

**22-Jan-21**

**Begutachtete Publikationen (refereed publications):**

**2021**

224. A. Imbol Nkwinkwa N., **M. Latif**, and W. Park (2021): Mean-state dependence of tropical Atlantic sector climate change projections. *Geophys. Res. Lett.*, submitted.
223. G. Beobide Arsuaga, T. Bayr, A. Reintges, and **M. Latif** (2021): Uncertainty of ENSO-amplitude projections in CMIP5 models. *Climate Dynamics*, in revision.
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.

**2020**

221. T. Bayr, A. Drews, **M. Latif**, and J. Lübbecke (2020): The Interplay of Thermodynamics and Ocean Dynamics during ENSO Growth Phase. *Climate Dynamics*, DOI 10.1007/s00382-020-05552-4.
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.
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.
215. H. Nnamchi, **M. Latif**, N. Keenlyside, and W. Park (2020): A boreal summer warming hole in the central Equatorial Atlantic sea surface temperature during the satellite era. *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. 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>.
212. S. Steinig, W. Dummann, W. Park, **M. Latif**, S. Kusch, 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>.
211. J. Sun, **M. Latif**, W. Park, and T. Park (2020): On the Interpretation of North Atlantic-averaged Sea Surface Temperature. *J. Climate*, accepted.
210. 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.

## 2019

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.

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205. 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.
204. 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.
203. 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.
202. W. Park and **M. Latif** (2018): Ensemble Global Warming Simulations with Idealized Antarctic Meltwater. *Climate Dynamics*, DOI:10.1007/s00382-018-4319-8.
201. Z. Song, **M. Latif**, W. Park, and Y. Zhang (2018): Influence of model bias on simulating North Atlantic sea surface temperature during the mid-Pliocene. *Paleocenography*, 33, DOI: 10.1029/2018PA003397.
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.

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196. 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.

195. 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.
194. **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.
193. 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.
192. J. Harlaß, **M. Latif**, and W. Park (2017): 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.
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.
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184. W.K. Wang, K. Matthes, N. Omrani, and **M. Latif** (2016): Decadal variability of tropical tropopause temperature and its relation to the Pacific Decadal Oscillation. *Scientific Reports*, 6, doi:10.1038/srep29537.
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.
181. A. Reintges, **M. Latif**, and W. Park (2016): Sub-decadal North Atlantic Oscillation Variability in Observations and the Kiel Climate Model. *Climate Dynamics*, 48, 3475–3487, doi:10.1007/s00382-016-3279-0.
180. A. Reintges, Th. Martin, **M. Latif**, and N. S. Keenlyside (2016): Uncertainty in 21<sup>st</sup> Century Projections of the Atlantic Meridional Overturning Circulation in CMIP3 and CMIP5 models. *Climate Dynamics*, DOI 10.1007/s00382-016-3180-x.

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178. Y. Wu, **M. Latif**, and W. Park (2016): Multiyear Predictability of Northern Hemisphere Surface Air Temperature in the Kiel Climate Model. *Climate Dynamics*, 1–12, doi: 10.1007/s00382-015-2871-z.

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177. V.A. Semenov, Th. Martin, L.K. Behrens, and **M. Latif** (2015): Arctic Sea Ice Area in CMIP3 and CMIP5 Climate Model Ensembles – Variability and Change. *The Cryosphere Discuss.*, 9, 1077-1131, www.the-cryosphere-discuss.net/9/1077/2015/doi:10.5194/tcd-9-1077-2015.
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.
175. G. Zhou, **M. Latif**, R.J. Greatbatch, and W. Park (2015): Atmospheric Response to the North Pacific Enabled by Daily Sea Surface Temperature Variability. *Geophys. Res. Lett.*, DOI: 10.1002/2015GL065356.
174. H. Ding, R.J. Greatbatch, **M. Latif**, and W. Park (2015): The impact of sea surface temperature bias on equatorial Atlantic interannual variability in partially coupled model experiments. *Geophys. Res. Lett.*, DOI: 10.1002/2015GL064799.
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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171. A. Drews, R.J. Greatbatch, H. Ding, **M. Latif**, and W. Park (2015): The use of a flow field correction technique for alleviating the North Atlantic cold bias with application to the Kiel Climate Model. *Ocean Dynamics*, 65, 1079-1093, DOI 10.1007/s10236-015-0853-7.
170. **M. Latif**, V.A. Semenov, and W. Park (2015): Super El Niños in Response to Global Warming in a Climate Model. *Climatic Change*, 4, 489-500, DOI: 10.1007/s10584-015-1439-6.
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168. M.H. Bordbar, Th. Martin, **M. Latif**, and W. Park (2015): Effects of long-term variability on projections of twenty-first century dynamic sea level. *Nature Climate Change* 5, 343–347, doi:10.1038/nclimate2569.
167. H. Ding, N.S. Keenlyside, **M. Latif**, S. Wahl, and W. Park (2015): The Impact of Mean State Errors on Equatorial Atlantic Interannual Variability in a Climate Model. *J. Geophys. Res.*, 120, 1133–1151, DOI: 10.1002/2014JC010384.
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- multi-model comparison for Atlantic multidecadal variability. *Climate Dynamics*, DOI: 10.1007/s00382-014-2056-1.
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