

# Dr. Swantje Preuschmann

Climate System Department

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## Work/research experience:

- since 01/2013** Climate Service Center Germany in Hamburg.
- Climate Serve Products for GERICS
  - IMPACT2C: Dissemination; Work Package leader
  - ECLISE: Conceptualization of Climate Service  
Supervisor: Dr. Daniela Jacob, Prof. Dr. Guy Brasseur
- 06/2012 – 12/2012** Max Planck Institute for Meteorology (MPI-M) in Hamburg.
- GLOBALBEDO, Validation  
Supervisor: Dr. Alexander Löw
- 06/2007 – 12/2012** Max Planck Institute for Meteorology (MPI-M) in Hamburg.
- PhD Thesis title: Regional surface albedo characteristics – analysis of albedo data and application to land-cover changes for a regional climate model. Advisor: Dr. Daniela Jacob
  - GLOWA Danube: Climate Data Information & Land surface Feedback mechanism  
Supervisor: Dr. Daniela Jacob
  - CC-Tame: Climate Data Information  
Supervisor: Dr. Daniela Jacob
- 07/2006 – 05/2007** Freie Universität Berlin
- Research Assistant, Department of Earth Sciences, Institute for Space Sciences  
Supervisor: Prof. Dr. Jürgen Fischer
- 11/2003 – 06/2006** Freie Universität Berlin
- Project Assistant, HRSC Experiment on ESA Mars Express, Department of Earth Sciences, Planetology and Remote Sensing,  
Supervisor: Prof. Dr. Gerhard Neukum
- 10/2003** Freie Universität Berlin
- State Examination: geography, mathematics, comparative education.  
Thesis title: Die pleistozäne Ausdehnung leeseitiger Gletscher im Rakaia-River-System der Neuseeländischen Südalpen hinsichtlich der Entwicklung des Lake Coleridge

und der vorgelagerten Canterbury-Plains  
(Pleistocene enlargement of leeward glaciers within the  
Rakaia River catchment-area in New Zealand's Southern Alps  
in respect to the development of the Lake Coleridge and the  
upstreamed Canterbury-Plains),  
Advisor: Priv. Doz. Dr. Georg Schulz

**05/1999 – 09/2001** Freie Universität Berlin

- Student Assistant, library and sample archive  
Department Geography,  
Geomorphological Laboratory,  
Supervisor: Prof. Dr. Hans-Joachim Pachur

## Qualifications:

**Software/  
Programming skills** MS-Office applications, Adobe Creative Suite applications, Latex,  
Jabref, Visat Beam, Paraview, Aviso, ARCGIS (basics),  
GEOSERVER (basics), DjangoCMS (basics)  
Unix/Linux, Shell-scripting, Grads, NCL, Climate Data Operators,  
Python, IDL (basics), FORTRAN (basics), HTML (basics)

**Language skills** German (native speaker); English (business fluent); French (fluent)

## Selected publications and presentations:

Jacob, D., Petersen, J., Eggert, B., Alias, A., Christensen, O., Bouwer, L., Braun, A., Colette, A., Déqué, M., Georgievski, G., Georgopoulou, E., Gobiet, A., Menut, L., Nikulin, G., Haensler, A., Hempelmann, N., Jones, C., Keuler, K., Kovats, S., Kröner, N., Kotlarski, S., Kriegsmann, A., Martin, E., van Meijgaard, E., Moseley, C., Pfeifer, S., **Preuschmann, S.**, Radermacher, C., Radtke, K., Rechid, D., Rounsevell, M., Samuelsson, P., Somot, S., Soussana, J.-F., Teichmann, C., Valentini, R., Vautard, R., Weber, B. & Yiou, P. (2014): EURO-CORDEX: new high-resolution climate change projections for European impact research Regional Environmental Change, Springer Berlin Heidelberg, 2014, 14, 563-578.

Marke, T.; W. Mauser, A. Pfeiffer, G. Zängl, D. Jacob, and **S. Preuschmann** (2016): Climate Variants of the MM5 and REMO Regional Climate Models, in: Mauser, W. & Prasch, M. (Eds.): Regional Assessment of Global Change Impacts: The Project GLOWA-Danube, Springer International Publishing, 435-453.

Mauser, W., T. Marke, A. Reiter, D. Jacob, and **S. Preuschmann** (2016): The GLOWA-Danube Climate Trends, in: Mauser, W. & Prasch, M. (Eds.), Regional Assessment of Global Change Impacts: The Project GLOWA-Danube, Springer International Publishing, 377-395.

**Preuschmann, S.**, S. van Gasselt, D. Reiss, D., and G. Neukum, (2004): Inventory of Erosional Features Related to the Residual CO<sub>2</sub>-Ice-Cap of the South Polar Region on Mars, Geophysical Research Abstracts, Vol. 6, 06295, SRef-ID: 1607-7962/gra/EGU04-A-06295, Nice, France.

**Preuschmann, S.** and G. Neukum (2005): Morphological Comparison of Terrestrial Karst Topography with Regions of Valles Marineris using Landsat ETM and HRSC Data of Mars Express, Geophysical Research Abstracts, Vol. 7, 09908, SRef-ID: 1607-7962/gra/EGU05-A-09908, Vienna, Austria.

**Preuschmann, S.,** D. Benkert, R. Wagner, and G. Neukum (2006): Karst-like Topography within the Ganges Chasma Region Geophysical Research Abstracts, Vol. 8, 09383, SRef-ID: 1607-7962/gra/EGU06-A-09383, Vienna, Austria.

**Preuschmann, S.** and D. Jacob (2008): Sensitivity study for parameterization of woods in the regional climate model REMO, Geophysical Research Abstracts, Vol. 10, EGU2008-A-08618,2008. SRef-ID: 1607-7962/gra/EGU2008-A-08618, EGU General Assembly 2008, Vienna, Austria.

**Preuschmann, S.** and D. Jacob, D. (2010): Analysis of regional albedo characteristics and its influence in the regional climate model REMO, Proceedings of Earth Observation for Land-Atmosphere Interaction Science, ESA Communications, Noordwijk, Netherlands 2010.

**Preuschmann, S.** (2012): Regional surface albedo characteristics – analysis of albedo data and application to land-cover changes for a regional climate model. Reports on Earth System Science, 117/2012.

**Preuschmann S.** (2013): LUCHS - an approach for implementing land-use changes in regional climate models by using observation data, INTERNATIONAL CONFERENCE ON REGIONAL CLIMATE CORDEX 2013, Observations, Data and Global Circulation Models Session: Brussels.

**Preuschmann, S.,** Jacob, D. & Löw, A.(2013): On the importance of interpolation schemes for albedo data from local to global grid EGU General Assembly Conference Abstracts, 2013, 15, 8063.

**Preuschmann, S.** and D. Jacob (2014): Character analysis of observation data for model evaluation and land use changes, 3rd International Lund Regional-Scale Climate Modelling Workshop, Lund Sweden, International Baltic Earth Secretariat Publication No. 3, June 2014.

**Preuschmann, S** and K. Bülow (in press): Unsicherheiten in Klimamodellen; in: Tourismus & Klimawandel in Mitteleuropa, Springer Gabler Research.

**Preuschmann, S** and D. Jacob (2015): How Climate Services help to adapt to a changing climate; European Climate Change Adaptation Conference 2015, Copenhagen.

**Preuschmann, S** and D. Jacob (2015): The IMPACT2C Web-Atlas a tool for providing common project results; European Climate Change Adaptation Conference 2015, Copenhagen.

**Preuschmann, S,** L. Kotova and D. Jacob (2015): IMPACT2C und die Abschätzung regionaler Klimafolgen in Europa, 10. Deutsche Klimatagung 2015, Hamburg.

**Preuschmann, S** and D. Jacob (2015): The IMPACT2C web-atlas; EMS Annual Meeting 2015, Sofia.

**Preuschmann, S.;** A. Hänsler, , C. Waidhofer, N. Dürk, W. Eibner, Ch. Haselberger and D. Jacob (submitted): The IMPACT2C web-atlas – conception, organization and aim of a web-based climate service product, Climate Services, Special Issue, Elsevier, ISSN 2405-8807.

**Preuschmann, S.** A. Hänsler, L. Kotova, D. Jacob (2016): The IMPACT2C web-atlas, ICRC-CORDEX 2016, Stockholm.

Teichmann, C., B. Eggert, A. Elizalde, A. Haensler, D. Jacob, P.Kumar, C. Moseley, S. Pfeifer, D. Rechid, 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 climate change signal of the driving GCM: A study over different CORDEX regions using REMO. Atmosphere, 4(2), 214-236, doi:10.3390/atmos4020214.