

Curriculum Vitae

Dr. Torsten Weber

Climate System Department

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Professional Experience

- Since 05/2011 **Climate Service Center, Helmholtz-Zentrum Geesthacht, Hamburg**
- Since 06/2014 Position: *Scientist in the SASSCAL-Project*
Tasks: • *Expanding the database for a robust regional climate change assessment and uncertainty analysis*
 • *Capacity building for the interpretation of regional climate change projections*
- 01/2014 – 05/2014 Position: *Scientist in the Climate System Department*
Task: *Provision of results from the TFO project for the usage in the Climate Service Center*
Achievements: • *“Assessment of climate dynamics in the Okavango region using high-resolution ERA-40 reanalysis data” (2014), Zentralblatt f. Geologie u. Paläontologie, Teil I, Heft 1*
- 05/2011 – 12/2013 Position: *Project manager for the subproject „Climate Change in the Okavango Region“ as part of “The Future Okavango” (TFO) project*
Tasks: • *Conducting climate simulations with the regional climate model REMO*
 • *Preparation and distribution of climate model data for other subprojects*
 • *Analysis of the hydrological cycle under climate change*
 • *Assessment of the impact of the sea surface temperature on the hydrological cycle*

- Achievements: • *High-resolution regional climate change projections for southern Africa under different emission scenarios*
- *5 Climate factsheets published in “Environmental Assessments in the Okavango Region” (2013), Biodiversity & Ecology 5*

02/2011 – 04/2011

Max-Planck-Institut für Meteorologie, Hamburg

Position: *Postdoc in the Cloud-Climate Feedbacks Group in the Atmosphere Department*

Task: *Preparation of my PhD thesis for publication in a peer-reviewed journal*

Achievement: *“Incorporating the subgrid-scale variability of clouds in the autoconversion parameterization using a PDF-scheme” (2012), J. Adv. Model. Earth Syst., 4, M11003.*

10/2003 – 09/2006

Freie Universität Berlin

Position: *Student assistant (tutor)*

Task: *Teaching duties at the Institute for Meteorology*

07/1994 – 09/2000

Flender Werft AG, Luebeck

Position: *Commercial clerk in the Accounts Department*

- Tasks: • *Accounting of payment transactions*
- *Arrears billing of accounts receivable*
 - *Construction of computerised business analysis*
 - *Supervision of business loans*
 - *Accounting and calculation of monthly distinctions for overheads*

Academic Education

07/2007 – 01/2011

International Max Planck Research School on Earth System Modelling (IMPRS-ESM), Hamburg

03/2007 – 01/2011

Max-Planck-Institut für Meteorologie, Hamburg

PhD candidate in the Cloud-Climate Feedbacks Group in the Atmosphere Department

PhD thesis: *Impact of inhomogeneities on non-linear cloud processes*

10/2006 – 03/2007

Technische Universität Berlin

Subject: Physics

10/2000 – 09/2006 **Freie Universität Berlin**
Subject: Meteorology
Diploma thesis: *Der Dynamische Zustandsindex (DSI) –
Interpretation und Anwendung auf der synoptischen Skala*

Advanced Training

06/2013 Python workshop at the Climate Service Center, Helmholtz-
Zentrum Geesthacht, Hamburg

08/2008 – 09/2008 7th International NCCR Climate Summer School
"Key challenges in climate variability and change", Monte Verità,
Switzerland

09/2007 1st Interantional Summerschool on the MPI-M Earth
System Modelling Framework (ISSMES), Hamburg

12/2004 Rhetoric and representation techniques at the
Weiterbildungszentrum (Continuing Education Centre) at the Freie
Universität Berlin

1997 – 2000 Municipal Evening Grammar School, Luebeck
Higher education entrance qualification (Abitur)

Professional Training

08/1991 – 07/1994 **Flender Werft AG**, Luebeck
Professional training as a commercial clerk

Skills

Computing Operating systems: Linux, Windows
Programming languages: Shell-Scripting, FORTRAN 90, C,
Python, NCAR Command Language (NCL)
Software: MS-Word, MS-Excel, MS-Powerpoint, LATEX, MATLAB,
GrADS, Climate Data Operator (CDO)

Languages German, English

Publications

Peer-reviewed

Weber, T., Helmschrot, J., Berndt, R. and D. Jacob, 2014: Assessment of climate dynamics in the Okavango region using high-resolution ERA-40 reanalysis data. *Zentralblatt f. Geologie u. Paläontologie, Teil I.*, Jg. 2014 Heft 1, 171-187, doi:10.1127/zgpl/2014/0171-0187

Saeed, F., Haensler, A., **Weber, T.**, Hagemann, S. and D. Jacob, 2013: Representation of Extreme Precipitation Events Leading to Opposite Climate Change Signals over the Congo Basin. *Atmosphere*, 4, 254-271. doi:10.3390/atmos4030254

Teichmann, C., Eggert, B., Elizalde, A., Haensler, A., Jacob, D., Kumar, P., Moseley, C., Pfeifer, S., Rechid, D., Remedio, A.R., Ries, H., Petersen, J., Preuschmann, S., Raub, T., Saeed, F., Sieck, K. 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, 214-236. doi:10.3390/atmos4020214

Weber, T., 2013: Okavango Basin – Climate. In: Oldeland, J., Erb, C., Finckh, M. & Jürgens, N., 2013 [Eds.]: Environmental Assessments in the Okavango Region. - Biodiversity & Ecology 5. doi: 10.7809/b-e.00237. (ISSN 1613-9801)

Weber, T., 2013: Cusseque – Climate. In: Oldeland, J., Erb, C., Finckh, M. & Jürgens, N., 2013 [Eds.]: Environmental Assessments in the Okavango Region. - Biodiversity & Ecology 5. doi: 10.7809/b-e.00243. (ISSN 1613-9801)

Weber, T., 2013: Caiundo – Climate. In: Oldeland, J., Erb, C., Finckh, M. & Jürgens, N., 2013 [Eds.]: Environmental Assessments in the Okavango Region. - Biodiversity & Ecology 5. doi: 10.7809/b-e.00253. (ISSN 1613-9801)

Weber, T., 2013: Mashare – Climate. In: Oldeland, J., Erb, C., Finckh, M. & Jürgens, N., 2013 [Eds.]: Environmental Assessments in the Okavango Region. - Biodiversity & Ecology 5. doi: 10.7809/b-e.00258. (ISSN 1613-9801)

Weber, T., 2013: Seronga – Climate. In: Oldeland, J., Erb, C., Finckh, M. & Jürgens, N., 2013 [Eds.]: Environmental Assessments in the Okavango Region. - Biodiversity & Ecology 5. doi: 10.7809/b-e.00266. (ISSN 1613-9801)

Weber, T. and J. Quaas, 2012: Incorporating the subgrid-scale variability of clouds in the autoconversion parameterization using a PDF-scheme, *J. Adv. Model. Earth Syst.*, 4, M11003. doi:10.1029/2012MS000156

Weber, T., Quaas, J. and P. Räisänen, 2011: Evaluation of the statistical cloud scheme in ECHAM5 using satellite data. *Q.J.R. Meteorol. Soc.* 137: 2079–2091. doi:10.1002/qj.887

Weber, T. and P. Névir, 2008: Storm tracks and cyclone development using the theoretical concept of the Dynamic State Index (DSI). *Tellus A*, 60 (1), 1–10. doi:10.1111/j.1600-0870.2007.00272.x

Non peer-reviewed

Weber, T., A. Kriegsmann, B. Eggert and D. Jacob (2015): Analysis of Climate Change Projections for the Okavango River Basin. Published in the Okavango Basin Information System (OBIS)

Quaas, J., V. Grützun, V. Schemann and **T. Weber**, 2012: Evaluating parameterisations of subgrid-scale variability. ECMWF Workshop on Parametrization of Clouds and Precipitation, 5 - 8 November 2012