

**10-Jun-26**

**Begutachtete Publikationen (refereed publications):**

**2026**

242. M. Gözlet, J. Kjellsson, and **M. Latif** (2026): Northern Hemisphere Jet Stream Waviness Has Been Governed by Natural Variability Since 1979. To be submitted.
241. M. St-Pierre, J. Kjellsson, W. Park, L. Borchert, and **M. Latif** (2026): Emergence time of CO<sub>2</sub>-forced European summer climate trends. *Sci Rep* 16, 9707 (2026). <https://doi.org/10.1038/s41598-026-44761-5>.

**2025**

240. A. Savita, J. Kjellsson, **M. Latif**, H. C. Nnamchi, and S. Wahl (2025): Causes of Eurasian Winter-Cooling During the Late 20th and Early 21st Century. *Geophys. Res. Lett.*, 52, <https://doi.org/10.1029/2024GL114140>.
239. Z. Song, **M. Latif**, W. Park, and Y. Zhang (2025): Southern Ocean influence on Atlantic Meridional Overturning Circulation across climate states. *Nature Communications*, 16, 9230, <https://doi.org/10.1038/s41467-025-64268-3>.
238. H.C. Nnamchi and **M. Latif**: Predictable Equatorial Atlantic variability from atmospheric convection-ocean coupling. *npj Climate and Atmospheric Science*, <https://doi.org/10.1038/s41612-025-01041-9>.
237. A. Savita, J. Kjellsson, **M. Latif**, H. Nnamchi, and S. Wahl (2024): Impact of Multidecadal Climate Modes on European Climate in Recent Decades. *Geophys. Res. Lett.*, DOI: 10.1029/2024GL114140.

**2024**

236. T. Bayr, J.F. Lübbecke, J. Vialardand, and **M. Latif** (2024): Equatorial Pacific Cold Tongue Bias degrades the simulation of ENSO Asymmetry in Climate Models. *J. Climate*, *J. Climate*, 37, 6167–6182, <https://doi.org/10.1175/JCLI-D-24-0071.1>.
235. **M. Latif**, Th. Martin, and I. Bielke (2024): Regional variation in extratropical North Atlantic air-sea interaction 1960-2020. *Geophys. Res. Lett.*, [doi.org/10.1029/2024GL108174](https://doi.org/10.1029/2024GL108174).
234. A. Savita, J. Kjellsson, R. Pilch Kedzierski, **M. Latif**, T. Rahm, S. Wahl., and W. Park (2024): Assessment of Climate Biases in OpenIFS Version 43R3 across Model Horizontal Resolutions and Time Steps. *Geosci. Model Dev.*, [doi.org/10.5194/gmd-2023-101](https://doi.org/10.5194/gmd-2023-101).

**2023**

233. A. Prigent, R.A. Imbol Koungue, J.F. Lübbecke, P. Brandt, J. Harlaß, and **M. Latif** (2023): Future weakening of southeastern tropical Atlantic Ocean interannual Sea Surface Temperature variability in a global climate model. *Climate Dynamics*, <https://doi.org/10.1007/s00382-023-07007-y>.
232. Y. Zhang, T. Bayr, **M. Latif**, Z. Song, W. Park, and A. Reintges (2023): Local and Remote Causes of the Equatorial Pacific Cold Sea Surface Temperature Bias in the Kiel Climate Model. *J. Climate*, 36, 8425–8442, <https://doi.org/10.1175/JCLI-D-22-0874.1>.
231. **M. Latif**, T. Bayr, J. Kjellsson, J.F. Lübbecke, T. Martin, H. C. Nnamchi, W. Park, A. Savita, J. Sun, and D. Dommenges (2023): Unexpected atmospheric circulation trends slowed tropical Pacific surface warming. *Communications Earth & Environment*. DOI: 10.1038/s43247-023-00912-4.

230. H.C. Nnamchi, R. Farneti, N.S. Keenlyside, F. Kucharski, **M. Latif**, A. Reintges, and Th. Martin (2023): Pan-Atlantic decadal climate oscillation linked to ocean circulation. *Communications Earth & Environment*. DOI:10.1038/s43247-023-00781-x.
229. J. Sun, **M. Latif**, and W. Park (2023): Atlantic decadal-to-bidecadal variability and its relationship with the multidecadal variability in a version of the Kiel Climate Model. *Climate Dynamics*. [https:// doi.org/10.1007/s00382-023-06821-8](https://doi.org/10.1007/s00382-023-06821-8).

## 2022

228. **M. Latif** (2022): The roadmap of climate models. *Nature Computational Science*, DOI 10.1038/s43588-022-00322-0.
227. T. Bayr and **M. Latif** (2022): ENSO Atmospheric Feedbacks under Global Warming and their Relation to Mean-state Changes. *Climate Dynamics*, DOI 10.1007/s00382-022-06454-3.
226. **M. Latif**, J. Sun, M. Visbeck, and M.H. Bordbar (2022): Natural variability has dominated Atlantic Meridional Overturning Circulation since 1900. *Nature Climate Change*, DOI 10.1038/s41558-022-01342-4.

## 2021

225. J. Sun, **M. Latif**, and W. Park (2021): Subpolar Gyre – AMOC – Atmosphere Interactions on Multidecadal Timescales in a Version of the Kiel Climate Model. *J. Climate*, 34(16), 6583-6602.
224. A. Imbol Nkwinkwa N., **M. Latif**, and W. Park (2021): Mean-state dependence of tropical Atlantic sector climate change projections. *Geophys. Res. Lett.*, [doi.org/10.1029/2021GL093803](https://doi.org/10.1029/2021GL093803).
223. G. Beobide Arsuaga, T. Bayr, A. Reintges, and **M. Latif** (2021): Uncertainty of ENSO-amplitude projections in CMIP5 and CMIP6 models. *Climate Dynamics*, [doi.org/10.1007/s00382-021-05673-4](https://doi.org/10.1007/s00382-021-05673-4).
222. H. Nnamchi, **M. Latif**, N. Keenlyside, J. Kjellsson, and I. Richter (2021): Diabatic heating governs the seasonality of the Atlantic Niño. *Nature Communications*, 12:376, [doi.org/10.1038/s41467-020-20452-1](https://doi.org/10.1038/s41467-020-20452-1).
221. T. Bayr, A. Drews, **M. Latif**, and J. Lübbecke (2021): The Interplay of Thermodynamics and Ocean Dynamics during ENSO Growth Phase. *Climate Dynamics*, DOI 10.1007/s00382-020-05552-4.

## 2020

220. Z. Song, **M. Latif**, W. Park, and Y. Zhang (2020): Interdecadal Pacific Oscillation drives enhanced Greenland surface-temperature variability during the Last Glacial Maximum. *Geophys. Res. Lett.*, DOI: 10.1029/2020GL088922.
219. A. Prigent, R. Anicet Imbol Koungue, J. Lübbecke, P. Brandt, and **M. Latif** (2020): Origin of weakened interannual sea-surface temperature variability in the Southeastern Tropical Atlantic Ocean. *Geophys. Res. Lett.*, DOI: 10.1029/2020GL089348.
218. A. Reintges, **M. Latif**, M.H. Bordbar, and W. Park (2020): Wind stress-induced multiyear predictability of annual extratropical North Atlantic sea surface temperature anomalies. *Geophys. Res. Lett.*, DOI: 10.1029/2020GL087031.
217. A. Prigent J. Lübbecke, T. Bayr, **M. Latif**, and C. Wengel (2020): Weakened SST variability in the tropical Atlantic Ocean since 2000. *Climate Dynamics*, 54, 2731–2744, [doi.org/10.1007/s00382-020-05138-0](https://doi.org/10.1007/s00382-020-05138-0).
216. T. Bayr, D. Dommenges, and **M. Latif**, (2020): Walker Circulation controls ENSO Atmospheric Feedbacks in Uncoupled and Coupled Climate Model Simulations. *Climate Dynamics*, 54, 2831–2846, [doi.org/10.1007/s00382-020-05152-2](https://doi.org/10.1007/s00382-020-05152-2).

215. H. Nnamchi, **M. Latif**, N. Keenlyside, and W. Park (2020): A Satellite Era Warming Hole in the Equatorial Atlantic Ocean. *J. Geophys. Res. Oceans*. *J. Geophys. Res. Oceans*, DOI: 10.1029/2019JC015834.
214. W. Park and **M. Latif** (2020): Resolution dependence of CO<sub>2</sub>-induced Tropical Atlantic Sector Climate Changes. *npj Climate and Atmospheric Science* 3, 36, <https://doi.org/10.1038/s41612-020-00139-6>.
213. S. Steinig, W. Dumann, W. Park, **M. Latif**, S. Kusch, P. Hofmann, and S. Flögel (2020): Evidence for a regional warm bias in the Early Cretaceous TEX<sub>86</sub> record. *Earth Planet. Sci. Lett.*, 539, 116184, <https://doi.org/10.1016/j.epsl.2020.116184>.
212. J. Sun, **M. Latif**, W. Park, and T. Park (2020): On the Interpretation of North Atlantic-averaged Sea Surface Temperature. *J. Climate*, 33(14), 6025-6045.
211. X. Li, M.H. Bordbar, **M. Latif**, W. Park, and J. Harlaß (2020): Monthly to Seasonal Prediction of Tropical Atlantic Sea Surface Temperature with Statistical Models constructed from Observations and Data from the Kiel Climate Model. *Climate Dynamics*, [doi.org/10.1007/s00382-020-05140-6](https://doi.org/10.1007/s00382-020-05140-6).

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210. Z. Song, **M. Latif**, and W. Park (2020): East Atlantic Pattern Drives Multidecadal Atlantic Meridional Overturning Circulation Variability during the Last Glacial Maximum. *Geophys. Res. Lett.*, 47 (23), <https://doi.org/10.1029/2019GL082960>.
209. Th. Martin, A. Reintges, and **M. Latif** (2019): Coupled North Atlantic Sub-decadal Variability in CMIP5 Models, *J. Geophys. Res. Oceans*, doi: 10.1029/2018JC014539.
208. M.H. Bordbar, M.H. England, A. Sen Gupta, A. Santoso, A. Taschetto, Th. Martin, W. Park, and **M. Latif** (2019): Uncertainty in near-term global surface warming linked to Pacific climate variability. *Nature Communications*, 10(1):1990. doi: 10.1038/s41467-019-09761-2.
207. **M. Latif**, T. Park, and W. Park (2019): Decadal Atlantic Meridional Overturning Circulation Slowing Events in a Climate Model. *Climate Dynamics*, DOI :10.1007/s00382-019-04772-7.
206. T. Bayr, C. Wengel, **M. Latif**, D. Dommenges, J. Lübbecke, and W. Park (2019): Error Compensation of ENSO Atmospheric Feedbacks in Climate Models and its Influence on Simulated ENSO Dynamics. *Climate Dynamics*, DOI:10.1007/s00382-018-4575-7.
205. W. Park and **M. Latif** (2019): Ensemble Global Warming Simulations with Idealized Antarctic Meltwater. *Climate Dynamics*, DOI:10.1007/s00382-018-4319-8.

## 2018

204. S. Haase, K. Matthes, N. Omrani, and **M. Latif** (2018): The Importance of a Properly Represented Stratosphere for Northern Hemisphere Surface Variability in the Atmosphere and the Ocean. *J. Climate*, 31, [doi.org/10.1175/JCLI-D-17-0520.1](https://doi.org/10.1175/JCLI-D-17-0520.1).
203. X. Zhang, L. Jin, H. Lu, W. Park, B. Schneider, and **M. Latif** (2018): East–west contrast of Northeast Asian summer precipitation during the Holocene. *Global and Planetary Change*, 170, DOI: 10.1016/j.gloplacha.2018.08.018.
202. S. Khon, B. Schneider, **M. Latif**, W. Park, C. Wengel (2018): Evolution of Eastern Equatorial Pacific Seasonal and Interannual Variability during the Holocene and Eemian from Model Simulations. *Geophys. Res. Lett.*, DOI: 10.1029/2018GL079337.
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200. C. Wengel, D. Dommenges, **M. Latif**, T. Bayr, and A. Vijayeta (2018): What controls ENSO-amplitude diversity in climate models? *Geophys. Res. Lett.*, DOI: 10.1002/2017GL076849.
199. C. Wengel, **M. Latif**, W. Park, J. Harlaß, and T. Bayr (2018): Eastern equatorial Pacific sea surface temperature annual cycle in the Kiel climate model: simulation benefits from enhancing atmospheric resolution. *Climate Dynamics*, 10.1007/s00382-018-4233-0.
198. S. Steinig, J. Harlaß, W. Park, and **M. Latif** (2018): Sahel rainfall strength and onset improvements due to more realistic Atlantic cold tongue development in a climate model, *Scientific Reports*, doi:10.1038/s41598-018-20904-1.
197. T. Bayr, **M. Latif**, D. Dommenges, C. Wengel, J. Harlaß, and W. Park (2018): Mean-State Dependence of ENSO Atmospheric Feedbacks in Climate Models. *Climate Dynamics*, DOI 10.1007/s00382-017-3799-2.
196. J. Harlaß, **M. Latif**, and W. Park (2018): Alleviating Tropical Atlantic Sector Biases in the Kiel Climate Model by Enhancing Horizontal and Vertical Atmosphere Model Resolution: Climatology and Interannual Variability. *Climate Dynamics*, doi:10.1007/s00382-017-3760-4.

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195. X. Zhang, L. Jin, J. Chen, F. Chen, W. Park, B. Schneider, and **M. Latif** (2018): Detecting the relationship between moisture changes in arid central Asia and East Asia during the Holocene by model-proxy comparison. *Quaternary Science Reviews*, 36-50, doi.org/10.1016/j.quascirev.2017.09.012.
194. Z. Song, **M. Latif**, and W. Park (2017): Expanding Greenland Ice Sheet Enhances Sensitivity of Plio-Pleistocene Climate to Obliquity Forcing in the Kiel Climate Model. *Geophys. Res. Lett.*, DOI: 10.1002/2017GL074835.
193. **M. Latif**, To. Martin, A. Reintges, and W. Park (2017): Southern Ocean Decadal Variability and Predictability. *Current Climate Change Reports*, DOI: 10.1007/s40641-017-0068-8.
192. A. Reintges, **M. Latif**, To. Martin, and W. Park (2017): Physical controls of Southern Ocean deep-convection variability in CMIP5 models and the Kiel Climate Model. *Geophys. Res. Lett.*, doi:10.1002/2017GL074087.
191. M. Pfeiffer, J. Zinke, W.C. Dullo, D. Garbe-Schönberg, **M. Latif**, and M.E. Weber (2017): Indian Ocean corals reveal crucial role of World War II bias for twentieth century warming estimates. *Scientific Reports*, doi: 10.1038/s41598-017-14352-6.
190. C. Wengel, **M. Latif**, W. Park, J. Harlaß, and T. Bayr (2017): Controls of seasonal ENSO phase locking in the Kiel Climate Model: The importance of the equatorial cold sea surface temperature bias. *Climate Dynamics*, doi:10.1007/s00382-017-3648-3.
189. M.H. Bordbar, Th. Martin, **M. Latif**, and W. Park (2017): Role of Internal Variability in Recent Decadal to Multidecadal Tropical Pacific Climate Changes. *Geophys. Res. Lett.*, DOI: 10.1002/2016GL072355.
188. Y. Wu, T. Park, W. Park, and **M. Latif** (2017): North Atlantic climate model bias influence on multiyear predictability. *EPSL*, 481, 171-176.
187. G. Zhou, **M. Latif**, R.J. Greatbatch, and W. Park (2017): State-Dependence of Atmospheric Response to Extratropical North Pacific SST Anomalies. *J. Climate*, 30, 509-525, DOI: <http://dx.doi.org/10.1175/JCLI-D-15-0672.1>.

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186. **M. Latif**, M. Claussen, M. Schulz, and T. Brücher (2016): Comprehensive Earth System Models of the Last Glacial Cycle. *Eos*, 97, doi:10.1029/2016EO059587.

185. Z. Song, **M. Latif**, W. Park, U. Krebs-Kanzow, and B. Schneider (2016): Influence of Seaway Changes during the Pliocene on Tropical Pacific Climate in the Kiel Climate Model: Mean State, Annual Cycle, ENSO, and their Interactions. *Climate Dynamics*, doi:10.1007/s00382-016-3298-x.
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183. C. Volosciuk, D. Maraun, V.A. Semenov, N. Tilinina, S.K. Gulev, and **M. Latif** (2016): Rising Mediterranean Sea Surface Temperatures Amplify Extreme Summer Precipitation in Central Europe. *Scientific Reports*, 6 (32450), pp. 1-7. DOI 10.1038/srep32450.
182. K. Grosfeld, P. Lemke, P. Braesicke, A. Brauer, K. Dethloff, M. Kunz, **M. Latif**, B. Ratter, T. Sachs, H.P. Schmid, H. R. Treffeisen, and R. Schwarze (2016): The Helmholtz regional climate initiative REKLIM from a polar perspective - A preface. *Polarforschung*, 85 (2), 65-68, DOI 10.2312/polfor.2016.001.
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176. X. Xu, J. Segsneider, B. Schneider, W. Park, and **M. Latif** (2015): Oxygen minimum zone variations in the tropical Pacific during the Holocene. *Geophys. Res. Lett.*, DOI: 10.1002/2015GL064680.
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173. V.A. Semenov and **M. Latif** (2015): Nonlinear winter atmospheric circulation response to Arctic sea ice concentration anomalies for different periods during 1966-2012. *Environ. Res. Lett.*, 10, 054020, doi:10.1088/1748-9326/10/5/054020.
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