

SCI-Journals

2017

- **Winkler, K.; Gessner, U.;** Hochschild, V. (2017): Identifying Droughts Affecting Agriculture in Africa Based on Remote Sensing Time Series between 2000–2016: Rainfall Anomalies and Vegetation Condition in the Context of ENSO. *Remote Sensing* 9(8), 831. doi: 10.3390/rs9080831
- **Klein, I.; Gessner, U.;** Dietz, A.J.; Kuenzer, C. (2017): Global WaterPack – A 250 m resolution dataset revealing the daily dynamics of inland water bodies. *Remote Sensing of Environment* 198, 345-362.
- Knauer, K.; **Gessner, U.;** Forkuor, G.; Fensholt, R.; Kuenzer, C. (2017): Monitoring Agricultural Expansion in Burkina Faso over 14 Years with 30 m Resolution Time Series: The Role of Population Growth and Implications for the Environment. *Remote Sensing* 9(2), 132, doi:10.3390/rs9020132
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- **Da Ponte, E.;** Kuenzer, C; Parker, A.; Rodas, O.; Oppelt, N.; Fleckenstein, M. (2017). Forest cover loss in Paraguay and perception of ecosystem services: A case study of the Upper Parana Forest. *Ecosystem Service*. 24, 200-2012, <http://dx.doi.org/10.1016/j.ecoser.2017.03.009>
- Plank S, Fuchs E-M, **Frey CM** (2017): A Fully Automatic Instantaneous Fire Hotspot Detection Processor Based on AVHRR Imagery—A TIMELINE Thematic Processor. *Remote Sens.* 2017, 9(1), 30; doi:10.3390/rs9010030
- **Frey, CM.;** Kuenzer, C.; Dech, S. (2017): Assessment of Mono- and Split-Window Approaches for Time Series Processing of LST from AVHRR—A TIMELINE Round Robin. *Remote Sens.* 2017, 9(1), 72; doi:10.3390/rs9010072

2016

- Klein, C.; Bliefernicht, J.; Heinzeller, D.; **Gessner, U.**; **Klein, I.**; Kunstmann, H. (2016): Modelled feedbacks of observed inter-annual vegetation changes on the West African monsoon. *Earth System Dynamics*, published online in June 2016.
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- **Winkler, K.** (2017): Landwirtschaftliche Dürren in Afrika und ihre Beziehung zu ENSO auf Basis von Fernerkundungszeitreihen von 2000-2016, Junger Kongress für Geographie (JKG), 2 Oktober 2017, Tübingen.
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- **Gessner, U.;** Knauer, K.; Machwitz, M.; Dech, S.; Kuenzer, C. (2016): Impacts of Socio-economic development and urbanization on natural resources – case studies from Africa. IGARSS, 10-15 July 2016, Beijing, China.
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- Huth, J.; Ahrens, M.; **Klein, I.**; **Gessner, U.**; Hoffmann, J.; Kuenzer, C. (2015): WaMaPro – a user friendly tool for water surface derivation from SAR data – and further products derived from optical data. ESA Mapping Water Bodies from Space Conference 2015 18-19 March 2015, Frascati, Italy.
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- **Gessner, U.**; Knauer, K.; **Klein, I.**; Kuenzer, C. (2016) Assessing socio-economic and climate-related impacts on natural resources in rural areas of West Africa. In: PROCEEDINGS OF THE 36th ANNUAL EARSEL SYMPOSIUM, Seite 189. 36th EARSEL Symposium, Bonn, Germany.

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- Esch, T.; Heldens, W.; **Hirner, A.**; Keil, M.; Marconcini, M., Roth, A.; Zeidler, J. (2015) Global Urban Footprint - A Key Step in Characterizing the Global Human Settlements Pattern from Space. Conference Mapping Urban Areas from Space, 4-5 Nov 2015, Frascati, Italy. Volltext nicht online.
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Book Contributions

- **Gessner, U.**; Knauer, K.; Kuenzer, C. and Dech, S. (2015): Land surface phenology in a West African savannah: impact of land use, land cover and fire. In: C. Kuenzer & S. Dech, ed., ‚Remote Sensing Time Series revealing Land Surface Dynamics‘. Springer, Berlin, pp. 203-223.
- Niklaus, M.; Eisfelder, C.; **Gessner, U.**; Dech, S. (2015): Land Degradation in South Africa – A Degradation Index Derived from 10 Years of Net Primary Production Data. In: C. Kuenzer & S. Dech, ed., ‚Remote Sensing Time Series revealing Land Surface Dynamics‘. Springer, Berlin, pp. 247-267.
- **Klein, I.**; Dietz, A.; **Gessner, U.**; Kuenzer, C. (2015): Global WaterPack: Intra-Annual Assessment of Spatio-Temporal Variability of Inland Water Bodies. : C. Kuenzer & S. Dech, ed., ‚Remote Sensing Time Series revealing Land Surface Dynamics‘. Springer, Berlin, pp. 99-119.

Further Publications

- Esch, T.; **Hirner, A.**; Asamer, H.; Reck, C.; Marconcini, M.; Metz, A.; Boettcher, M.; Mathot, E.; Permana, H.; Soukop, T.; Stanek, F.; Kuchař, Š.; Zeidler, J. (2016) New Opportunities for Global Environmental Monitoring Arising from Integrative Service Platforms for Earth Observation Data Exploitation. In: The Fourth International Workshop on Earth Observation and Remote Sensing Applications, p. 1. The Fourth International

Workshop on Earth Observation and Remote Sensing Applications, 4-6 Juli 2016, Guangzhou, China. Volltext nicht frei.

- Esch, T.; Heldens, W.; **Hirner, A.**; Keil, M.; Marconcini, M.; Roth, A.; Zeidler, J., (2016) The Global Urban Footprint - A Key Step in Characterizing the Global Human Settlements Pattern from Space. PIK Climate Change & Development Colloquium, 21 January 2016, Potsdam, Deutschland. Volltext nicht online.