

**15-Feb-18**

**Begutachtete Publikationen (refereed publications):**

**2018**

209. W. Park and **M. Latif** (2018): Ensemble Global Warming Simulations with Idealized Antarctic Meltwater. *Climate Dynamics*, in revision.
208. 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*, submitted.
207. C. Wengel, D. Dommenges, **M. Latif**, T. Bayr, and A. Vijayeta (2018): What controls ENSO-amplitude diversity in climate models? *Geophys. Res. Lett.*, accepted.
206. 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.*, submitted.
205. 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.
204. X. Zhang, J. Chen, F. Chen, B. Schneider, W. Park, 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*, submitted.
203. 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*, in revision.
202. S. Flögel, T. Wagner, S. Steinig, W. Park, J.O. Herrle, L. Handley, A. McAnena, H. Talbot, **M. Latif**, and P. Hofmann (2018): Decoupling of Cretaceous tropical ocean temperature and atmospheric carbon dioxide concentration. *Scientific Reports*, submitted.
201. L. Jin, X. Zhang, J. Chen, F. Chen, B. Schneider, W. Park, and **M. Latif** (2018): Detecting the relationship between moisture changes in arid central Asia and East Asia during the Holocene by model-proxy comparison. *Quat. Sci. Rev.*, submitted.
200. M.H. Bordbar, M.H. England, A. Sen Gupta, A. Santoso, A. Taschetto, T. Martin, W. Park, **M. Latif** (2018): Uncertainty in near-term global surface warming linked to Pacific trade wind variability. *Nature Communications*, in revision.
199. C. Wengel, **M. Latif**, W. Park, J. Harlaß, and T. Bayr (2018): Equatorial Pacific sea surface temperature annual cycle simulation benefits from alleviating zonal wind and cloud cover biases. *Climate Dynamics*, in revision.
198. **M. Latif**, T. Park, and W. Park (2018): Recent Decadal Atlantic Meridional Overturning Circulation Slowing Could have been Due to Internal Variability. *Scientific Reports*, submitted.
197. T. Bayr, **M. Latif**, D. Dommenges, C. Wengel, J. Harlaß, and W. Park (2018): Walker Circulation Position controls Ocean-Atmosphere Coupling in El Niño/Southern Oscillation. *Scientific Reports*, in revision.

**2017**

196. 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.
195. T. Bayr, **M. Latif**, D. Dommenges, C. Wengel, J. Harlaß, and W. Park (2017): Mean-State Dependence of ENSO Atmospheric Feedbacks in Climate Models. *Climate Dynamics*, DOI 10.1007/s00382-017-3799-2.

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>.

## 2016

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.
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.
179. T. Park, W. Park, and **M. Latif** (2016): Correcting North Atlantic Sea Surface Salinity Biases in the Kiel Climate Model: Influences on Ocean Circulation and Atlantic

Multidecadal Variability. *Climate Dynamics*, 47(7), 2543-2560, DOI: 10.1007/s00382-016-2982-1.

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.

## 2015

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/](http://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.
172. S.K. Gulev and **M. Latif** (2015): Ocean science: The origins of a climate oscillation. *Nature*, 521 (7553), 428-430.
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.
169. J. Harlass, **M. Latif**, and W. Park (2015): Improving Climate Model Simulation of Tropical Atlantic Sea Surface Temperature: The Importance of Enhanced Vertical Atmosphere Model Resolution. *Geophys. Res. Lett.*, DOI: 10.1002/2015GL063310.
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.
166. To. Martin, W. Park, and **M. Latif** (2015): Southern Ocean Forcing of the North Atlantic at Multi-centennial Timescales in the Kiel Climate Model. *Deep-Sea Research II*, 2015, 39-48, DOI: 10.1016/j.dsr2.2014.01.018.

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165. J. Ba, N.S. Keenlyside, **M. Latif**, W. Park, H. Ding, K. Lohmann, J. Mignot, M. Menary, O.H. Otterå, B. Wouters, D. Salas y Melia, A. Oka, A. Bellucci, E. Volodin (2014): A multi-model comparison for Atlantic multidecadal variability. *Climate Dynamics*, DOI: 10.1007/s00382-014-2056-1.

164. M. Klöwer, **M. Latif**, H. Ding, R.J. Greatbatch, and W. Park (2014): Atlantic Meridional Overturning Circulation and Prediction of North Atlantic Sea Surface Temperature. *Earth Planet. Sci. Lett.*, 10.1016/j.epsl.2014.09.001.
163. L. Jin, B. Schneider, W. Park, **M. Latif**, V. Khon, X. Zhang (2014): The spatial-temporal patterns of Asian summer monsoon precipitation in response to Holocene insolation change: a model-data synthesis. *Quaternary Science Reviews*, 85, 47–62.
162. R. Hand, N.S. Keenlyside, N.-E. Omrani, and **M. Latif** (2014): Simulated response to interannual SST variations in the Gulf Stream region. *Climate Dynamics*, 42, 715-731, DOI 10.1007/s00382-013-1715-y.
161. H. Ding, R.J. Greatbatch, W. Park, **M. Latif**, V. Semenov, and X. Sun (2014): The variability of the East Asian Summer Monsoon and its relationship to ENSO in a partially coupled climate model, *Climate Dynamics*, 42, 367-379, DOI 10.1007/s00382-012-1642-3.
160. C.-P. Chang, M. Ghil, H.-C. Kuo, **M. Latif**, C.-H. Sui, and J.M. Wallace (2014): Understanding Multidecadal Climate Changes. *Bull. Amer. Meteor. Soc.*, doi: 10.1175/BAMS-D-13-00015.1.

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159. J. Ba, N.S. Keenlyside, W. Park, **M. Latif**, E. Hawkins, and H. Ding (2013): A mechanism for Atlantic Multidecadal Variability in the Kiel Climate Model. *J. Climate*, DOI: 10.1007/s00382-012-1633-4.
158. H. Ding, R.J. Greatbatch, **M. Latif**, W. Park, and R. Gerdes (2013): Hindcast of the 1976/77 and 1998/99 climate shifts in the Pacific. *J. Climate*, doi: <http://dx.doi.org/10.1175/JCLI-D-12-00626.1>.
157. S.K. Gulev, **M. Latif**, N.S. Keenlyside, W. Park, and K.P. Koltermann (2013): North Atlantic Ocean Control on Surface Heat Flux at Multidecadal Timescales. *Nature*, 499, 464-467, DOI: 10.1038/nature12268.
156. N.S. Keenlyside, H. Ding, and **M. Latif** (2013): Potential of Equatorial Atlantic Variability to Enhance El Niño Prediction. *Geophys. Res. Lett.*, DOI: 10.1002/grl.50362.
155. **M. Latif**, To. Martin, and W. Park (2013): Southern Ocean Sector Centennial Climate Variability and Recent Decadal Trends. *J. Climate*, 26(19), 7767-7782, doi: 10.1175/JCLI-D-12-00281.1.
154. To. Martin, W. Park, and **M. Latif** (2013): Multi-Centennial Variability Controlled by Southern Ocean Convection in the Kiel Climate Model. *Climate Dynamics*, 40, 7, 2005-2022, DOI: 10.1007/s00382-012-1586-7.

### 2012

153. H. Ding, N.S. Keenlyside, and **M. Latif** (2012): Impact of the Equatorial Atlantic on the El Niño Southern Oscillation. *Climate Dynamics*, DOI: 10.1007/s00382-011-1097-y.
152. G. Branstator, H. Teng, G.A. Meehl, M. Kimoto, J.R. Knight, **M. Latif**, and A. Rosati (2012): Systematic Estimates of Decadal Predictability for Six CGCMs. *J. Climate*, doi: 10.1175/JCLI-D-11-00227.1.
151. V. Khon, W. Park, **M. Latif**, I. Mokhov, and B. Schneider (2012): Tropical Circulation and Hydrological Cycle Response to Orbital Forcing. *Geophys. Res. Lett.*, 39, doi:10.1029/2012GL052482.
150. Q. Meng, **M. Latif**, W. Park, N.S. Keenlyside, V.A. Semenov, and Th. Martin (2012): Twentieth Century Walker Circulation Change: Data Analysis and Model Experiments, *Climate Dynamics*, 38, 1757-1773, DOI: 10.1007/s00382-011-1047-8.
149. O.R. Salau, B. Schneider, W. Park, V. Khon, and **M. Latif** (2012): Modeling the ENSO Impact of Orbitally-induced Mean State Changes. *J. Geophys. Res. (Oceans)*, 117, C05043, doi:10.1029/2011JC007742.

148. V.A. Semenov and **M. Latif** (2012): The Early Twentieth Century Warming and Winter Arctic Sea Ice. *The Cryosphere*, 6, 1231-1237, doi:10.5194/tc-6-1231-2012.
147. V. Semenov, I.I. Mokhov, and **M. Latif** (2012): Influence of the Ocean Surface Temperature and Sea Ice Concentration on Regional Climate Changes in Eurasia in Recent Decades. *Izvestiya, Atmospheric and Oceanic Physics*, 2012, 48, 355–372.
146. W. Park and **M. Latif** (2012): Atlantic Meridional Overturning Circulation Response to Idealized External Forcing. *Climate Dynamics*, DOI: 10.1007/s00382-011-1212-0.

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145. M.B. Menary, W. Park, K. Lohmann, M.D. Palmer, **M. Latif**, and J. Jungclaus (2011): A multimodel comparison of centennial Atlantic meridional overturning circulation variability. *Climate Dynamics*, DOI: 10.1007/s00382-011-1172-4.
144. V. Mehta, G. Meehl, L. Goddard, J. Knight, A. Kumar, **M. Latif**, T. Lee, A. Rosati, and D. Stammer (2011): DECADEAL CLIMATE PREDICTABILITY AND PREDICTION. Where Are We? *Bull. Amer. Meteor. Soc.*, 92, 637-640, DOI:10.1175/2010BAMS3025.1.
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138. V.A. Semenov, **M. Latif**, D. Dommenges, N.S. Keenlyside, A. Strehz, Th. Martin, and W. Park (2010): The Impact of North Atlantic-Arctic Multidecadal Variability on Northern Hemisphere Surface Air Temperature. *J. Climate*, 23, 5668-5677, doi: 10.1175/2010JCLI3347.1.
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135. **M. Latif** (2010): Uncertainty in climate change projections. *Journal of Geochemical Exploration*, Special Issue Geochemical Cycling, doi:10.1016/j.gexplo.2010.09.011.
134. W. Park and **M. Latif** (2010): Pacific and Atlantic Multidecadal Variability in the Kiel Climate Model. *Geophys. Res. Lett.*, 37, L24702, doi:10.1029/2010GL045560.

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133. H. Ding, N.S. Keenlyside, and **M. Latif** (2009): Seasonal cycle in the upper equatorial Atlantic Ocean, *J. Geophys. Res.*, 114, C09016, DOI:10.1029/2009JC005418.

132. **M. Latif**, W. Park, H. Ding, and N. Keenlyside (2009): Internal and External North Atlantic Sector Variability in the Kiel Climate Model. *Meteor. Zeitschrift*, 18 (4), 433-443.
131. W. Park, N.S. Keenlyside, **M. Latif**, A. Ströh, R. Redler, E. Roeckner, and G. Madec (2009): Tropical Pacific climate and its response to global warming in the Kiel Climate Model. *J. Climate*, 22, 71-92, DOI: 10.1175/2008JCLI2261.1.
130. V.A. Semenov, W. Park, and **M. Latif** (2009): Barents Sea inflow shutdown: A new mechanism for rapid climate changes. *Geophys. Res. Lett.*, 36, L14709, DOI:10.1029/2009GL038911.
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#### 2008:

127. F. Alvarez-Garcia, **M. Latif**, and A. Biastoch (2008): On multidecadal and quasi-decadal North Atlantic variability. *J. Climate*, 21, 3433–3452.
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123. N.S. Keenlyside, **M. Latif**, J. Jungclaus, L. Kornbluh, and E. Roeckner (2008): Advancing decadal-scale climate prediction in the North Atlantic sector. *Nature*, 453, 84-88 doi:10.1038/nature06921.
122. **M. Latif** and N.S. Keenlyside (2008): El Niño/Southern Oscillation response to global warming. *Proc. Nat. Ac. Sci.*, doi:10.1073/pnas.0710860105.
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