in a Changing Climate [H.-O. Pörtner, D.C. Roberts, V. Masson-Delmotte, P. Zhai, M. Tignor, E. Poloczanska, K. Mintenbeck, A. Alegría, M. Nicolai, A. Okem, J. Petzold, B. Rama, N.M. Weyer (eds.)]. Cambridge University Press, Cambridge, UK and New York, NY, USA, pp. 203–320. **Chapter Scientist**: **S. He** (Norway/China), V. Peck (United Kingdom).

• EDUCATION

2014 PhD in Meteorology, **Award date**: 06.07.2014
Institute of Atmospheric Physics, University of Chinese Academy of Sciences, China
Name of PhD Supervisor: Hui-Jun Wang, Academician of Chinese Academy of Sciences
Title of thesis: Unstable impact of ENSO and Arctic Oscillation on the East Asian winter climate and possible mechanisms

2012 MSc in Atmospheric Science
Institute of Atmospheric Physics, University of Chinese Academy of Sciences, China

• CURRENT POSITION(S)

2021 – present **Research Scientist** and **project leader**
Geophysical Institute, Faculty of Mathematics and Natural Sciences, UiB, Norway

2022 – present **Adjunct Researcher**
Nansen Environmental and Remote Sensing Center (NERSC), Norway

2021 –present **Coordinator** for the bilateral collaboration in climate research and education
Nansen-Zhu International Research Centre (NZC). NZC consists of three Norwegian and five Chinese leading universities/institutions, including: ① NERSC; ② UiB; ③ Norwegian Research Centre AS (NORCE), Bergen, Norway; ④ Institute of Atmospheric Physics, Chinese Academy of Sciences (IAP/CAS), Beijing, China; ⑤ Peking University (PKU), Beijing, China; ⑥ Nanjing University (NJU), Nanjing, China; ⑦ Nanjing University of Information and Science & Technology (NUIST), Nanjing, China; ⑧ Fudan University (FDU), Shanghai, China

• PREVIOUS POSITIONS

2016 – 2021 **Postdoctoral fellow**
Geophysical Institute, Faculty of Mathematics and Natural Sciences, UiB, Norway

2018 – 2018 **Chapter Scientist** - IPCC special report on the ocean and cryosphere in a changing climate
Geophysical Institute, Faculty of Mathematics and Natural Sciences, UiB, Norway

2014 – 2016 **Research Assistant**
Institute of Atmospheric Physics, Chinese Academy of Sciences, China

• FELLOWSHIPS AND AWARDS

2020 **Esteemed Original Paper Prize** (one of six)
Awarded by *Advances in Atmospheric Sciences*. These papers are selected based on their download statistics from SpringerLink and their ISI citations.
Paper title: "*Teleconnection between sea ice in the Barents Sea in June and the Silk Road, Pacific-Japan and East Asian rainfall patterns in August*"

2014 **Excellent PhD Dissertations** (success rate: 16%)
Awarded by the University of Chinese Academy of Sciences/China

2014 **Outstanding Graduates Award** (success rate:16%)
Awarded by the University of Chinese Academy of Sciences/China

2013 **President Award** (success rate: 1.5%)
One of the most valuable awards in postgraduate scholarships, for those having outstanding achievements in scientific research and technological innovation
Awarded by the Chinese Academy of Sciences/China

2013-2014 **National PhD Fellowships** (success rate: 0.2%)
Awarded by the Ministry of Education of the People's Republic of China

• TEACHING ACTIVITIES

2018 ***Teaching Assistant*** – Models and Methods in Numerical Weather Prediction (Master level), University of Bergen/Geophysical Institute/ Norway

2017 ***Teaching Assistant*** – Causes of Climate Change (Graduate level), University of Bergen/Geophysical Institute/Norway

• SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS

2013 –present I am/have been main supervisor of 7 PhD students, and 1 MSc student (at UiB; University of Chinese Academy of Sciences, China; NUIST, China). Number of students graduated thus far: 5 PhD and 1 MSc.

• PROJECT MANAGEMENT EXPERIENCE

2022-2026 Project leader; Title: "Mechanism and prediction on new Arctic climate system (MAPARC)"; Source: Research Council of Norway; Amount: ~ NOK 10 million

2021-2025 Project leader; Title: "Climate response to a bluer Arctic with increased newly-formed winter sea ice (BASIC)"; Source: Research Council of Norway; Amount: ~ NOK 12 million

2018-2020 Project leader; Title: "Mechanisms and prediction on the sub-seasonal change of Eurasian winter climate"; Source: National Natural Science Foundation of China; Amount: ~ NOK 900,000

2016-2018 Project leader; Title: "Interdecadal change in the impact of Arctic Oscillation on the East Asian wintertime sub- seasonal weather and climate"; Source: National Natural Science Foundation of China. Amount: ~ NOK 440 000

• ORGANISATION OF SCIENTIFIC MEETINGS (selected)

2023-10 **Organizer committee and Lecturer**
Event: 20-year Anniversary of Nansen-Zhu Centre and the 9th Summer School
Participants: Over 150 participants in person in Beijing, from UiB, NERSC, NORCE, IAP/CAS, NJU, PKU, NUIST, FDU, etc.
Lecture title: Arctic climate change and its impacts
Country: China

2023-04 **Co-convenor**
Event: EGU 2023 – CL2.5: Extreme climate events: variability, mechanisms, and prediction
Participants: 38 oral presentations and 19 posters – One of the most popular sessions
Country: Vienna, Austria

2022-09 **Organizing Committee Leader**; **Role**: organizing the meeting, coordinating the national and international collaborators.
Event: International symposium in remembrance of Prof. Yongqi Gao (hybrid)
Participants: Over 40 participants in person in Bergen venue, about 30 and 25 participants in person in Beijing and Nanjing venues (China) with additional over 120 participants online; over 20 national/international institutions involved
Countries: Norway and China

2018-07 **Organizer committee and Lecturer**; **Role**: coordinating with the Chinese collaborators
Event: "ARCPATH/CONNECTED Summer School", **lecture title**: "Climate Teleconnection: Linkage the Arctic warming to lower latitudes"
Participants: 27 master/PhD students: 7 students from Norway, 6 from other European countries, 2 from Russia, and 12 from China
Country: Norway

• INSTITUTIONAL RESPONSIBILITIES

2021 –present **Research School Leader** at Nansen-Zhu International Research Centre, Chinese Academy of Sciences/ Institute of Atmospheric Physics/China

• REVIEWING ACTIVITIES

Proposal reviewers

2020- Proposal reviewer at the National Natural Science Foundation of China (**6** proposals)

2020 Book proposal reviewer at Elsevier, "Thermal Physics of the Atmosphere, 2e."

Reviewer for journals (93 Verified Peer Reviews**)**

2013 – present (>20 journals) Nature Climate Change, Geophysical Research Letters, *Journal of Geophysical Research*, Journal of Climate, *Atmospheric Research*, Climate Dynamics, *Atmospheric Chemistry and Physics*, International Journal of Climatology, *Atmospheric Science Letters*, Advances in Atmospheric Sciences, *npj Climate and Atmospheric Science*, Journal of Atmospheric Sciences, *Ocean Engineering*, Environmental Research Letters, etc

• MAJOR COLLABORATIONS

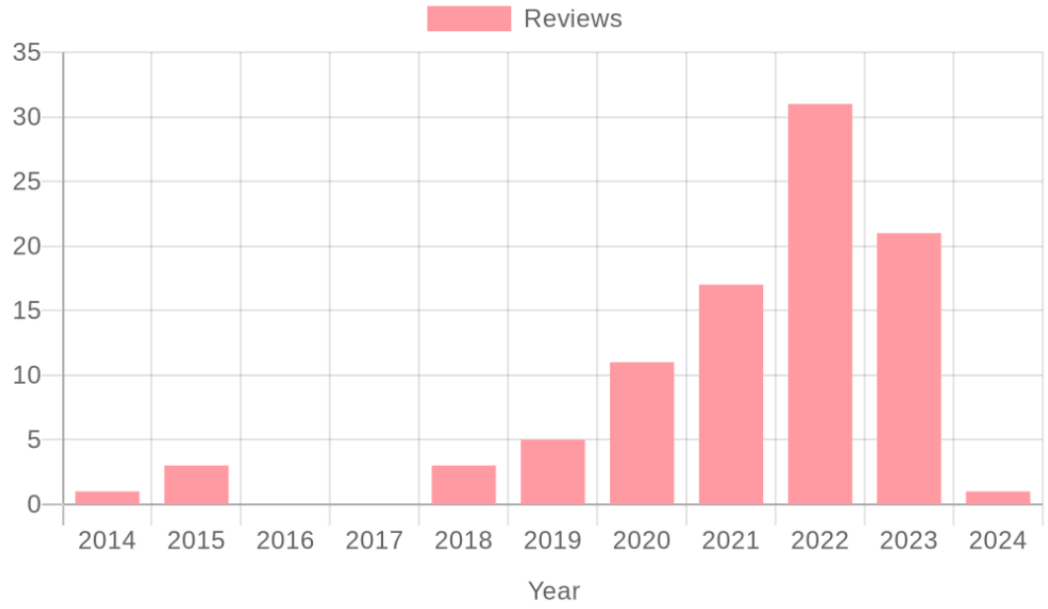
Tore Furevik Director of Nansen Environmental and Remote Sensing Center, Topic: *Causes and impacts of Arctic climate change*; Norway

Martin Sommerkorn Head of Conservation of the WWF Arctic Programme, Topic: *IPCC Special Report on the Ocean and Cryosphere in a Changing Climate*; Sweden.

D.W.J. Thompson Professor, Topic: *Predictive skill of high-latitude climate due to midsummer sea-ice extent anomalies,* Department of Atmospheric Science, Colorado State University; USA

Hui-Jun Wang Academician of Chinese Academy of Sciences, Topic: *Variability and predictability of Eurasian climate*, Nanjing University of Information Science & Technology; China

VERIFIED REVIEWS – In total 93 (from Web of Science)



PUBLICATIONS – in tatol 72 (Those publications with me being corresponding authors are indicated by✉. Authors under my supervision are underlined)
Total Citations: 1946 (2378) in Web of Science (Google Scholar). Updated: 26 February 2024
H-Index: 26 (27) in Web of Science (Google Scholar)
The citations of the top-20 cited publications have been highlighted in red.

2024:

1. **He S.✉,** D. Helge, T. Furevik, H. Wang, K. Fan, L. Graff, Y. J. Orsolini. Relative impacts of sea ice loss and atmospheric internal variability on winter Arctic to East Asian surface air temperature based on large-ensemble simulations with NorESM2. Advances in Atmospheric Sciences, 2024, Doi: doi.org/10.1007/s00376-023-3006-9
2. Li D., K. Fan, **S. He**. Thermodynamic and dynamic contributions to the abrupt increased winter Arctic sea ice growth since 2008. Environmental Research Letters, 19(1), 2024. DOI 10.1088/1748-9326/ad13b7

2023:

3. **He S.✉,** T. Furevik, H. Wang, F. Li & M. Duan. Impacts of the extratropical North Pacific on boreal summer Arctic circulation. Atmospheric and Oceanic Science Letters 16 (2023). https://doi.org:10.1016/j.aosl.2023.100405
4. Xu X., **S. He✉,** B. Zhou, H. Wang & B. Sun. Arctic Warming and Eurasian Cooling: Weakening and Reemergence. Geophysical Research Letters 50 (2023). https://doi.org:10.1029/2023gl105180
5. Han T., **S. He,** B. Zhou, S. Li & X. Hao. Interdecadal Changes in the Linkage Between North Pacific Oscillation During May and Northeast China Precipitation During Mid-Summer: The Influence of North Atlantic Oscillation. Earth's Future 11 (2023). https://doi.org:10.1029/2023ef003754
6. Zhao J., **S. He✉** & H. Wang. Role of Atmosphere–Ocean–Ice Interaction in the Linkage between December Bering Sea Ice and Subsequent February Surface Air Temperature over North America. Journal of Climate 36, 1679-1696 (2023).
7. Outten S., Camille Li, Martin P. King, Lingling Suo, Peter Y. F. Siew, Hoffman Cheung, Richard Davy, Etienne Dunn-Sigouin, Tore Furevik, **Shengping He**, Erica Madonna, Stefan Sobolowski, Thomas Spengler, and Tim Woollings. Reconciling conflicting evidence for the cause of the observed early 21st century Eurasian cooling. Weather and Climate Dynamics 4, 95-114 (2023).

2022:

8. Zhao J., **S. He**✉**,** H. Wang & F. Li. Constraining CMIP6 Projections of an Ice-Free Arctic Using a Weighting Scheme. Earth's Future 10, e2022EF002708 (2022).
9. Zhao J., **S. He**✉ & H. Wang. Historical and future runoff changes in the Yangtze River Basin from CMIP6 models constrained by a weighting strategy. Environmental Research Letters 17, 024015 (2022).
10. Xu X., **S. He** ✉**,** B. Zhou, H. Wang & S. Outten. The Role of Mid-latitude Westerly Jet in the Impacts of November Ural Blocking on Early-Winter Warmer Arctic-Colder Eurasia Pattern. Geophysical Research Letters 49, e2022GL099096 (2022).
11. Xu X., **S. He**✉**,** B. Zhou & H. Wang. Atmospheric contributions to the reversal of surface temperature anomalies between early and late winter over Eurasia. Earth's Future 10, e2022EF002790 (2022).
12. Fan Q., X. Xu, **S. He** & B. Zhou. The extreme Arctic warm anomaly in November 2020. Atmospheric and Oceanic Science Letters 15, 100260 (2022).

2021:

13. Zhang Y., Z. Yin, H. Wang & **S. He**. 2020/21 record-breaking cold waves in east of China enhanced by the 'Warm Arctic-Cold Siberia'pattern. Environmental Research Letters 16, 094040 (2021).
14. Xu X., **S**. **He**✉, Y. Gao, B. Zhou & H. Wang. Contributors to linkage between Arctic warming and East Asian winter climate. Climate Dynamics 57, 2543-2555 (2021).
15. Li J., F. Li, **S**. **He,** H. Wang & Y. J. Orsolini. The Atlantic multidecadal variability phase dependence of teleconnection between the North Atlantic oscillation in February and the Tibetan Plateau in March. Journal of Climate 34, 4227-4242 (2021).
16. Li H., K. Fan, **S. He**✉**,** Y. Liu & H. Wang. Recent Intensified Influence of the Winter North Pacific Sea Surface Temperature on the Mei-Yu Withdrawal Date. Journal of Climate 34, 3869-3887 (2021).
17. Li H., K. Fan**, S. He**✉**,** Y. Liu, X. Yuan, H. Wang. Intensified impacts of central pacific ENSO on the reversal of December and January surface air temperature anomaly over China since 1997. Journal of Climate 34, 1601-1618 (2021).
18. **He, S.**✉, H. Wang, H. Li & J. Zhao. Principles of machine learning and its potential applications in climate prediction. Journal of Atmospheric Sciences 44, 26-38 (2021).

2020:

19. Xu X., **S. He** ✉ & H. Wang. Relationship between Solar Wind—Magnetosphere Energy and Eurasian Winter Cold Events. Advances in Atmospheric Sciences 37, 652-661 (2020).
20. Xu X., **S. He** ✉**,** T. Furevik, Y. Gao, H. Wang, F. Li, F. Ogawa. Oceanic forcing of the global warming slowdown in multi-model simulations. International Journal of Climatology 40, 5829-5842 (2020).
21. Shen H., F. Li, **S. He,** Y. J. Orsolini & J. Li. Impact of late spring Siberian snow on summer rainfall in South-Central China. Climate Dynamics 54, 3803-3818 (2020).
22. Lü Z., F. Li, Y. J. Orsolini, Y. Gao & **S. He.** Understanding of european cold extremes, sudden stratospheric warming, and siberian snow accumulation in the winter of 2017/18. Journal of Climate 33, 527-545 (2020).
23. Liu Y. & **S. He.** Strengthened linkage between November/December North Atlantic Oscillation and subsequent January European precipitation after the late 1980s. Journal of Climate 33, 8281-8300 (2020). (39 citations)
24. Li S., **S. He,** F. Li & H. Wang. Precursor in Arctic oscillation for the East Asian January temperature and its relationship with stationary planetary waves: Results from CMIP5 models. International Journal of Climatology 40, 1492-1511 (2020).
25. Li J., F. Li, **S. He,** H. Wang & Y. J. Orsolini. Influence of December snow cover over North America on January surface air temperature over the midlatitude Asia. International Journal of Climatology 40, 572-584 (2020).

26. Li H., **S. He,** Y. Gao, H. Chen & H. Wang. North Atlantic modulation of interdecadal variations in hot drought events over northeastern China. Journal of Climate 33, 4315-4332 (2020). (51 citations)
27. **He S.**✉**,** X. Xu, T. Furevik & Y. Gao. Eurasian cooling linked to the vertical distribution of Arctic warming. Geophysical Research Letters 47, e2020GL087212 (2020). (89 citations)
28. **He S.**✉**,** H. Wang, F. Li, H. Li & C. Wang. Solar-wind–magnetosphere energy influences the interannual variability of the northern-hemispheric winter climate. National Science Review 7, 141-148 (2020).
29. Sayedeh S., B. Abbott, B. Thornton, J. Frederick, J. Vonk, P. Overduin, C. Schädel, E. Schuur, A. Bourbonnais, N. Demidov, A. Gavrilov, **S. He**, G. Hugelius, M. Jakobsson, M. Jones, D. Joung, G. Kraev, R. Macdonald, A. McGuire, C. Mu, M. O'Regan, K. Schreiner, C. Stranne, E. Pizhankova, A. Vasiliev, S. Westermann, J. Zarnetske, T. Zhang, M. Ghandehari, S. Baeumler, B. Brown and R. Frei, 2020: Subsea permafrost carbon stocks and climate change sensitivity estimated by expert assessment. Environmental Research Letters, 15(12): 124075

2019:

30. Meredith M., M. Sommerkorn, S. Cassotta, C. Derksen, A. Ekaykin, A. Hollowed, G. Kofinas, A. Mackintosh, J. Melbourne-Thomas, M.M.C. Muelbert, G. Ottersen, H. Pritchard, and E.A.G. Schuur, 2019: Polar Regions. In: IPCC Special Report on the Ocean and Cryosphere in a Changing Climate [H.-O. Pörtner, D.C. Roberts, V. Masson-Delmotte, P. Zhai, M. Tignor, E. Poloczanska, K. Mintenbeck, A. Alegría, M. Nicolai, A. Okem, J. Petzold, B. Rama, N.M. Weyer (eds.)]. Cambridge University Press, Cambridge, UK and New York, NY, USA, pp. 203–320. Chapter Scientist: **S. He** (Norway/China), V. Peck (United Kingdom)
31. Yang R., J. Wang, T. Zhang & **S**. **He.** Change in the relationship between the Australian summer monsoon circulation and boreal summer precipitation over Central China in the late 1990s. Meteorology and Atmospheric Physics 131, 105-113 (2019).
32. Xu X., **S. He**✉**,** Y. Gao, T. Furevik, H. Wang, F. Li & F. Ogawa. Strengthened linkage between midlatitudes and Arctic in boreal winter. Climate Dynamics 53, 3971-3983 (2019).
33. Shen H., **S. He,** & H. Wang. Effect of summer Arctic sea ice on the reverse August precipitation anomaly in eastern China between 1998 and 2016. Journal of Climate 32, 3389-3407 (2019).
34. Lü Z., **S. He**, F. Li, & H. Wang. Impacts of the autumn Arctic sea ice on the intraseasonal reversal of the winter Siberian High. Advances in Atmospheric Sciences 36, 173-188 (2019).
35. Liu Y., **S. He,** F. Li, H. Wang, & Y. Zhu. Unstable relationship between the Arctic Oscillation and East Asian jet stream in winter and possible mechanisms. Theoretical and Applied Climatology 135, 13-27 (2019).
36. Li H., C. Wang, **S. He**, H. Wang, C. Tu, J. Xu, F. Li, X. Guo. Plausible modulation of solar wind energy flux input on global tropical cyclone activity. Journal of Atmospheric and Solar-Terrestrial Physics 192, 104775 (2019).
37. Li H., **S. He**, K. Fan, & H. Wang. Relationship between the onset date of the Meiyu and the South Asian anticyclone in April and the related mechanisms. Climate Dynamics 52, 209-226 (2019). (48 citations)
38. **He S.**✉, H. Wang, Y. Gao, & F. Li. Recent intensified impact of December Arctic Oscillation on subsequent January temperature in Eurasia and North Africa. Climate Dynamics 52, 1077-1094 (2019).
39. Hao X., **S. He,** H. Wang, & T. Han. Quantifying the contribution of anthropogenic influence to the East Asian winter monsoon in 1960–2012. Atmospheric Chemistry and Physics 19, 9903-9911 (2019).
40. Han T., **He S.,** H. Wang & X. Hao. Variation in principal modes of midsummer precipitation over Northeast China and its associated atmospheric circulation. Advances in Atmospheric Sciences 36, 55-64 (2019).

2018:

41. Xu X., F. Li, **S. He,** & H. Wang. Subseasonal reversal of East Asian surface temperature variability in winter 2014/15. Advances in Atmospheric Sciences 35, 737-752 (2018).
42. Xu X., **S. He,** F. Li, F. & H. Wang. Impact of northern Eurasian snow cover in autumn on the warm Arctic–cold Eurasia pattern during the following January and its linkage to stationary planetary waves. Climate Dynamics 50, 1993-2006 (2018). (39 citations)
43. Xu L., **S. He**, F. Li, J. Ma, & H. Wang. Numerical simulation on the southern flood and northern drought in summer 2014 over Eastern China. Theoretical and Applied Climatology 134, 1287-1299 (2018).
44. Wei T., **S. He,** Q. Yan, W. Dong & X. Wen. Decadal shift in west China autumn precipitation and its association with sea surface temperature. Journal of Geophysical Research: Atmospheres 123, 835-847 (2018).
45. Han T., **S. He,** H. Xin, & H. Wang. Recent interdecadal shift in the relationship between Northeast China's winter precipitation and the North Atlantic and Indian Oceans. Climate dynamics 50, 1413-1424 (2018). (37 citations)
46. Li S., **S. He**, F. Li & H. Wang. Simulated and projected relationship between the East Asian winter monsoon and winter Arctic Oscillation in CMIP5 models. Atmospheric and Oceanic Science Letters 11, 417-424 (2018).
47. Li F., Y. J. Orsolini, H. Wang, Y. Gao & **S. He.** Atlantic multidecadal oscillation modulates the impacts of Arctic sea ice decline. Geophysical Research Letters 45, 2497-2506 (2018).
48. Li F., Y. J. Orsolini, H. Wang, Y. Gao & **S. He.** Modulation of the Aleutian–Icelandic low seesaw and its surface impacts by the Atlantic multidecadal oscillation. Advances in Atmospheric Sciences 35, 95-105 (2018).
49. Hu C., C. Zhang, S. Yang, D. Chen & **S. He.** Perspective on the northwestward shift of autumn tropical cyclogenesis locations over the western North Pacific from shifting ENSO. Climate Dynamics 51, 2455-2465 (2018). (52 citations)
50. **He S.**✉**,** H. Wang, Y. Gao, F. Li, H. LI & C. Wang. Influence of solar wind energy flux on the interannual variability of ENSO in the subsequent year. Atmospheric and Oceanic Science Letters 11, 165-172 (2018).
51. **He S.**✉, E. M. Knudsen, D. W. Thompson & T. Furevik. Evidence for Predictive Skill of High-Latitude Climate Due to Midsummer Sea Ice Extent Anomalies. Geophysical Research Letters 45, 9114-9122 (2018).
52. **He S.**✉**,** Y. Gao, T. Furevik, H. Wang & F. Li. Teleconnection between sea ice in the Barents Sea in June and the Silk Road, Pacific–Japan and East Asian rainfall patterns in August. Advances in Atmospheric Sciences 35, 52-64 (2018). (61 citations)
53. Hao X., **S. He**, T. Han & H. Wang. Impact of global oceanic warming on winter Eurasian climate. Advances in Atmospheric Sciences 35, 1254-1264 (2018).
54. Han T., **S. He,** H. Wang & X. Hao. Enhanced influence of early-spring tropical Indian Ocean SST on the following early-summer precipitation over Northeast China. Climate Dynamics 51, 4065-4076 (2018). (39 citations)

2017:

55. Liu Y., **S. He**, F. Li, H. Wang & Y. Zhu. Interdecadal change between the Arctic Oscillation and East Asian climate during 1900–2015 winters. International Journal of Climatology 37, 4791-4802 (2017).
56. **He S.**✉**,** Y. Liu & H. Wang. Connection between the Silk Road Pattern in July and the following January temperature over East Asia. Journal of Meteorological Research 31, 378-388 (2017).
57. **He S.**✉**,** Y. Gao, F. Li, H. Wang & Y. He. Impact of Arctic Oscillation on the East Asian climate: A review. Earth-Science Reviews 164, 48-62 (2017). (225 citations)
58. Hao X., **S. He,** H. Wang & T. Han, T. The impact of long-term oceanic warming on the Antarctic Oscillation in austral winter. Scientific Reports 7, 12321 (2017).
59. Hao X. & **S. He.** Combined effect of ENSO-like and Atlantic multidecadal oscillation SSTAs on the interannual variability of the East Asian winter monsoon. Journal of Climate 30, 2697-2716 (2017). (59 citations)

2016:

60. **He S.**✉ & H. Wang. Linkage between the East Asian January temperature extremes and the preceding Arctic Oscillation. International Journal of Climatology 36, 1026-1032 (2016).
61. Hao X., F. Li, J. Sun, H. Wang & **S. He.** Assessment of the response of the East Asian winter monsoon to ENSO-like SSTAs in three US CLIVAR Project models. International Journal of Climatology 36, 847-866 (2016).
62. Hao X., **S. He** & H. Wang. Asymmetry in the response of central Eurasian winter temperature to AMO. Climate Dynamics 47, 2139-2154 (2016).

2015:

63. Gao Y., J. Sun, F. Li, **S. He**, S. Sandven, Q. Yan, Z. Zhang, K. Lohmann, N. Keenlyside, T. Furevik, L. Suo. Arctic sea ice and Eurasian climate: A review. Advances in Atmospheric Sciences 32, 92-114 (2015). (187 citations)

The following publications were finished within my Master and PhD study (2012-2014). Prof. **H. Wang** was my supervisor.

64. Wang H. & **S. He.** The North China/Northeastern Asia severe summer drought in 2014. Journal of Climate 28, 6667-6681 (2015). (164 citations) (accomplished within my PhD study and published after my PhD defense)
65. Wang H., **S. He** & J. Liu. Present and future relationship between the East Asian winter monsoon and ENSO: Results of CMIP5. Journal of Geophysical Research: Oceans 118, 5222-5237 (2013). (54 citations)
66. Wang H. & **S. He** The increase of snowfall in Northeast China after the mid-1980s. Chinese Science Bulletin 58, 1350-1354 (2013). (72 citations)
67. **He S.**✉**,** H. Wang & J. Liu. Changes in the relationship between ENSO and Asia–Pacific midlatitude winter atmospheric circulation. Journal of Climate 26, 3377-3393 (2013). (73 citations)
68. **He S.**✉ & H. Wang. Oscillating relationship between the East Asian winter monsoon and ENSO. Journal of Climate 26, 9819-9838 (2013). (141 citations)
69. **He S.**✉ & H. Wang. Impact of the November/December Arctic oscillation on the following January temperature in East Asia. Journal of Geophysical Research: Atmospheres 118, 12,981-912,998 (2013). (51 citations)
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