

Curriculum vitae

Personal Information

Dr. Susanne Pfeifer

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Education

2001–2006 PhD Student at the Max-Planck-Institute for Meteorology, Regional climate modeling group. Supervisors: Prof. H. Graßl, Dr. D. Jacob.
1994–2001 Studies of Meteorology at the University Hamburg

Career

Since 2010 Science Officer at the Climate Service Center 2.0 in Hamburg.
2006–2010 Post-doc at the Max-Planck-Institute for Meteorology, Hamburg in the regional climate modeling group

General research interests

- Regional climate modeling
- Downscaling of climate data
- Robustness of climate change information
- Assessment, visualization and communication of climate change information
- Ensemble modeling studies
- Cloud physics and precipitation processes

Publications

Jacob, D., J. Petersen, B. Eggert, A. Alias, O.B. Christensen, L.M. Bouwer, A. Braun, A. Colette, M. Déqué, G. Georgievski, E. Georgopoulou, A. Gobiet, L. Menut, G. Nikulin, A. Haensler, N. Hempelmann, C. Jones, K. Keuler, S. Kovats, N. Kröner, S. Kotlarski, A. Kriegsmann, E. Martin, E. van Meijgaard, C. Moseley, S. Pfeifer, S. Preuschmann, C. Radermacher, K. Radtke, D. Rechid, M. Rounsevell, P. Samuelsson, S. Somot, J.-F. Soussana, C. Teichmann, R. Valentini, R. Vautard, B. Weber, P. Yiou. EURO-CORDEX: new high-resolution climate change projections for European impact research
Reg. Environ. Change, doi: 10.1007/s10113-013-0499-2, 2013

Teichmann, C., B. Eggert, A. Elizalde, A. Haensler, D. Jacob, P.Kumar, C. Moseley, S. Pfeifer, D. Rechied, A.R. Remedio, H. Ries, J. Petersen, S. Preuschmann, T. Raub, F. Saeed, K. Sieck and T. Weber (2013): How does a regional climate model modify the projected climatechange signal of the driving GCM: A study over different CORDEX regions using REMO. *Atmosphere*, 4(2), 214-236; doi:10.3390/atmos4020214.

M. Reuter, H. Bösch, H. Bovensmann, A. Bril, M. Buchwitz, A. Butz, J. P. Burrows, C. W. O'Dell, S. Guerlet, O. Hasekamp, J. Heymann, N. Kikuchi, S. Oshchepkov, R. Parker, S. Pfeifer, O. Schneising, T. Yokota, and Y. Yoshida: A joint effort to deliver satellite retrieved atmospheric CO₂ concentrations for surface flux inversions: the ensemble median algorithm EMMA. *Atmospheric Chemistry and Physics*, doi:10.5194/acp-13-1771-2013, 13, 1771-1780, 2013

Pietikäinen, J.-P., O'Donnell, D., Teichmann, C., Karstens, U., Pfeifer, S., Kazil, J., Podzun, R., Fiedler, S., Kokkola, H., Birmili, W., O'Dowd, C., Baltensperger, U., Weingartner, E., Gehrig, R., Spindler, G., Kulmala, M., Feichter, J., Jacob, D., and Laaksonen, A.: The regional aerosol-climate model REMO-HAM, *Geosci. Model Dev.*, 5, 1323-1339, doi:10.5194/gmd-5-1323-2012, 2012.

M. Reuter, S. Pfeifer: *Moments from space captured by MSG SEVIRI*. *International Journal of Remote Sensing*, 32, 14, 4131-4140, doi: 10.1080/01431161.2011.566288, 2011

Menéndez C.G., M. de Castro, J.-P. Boulanger, A. D'Onofrio, E. Sanchez, A.A. Sörensson, J. Blazquez, A. Elizalde, D. Jacob, H. Le Treut, Z.X. Li, M.N. Núñez, S. Pfeifer, N. Pessacq, A. Rolla, M. Rojas, P. Samuelsson, S.A. Solman, C. Teichmann (2009) : Downscaling extreme month-long anomalies in southern South America. *Climatic Change*, doi 10.1007/s10584-009-9739-3 (online first).

Silvestri, G., C. Vera, D. Jacob, S. Pfeifer, C. Teichmann (2009): A high resolution 43-year atmospheric hindcast for South America generated with the MPI regional model. *Climate Dynamics* 32 (5), 693-709.

Jacob, D., L. Kotova, P. Lorenz, C. Moseley and S. Pfeifer (2008): Regional climate modeling activities in relation to the CLAVIER project. *Quarterly Journal of the Hungarian Meteorological Service*, Vol. 112, No. 3–4, July–December 2008, pp. 141–153

Hennemuth, B., A. Weiss, J. Bösenberg, D. Jacob, H. Linné, G. Peters, and S. Pfeifer (2008): Quality assessment of water cycle parameters in REMO by radar-lidar synergy. *Atmos. Chem. Phys.*, 8, 287-308.

Wyser, K., C.G. Jones, P. Du, E. Girard, U. Willén, J. Cassano, J.H. Christensen, J.A. Curry, K. Dethloff, J.-E. Haugen, D. Jacob, M. Køltzow, R. Laprise, A. Lynch, S. Pfeifer, A. Rinke, M. Serreze, M.J. Shaw, M. Tjernström and M. Zagar (2008): An Evaluation of Arctic Cloud and Radiation processes during the SHEBA year: Simulation results from 8 Arctic Regional Climate Models. *Climate Dynamics*, 30, 203-223. DOI 10.1007/s00382-007-0286-1

Pfeifer, S. 2006: Modeling cold cloud processes with the regional climate model REMO. Reports on Earth System Science 23, Max Planck Institute for Meteorology Hamburg, ISSN 1614-11991

Pfeifer, S., D. Jacob (2005): Changes of the Arctic Climate under the SRES B2 Scenario Conditions simulated with the Regional Climate Model REMO, Meteorologische Zeitschrift, Vol. 16, No 6. 711-719.

Rinke, A., K. Dethloff, J. Cassano, J.H. Christensen, J.A. Curry, J.-E. Haugen, D. Jacob, C. Jones, M. Koltzow, A.H. Lynch, S. Pfeifer, M.C. Serreze, M.J. Shaw, M. Tjernstroem, K. Wyser, M. Zagar (2005): Ensemble Performance in ARCMIP1 Experiments: Spatial Patterns and Height Profiles. Climate Dynamics 26 (5) 459-472, DOI 10.1007/s00382-005-0095-3

Tjernstroem, M., M. Zagar, G. Svensson, J.J. Cassano, S. Pfeifer, A. Rinke, K. Wyser, K. Dethloff, C. Jones, T. Semmler (2005): Modeling the Arctic boundary layer: An evaluation of six ARCMIP regional-scale models with data from the SHEBA project. Boundary-Layer Meteorol. 117(2), 337-381

Awards

2012: Len Curtis Award (Taylor & Francis and the Remote Sensing and Photogrammetry Society) for an outstanding publication in the field of remote sensing (M. Reuter und S. Pfeifer: Moments from space captured by MSG SEVIRI).
