

## Dipl. Geograph Markus Tum

### CURRENT PROJECT WORK

- EnerGEO (FP7)

### CURRENT TASKS

- PhD research on modelling and validating biomass potentials in selected areas (Germany, Austria, Pakistan)
- Development of a multi layered soil water budgeted model

### EDUCATION

- Diploma degree in Geography at University of Göttingen
- Diploma thesis: Variabilitätsuntersuchungen der NPP von Energiepflanzen für das gebiet Deutschland - Österreich

### EMPLOYMENT RECORD

- **10/2009 - present** Research associate at the Land Surface Dynamics group, DLR-DFD-LA
- **05/2009 - 09/2009** Research associate at the Biosphere Atmosphere Interactions group, DLR-DFD-KA
- **06/2008 – 12/2008** Research associate at the Biosphere Atmosphere Interactions group, DLR-DFD-KA
- **02/2008 – 06/2008** Internship at DLR-DFD-KA

### RESEARCH TOPICS

- Modeling the carbon and water cycle for agricultural and forestry areas
- Derivation of straw potentials (renewable energy potentials)
- Estimation of the achievable accuracy of derivations

### PUBLICATIONS

#### Conferences

- NIKLAUS, M.; TUM, M.; GÜNTHER, K.P. (2010): Modelling the Carbon Balance of South Africa with BETHY/DLR. 1<sup>st</sup> TERRABITES Symposium, 09-11. February, Hamburg, Germany.
- TUM, M.; GÜNTHER, K.P.; SCHROEDTER-HOMSCHEIDT, M. (2009): Modelling Biomass Potentials of Energy Crops in Germany and Austria using Remote Sensing Data. 33<sup>rd</sup> International Symposium on Remote Sensing of Environment, 04.-08. Mai, Stresa, Italia.
- GÜNTHER, K.P.; SCHROEDTER-HOMSCHEIDT, M.; TUM, M. (2009): Regional and Global Distribution of Biomass Potentials. Biomass Potential Estimation from a Modelling Approach Based on Remote Sensing. 1<sup>st</sup> International Conference on Biomass in Future Landscapes, 31. March-01. April, Berlin, Germany.
- GÜNTHER, K.P.; SCHROEDTER-HOMSCHEIDT, M.; TUM, M. (2009): Regional and Global Distribution of Biomass Potentials. Review on Estimation of Biomass Potentials using Remote Sensing Data. 1<sup>st</sup> International Conference on Biomass in Future Landscapes, 31. March-01. April, Berlin, Germany.