

PD Dr. Axel Thomas

Privatdozent at Institute of Geography, Johannes Gutenberg- University, Germany

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Field of Expertise: Evapotranspiration and water balance modelling, climate data interpolation in mountain areas, climate trend analysis, GIS, remote sensing; statistics and geostatistics

Educational background:

Studies in Geography, Botany, Geology and Soil Sciences
1987: Diploma of Geography (equivalent to M.Sc.)
1991: Ph.D., Johannes Gutenberg-University, Mainz, Germany
2003: Habilitation

Professional experience:

1991-1996: Lecturer, Inst. of Geography, Johannes Gutenberg-Univ., Mainz, Germany
1997-1998: Consultant, GIS and remote sensing based environmental studies for state, county, city authorities and German Army
1999-2001: Research Associate, German Research Association (DFG)
2002-2006: Scientific Consultant, GIS-Service GmbH, Wackernheim, Germany
Since 2003: Privatdozent (Associate professor status), Inst. of Geography, Johannes Gutenberg-Univ., Mainz, Germany
2006-2008: Professor for climatology, Inst. of Geography, Justus-Liebig-Univ., Gießen, Germany
Since 2008: Senior R&D Manager, GIS Service GmbH, Wackernheim, Germany

Main research activities:

Hydrological cycle and climate trends in mountain areas, agriculture and climate interactions, glacier mass balance studies, regional focus on East and Central Asia, Tibet and the European Alps.

Selected list of relevant publications:

Development and properties of high resolution gridded evapotranspiration data fields of China For hydrological studies, 2008. Journal Of Hydrology 358, 145-158.
Agricultural irrigation demand under present and future climate scenarios in China, 2008. Global And Planetary Change 60, 306-326.
Shrinking Glaciers: The case of the Gepatschferner, 2007. Mountain Forum Bulletin July 2007, 11-12.

- With Chen, S. And Liu, Y. Climatic change on the Tibetan Plateau: Potential evapotranspiration trends from 1961-2000, 2006. *Climatic Change* 76, 291-319.
- Climatic Change And Potential Agricultural Productivity In China, 2006. *Erdkunde* 60, 157-172.
- With Keutterling, A. Orthophotokarte Gepatschferner 1:10000 (Orthophoto Map of Gepatschferner) 1:10.000, 2004. *Zeitschrift für Gletscherkunde und Glazialgeologie* 39, Map Supplement.
- With Herzfeld, U. REGEOTOP: New climatic data fields for East Asia based on localized relief information and geostatistical methods, 2004. *International Journal Of Climatology* 24, 1283-1306.
- Seasonal and spatial variation of evapotranspiration in the mountains of Southwest China, Shandi Yanjiu, 2002. *Mountain Research and Development*, 20, 51-59.
- Overview of the Geoecology of the Gongga Shan Range, Sichuan Province, China, 1999. *Mountain Research and Development* 19, 17-30.
- The Climate of the Gongga Shan Range, Sichuan Province, PR China, 1997. *Arctic and Alpine Research* 29, 226-232.