



Prof. Dr. Wolfram Mauser
Chair for Geography and Remote Sensing

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Career

Education in Physics, Chemistry, Mathematics,
Geography und Hydrology at University of Freiburg,
Germany and Maryland, USA,
Master in Physics,
Master in Geography,
PhD in Hydrology

since 1991 Chair for Geography and Remote Sensing,
LMU München,

2003-2008, Chair „National Committee for Global
Change Research“ of German Science Foundation
(DFG) and German Federal Ministry for Education and
Research (BMBF),

2004-2008 Member Scientific Advisory Boards of the
Earth System Science Centre (ESSC), University of
Reading England, National Environmental Research
Council, Great Britain,

2005-2008 Member Scientific Advisory Board,
Potsdam Institute for Climate Impact Research,

since 2006 Member Scientific Advisory Boards of the
German Hyperspectral Satellite Mission “EnMap“ of
DLR.

since 09/10 Member of the Supervisory Board of the
“Umwelt-forschungszentrum (Centre for Environmental
Research)”, Leipzig, of the German Helmholtz
Association of Research Centres (HGF)

since 2011 Member of the "High Panel on Science and
Innovation for Development" of UNESCO, Paris,
France

since 2013 Chair of the "Earth Sciences Advisory
Committee" of the European Space Agency ESA,
Frascati, Italy

Research Interests:

- Development and application of regional to global land surface processes models
- Remote sensing image processing and data assimilation into models
- Global Change research (water availability, food production under changing global and regional boundary conditions)

Participation in Research Programmes and Projects

GLOWA-Danube: Integrative Techniques, Scenarios and Strategies regarding the Global Change of the Water Cycle, BMBF, 2001-2011

GLUES: Global Assessment of Land Use dynamics on Greenhouse Gas Emissions and Ecosystem Services, BMBF, 2009-2017

INOLA: Innovations for a sustainable Land- and Energymanagement on the regional Scale, BMBF, 2014-2019

SNOWSENSE: The use of GPS-receivers for the measurement of snow properties, 2011-2017, German Research Association (DFG) and European Space Agency (ESA)

Distinction and Awards:

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| 06/2014 | Decoration with the Order of Merit of the Federal Republic of Germany by the President of the Federal Republic of Germany |
| 2014-2015 | Carson-Professor of the Rachel Carson Center for Environment and Society at the Ludwig-Maximilians University, Munich |

Recent Publications:

MAUSER, W., KLEPPER, G., ZABEL, F., DELZEIT, R., HANK, T., CALZADILLA, A.: Global biomass production potentials exceed expected future demand without the need for cropland expansion, *Nature Commun.* 6:8946; doi: 10.1038/ncomms9946 (2015)

Mauser, W. and Prasch, M. (Eds.) (2015): Regional Assessment of Global Change Impacts. The Project GLOWA-Danube, *Springer, ISBN 978-3-319-16750-3*

GUANTER, L., KAUFMANN, H., SEGL, K., FOERSTER, S., ROGASS, C., CHABRILLAT, S., KUESTER, T., HOLLSTEIN, A., ROSSNER, G., CHLEBEK, C., STRAIF, C., FISCHER, S., SCHRADER, S., STORCH, T., HEIDEN, U.,

MUELLER, A., BACHMANN, M., MUEHLE, H., MÜLLER, R., HABERMEYER, M., OHNDORF, A., HILL, J., BUDDENBAUM, H., HOSTERT, P., VAN DER LINDEN, S., LEITÃO, P., RABE, A., DOERFFER, R., KRASEMANN, H., XI, H., MAUSER, W., HANK, T., LOCHERER, M., RAST, M., STAENZ, K., & SANG, B. (2015): The Environmental Mapping and Analysis Program (EnMAP) spaceborne imaging spectroscopy mission for Earth observation. , *Remote Sensing* 7(7), 8830-8857

Koch, F., Prasch, M., Schmid, L., Schweizer, J. and Mauser, W. (2014): Measuring Snow Liquid Water Content with Low-Cost GPS Receivers , *Sensors*, 14, doi:10.3390/s141120975 , 20975-20999

Zabel, F., Putzenlechner, B., Mauser, W. (2014): Global Agricultural Land Resources - A High Resolution Suitability Evaluation and Its Perspectives until 2100 under Climate Change Conditions , *PLOS ONE*, 9(9), doi: 10.1371/journal.pone.0107522

Mauser, W., Klepper, G., Rice, M., Schmalzbauer, B., Hackmann, H., Leemans, R., Moore, H. (2013): Transdisciplinary global change research: the co-creation of knowledge for sustainability, COSUST, doi.org/10.1016/j.cosust.2013.07.001

Prasch, M., Mauser, W., and Weber, M. (2013): Quantifying present and future glacier melt-water contribution to runoff in a central Himalayan river basin, *The Cryosphere*, 7, 889-904, doi:10.5194/tc-7-889-2013
