References for ICTP Polar Summer School

2024-07-21

Please note these were generated using Zotero and haven’t really been reviewed.

1. *AR5 Climate Change 2013: The Physical Science Basis — IPCC*. (n.d.). Retrieved July 21, 2024, from <https://www.ipcc.ch/report/ar5/wg1/>
2. Audette, A. (n.d.). *Physical Mechanisms Behind the Midlatitude Atmospheric Energy Transport Response to Imposed Arctic Sea Ice Loss—ProQuest*. Retrieved July 21, 2024, from <https://www.proquest.com/openview/656ce35e76cb580326541f5cd21daf6e/1?cbl=18750&diss=y&pq-origsite=gscholar&parentSessionId=xFz3LuHyi7v83funo5mCPTkW1cNfHhkH3GgVf7QqQY4%3D>
3. Audette, A., Fajber, R. A., Kushner, P. J., Wu, Y., Peings, Y., Magnusdottir, G., Eade, R., Sigmond, M., & Sun, L. (2021). Opposite Responses of the Dry and Moist Eddy Heat Transport Into the Arctic in the PAMIP Experiments. *Geophysical Research Letters*, *48*(9), e2020GL089990. <https://doi.org/10.1029/2020GL089990>
4. Audette, A., & Kushner, P. J. (2022). Simple Hybrid Sea Ice Nudging Method for Improving Control Over Partitioning of Sea Ice Concentration and Thickness. *Journal of Advances in Modeling Earth Systems*, *14*(12), e2022MS003180. <https://doi.org/10.1029/2022MS003180>
5. Bailey, A., Singh, H. K. A., & Nusbaumer, J. (2019). Evaluating a Moist Isentropic Framework for Poleward Moisture Transport: Implications for Water Isotopes Over Antarctica. *Geophysical Research Letters*, *46*(13), 7819–7827. <https://doi.org/10.1029/2019GL082965>
6. Barnes, E. A., & Screen, J. A. (2015). The impact of Arctic warming on the midlatitude jet-stream: Can it? Has it? Will it?: Impact of Arctic warming on the midlatitude jet-stream. *Wiley Interdisciplinary Reviews: Climate Change*, *6*(3), 277–286. <https://doi.org/10.1002/wcc.337>
7. Bintanja, R., & Selten, F. M. (2014). Future increases in Arctic precipitation linked to local evaporation and sea-ice retreat. *Nature*, *509*(7501), 479–482. <https://doi.org/10.1038/nature13259>
8. Blackport, R., & Kushner, P. J. (2017). Isolating the Atmospheric Circulation Response to Arctic Sea Ice Loss in the Coupled Climate System. *Journal of Climate*, *30*(6), 2163–2185. <https://doi.org/10.1175/JCLI-D-16-0257.1>
9. Blackport, R., & Kushner, P. J. (2018). The Role of Extratropical Ocean Warming in the Coupled Climate Response to Arctic Sea Ice Loss. *Journal of Climate*, *31*(22), 9193–9206. <https://doi.org/10.1175/JCLI-D-18-0192.1>
10. Cohen, J., Screen, J. A., Furtado, J. C., Barlow, M., Whittleston, D., Coumou, D., Francis, J., Dethloff, K., Entekhabi, D., Overland, J., & Jones, J. (2014). Recent Arctic amplification and extreme mid-latitude weather. *Nature Geoscience*, *7*(9), 627–637. <https://doi.org/10.1038/ngeo2234>
11. Cohen, J., Zhang, X., Francis, J., Jung, T., Kwok, R., Overland, J., Ballinger, T. J., Bhatt, U. S., Chen, H. W., Coumou, D., Feldstein, S., Gu, H., Handorf, D., Henderson, G., Ionita, M., Kretschmer, M., Laliberte, F., Lee, S., Linderholm, H. W., … Yoon, J. (2020). Divergent consensuses on Arctic amplification influence on midlatitude severe winter weather. *Nature Climate Change*, *10*(1), Article 1. <https://doi.org/10.1038/s41558-019-0662-y>
12. Deser, C., Sun, L., Tomas, R. A., & Screen, J. (2016). Does ocean coupling matter for the northern extratropical response to projected Arctic sea ice loss? *Geophysical Research Letters*, *43*(5), 2149–2157. <https://doi.org/10.1002/2016GL067792>
13. Deser, C., Tomas, R. A., & Sun, L. (2015). The Role of Ocean–Atmosphere Coupling in the Zonal-Mean Atmospheric Response to Arctic Sea Ice Loss. *Journal of Climate*, *28*(6), 2168–2186. <https://doi.org/10.1175/JCLI-D-14-00325.1>
14. Fajber, R., & Kushner, P. J. (2021). Using “Heat Tagging” to Understand the Remote Influence of Atmospheric Diabatic Heating through Long-Range Transport. *Journal of the Atmospheric Sciences*, *78*(7), 2161–2176. <https://doi.org/10.1175/JAS-D-20-0290.1>
15. Fajber, R., Kushner, P. J., & Laliberté, F. (2018). Influence of Midlatitude Surface Thermal Anomalies on the Polar Midtroposphere in an Idealized Moist Model. *Journal of the Atmospheric Sciences*, *75*(4), 1089–1104. <https://doi.org/10.1175/JAS-D-17-0283.1>
16. Feldl, N., Po-Chedley, S., Singh, H., Hay, S., & Kushner, P. (2020). Sea ice and atmospheric circulation shape the high-latitude lapse rate feedback. *NPJ CLIMATE AND ATMOSPHERIC SCIENCE*, *3*(1). <https://doi.org/10.1038/s41612-020-00146-7>
17. Francis, J. A., & Vavrus, S. J. (2012). Evidence linking Arctic amplification to extreme weather in mid-latitudes. *Geophysical Research Letters*, *39*(6). <https://doi.org/10.1029/2012GL051000>
18. Fraser-Leach, L., Kushner, P., & Audette, A. (2023). Correcting for artificial heat in coupled sea ice perturbation experiments. *Environmental Research: Climate*, *3*(1), 015003. <https://doi.org/10.1088/2752-5295/ad1334>
19. Frierson, D. M. W., Held, I. M., & Zurita-Gotor, P. (2007). A Gray-Radiation Aquaplanet Moist GCM. Part II: Energy Transports in Altered Climates. *Journal of the Atmospheric Sciences*, *64*(5), 1680–1693. <https://doi.org/10.1175/JAS3913.1>
20. Goosse, H., Kay, J. E., Armour, K. C., Bodas-Salcedo, A., Chepfer, H., Docquier, D., Jonko, A., Kushner, P. J., Lecomte, O., Massonnet, F., Park, H.-S., Pithan, F., Svensson, G., & Vancoppenolle, M. (2018). Quantifying climate feedbacks in polar regions. *Nature Communications*, *9*(1), 1919. <https://doi.org/10.1038/s41467-018-04173-0>
21. Hay, S., & Kushner, P. J. (2024). The Relative Importance of Antarctic Sea Ice Loss within the Response to Greenhouse Warming. *Journal of Climate*, *37*(12), 3323–3344. <https://doi.org/10.1175/JCLI-D-23-0524.1>
22. Hay, S., Kushner, P. J., Blackport, R., McCusker, K. E., Oudar, T., Sun, L., England, M., Deser, C., Screen, J. A., & Polvani, L. M. (2022). Separating the Influences of Low-Latitude Warming and Sea Ice Loss on Northern Hemisphere Climate Change. *Journal of Climate*, *35*(8), 2327–2349. <https://doi.org/10.1175/JCLI-D-21-0180.1>
23. *Heaving, Stretching, Spicing and Isopycnal Analysis | SpringerLink*. (n.d.). Retrieved July 21, 2024, from <https://link.springer.com/chapter/10.1007/978-981-15-2941-2_3>
24. Jung, T., Kasper, M. A., Semmler, T., & Serrar, S. (2014). Arctic influence on subseasonal midlatitude prediction. *Geophysical Research Letters*, *41*(10), 3676–3680. <https://doi.org/10.1002/2014GL059961>
25. Laliberte, F., & Kushner, P. J. (2013). Isentropic constraints by midlatitude surface warming on the Arctic midtroposphere. *Geophysical Research Letters*, *40*(3), 606–611. <https://doi.org/10.1029/2012GL054306>
26. Laliberte, F., & Kushner, P. J. (2014). Midlatitude Moisture Contribution to Recent Arctic Tropospheric Summertime Variability. *Journal of Climate*, *27*(15), 5693–5707. <https://doi.org/10.1175/JCLI-D-13-00721.1>
27. Manabe, S., & Stouffer, R. J. (1999). *The roˆle of thermohaline circulation in climate*.
28. Manabe, S., Stouffer, R. J., Spelman, M. J., & Bryan, K. (1991). Transient Responses of a Coupled Ocean–Atmosphere Model to Gradual Changes of Atmospheric CO2. Part I. Annual Mean Response. *Journal of Climate*, *4*(8), 785–818. [https://doi.org/10.1175/1520-0442(1991)004<0785:TROACO>2.0.CO;2](https://doi.org/10.1175/1520-0442(1991)004%3c0785:TROACO%3e2.0.CO;2)
29. Manabe, S., & Wetherald, R. T. (1975). The Effects of Doubling the CO2 Concentration on the climate of a General Circulation Model. *Journal of the Atmospheric Sciences*, *32*(1), 3–15. [https://doi.org/10.1175/1520-0469(1975)032<0003:TEODTC>2.0.CO;2](https://doi.org/10.1175/1520-0469(1975)032%3c0003:TEODTC%3e2.0.CO;2)
30. McCusker, K. E., Kushner, P. J., Fyfe, J. C., Sigmond, M., Kharin, V. V., & Bitz, C. M. (2017). Remarkable separability of circulation response to Arctic sea ice loss and greenhouse gas forcing. *Geophysical Research Letters*, *44*(15), 7955–7964. <https://doi.org/10.1002/2017GL074327>
31. Merlis, T. M., & Henry, M. (2018). Simple Estimates of Polar Amplification in Moist Diffusive Energy Balance Models. *Journal of Climate*, *31*(15), 5811–5824. <https://doi.org/10.1175/JCLI-D-17-0578.1>
32. Notz, D., & Community, S. (2020). Arctic Sea Ice in CMIP6. *Geophysical Research Letters*, *47*(10), e2019GL086749. <https://doi.org/10.1029/2019GL086749>
33. Pithan, F., & Mauritsen, T. (2014). Arctic amplification dominated by temperature feedbacks in contemporary climate models. *Nature Geoscience*, *7*(3), 181–184. <https://doi.org/10.1038/ngeo2071>
34. Roach, L. A., Dörr, J., Holmes, C. R., Massonnet, F., Blockley, E. W., Notz, D., Rackow, T., Raphael, M. N., O’Farrell, S. P., Bailey, D. A., & Bitz, C. M. (2020). Antarctic Sea Ice Area in CMIP6. *Geophysical Research Letters*, *47*(9), e2019GL086729. <https://doi.org/10.1029/2019GL086729>
35. Rosenblum, E., & Eisenman, I. (2017). Sea Ice Trends in Climate Models Only Accurate in Runs with Biased Global Warming. *Journal of Climate*, *30*(16), 6265–6278. <https://doi.org/10.1175/JCLI-D-16-0455.1>
36. Screen, J. A., Deser, C., Smith, D. M., Zhang, X., Blackport, R., Kushner, P. J., Oudar, T., McCusker, K. E., & Sun, L. (2018). Consistency and discrepancy in the atmospheric response to Arctic sea-ice loss across climate models. *Nature Geoscience*, *11*(3), 155–163. <https://doi.org/10.1038/s41561-018-0059-y>
37. Singh, H. K. A., Bitz, C. M., Donohoe, A., & Rasch, P. J. (2017). A Source–Receptor Perspective on the Polar Hydrologic Cycle: Sources, Seasonality, and Arctic–Antarctic Parity in the Hydrologic Cycle Response to CO 2 Doubling. *Journal of Climate*, *30*(24), 9999–10017. <https://doi.org/10.1175/JCLI-D-16-0917.1>
38. Smith, D. M., Screen, J. A., Deser, C., Cohen, J., Fyfe, J. C., García-Serrano, J., Jung, T., Kattsov, V., Matei, D., Msadek, R., Peings, Y., Sigmond, M., Ukita, J., Yoon, J.-H., & Zhang, X. (2018). The Polar Amplification Model Intercomparison Project (PAMIP) contribution to CMIP6: Investigating the causes and consequences of polar amplification. *Geoscientific Model Development Discussions*, 1–42. <https://doi.org/10.5194/gmd-2018-82>
39. Stouffer, R. J., Manabe, S., & Bryan, K. (1989). Interhemispheric asymmetry in climate response to a gradual increase of atmospheric CO2. *Nature*, *342*(6250), 660–662. <https://doi.org/10.1038/342660a0>
40. Tebaldi, C., & Arblaster, J. M. (2014). Pattern scaling: Its strengths and limitations, and an update on the latest model simulations. *Climatic Change*, *122*(3), 459–471. <https://doi.org/10.1007/s10584-013-1032-9>