

# Marko Scholze

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Associate Professor

Dep. of Physical Geog. and Ecosys. Science, Lund University, Sweden

## Bio Summary (Education & Work experience)

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Marko Scholze studied physics at the Universities of Kiel, Heidelberg, both Germany, and Brock University, St. Catharines, ONT, Canada. He worked at the Max-Planck-Institutes for Meteorology, Hamburg, and for Biogeochemistry, Jena, both Germany for obtaining his PhD. He has more than 15 years of experience working in the field of Earth system science and data assimilation. Currently he is Associate Professor for inverse modelling of the interaction between the atmosphere and the earth's surface in the Department of Physical Geography and Ecosystem Science at Lund University, Sweden. Before moving to Lund he was a Research Fellow at the University of Bristol, UK, and a PI in the Data Assimilation Theme of the UK's National Centre for Earth Observation.

Dr. Scholze's current research focuses on the development and application of data assimilation methodologies to improve the quantification of the global carbon cycle with a focus on ecosystem-atmosphere interactions. He is one of the main developers of the Carbon Cycle Data Assimilation System (CCDAS), the first data assimilation system using, among others, atmospheric CO<sub>2</sub> observations to optimize terrestrial ecosystem model process parameters.

He serves as a member of the European Space Agency / European Commission CO<sub>2</sub> Monitoring Task Forces to design an operational fossil fuel CO<sub>2</sub> emissions monitoring system. His research output encompasses over 45 peer-reviewed publications.