

Dr. Elke Keup-Thiel

Climate System Department

Contact:

Climate Service Center Germany
Helmholtz-Zentrum Geesthacht
Fischertwiete 1
20095 Hamburg
Elke.keup-thiel@hzg.de
+49 40 226 338 412

Work/research experience:

- since 01/2010** Science Officer at the Climate Service Centre Germany (GERICS), Climate System Department
- 05/2005 – 12/2009** Science Officer at the Max-Planck-Institute for Meteorology (MPI-M), Project Service Group Adaptation (SGA)
- 01/2004 – 04/2005** Science Officer at the at the Max-Planck-Institute for Meteorology (MPI-M), EU-Projekt BALANCE: Global change vulnerabilities in the Barents Sea Region
- 03/1998 –12/2003** Post-Doc at the Meteorological Institute of the University of Hamburg, Cyclones and the North Atlantic Climate System.
- 01/1996 – 12/1997** PhD-student/science officer at the MPI-M, EU-Project SINDICATE II, Study of the INdirect and Direct Influences on Climate of Anthropogenic Trace gas Emissions
- 01/1991 – 12/1995** PhD-student/science officer in the BMBF project Aerosols - Global Aerosol Data Set (GADS); Globale natürliche Aerosolteilchenfelder interaktiv berechnet mit dem Aerosolteilchenmodul APMO im Klimamodell ECHAM
- 03/1990 – 12/1990** Science officer at the University of Hamburg, SFB 318, Climate relevant processes in the system ocean –atmosphere -cyrosphere

Professional qualifications:

Project management:	Coordination of service activities of the Climate Service Center Germany for German adaptation projects in the framework of KLIMZUG: 'Klimawandel in Region zukunftsfähig gestalten'
Development of research proposals	Participation of scientific proposal development and writing proposals for the Climate Service Center Germany contributions, respectively for EU calls.
Software/ Programming skills	Unix/Linux; Shell-scripting; FORTRAN; Grads; climate data operators – CDO's; MS-Office, SQL – (basics), OTRS
Language skills	German (native speaker); English (business fluent); French (basics)

Key areas of interest:**Thematic foci:**

- Quality management
- Evaluation of climate services
- Advice for adaptation projects and clients towards the use and interpretation of global and regional climate model projections
- Assessment of robustness of projected climate change
- Topic 'uncertainty' assessment
- Climate change indicators and impact models

Regional foci:

- Germany / Europe

Research projects and initiatives involved:

Since 2016	Member of DIN Standards Committee NA 172-00-13 AA: 'Anpassung an die Folgen des Klimawandels'
Since 2015	Member of DIN (DIN - Deutsches Institut für Normung) Research Group KU-AK4: 'Anpassung an den Klimawandel'
2013 - 2016	CLIPC – Climate Information Platform for Copernicus – Funded by EU/FP7
2013 - 2015	GERICS project: 'KLIMZUG – Wissensarchiv' : design and setup of a data base which concerns material of the KLIMZUG projects

Publications & book contributions:

- 2016** Otto, J., C. Brown, C. Buontempo, F. Doblas-Reyes, D. Jacob, M. Juckes, **E. Keup-Thiel**, B. Kurnik, J. Schulz, A. Taylor, T. Verhoelst, and P. Walton, 2016: Uncertainty: Lessons Learned for Climate Services. Bull. Amer. Meteor. Soc., 97, ES265 –ES269, doi: 10.1175/BAMS-D-16-0173.1.
- 2014** **Keup-Thiel**, E., Bender, S., Groth, M. , Hennemuth, B. und Schuck-Zöllner, S., 2014: Service für Anpassungs-Projekte. In Biebeler, H., Bardt, H., Chrischilles, E., Mahammadzadeh, M. & Striebeck, J. (2014): Wege zur Anpassung an den Klimawandel – Regionale Netzwerke, Strategien und Maßnahmen, 29-41
- Bender, S., **Keup-Thiel**, E. und Schaller, M. , 2015: Klimaprojektionen und ihre Berücksichtigung bei der hydrologischen Modellierung – Welchen Sinn hat ein Ensemble-Ansatz?-In Bolle, F.-W. & Krebs, P. [Hrsg.]; Siedlungswasserwirtschaft klimarobust gestalten, KLIMZUG – Klimawandel in Regionen zukunftsfähig gestalten, Band 9, 19-27
- 2009** Groth, M., Bowyer, P., Hennemuth, B., Kehlenbeck, U., **Keup-Thiel**, E. und Schuck-Zöllner, S., 2014: Informationsbedarf von Unternehmen – eine sektorspezifische Auswertung des CSC – Anfragenservice; Mahammadzadeh, M., Chrischilles, E., Striebeck, J., Biebeler, H., Bardt, H. (Hrsg.): Unternehmensstrategien zur Anpassung an den Klimawandel – Theoretische Zugänge und empirische Befunde. Oekom-Verlag, München
- 2008** Wunram, C., **E. Keup-Thiel**, H. Mächel und B. Hennemuth, 2009: Die Service Gruppe Anpassung (SGA) verbindet Forschung und Anwendung, in: M. Mahammadzadeh, H. Biebeler, H. Bardt (ed), Klimaschutz und Anpassung an die Klimafolgen, Institut der Deutschen Wirtschaft, Köln, 20-27.
- Hollweg, H.-D., U. Böhm, I. Fast, B. Hennemuth, K. Keuler, **E. Keup-Thiel**, M. Lautenschlager, S. Legutke, K. Radke, B. Rockel, M. Schubert, A. Will, M. Woldt and C. Wunram, 2008: Ensemble simulations over Europe with the regional climate model CLM forced with IPCC AR4 global scenarios. DKRZ, Technical Report No. 3, 148 pp.
- Göttel, H., J. Alexander, **E. Keup-Thiel**, D. Rechid, S. Hagemann, T. Blome, A. Wolf, D. Jacob, 2008: Influence of changed vegetation fields on regional climate simulations in the Barents Sea Region

Climatic Change (BALANCE special issue), 87,
doi: 10.1007/s10584-007-9341-5: 35-50.

2006 Keup-Thiel, E., H. Göttel and D. Jacob, 2006: Climate simulations for the Barents Sea Region, *Boreal Env. Res.* Vol. 11, No 5: 329-339.

2003 Keup-Thiel, E., C. Klepp, E. Raschke and B. Rockel, 2003: Regional model simulations of the North Atlantic Cyclone 'Caroline' and Comparisons with Satellite Data, *Annales Geophysicae*, special issue: 'Clouds in radiative, hydrological and chemical Processes', No. 21, 655-659.

1998 Keup-Thiel, E., 1998: Globale natürliche Aerosolteilchenfelder interaktiv berechnet mit dem Aerosolteilchenmodul APMO im Klimamodell ECHAM, Examensarbeit Nr. 51, Max-Planck-Institut für Meteorologie, ISSN0938-5177, 102 pp

1994 Randall, D. A., R. D. Cess, J. P. Blanchet, S. Chalita, R. Colman, D. A. Dazlich, A. D. Del Genio, V. Dymnikov, V. Galin, D. Jarrett, E. Keup, A. Lacis, H. Le Treut, X.-Z. Liang, B. J. McAvaney, J. F. Mahfouf, V. P. Meleshko, J. F. B. Mitchell, J.-J. Morcrette, P. M. Norris, G. L. Potter, L. Rikus, E. Roeckner, J. F. Royer, U. Schlese, D. A. Sheinin, J. M. Slingo, A. P. Sokolov, K. E. Taylor, W. M. Washington, R. T. Wetherald, I. Yagai and M.-H. Zhang, 1994: Analysis of Snow Feedbacks In Fourteen General Circulation Models. *Journal of Geophysical Research*, 99, 20,757-20,771.

1991 Cess, R. D., G. L. Potter, M.-H. Zhang, J.-P. Blanchet, S. Chalita, R. Coleman, D. Dazlich, A. D. Del Genio, V. Dymnikov, V. Galin, D. Jarrett, E. Keup, A. Lacis, H. Le Treut, X.-Z. Liang, J.-F. Mahfouf, B. J. McAvaney, V. P. Meleshko, J. F. B. Mitchell, J.-J. Morcrette, P. M. Norris, D. A. Randall, L. Rikus, E. Roeckner, J.-F. Royer, U. Schlese, D. A. Sheinin, J. M. Slingo, A. P. Sokolov, K. E. Taylor, W. M. Washington, R. T. Wetherald, and I. Yagai, 1991: Interpretation of Snow-Climate Feedback as Produced by 17 General Circulation Models. *Science*, 253, 888-892.

Roeckner, E., M. Rieland und E. Keup, 1991: Modelling of clouds and radiation in the ECHAM-Model, in: ECMWF/WCRP-workshop, cloud radiative transfer and the hydrological cycle, 1991, Workshop Proceedings, Reading (UK), 199-222.

Reports:

Hennemuth, B., Bender, S., Bülow, K., Dreier, N., Hoffmann, P., Mudersbach, C., Keup-Thiel, E., Krüger, O., Radermacher, C. and Schoetter, R. 2013: Statistical methods for the analysis of simulated and observed climate data, applied in projects and institutions dealing with climate change impact and adaptation. *Climate Service Center - Report 13*, 135 p, ISSN 2192-4058.

Hennemuth, B., Bender, S., Bülow, K., Dreier, N., Hoffmann, P.,

Mudersbach, C., **Keup-Thiel**, E., Krüger, O., Radermacher, C. und Schoetter, R. 2013: Statistische Verfahren in der Auswertung von Klimadaten aus Modell und Beobachtung, eingesetzt in Projekten und Institutionen, die sich mit Klimafolgen und Anpassung befassen. Climate Service Center - Report 13, 139 p., ISSN 2192-4058.

Bower, P., Schaller, M., **Keup-Thiel**, E., Schwarze, R., 2012: Challenges and possibilities in coupling climate, ecological and socio-economic models: overview and examples from two German research projects. Climate Service Center – Report 10, 31p., ISSN 2192-4058.

Keup-Thiel, E., Hennemuth, B., Pfeifer, S., 2012: Besonderheiten und merkmale regionaler Klimaprojektionen im Hinblick auf die weitere Kopplung mit Impaktmodellen. Climate Service Center – Report 9, 24p., ISSN 2192-4058.