

Scientific Report 2013 – 2016

Scientific Activities 2013-2016 (as of 20.03.2017)

This report covers scientific activities of DFD and University of Würzburg staff in the time period between January 1, 2013 and December 31, 2016.

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Teaching and Education

Lectures at Universities

University courses conducted by DFD staff from 2013 until WS 2016/2017 (lecturers of the Department of Remote Sensing at University of Würzburg in *italic typeface*). Winter semester courses are listed in the year of beginning.

DFD has special relations to the following Universities: University of Würzburg (Chair for Remote Sensing, Prof. S. Dech), University of Augsburg (W2 professorship for Atmospheric Remote Sensing, Prof. M. Bittner), TU München (honorary professorship, Prof. G. Strunz) and University of Bayreuth (participation in Master program "Global Change Ecology").

University	Title	Lecturers	2013	2014	2015	2016
Würzburg	Vorlesung					
	Anwendungen der Fernerkundung in der Geographie	<i>Conrad, C.</i>	■	■	■	■
	Applications of Earth Observation	<i>Conrad, C.</i>				■
	Einführung in die Geographische Fernerkundung	<i>Dech, S.</i>	■	■	■	■
	Spezielle Physische Geographie I: System Erde – Mensch und Umwelt I: Hydrogeographie	<i>Conrad, C.</i>		■	■	
	Introduction to Remote Sensing and Geoanalysis	<i>Kuenzer, C.</i>				■
	Seminar					
	Ausgewählte Themen zur Analyse urbaner Räume basierend auf Erdbeobachtungsdaten	<i>Taubenböck, H.</i>	■	■	■	■
	Dynamik der Landoberfläche	<i>Conrad, C.</i> <i>Kuenzer, C.</i>	■	■	■	■
	Fernerkundliche Methoden für das Forst- und Umweltmonitoring	<i>Latifi, H.</i>	■	■	■	
	Fernerkundung im Ressourcenmanagement	<i>Conrad, C.</i> <i>Taubenböck, H.</i>	■	■	■	■
	Regionale Geographie außerhalb Europas II	<i>Conrad, C.</i>	■			
	Übung					
	Auswertung optischer Fernerkundungsdaten unter ENVI	<i>Bachmann, M.</i>	■		■	

University	Title	Lecturers	2013	2014	2015	2016
	Digital Image Analysis and GIS	Conrad, C.				■
	Einführung in die objektorientierte Datenverarbeitung mit eCognition	Thiel, M. H. Taubenböck		■	■	■
	Feldmethoden der Fernerkundung	Lex, S.	■			
	Fernerkundliche Analysen mit dem Open Source Programm R	Latifi, H.	■	■	■	
	Fernerkundliche Parameter der Landoberfläche	Conrad, C.	■	■	■	■
	Methoden der fernerkundlichen Datenauswertung	Asam, S. Kübert, C. Conrad, C.	■	■	■	■
	Programming and Geostatistical Analysis	Wegmann, M.				■
	Von 3D-Punktwolken bis zum Boden: Einführung in die LIDAR-Fernerkundung	Latifi, H.	■	■	■	■
	What's g(r)owing on? Fernerkundliches Monitoring in der Landwirtschaft	Conrad, C. Fritsch, S.			■	
Others						
Augsburg	Aktuelle Aspekte der Atmosphären- und Klimaforschung (Seminar)	Bittner, M. Wüst, S.	■	■	■	■
	Antarktisforschung in Deutschland (Seminar)	Höppner, K			■	
	Atmosphärenforschung (Seminar)	Höppner, K.		■	■	
	Die Antarktis: ausgewählte Forschungsfelder (Seminar)	Höppner, K.				■
	Physik der Atmosphäre I (Vorlesung)	Bittner, M.	■	■	■	■
	Physik der Atmosphäre I (Übung für Physiker bzw. Geographen)	Wüst, S. L. Küchelbacher	■	■	■	■
	Physik der Atmosphäre II (Vorlesung)	Bittner, M.	■	■	■	■

Scientific Activities 2013-2016 (as of 20.03.2017) > Teaching and Education

University	Title	Lecturers	2013	2014	2015	2016
Bayreuth (GCE)	Physik der Atmosphäre II (Übung)	Wüst, S.	■	■	■	
	Physik der Atmosphäre II – Numerische Methoden (Vorlesung)	Wüst, S.				■
	Polare Regionen (Seminar)	Höppner, K.				■
	Advanced Methods in Nature Conservation (Vorlesung + Übung)	Wegmann, M.	■	■	■	■
	Global Change Impacts on Species Distributions (Vorlesung + Übung)	Wegmann, M.	■	■	■	■
	Patterns of Land Use and Ecosystem Dynamics (Vorlesung + Übung)	Wegmann, M.	■	■	■	■
	Remote Sensing (Vorlesung + Übung)	Wegmann, M.	■	■	■	■
Angers, France	Remote Sensing in Biodiversity Research (Vorlesung + Übung)	Wegmann, M.	■	■	■	■
Angers, France	Introduction to LIDAR remote sensing	Latifi, H.				■
Eichstätt	Fernerkundung (Vorlesung, Seminar/Praktikum)	Sparwasser, N.	■	■	■	■
Graz (TU), Austria	Urbane Fernerkundung (Seminar/Praktikum)	Wurm, M.	■		■	
Jena	Advanced Classification (Vorlesung/Übung)	Wurm, M.				■
	Hyperspektrale Fernerkundung (Seminar)	Bachmann, M. Müller, A.		■		■
Karlsruhe (KIT)	Geo-Informatik (Seminar/Praktikum)	Habermayer, M.			■	
	Energy Meteorology	Schroedter-Homscheidt, M.				■
Köln	Energy Meteorology	Schroedter-Homscheidt, M.				■
Kumasi, Ghana	Introduction to Remote Sensing and GIS	Thiel, M.				■

University	Title	Lecturers	2013	2014	2015	2016
Lomé, Togo	Desasters and Human contingency	<i>Thiel, M.</i>	■	■		
Minna, Nigeria	Applied Remote Sensing	<i>Thiel, M.</i>		■		
München (HS)	Fernerkundung (Vorlesung, Seminar/Praktikum)	Schmitt, A.			■	■
	Fernerkundung – Vertiefung (Vorlesung, Übung)	Rentsch, M.			■	■
München (LMU)	Kartographie/GIS (Grundvorlesung)	Strobl, C.		■	■	■
München (TUM)	Fernerkundung und GIS (Spezialvorlesung)	Strunz, G.	■	■	■	■
	Geostatistics and Geomarketing (Spezialvorlesung)	Strobl, C.	■	■	■	■
	DV-gestützte Geostatistik (Spezialvorlesung)	Strobl, C.	■	■	■	■
	Mission Engineering and Ground Infrastructure (ESPACE)	Diedrich, E.				
Neubrandenburg	Datenerfassung und Datenmanagement – Fernerkundung (Vorlesung)	Borg, E.	■	■	■	
	Landschaftswissenschaften und Geomatik – Fernerkundung (Vorlesung)	Borg, E.	■	■	■	■
Stuttgart (HS)	Advanced Topics of Photogrammetry and Remote Sensing (Vorlesung, Seminar und Übung)	Esch, T.	■	■	■	■
Venedig, Italy	Fernerkundung (Spezialvorlesung)	Marconcini, M.			■	

TUM: Technische Universität München
 LMU: Ludwig-Maximilians-Universität
 TU: Technische Hochschule
 HS: Hochschule
 GCE: Elitestudiengang Global Change Ecology

Invited Guest Lectures at Universities

Invited guest lectures at universities conducted by DFD staff from 2013 until WS 2016/2017 (lectures of Department of Remote Sensing staff from University of Würzburg in *italic typeface*)

University	Title	Lecturers	2013	2014	2015	2016
Bremen	Assessing the Ecosystem Service Potential of Coastal Mangrove Forests combining Remote Sensing and Social Science Studies	Kuenzer, C.	■			
Cape Town, South Africa	New forms of global urbanization – An Earth observation perspective (online-guest lecture)	Taubenböck, H.			■	
Cork, Ireland	Remote Sensing of Coasts and River Deltas globally	Kuenzer, C.			■	
Dortmund	Fernerkundung und geostatistische Verfahren zur Analyse städtischer Räume	Taubenböck, H.			■	
Dresden (TU)	Information about dust properties from hyperspectral infrared space observations	L. Klüser			■	
Duisburg-Essen	Nutzungspotentiale der Satellitenfernerkundung für umweltmeteorologische Anwendungen	Erbertseder, T.			■	
Hannover	Fernerkundung von Küsten und Flussdeltas: Schnittstellen mit Hydrologie und Küstenbauingenieurwesen	Kuenzer, C.			■	
Hannover	Irradiance Forecasts for Electricity Production	Schroedter-Homscheidt, M.	■			
Jena	Modulare Programmierung mit IDL für den Einsatz in der Fernerkundung	Bachmann, M. Habermayer, M.	■	■	■	■
München (TU)	Information Extraction from Remote Sensing Data for Disaster Management Applications	Martinis, S.				■
	Data Processing and Image Analysis	Plank, S.				■
	European Earth Observation Systems	Schreier, G			■	■
Nikosia (TU), Cyprus	Multitemporal Earth Observation Analysis	Geßner, U.				■

University	Title	Lecturers	2013	2014	2015	2016
	The European Earth Observation Programme COPERNICUS: A contribution to preserve Cultural Heritage	Schreier, G				■
Salzburg, Austria	New dimensions of urbanization – An Earth observation perspective	Taubenböck, H.			■	
Taiwan, China	The Potential of EO for Coastal Research Applications	Kuenzer, C.				■
Teheran, Iran	From 3D point cloud to the ground: How able is the airborne remote sensing to capture information on forest structure?	<i>Latifi, H.</i>	■			
Tianjin, China	Remote Sensing Time Series revealing Land Surface Dynamics	Kuenzer, C.			■	

Non-University Courses and Tutorials

Non-university courses and tutorials conducted by DFD staff in 2016 (courses of Department of Remote Sensing at University of Würzburg in *italic typeface*)

Lecturer	Location	Subject	2013	2014	2015	2016
Bachmann, M.	Beijing, China	Atmospheric Correction using ATCOR, IEEE GIS Training Course				■
Chang, J.W.	Dongying China	User Training for the DELIGHT Data Manager			■	
Chang, J.W.	Dongying China	Data Preparation and Ingestion for the DELIGHT Information System		■	■	
Gähler, M.	Oberpfaffenhofen	ZKI-Training für Mitarbeiter des Ministerium des Innern und Sport Land Sachsen-Anhalt			■	
Gähler, M. Mager, A.	Oberpfaffenhofen	ZKI-DE Nutzertraining für BKA				■
Gähler, M. Schneiderhan, T.	Bonn	ZKI-DE Nutzertraining für GMLZ-Mitarbeiter des BBK			■	
Gähler, M. Schneiderhan, T.	Oberpfaffenhofen	ZKI-DE Nutzertraining für Mitarbeiter des BKA			■	
Gosdschan, T.	Sioux Falls, USA	International Charter Space and Major Disasters / PM-Training			■	
Gstaiger, V. Zwenzner, H.	Wien, Österreich	International Charter Space and Major Disasters / PM-Training			■	
Jaspersen V.	Dongying, China	OGC Services, Metadata and ISO Standards			■	
Jaspersen, V.	Dongying China	User Training for the DELIGHT (Data and) System Administrator		■	■	■
Kuenzer, C.	Peking, China	Assessing Land Surface Dynamics	■	■		
Kuenzer, C.	Tianjin, China	Zeitreihenprozessierung und thermale Fernerkundung			■	
<i>Leinich, M.</i>	Almaty, Kasachstan	Introduction into QGIS (QGIS Courses) for the CAREC-staff			■	

Lecturer	Location	Subject	2013	2014	2015	2016
<i>Löw, F. Bauer, C.</i>	Almaty, Kasachstan; Urgench, Usbekistan	R-Trainingskurse in Zentralasien			■	■
Mager, A. Gähler, M.	Bonn	ZKI-DE Nutzertraining für GMLZ-Mitarbeiter des BBK				■
<i>Morper-Busch, L. Dimov, D. Conrad, C.</i>	Almaty, Kasachstan	Summer School: "CAWa Summer School at German-Kazakh University in Almaty"		■	■	■
<i>Morper-Busch, L. Dimov, D.</i>	Almaty, Kasachstan	Methods and Tools for the Assessment and Monitoring of Central Asian Water and Land Resources - From field measurements to spatial analysis				■
Roth, A.	Weßling	SAR Principles and Applications (CCG Kurs)	■	■	■	■
Strobl, C.	Stuttgart	Geodatenverarbeitung mit Python, FOSSGIS- Gruppe			■	
Strobl, C.	Münster	Workshop - Einführung in die Geodatenverarbeitung mit Python (FOSSGIS Konferenz)			■	
<i>Thiel, M.</i>	Bonn	Remote Sensing of land cover and land use at different scales				■
<i>Wegmann, M.</i>	Radolfzell Virginia, USA	AniMove: Animal Movement and Remote Sensing for Conservation			■	■

CCG: Carl-Cranz-Gesellschaft

Internal Seminar Series

Title	Comments
DFD Seminar	6 – 8 presentations per year, DFD and guest scientists
Seminars of DFD sections	115 seminars between 2013 and 2016, DFD and guest scientists (2016: 51, 2015: 24, 2014: 25, 2013: 15)
Doktorandentage University of Würzburg	Annual event with on average 7 PhD status presentations
R-Werkstatt University of Würzburg	16 presentations since 2013 (2016: 5, 2015: 4, 2014: 5, 2013: 2)
Werkstattberichte University of Würzburg/PhD Talks	15 since 2013 (2016: 4, 2015: 8, 2014: 1, 2013: 2)

Contributions

Title	Comments
Wissenschaftliches Kolloquium of DLR Oberpfaffenhofen	3 presentations since 2013 (2016: 1, 2015: 1, 2014: 1)
Diplomanden-/ Doktorandenseminar der Physischen Geographie, University of Würzburg	10 seminars since 2013 (2016: 3, 2015: 5, 2014: 1, 2013: 1)

In-House Interns and Trainees

197 students (2013: 45, 2014: 34, 2015: 82, 2016: 36) received practical training and supervision from DFD staff during short-term periods of stay at DFD between 2013 and 2016.

Academic Degrees

Professorship Appointments

Professorship appointments of DFD or University of Würzburg staff (in *italic typeface*) since 2013.

Name	Professorship	University	Year
Schmitt, A.	Professur für „Angewandte Geodäsie“	Hochschule München	2016

Habilitations and Venia Legendi

Habilitations awarded, supervised or completed by DFD or University of Würzburg staff (in *italic typeface*) since 2013

Name	Subject	University	Year	Reviewers
<i>Conrad, C.</i>	Neue Konzepte der Fernerkundung und Geoinformatik für ein nachhaltiges Land- und Wassermanagement in Trockengebieten	Würzburg	Ongoing	Prof. Dech Prof. Hahn Prof. Baumhauer
Höppner, K.	Network for the Detection of Mesopause Change (NDMC): ein Beitrag zum Verständnis des Klimawandels	Augsburg	Ongoing	Prof. Jacobeit Prof. Wetzel Prof. Bittner
<i>Latifi, H.</i>	Methoden zur Erfassung von Struktur und Vitalität der temporären Waldbestände mit Fernerkundung	Würzburg	Ongoing	Prof. Dech Prof. Baumhauer PD Dr. Müller
Taubenböck, H.	Der Einsatz der Erdbeobachtung zur Analyse globaler Urbanisierung	Würzburg	Ongoing	Prof. Dech Prof. Baumhauer Prof. Hahn
Wüst, S.	Wellen in der mittleren Atmosphäre – Untersuchung von Kopplungsmechanismen und Entwicklung von Validationskonzepten	Augsburg	Ongoing	Prof. Reller Prof. Horn Prof. Hoppe
Kuenzer, C.	The potential of EO for the sustainable management of natural resources in large river delta regions	Würzburg	2016	Prof. Dech Prof. Baumhauer Prof. Rauh

Doctoral Theses

 Doctoral Theses supervised or completed by DFD or University of Würzburg staff (in *italic typeface*) since 2013

Name	Title	University	Year	Reviewers
Adam, F.	Development of advanced techniques for modeling data gaps in HR time series mass data	München (TU)	Ongoing	Stilla, U. (1) N.N. (2)
<i>Batsaikhan, A.</i>	Climate Impacts on phenology of grasland and crops along a transect through altitudinal zones using remote sensing	Würzburg	Ongoing	Conrad, C. (1) N.N. (2)
<i>Bauer, C.</i>	Explaining and assessing spatial and temporal patterns of low productivity arable land and land abandonment – using satellite observation and socioeconomic data of the irrigated low-lands of Central Asia	Würzburg	Ongoing	Conrad, C. (1) N.N. (2)
<i>Clauß, K.</i>	Development of an Automated Approach for Rice Cultivation Monitoring using time series of optical and Sentinel-1 data	Würzburg	Ongoing	Kuenzer, C. (1) Wagner, W. (2)
Da Ponte Canova, E.	Deriving Tropical Forest Cover Dynamics for Latin America using Earth Observation Data	Kiel	Ongoing	Oppelt, N. (1) Kuenzer, C. (2)
<i>Dahms, T.</i>	Ableitung von biophysikalischen Parametern aus fusionierten hochfrequenten fernerkundlichen Zeitserien	Würzburg	Ongoing	Conrad, C. (1) N.N. (2)
<i>Dimov, D.</i>	Integrating Probabilistic Graphical Network modelling to assess agricultural vulnerability for food security in Central Asian irrigation zones through optical and SAR Remote Sensing	Würzburg	Ongoing	Conrad, C. (1) N.N. (2)
Friedl, P.	Reprozessierung von SAR-Daten auf der Antarktischen Halbinsel zur Gewinnung wichtiger glaziologischer Parameter	Erlangen	Ongoing	Braun, M (1) N.N. (2)
Georg, I.	New spatial dimensions of global cityscapes	Salzburg	Ongoing	Blaschke, T. (1) Taubenböck, H. (2)
Hannawald, P.	Analyse von Schwerewellenparametern aus Kameraaufnahmen des OH Airglow	Augsburg	Ongoing	Bittner, M. (1) N.N. (2)
<i>Hill, S.</i>	Monitoring the structural parameters of forest habitats by multi-source/multi-temporal remote sensing data	Würzburg	Ongoing	N.N. (1) N.N. (2)

Name	Title	University	Year	Reviewers
Jilge, M.	Fusion of hyperspectral and multispectral data for urban analyses Analysing Urban Surfaces with Spaceborne Hyperspectral (EnMAP) and Multispectral Remote Sensing Data (Sentinel-2)	Bochum	Ongoing	Jürgens, C. (1) Somers, B. (2)
Knauer, K.	Remote Sensing of Vegetation Dynamics in West Africa: Improved Satellite Time Series for Agricultural Analyses	Würzburg	Ongoing	Kuenzer, C. (1) Fensholt, R. (2)
Küchelbacher, L.	Charakterisierung der planetaren Wellendynamik und deren Kopplung innerhalb der Tropo- und Stratosphäre im Bereich der Mittelbreiten auf das Wettergeschehen	Augsburg	Ongoing	Bittner, M. (1) N.N. (2)
Kübert, C.	Assessment and analysis of land surface phenology using remote sensing data	Würzburg	Ongoing	Dech, S. (1) Paeth, H. (2)
Leichtle, T.	Analyse der Veränderungen der Stadtstruktur und deren Implikationen für das Wasserressourcenmanagement – eine fernerkundungsgestützte Analyse im Delta des Gelben Flusses	Berlin (HU)	Ongoing	Lakes, T. (1) N.N. (2)
Li, Yu	Automatic Change Detection for Natural Disasters Based On Space-borne SAR Time Series Data	München (LMU)	Ongoing	Ludwig, R. (1) N.N. (2)
Leutner, B.	Sensor Requirements for Remote Sensing Based Habitat Mapping	Würzburg	Ongoing	Dech, S. (1) Müller, J. (2)
Mancera, D.	Klimatologie der Aerosolvertikalverteilung in der Grenzschicht für Solarenergieanwendungen	Oldenburg	Ongoing	N.N. (1) N.N. (2)
Nguyen, B. D.	Exploring SAR time series for the analyses of seasonality patterns	Wien (TU)	Ongoing	Wagner, W. (1) Kuenzer, C. (2)
Ottinger, M.	Development of Remote Sensing based Methods for the Derivation of Aquaculture	Würzburg	Ongoing	Kuenzer, C. (1) Wagner, W. (2)
Reichmuth, A.	Optimization of Time Series using Multisensoral Data for Detecting Vegetation Changes	Würzburg	Ongoing	Conrad, C. (1) Dech, S. (2)
Remelgado, R.	Evaluating the use of remote sensing for animal movement modeling	Würzburg	Ongoing	Dech, S. (1) Wikelski, M. (2)
Sedlak, René	Charakterisierung der Aktivität und Turbulenz von Schwerewellen in der mittleren Atmosphäre anhand von Spektrometer- und Imagerdaten des OH Airglow	Augsburg	Ongoing	Bittner, M. (1) N.N. (2)
Seissiger, S.	Ableitung des FAPAR für ein optimiertes Wassermanagement im Ferghanatal in Zentralasien	Würzburg	Ongoing	Conrad, C. (1) N.N. (2)

Name	Title	University	Year	Reviewers
Standfuß, I.	Das Migrationsverhalten von Zugvögeln in Abhängigkeit von Siedlungsmustern und -strukturen	Würzburg	Ongoing	Dech, S. (1) N.N. (2)
Streicher, F.	Modellierung der Ausbreitung und Interaktion atmosphärischer Wellen (Infraschall, Schwerewellen)	Augsburg	Ongoing	Bittner, M. (1) Jacobeit, J. (2)
Tsyganskaya, V.	A fuzzy logic-based approach for the detection of flooded vegetation by means of Synthetic Aperture Radar data	München (LMU)	Ongoing	Ludwig, R. (1) Strunz, G. (2)
Wachter, P.	Untersuchung des Zusammenhangs räumlicher Temperaturmuster und atmosphärischer Zirkulation mit Fokus auf der Antarktischen Halbinsel	Augsburg	Ongoing	Jacobeit, J. (1) N.N. (2)
Wei, Chunzhu	Quantifying urban growth and urban agglomeration in multi-scale areas	Salzburg	Ongoing	Blaschke, T. (1) Taubenböck, H. (2)
Wohlfahrt, C.	Assessing land surface dynamics in the Yellow River Basin in China	Würzburg	Ongoing	Kuenzer, C. (1) Conrad, C. (2)
Xu, X.	Phenological Extraction for Agricultural Land-use Types Using Multi-scale Satellite Data and Crop Model	Würzburg	Ongoing	Conrad, C. (1) N.N. (2)
Knöfel, P.	Konzeption und Anpassung von fernerkundlichen Algorithmen zur Erfassung und Bewertung der Wassernutzungseffizienz in Baumwollökosystemen Zentralasiens	Würzburg	2016	Conrad, C. (1) Paeth, H. (2)
Metz, A.	An advanced system for the targeted classification of grassland types with multi-temporal SAR imagery	Osnabrück	2016	Ehlers, M. (1) Reinartz, P. (2)
Schmidt, C.	Entwicklung eines Infrarotspektrometers zur operationellen Beobachtung des OH-Luftleuchtens mit hoher zeitlicher Auflösung	Augsburg	2016	Bittner, M. (1) Horn, S. (2)
Forkour, G.	Mapping Landuse and Landuse Change Pathways in the Sudanian Savanna of West Africa.	Würzburg	2015	Conrad, C. (1) Paeth, H. (2)
Fourie, C.	Sample supervised approaches for geographic object-based image analysis	Jena	2015	Hese, S. (1) Schmullius, C. (2)
Geiß, C.	Seismic vulnerability assessment of built environments with remote sensing	Berlin	2015	Lakes, T. (1) Taubenböck, H. (2)
Kerr, G.	Quality Assessment For Hyperspectral Airborne Systems: From Data Up To Land-Products	Berlin	2015	Reulke, R. (1), Preusker, R. (2)

Name	Title	University	Year	Reviewers
Kramer, R.	Aktivitäts-und Energieanalyse von Wellen in der mittleren Atmosphäre zur Verbesserung der energetischen Einschätzung von Tiefdruckgebieten und deren Vorhersage	Augsburg	2015	Bittner, M. (1) Wixforth, A. (2)
<i>Ullmann, T.</i>	Characterization of Arctic Environment by Means of Polarimetric Synthetic Aperture Radar (PolSAR) Data and Digital Elevation Models (DEM)	Würzburg	2015	Baumhauer, R. (1) Dech, S. (2)
<i>Walz, Y.</i>	Remote sensing for disease risk profiling: a spatial analysis of schistosomiasis in West Africa	Würzburg	2015	Dech, S. (1) Utzinger, J. (2)
<i>Asam, S.</i>	Potential of high resolution remote sensing data for Leaf Area Index derivation using statistical and physical models	Würzburg	2014	Dech, S. (1) Kunstmann, H. (2)
Ehrler, C.	Scale-Wavelength Decomposition of Hyperspectral Signals - Use for mineral classification & quantification in a reflective-thermal study of a lignite mining site	Karlsruhe (KIT)	2014	Hinz, S. (1) Reinartz, P. (2)
Klüser, L.	Analysis of aerosol-cloud-interactions over semi-arid and arid subtropical land regions from three different satellite datasets (MODIS, AATSr/ENVISAT, IASI)	Augsburg	2014	Bittner, M. (1) Horn, S. (2)
Leinenkugel, P.	Land Cover Characteristics and Tree Cover Dynamics in the Mekong Basin. Analysing one decade of satellite data	Kiel	2014	Oppelt, N. (1) Kuenzer, C. (2)
<i>Löw, F.</i>	Agricultural crop mapping from multi-scale remote sensing data. Concepts and applications in heterogeneous Middle Asian agricultural landscapes	Würzburg	2014	<i>Conrad, C. (1)</i> <i>Michel, U. (2)</i>
Bayer, A.	Methodological Developments for Mapping Soil Constituents using Imaging Spectroscopy	Potsdam	2013	Kaufmann, H. (1) Dech, S. (2)
Dietz, A.	Ableitung von Schneeflächen und Schnee-Wasser-Äquivalent aus Zeitreihen von Fernerkundungsdaten in Zentralasien	Würzburg	2013	<i>Conrad, C. (1)</i> Dech, S. (2)
<i>Fritsch, S.</i>	Regional crop growth modeling and yield prediction by utilization of remote sensing and production efficiency models	Würzburg	2013	<i>Conrad, C. (1)</i> Paeth, H. (2)
Gerighausen, H.	Modellierung der Bodenerosion landwirtschaftlicher Ökosysteme mit Methoden der Fernerkundung	Bonn	2013	Menz, G. (1) Kaufmann, H. (2)
Niklaus, M.	Modellierung der vegetativen Produktivität zur Bewertung der Landdegradation im ariden und semi-ariden südlichen Afrika	Göttingen	2013	Kappas, M. (1) Günther, K. (2)

Name	Title	University	Year	Reviewers
Thiel, M.	Nutzung von Texturinformationen hochaufgelöster SAR-Daten zur Beschreibung von Siedlungsflächen	Jena	2013	Schmullius, C. (1) Conrad, C. (2)
Tran Thai, B.	The Knowledge-Based Search For Water-Related Information System for the Mekong Delta, Vietnam	Bonn	2013	Greve, K. (1) Menz, G. (2)
Vo Quoc, Tuan	Valuation of Mangrove Ecosystems along the Coast of the Mekong Delta in Vietnam - an approach combining socio-economic and remote sensing methods	Kiel	2013	Oppelt, N. (1) Kuenzer, C. (2)
Wurm, M.	Verknüpfung von Fernerkundungsdaten und Survey-Daten (SOEP und BASE-II) in städtischen Räumen für sozialwissenschaftliche Analysen	Graz	2013	Schardt, M. (1), Wagner, G. (2)

KIT: Karlsruher Institut für Technologie

Diploma/Master/Bachelor Theses

Diploma (D) / Magister (MA) / Master (M) / Bachelor (B) theses supervised or completed at DFD or Department of Remote Sensing at University of Würzburg (in *italic typeface*) since 2013

Name	Subject	University	Year	D/M/B
Bauer, A.	Soil Repository – Determination of Thresholds for the Detection of Active Soils from Landsat Time Series	Ebertswalde (HS)	Ongoing	M
Brandstätter, S.	Siedlungsstrukturelle Analyse von Slums in Kairo	Graz	Ongoing	M
Deck, R.	Potential of open geodata for large scale coastal land use and land cover mapping in Europe	Augsburg	Ongoing	M
Fetik, Y.	Tree Species Classification in the Bavarian Forest National Park using Hyperspectral Remote Sensing and Site Specific Information	Salzburg	Ongoing	M
Murawski, M.	Analyse von physischen Strukturen von Großwohnsiedlungen in Deutschland	Kiel	Ongoing	M
<i>Palacios Lopez, D.</i>	Mult-temporal analysis of VHR SAR data for the post-seismic building damage assessment of the Mw 6.0 earthquake in Italy	Stuttgart (HS)	Ongoing	M
<i>Schiller, C.</i>	Analyse und Anwendung von terrestrischen und satellitengestützten Umweltdaten in der Landwirtschaft	Potsdam	Ongoing	M
Thoma, M.	Active learning for seismic vulnerability assessment with remote sensing	Hagen	Ongoing	M
Winkler, K.	Assessment of agricultural drought over Africa and its relation to ENSO using remote sensing time series	Tübingen	Ongoing	M

Name	Subject	University	Year	D/M/B
<i>Baumann, M.</i>	Entwicklung der landwirtschaftlichen Nitratbelastung des bayerischen Mains vor dem Hintergrund der Europäischen Wasserrahmenrichtlinie	Würzburg	2016	B
Becker, C.	Global flood detection using Sentinel-2A-MSI by combining histogram-based and regional methods compared with an automated RandomForest approach	München (HS)	2016	M
Berndt, F.	Satellite-based shelter detection in the context of large scale events and refugee camps: Development and transferability of an object-based classification approach	Salzburg	2016	M
Bettinger, M.	Entwicklung einer Prozesskette zur automatischen Detektion von Brandflächen auf der Basis von Sentinel-2 Daten	München (TU)	2016	M
<i>Bolkart, M.</i>	Mapping and Monitoring Locust Habitats in the Aral Sea Region based on Satellite Earth Observation Data	Würzburg	2016	M
Dada, E.	Monitoring and Evaluating Temporal Changes of Cocoa Plantation in Ondo State, Nigeria with Remote Sensing Techniques	Stuttgart (HS)	2016	M
Deb, P.	Settlement Pattern Analysis of Germany based on Global Human Settlement Raster Data Sets	Stuttgart (HS)	2016	M
<i>Eger, D.</i>	Ernteabtragsabschätzung von Winterweizen mittels hochauflösender spektraler Daten	Würzburg	2016	B
Ferstl, J.	Klassifizierung und Kategorisierung von Regionen in Europa - Eine Analyse von Siedlungsmustern abgeleitet aus Erdbeobachtungsdaten des Global Urban Footprint	München (HS)	2016	B
Fix, M.	Signaturen von Infraschall im atmosphärischen Luftleuchten	Augsburg	2016	M
Fürmann, M.	Evaluation of High Temperature Event Detection Algorithms with the space-borne TET-1 Infrared Sensor	Stockholm	2016	M
<i>Griep, T.</i>	Charakterisierung von Einschlägen blindgegangener Fliegerbomben aus dem Zweiten Weltkrieg auf Grundlage historischer Luftbilder und verifizierter Bombenfunde des Bay. Innenministeriums zur Anwendung in der Kampfmittelvorerkundung	Würzburg	2016	B
<i>Groll, M.</i>	Verwendung eines PROSPECT Inversionsmodells zur Ableitung von Trockenmasse und Chlorophyllgehalt durch Spektrometermessungen auf Weizenfeldern	Würzburg	2016	B
Heckel, K.	Analysis of a long-term Time Series of 1 km NDVI Data derived from AVHRR over Europe and North Africa - Impact of Sensor Correction	Jena	2016	M

Name	Subject	University	Year	D/M/B
Heisig, J.	A multitemporal land cover classification of Bavaria from Landsat 8 satellite data	München (LMU)	2016	B
<i>Katz, E.</i>	Untersuchung der Volumenschwankungen des Sarykamyschsee mit Hilfe fernerkundlicher Methoden	Würzburg	2016	B
Kovatsch, M.	Earth Observation Based Monitoring of the Refugee Camp Yida in South Sudan and Its Impact on the Environment	München (TU)	2016	M
Küchelbacher, L.	Variabilität und Trends planetarer Wellen der mittleren Atmosphäre der Nordhalbkugel	Augsburg	2016	M
Kühnl, M.	Räumliche Strukturen informeller Besiedlung in Europa	Augsburg	2016	B
<i>Kuhn, J.</i>	Using very high resolution remote sensing imagery to assess crop diversity in the Fergana Valley, Uzbekistan	Würzburg	2016	M
<i>Lambrecht, L.</i>	Untersuchung und Besprechung der fernerkundlich erfassten Veränderung der Landnutzung in Nord-Ghana unter Berücksichtigung des Niederschlags	Würzburg	2016	B
<i>Löw, J.</i>	Analyse der Bodenfeuchteentwicklung in zentralasiatischen Bewässerungssystemen anhand von CCI Soil Moisture- Zeitserien	Würzburg	2016	B
Majhen, P.	Objektbasierte Klassifikation und physiognomischer Strukturvergleich der informellen Siedlungstypen in der Metropolregion Greater Cairo	Graz (TU)	2016	M
Müller, T.	Analysis of the spectral calibration of NOAA-AVHRR sensors and correcting its effects using hyperspectral data	Salzburg	2016	M
Offenwanger, T.	Räumliche Charakteristik atmosphärischer Wellen in OH*-Airglowdaten: Anwendung eines neuen Messverfahrens basierend auf IR-Spektrometern	Augsburg	2016	M
Pitz, N.	Quantitative Analyse der informellen Siedlungsstrukturen in Caracas, Venezuela	Gießen	2016	B
<i>Premier, J. B.</i>	The Lynx Effect: Behaviour of Roe Deer in the Presence of Lynx in a European Forest Ecosystem	Würzburg	2016	M
<i>Roersch, S.</i>	Urbane Entwicklung und Struktur im ländlichen Raum Usbekistans am Beispiel des Ferganatal	Würzburg	2016	B
<i>Sauerbrey, J. A.</i>	Volumenschwankungen von Stauwasserseen im Gebiet Khorezm, Usbekistan	Würzburg	2016	B
Schlegel, I.	Potentiale von Erdbeobachtungsdaten für die Ableitung von Vulnerabilitätsindikatoren im Delta des Gelben Flusses, China	Hamburg	2016	M

Name	Subject	University	Year	D/M/B
Schmöckel, J.	Analyse von Schwerewellen und ihren nicht-linearen resonanten Wechselwirkungen über den Alpen basierend auf TIMED-SABER Temperaturprofilen	Augsburg	2016	M
Schneider, T.	Earth observation (EO)-based identification of land use/ land cover changes related to large-scale land investments using the example of Lichinga, Niassa	Erlangen	2016	M
Schöler, C.	Moderne Webtechnologien und –standards als Basis für die Entwicklung eines Webportals für das Projekt IMPC	Neubrandenburg (HS)	2016	B
Schröter, E.	Innovative Visualisierungen von Kriseninformation auf Basis von Fernerkundungsdaten: UAS-gestützte Lagebilderfassung für zivile Sicherheitsanwendungen	Hamburg	2016	M
Schröther, T.	Untersuchung des Einflusses von Polarisierungseffekten bei der Beobachtung des Hydroxyl(OH*)-Leuchtens mit dem IR-Spektrometer GRIPS	Augsburg	2016	B
Schubert, H.	Vorhersagegüte räumlicher Texturmerkmale in der hochaufgelösten Landbedeckungsklassifikation mit Hilfe von maschinellen Lernverfahren	Jena	2016	B
<i>Schumann, B.</i>	Ermittlung der Baumkronendichte des Ober- und Unterstandes in heterogenen Wäldern mit Hilfe von multitemporalen LiDAR-Daten	Würzburg	2016	M
Schwalb-Willmann, J.	Comparison of different algorithms for calculating broadband albedo from AVHRR data	München (LMU)	2016	B
Schwarz, M.	Auswertung satellitenbasierter Langzeitreihen zur Stickstoffdioxidbelastung globaler Megacities	München (LMU)	2016	B
Sedlak, R.	Aufbau eines neuen Airglow Imagers zur Messung kleinskaliger dynamischer Strukturen in der mittleren Atmosphäre	Augsburg	2016	M
<i>Sostmann, H.</i>	Vergleich unterschiedlicher statistischer Verfahren zur Ableitung biophysikalischer Parameter aus RapidEye Daten	Würzburg	2016	B
<i>Stelzner, T.</i>	Einfluss der Wasserverfügbarkeit auf Dynamik der Nutzungsintensität landwirtschaftlicher Flächen in zentralasiatischen Bewässerungsgebieten	Würzburg	2016	B
Stephani, A.	Impact of remote sensing characteristics for biodiversity monitoring - A case study of Southern Myanmar mangroves	Bayreuth	2016	M
Tavri, A.	Flood monitoring based on multi-temporal Sentinel-1 data - a synergistic approach of amplitude data with interferometric coherence	München (TU)	2016	M

Name	Subject	University	Year	D/M/B
Ulloa Torrealba, Y.Z.	Land change in the Main catchment with an Object Based approach using eCognition	Bayreuth	2016	M
Üreyen, S.	Monitoring urban growth by means of multi-temporal time-series of optical Landsat data	Jena	2016	M
Asja, B.	Mind the Gap: A Global Analysis of Grassland Fragmentation using MODIS Land Cover Data	Bayreuth	2015	M
Baron von Freytag-Loringhoven, L.	Untersuchung der Abhängigkeit der Vegetationsvitalität von der Topographie auf landwirtschaftlich genutzten Flächen in Nordwest Benin unter Erstellung einer semiautomatisierten Prozesskette	Würzburg	2015	B
Bauer, P.	Räumliche Analyse der Megaregionen Chinas auf Basis von Daten des Global Urban Footprint	München (LMU)	2015	B
Bernd, A.	Global Grassland intactness analysis (working title)	Bayreuth	2015	M
Beroya-Eitner, M.	Flood Vulnerability Index for Delta Socio-Economical Systems: Application to the Mekong River Delta, Vietnam	Bayreuth	2015	M
Birkholz, R.	Multitemporale Analyse von Landbedeckungs-/ Landnutzungsänderungen entlang des Ili-Flusslaufs und deren Auswirkungen auf das Ökosystem des Flussdeltas	Jena	2015	M
Broszeit, A.	Assessing long-term inland water quality using satellite imagery: A feasibility and validation study of different lake types	Würzburg	2015	M
Bürgmann, T.	Investigating the Separability of Slums in Mumbai based on RADARSAT Images using Object-based Image Analysis Methods	Karlsruhe (HS)	2015	B
Fissmer, B.	Multitemporal analysis and statistical evaluation of Radar backscatter and bi-static coherence of flood affected areas	Bochum	2015	M
Fricke, J.	Slums in Rio de Janeiro. Spatial and temporal analyses of slums derived from remote sensing data based on visual image interpretation	Augsburg	2015	B
Friedl, P.	Ableitung glaziologischer Parameter aus ERS-SAR-Daten auf der Antarktischen Halbinsel	Erlangen	2015	M
Gebhardt, V.	Untersuchung eines möglichen Einflusses der Albedo auf die Mesopausenregion	München (LMU)	2015	B
Gnoyke, P.	Large Land Acquisitions in East Africa. An examination of spatial dynamics through remote sensing	Bayreuth	2015	M
Graf, W.	Suitability of LiDAR and texture measures of aerial distribution of <i>Glaucidium passerinum</i> (pygmy owl) in Vercors, French Alps	Bayreuth	2015	M

Name	Subject	University	Year	D/M/B
Henkel, F.	Automatische Erstellung von GDI-DE konformen Produktmetadaten im Kontext der Krisenkartierung	Salzburg	2015	M
Hess, A.	Deforestation in Myanmar-what can we say about causes?	Würzburg	2015	M
Hill, S.	Predicting the Forest Development after Natural Disturbance in the Bavarian Forest National Park using Airborne LiDAR	Würzburg	2015	M
Holzapfel, J.	Statistische Ableitung der Chlorophyllkonzentration auf Weizenfeldern des Kalibrations- und Validationstestfeldes DEMMIN mittels Fernerkundungsdaten und Feldmessungen	Würzburg	2015	B
Homolka, A.	Entwicklung einer standardisierten Schnittstelle zur funktionalen Erweiterung von WPS-Diensten (am Beispiel des GZS MODIS Feuerservices)	Jena	2015	M
Jung, S.	Variabilität der solaren Einstrahlung in 1-Minuten aufgelösten Strahlungszeitserien	Augsburg	2015	M
Kasten, A.	Entwicklung eines Verfahrens zur automatisierten Küstenlinienerkennung aus monospektralen Fernerkundungsbildern	Neubrandenburg (HS)	2015	M
Kazlova, A.	Adaptation of an algorithm based on the two dimensional Fast-Fourier-Transform (FFT) for the analysis of OH-airglow intensity measurements	München (LMU)	2015	M
Klink, A.	Kleinmaßstäbige Erfassung von Baumarten mittels multisensoraler Fernerkundungsdaten	Würzburg	2015	B
Loewert, C.	Analyse der Siedlungsentwicklung in der Stadt Dano in Südwest Burkina Faso in den Jahren 2009-2014	Würzburg	2015	B
Malec, S.	Assessment of Soil erosion parameters in Costa Rica using reflectance hyperspectral and simulated EnMAP imagery	Bayreuth	2015	M
März, F.	Untersuchung verschiedener Eisklassifizierungsverfahren mit TerraSAR-X am Beispiel vom Algonquin Nationalpark in Ontario, Kanada	München (LMU)	2015	B
Neiß, M.	Entwicklung eines Verfahrens zur Detektion von Flachdächern am Beispiel der Landeshauptstadt München Development of a detection process for platform roofs on the example of Munich	Augsburg	2015	M
Pausch, M.	Konzeption, Design und prototypische Entwicklung eines kartographischen, multimedialen Kriseninformationssysteme	München (HS)	2015	M
Pletziger, F.	Workflow zur Visualisierung von OpenStreetMap-Daten im Kontext Kriseninformationen	Bochum	2015	B

Name	Subject	University	Year	D/M/B
<i>Rossi, M.</i>	Statistische Analyse von Standortfaktoren zur Erklärung phänologischer Zeitpunkte am Beispiel von Grünlandflächen im Alpenvorland	Würzburg	2015	M
Schauß, A.	Joint Use of Remote Sensing and Volunteered Geographic Information for Exposure Estimation	Heidelberg	2015	M
Schlegel, I.	Potentiale von Erdbeobachtungsdaten für die Ableitung von Vulnerabilitätsindikatoren im Delta des Gelben Flusses, China	Hamburg	2015	M
Schneider, N.	Klassifikation von informellen Siedlungen am Beispiel Kapstadt - Eine Analyse auf der Grundlage von hochauflösenden Radar- und Zensusdaten	München (LMU)	2015	M
<i>Sieg, T.</i>	The potential of interferometric and polarimetric SAR data to characterize urban areas at the example of Mumbai and Manila	Bayreuth	2015	M
Singhammer, M.	Veränderungsanalyse der Siedlungsstruktur in der Nildeltaregion auf Grundlage von multitemporalen Satellitenbilddaten	München (HS)	2015	B
Sirueri, F.	Comparing spatial patterns of informal settlements between Nairobi and Dar es Salaam	Twente (NL)	2015	M
Sommer, C.	Feature based tree species classification using airborne hyperspectral and LiDAR data for the Bavarian Forest National Park	München (LMU)	2015	M
<i>Staab, J.</i>	Remote Sensing based evaluation of settlement development of Abuja City	Würzburg	2015	B
Standfuß, I.	Validation of the European Urban Atlas & Automatic Classification of Urban Structures utilizing Cartosat-1 nDSM Data	Bochum	2015	M
Utz, S.	Zeitliche Entwicklung von Siedlungsstrukturen in Nord- und Südkorea	München (HS)	2015	B
<i>Vollmuth, M.</i>	Zusammenhänge der Schneedynamik und des Abflussverhaltens im Einzugsgebiet des Naryn - Statistische Betrachtungen und physiogeographische Erklärungen	Würzburg	2015	M
<i>Wisböck, S.</i>	Explaining variation of home range size of red deer (<i>Cervus elaphus</i>) in the Bavarian Forest National Park using Lidar derived metrics on forest structure and fractional cover	Würzburg	2015	B
<i>Zellner, P.</i>	Towards quantifying stress factors in wheat and maize monitoring - a comparison of LAI derived using a mechanistic plant growth model and satellite measurements	Würzburg	2015	M

Name	Subject	University	Year	D/M/B
Zepp, S.	Entwicklung eines multi-skaligen Ansatzes zur Erfassung und Auswertung bergbaubedingter Veränderungen der Landoberfläche am Beispiel eines Altbaugebietes in Südafrika	München (LMU)	2015	M
Baron, D.	Analysis of MODIS time series data for characterization of hydrometeorological factors in relation to landslide activity in Southern Kyrgyzstan	Würzburg	2014	M
Böck, M.	Konzeption und Umsetzung von Webmapping-Applikationen zur Visualisierung krisenrelevanter Informationen	München (HS)	2014	B
Chow, C.	Evaluation of the applicability of a probabilistic terrain descriptor to improve the thematic accuracy of DLR's TerraSAR-X based Flood Service (TFS)	Dresden	2014	M
Dahms, T.	Phänologische Analysen basierend auf fusionierten Zeitserien aus RapidEye und Landsat Daten	Würzburg	2014	M
El Fouly, M.	Entwicklung einer Web Mapping Anwendung für einen fernerkundungsgestützten Feuer- und Wasserservice	München (TUM)	2014	M
Fabritius, H.	Optimierung eines auf Satellitendaten beruhenden Pflanzenwachstumsmodell am Beispiel von Winterweizen in Deutschland	Würzburg	2014	M
Färber, V.	Stadtstruktureller Vergleich von Slums in türkischen Großstädten unter Verwendung von Satellitendaten	Würzburg	2014	B
Flock, H.	„Lokale Energiewende“ - Fernerkundliche Veränderungsanalyse der agrarischen Landschaftsstruktur durch den Bau von Biogasanlagen in Süddeutschland	Würzburg	2014	D
Fürmann, M.	Evaluation von Methoden zur Erkennung von aktiven Feuern mit AVHRR	München (LMU)	2014	B
Gaub, V.	Untersuchung der Lebensräume in 3D: Wie ändert sich das Mikroklima unter verschiedenen Einzelbaumbedingungen im Nationalpark Bayerischer Wald	Würzburg	2014	D
Glas, S.	Analysis of the Relation between Spatial Cloud Patterns in Satellite Images and Variability as seen in High-Resolution Irradiance Time Series by means of their Daily Profile Categorization	München (HS)	2014	B
Hannawald, P.	Aufbau eines Infrarotkamarasystems zur Messung von atmosphärischen Schwerewellen und Infraschall im OH-Nachtleuchten	Augsburg	2014	M
Hartmann, M	Geoportale benutzerfreundlich gestalten: Design- und Usability-Empfehlungen für Geoportale unter Berücksichtigung unterschiedlicher Benutzergruppen	Pfungstadt (HS)	2014	M

Name	Subject	University	Year	D/M/B
Henning, L.	Early Recognition of Changes in the Health Status of Norway Spruce with Hyperspectral Data	Eberswalde	2014	M
Jilge, M.	Seismic Vulnerability Assessment of large Urban Areas using the TanDEM-X Mission and RapidEye Data	München (LMU)	2014	M
Küchelbacher, L.	Die Stratosphärenenerwärmungen 2012/2013: Einfluss der großräumigen Dynamik auf die Stratosphäre und Mesosphäre	Augsburg	2014	B
Kuner, J.	Abschätzung der kleinräumigen Bevölkerungsverteilung in der Megastadt Mumbai mit Methoden der Fernerkundung	Augsburg	2014	B
Kunze, M.	Entwicklung einer Webapplikation in Form eines Dashboards für das Deutsche Satellitendatenarchiv	Kempten (HS)	2014	B
<i>Landkammer, S.</i>	Statistische Ableitung von fPAR für Baumwolle in Zentralasien aus RapidEye-Daten	Würzburg	2014	B
Meister, L.-M.	Verwendung von Daten aus Social Media im Zusammenhang mit den Services des ZKI	Karlsruhe	2014	B
Naghadeh, N. M.	Large-scale characterization of human settlement patterns using binary settlement masks from globally available TerraSAR-X data.	Stuttgart	2014	M
Offenwanger, T.	Intercomparison/Validation mit Airglow-Temperaturdaten: Einflüsse des atmosphärischen Rauschens und dynamischer Prozesse	Augsburg	2014	B
<i>Ortmann, A.</i>	Estimating land cover changes and current carbon stock in Tanzania in the context of REDD+	Bayreuth	2014	M
Pausch, M.	Entwicklung einer Visualisierungstechnik für Hochgebirgsregionen auf Basis von WorldView-2- und TanDEM-X-Daten	München (HS)	2014	B
Poncet-Montages, A.	Classification of urban structural types (UST) using multiple data sources and spatial priors	Lausanne	2014	M
<i>Reger, A.</i>	Weizenmärkte in Zentralasien und im Kaukasus - Warenkette, Handel und Perspektiven	Würzburg	2014	B
Richter, D	Raumzeitliche Erfassung des Siedlungswachstums mittels Auswertung von Zeitserien multispektraler Erdbeobachtungsdaten	München (HS)	2014	D
Rieke, Ch.	Analyse und statistische Auswertung von multitemporalen Radardaten für die verbesserte Hochwasserdetektion	Jena	2014	B
Roch, M.	Revealing forest cover loss in Paraguay's Atlantic Forest region - A remote sensing and GIS based forest monitoring	Salzburg	2014	M
<i>Rudloff, M.</i>	Siedlungsflächenentwicklung im ländlichen Raum Usbekistans am Beispiel Khorezm	Würzburg	2014	M

Name	Subject	University	Year	D/M/B
<i>Rudolph, A.</i>	Modeling species distribution in Kenya influenced by environmental parameters using Random Forest algorithm	Würzburg	2014	B
Sander, D.	Aufbau eines automatischen Messsystems zur Erfassung und Auswertung des Wolkenbedeckungsgrades in der Antarktis	München (TUM)	2014	B
Schleicher, R.	Konzeption und Umsetzung einer Webmapping-Applikation zur Visualisierung raum-zeitlicher Veränderungen ausgewählter Ballungsräume	München (HS)	2014	M
<i>Serfas, K.</i>	Räumlicher Zusammenhang zwischen Schistosomiasisprävalenz und möglichen Krankheitsübertragungsstätten am Beispiel der Elfenbeinküste	Würzburg	2014	B
<i>Sokol, V.</i>	Interaction between white stork migration patterns and urban environment in Germany	Bayreuth	2014	M
Starmanns, S.	Spatial disaggregation of population data onto Urban Footprint data	Innsbruck	2014	M
Stolle, A.	Quantitativer Vergleich von Bildsegmentierungsverfahren als Grundlage für die semiautomatische Extrahierung von kleinräumigen Objekten im Kontext von Großveranstaltungen	Potsdam	2014	M
Tsyganskaya V	Ableitung und Analyse von großflächigen Informationen zur urbanen Struktur mit Methoden der Fernerkundung	München (LMU)	2014	M
Voinov, S.	Modeling population distribution based on EO-derived data on the built environment	Stuttgart (HfT)	2014	M
<i>Weigand, M.</i>	Discrimination of formal and informal settlements based on multipolarized TSX imagery in the Megacity Mumbai, India	Würzburg	2014	B
Wildegger, M.	Multi-Project Management in Research and Development of International Corporations	München (FOM)	2014	B
<i>Ziewers, K.</i>	Declining migratory avian species in the UK: a consequence of habitat quality alteration in western Africa? A case study using remote sensing data	Bayreuth	2014	M
<i>Alavi, S.</i>	Analyzing urban spatial patterns in conjunction with urban heat patterns	Bayreuth	2013	M
Aravena, P.	Estimation of seismic building structural types using remote sensing and machine learning	München (LMU)	2013	D
<i>Bell, A.</i>	Application of behavioral change point analysis and species distribution models in conservation	Bayreuth	2013	M

Name	Subject	University	Year	D/M/B
Bettinger, M.	Verbesserung eines automatischen MODIS-Hochwasserprozessors durch Methoden zur Trennung von Wasserflächen und Wolkenschatten	München (HS)	2013	B
<i>Binnig, J.</i>	Multitemporale Auswertung hyperspektraler Bilddaten zur Veränderungsanalyse ausgewählter Bodenparameter am Beispiel eines Braunkohlelagebaugebietes	Würzburg	2013	B
<i>Bolkart, M.</i>	Lidar-Daten und Waldstrukturmaße: eine sinnvolle Kombination?	Würzburg	2013	B
<i>Braun, D.</i>	Estimating the current and future human impact in Tanzania for wildlife corridor management	Bayreuth	2013	M
Broszeit, A.	Kartierung bergbaubedingter Versauerungsprozesse mit Hilfe von WorldView-2 Daten - Untersuchung am Beispiel einer Altbergbauregion in der Provinz Mpumalanga, Südafrika	München (LMU)	2013	B
<i>Camerer, A.</i>	Fernerkundungsbasierte Bestimmung der Landnutzung zur Verbesserung der Wasserproduktivität in Punjab, Pakistan	Würzburg	2013	D
Cao, W.	Change detection using TerraSAR-X data	Stuttgart	2013	D
<i>Dambros, C.</i>	Analyzing forest fragmentation characteristics along continuous vegetation gradients	Bayreuth	2013	M
<i>Fliehmann, E.</i>	Entwicklung der kasachischen Bewässerungsregion Kyzylorda – fernerkundliche Analyse der Degradierung landwirtschaftlicher Nutzflächen mittels Landsat-Zeitserien	Würzburg	2013	D
<i>Gnoyke, P.</i>	Analyzing landgrabbing in Africa using Remote Sensing Data	Bayreuth	2013	M
<i>Gouda, N.</i>	Auswirkungen des Klimawandels auf die Wasserversorgung im Mittelmeerraum - Risikoabschätzung, Vulnerabilitäten und Anpassungsstrategien	München (TU)	2013	D
Hanrieder, B.	Hochwasser in Thailand - Erstellung und Validierung von Flutmasken aus HR-/ VHR- Daten	München (TU)	2013	M
Harsch, C.	Modellierung der Spurengasemissionen von Punktquellen am Beispiel einer Mineralölraffinerie	Augsburg	2013	D
Hartmann, A.	Subpixelbasierte Landnutzungs- und Landbedeckungsklassifikation in Westafrika mit MODIS-Daten	München (LMU)	2013	M
Hoffmann, A.	Risiko- und Unsicherheitsanalyse hydrologischer Gefahren im Mittelmeerraum	München (LMU)	2013	D
Huster, L.	Analyse der regionalen und globalen Belastung mit troposphärischem Stickstoffdioxid anhand von Satellitendaten des GOME-2 Instruments	Augsburg	2013	B

Name	Subject	University	Year	D/M/B
Hütten, L.	GIS- und fernerkundungsbasierter Aufbau sowie Konzeption einer Geodatenbank als Grundlage für die Risikobewertung des Auftretens von Buruli Ulcer in Zentralkamerun	Osnabrück	2013	M
<i>Kachelriess, D.</i>	Analysis of the effectivity of Marin Protected Areas – a case study using Remote Sensing for the Cargos Archipelago	Bayreuth	2013	M
Konetschny, C.	Beobachtung der Landoberflächenveränderung durch das Auftauen des Permafrostbodens auf Herschel Island mit Hilfe von verschiedenen Radarzeitreihen des TerraSAR-X	München (LMU)	2013	B
Lesko, L.	Vergleich der räumlichen Entwicklung von Siedlungsmustern in ost- und westeuropäischen Städten basierend auf multitemporalen Fernerkundungsdaten	Eberswalde (FH)	2013	D
Mancera Guevara, D.	Generation of a CALIPSO climatology of near-surface boundary layer aerosols for solar energy application	Oldenburg	2013	M
<i>Petersen, M.</i>	Einfluss von Umweltparametern auf Käferpopulationen im Nationalpark Bayerischer Wald – Ein Ansatz mit LiDAR	Würzburg	2013	B
<i>Plum, C.</i>	Global Survey of Earth Observation for Biodiversity and Conservation	Bayreuth	2013	M
Reichmuth, A.	Detection of Forest Parameters using Imaging Spectroscopy	Dresden (HS)	2013	M
Schack, J.	Ableitung von Signalen laufender planetarer Wellen aus dem Dynamischen Aktivitätenindex (DAI) und Vergleich der mesosphärischen Aktivität planetarer Wellen	München (HS)	2013	B
Schulz, J.	Untersuchung zur Vergleichbarkeit von Luftmessstationen und Modellprognosen am Beispiel der Schwarzwaldregion	Augsburg	2013	B
<i>Schumann, B.</i>	Raum-zeitliche Charakterisierung von Borkenkäferbefallen mit Hilfe von Zeitreihen mittel- und hochaufgelöster Fernerkundungsdaten	Würzburg	2013	B
<i>Von Uslar, J.</i>	Statistische Ableitung des LAI für Wälder im bayrischen Voralpenraum basierend auf RapidEye-Daten und Feldmessungen	Würzburg	2013	B
Warth, G.	Automatische Hochwassererkennung anhand der Verwendung bistatischer Kohärenzdaten der TanDEM-X Mission	Tübingen	2013	MA
Wegner, M.	Evaluierung des Deutschen Satellitendatenarchivs auf Nachhaltigkeit und Effizienz	München (HS)	2013	M
<i>Wohlfart, C.</i>	Mapping tropical dry forest in South East Asia using a continuous cover approach	Bayreuth	2013	M

Scientific Activities 2013-2016 (as of 20.03.2017) > Academic Degrees

Name	Subject	University	Year	D/M/B
Zellner, P.	Optimierung regionaldifferenzierter Landnutzungsparameter für das hydrologische Modell ArcEGMO am Beispiel zweier Einzugsgebiete in Brandenburg	Würzburg	2013	B
Zepp, S.	Untersuchung der Variation der Mesopausentemperatur im Hinblick auf durch Erdbeben erzeugte Infraschallwellen	München (LMU)	2013	B

HS: Hochschule
 LMU: Ludwig-Maximilians-Universität München
 TU: Technische Universität
 FOM: Hochschule für Ökonomie und Management

Scientific Exchange

Guest Scientists

Visiting scientists hosted by DFD since 2013 (≥ 4 weeks stay) or by Department of Remote Sensing at University of Würzburg (in *italic typeface*)

Name	Period		Home Institution	Funding
<i>Ayanu, Y.</i>	Aug	2013	Universität Bayreuth	Universität Bayreuth
<i>Baatuuwie, B.</i>	Jul	2014	Kwame Nkrumah University of Science and Technology (KNUST), Kumasi, Ghana	WASCAL
Banks, S.	Oct – Mar	2012 2013	Carleton University, Ottawa, Canada	DLR
<i>Batsaikhan, A.</i>	Jan – Dec	2016 2018	Universität Würzburg	MICMoR-Stipendium
<i>Benewindé Zoungrana, J-B.</i>	Mar – May	2015	KNUST, Kumasi (Ghana)	WASCAL
<i>Benewindé Zoungrana, J-B.</i>	Sep – Dec	2016	KNUST, Kumasi (Ghana)	Uni-Wü Stipendium
Cian F.	Jan – Apr	2015	University Ca' Foscari Venice Department of Economics Italy	University Ca' Foscari Venice
Cipriano, A.	May – Jun	2013	Universidad Católica de Chile, Santiago, Chile	DAAD
Confuerto, P.	Oct – May	2014 2015	University Naples, Naples, Italy	University Neapel
Da Cunda Fernandes L.	Jul – Aug	2015	University of Alberta, Edmonton, Canada	University Alberta
<i>Danumah, J. H.</i>	Dec – Jan Apr – May	2014 2015 2015	KNUST, Kumasi (Ghana)	WASCAL
<i>Degen, A.</i>	Oct – May	2015 2016	Universität Bochum	WASCAL
<i>Degtyareva, O.</i>	Nov – Dec	2016	Abu Nasr al-Farabi Al-Farabi Kazakh National University, Kazakhstan	LaVaCCA, VW-Stiftung

Scientific Activities 2013-2016 (as of 20.03.2017) > Scientific Exchange

Name	Period	Home Institution	Funding
Di, X.	Sep 2016 – May 2017	Shanghai Normal University, China	Shanghai Normal University
Du, X.	Sep 2016 – Okt 2018	Institute of Remote Sensing and Digital Earth, Beijing, China	DAAD-CSC
Dunker, T.	Mar – Apr 2015	University of Tromsø, Norway	Research Council of Norway
Ferraz, F.	Sep – Oct 2013 Mar – Apr 2014	Fado Consulting, South Africa	DAAD
<i>Forkuor, G.</i>	Sep 2011 – Jun 2014	Universität Würzburg	Stipendium im WASCAL Projekt
Georg, I.	Jan 2015 – Dec 2016	University Salzburg	None
Gudadze, N.	Feb – May 2015	E. Kharadze Abastumani Astrophysical Observatory at Ilia State University, Tbilisi, Georgia	Lelp Shota Rustaveli National Science Foundation, Tbilisi, Georgia
Hideomi, G.	Sep 2012 – Mar 2013	Tohoku University, Sendai, Japan	Japan Society for the Promotion of Science (JSPS)
Hu, Z.	Oct 2016 – Oct 2019	keine (vorher Uni Trier)	CSC
Irwin, K.	Oct – Nov 2016	Queen's University, Kingston, Canada	Queen's University
<i>Jafarijzani, H.</i>	Mar – Sep 2015	Universität Stuttgart	Self-financing
<i>Kenjabaev, S</i>	Nov – Dec 2015	SIC ICWC Tashkent, Uzbekistan	CAWa
<i>Khare, S.</i>	Sep – Nov 2015	Indian Insitute of Technology (IIT) Roorkee, Indien	Scholarship from India
<i>Khare, S.</i>	Jun – Jul 2016	Indian Insitute of Technology (IIT) Roorkee, Indien	DAAD
Kleissl J.	Sep – Dec 2015	University of California, San Diego, USA	University San Diego
Kumar, P. A.	Jul – Sep 2016 Oct - 2017	Indian Institute of Space Science and Technology, India	BMBF Green Talent Humboldt Climate Protection Fellowships

Name	Period	Home Institution	Funding
Liuzzi, M.	Sep 2016 – Sep 2017	University of Basilicata, Italy	University of Basilicata, Italy
Mahmoud, M. I.	Dec 2014 – Jun 2015	KNUST, Kumasi (Ghana)	WASCAL
Naghavi, H.	Aug – Feb 2013	Dept. of Forestry, Sari Agricultural and Natural Resources University, Mazandaran, Iran	University Mazandaran, Iran
Salehi, S.	Oct – Dec 2015	Geological Survey of Denmark and Greenland (GEUS) / Copenhagen University	GEUS
Shankar, S.	May – Jun 2015	Anna University Chennai	DAAD
Shi, L.	Sep 2016 – Sep 2017	Institute of Remote Sensing and Digital Earth, Beijing, China	National Science Foundation of China
Song, Z.	Nov 2013 – Nov 2014	China University of Mining and Technology, Beijing, China	National Science Foundation of China
Stettner, S.	Feb – Mar 2015	Alfred Wegener Institute	AWI
Strano, E.	Jun – Jul 2013	Geographic Information Systems Laboratory, Lausanne, Switzerland	Geographic Information Systems Laboratory, Lausanne, Switzerland
Strano E.	Dec 2016 – Nov 2017	Massachusetts Institute of Technology (MIT), Boston, USA	Swiss National Science Foundation
Sultanov, M.	Oct – Dec 2015 Oct – Dec 2016	Khorezm Rural Advisory Support Service (KRASS), Urgench, Uzbekistan	LaVaCCA, VW-Stiftung
Sun, Z.	Jun – Dec 2013	Institute of Remote Sensing and Digital Earth, Beijing, China	DAAD
Toshpulatov, R.	Apr – May 2016	Scientific-Information Center of the Interstate Coordination Water Commission of the Central Asia (SIC ICWC), Tashkent, Uzbekistan	CAWa, Auswärtiges Amt
Tsyganskaya, V.	Jan 2015 – Dec 2016	LMU München	LMU München
Yang, B.	Jun – Sep 2013	Hunan Normal University, Hunan, China	DAAD
Xu, D.	Okt 2016 – Sep 2017	Shanghai Normal University	SNU Stipendium

Scientific Activities 2013-2016 (as of 20.03.2017) > Scientific Exchange

Name	Period	Home Institution	Funding
<i>Zaitov, S.</i>	Apr – Jun 2016	Scientific-Information Center of the Interstate Coordination Water Commission of the Central Asia (SIC ICWC), Tashkent, Uzbekistan	CAWa, Auswärtiges Amt

Professional Leaves

Periods of stay by DFD staff at external institutions since 2013 (≥ 4 weeks)

Staff Member	Institution	Period	Funding
Killius, N.	Mines Paristech, Department Observations, Impacts, Énergie (OIE), Sophia-Antipolis, France	Oct – Dec 2015	ESA
Molch, K.	European Space Agency, European Space Research Institute (ESA-ESRIN), Italy	Sep 2014 – Jan 2015	DLR, ESA
Riedlinger, T.	European Commission GMES Office, Seconded National Expert, Belgium	Jun 2011 – Aug 2013	DLR
Roth, A.	Environment Canada, Canada	Jul – Oct 2013	DLR
Schöckel, T.	Indonesian Agency for Meteorology, Climatology and Geophysics (BMKG) Jakarta, Indonesia	Oct 2010 – Mar 2014	BMZ-CIM

Conferences

Major conferences, colloquia and workshops (co-)organized by DFD and Department of Remote Sensing at University of Würzburg since 2013 (> 40 participants)

Date	Event	Location	Participants
17 – 20 Oct 2016	TerraSAR-X/TanDEM-X Science Team Meeting	Oberpfaffenhofen	ca. 200
22 – 24 Sep 2016	AEROSAT workshop 2016	Beijing	ca. 100
15 – 17 Jun 2016	Storagetechnology 2016	Rostock	ca. 90
30 May -3 Jun 2016	1. Nationaler Binnengewässerworkshop	Neustrelitz	ca. 50
6 Nov 2015	7th MICMoR Research Forum	Wuerzburg	ca. 50
4 – 5 Nov 2015	National Copernicus Workshop	Berlin	ca. 300
19 – 23 Oct 2015	International Ice Charting Working Group (IICWG)	Rostock/ Neustrelitz	ca. 75
8 – 9 Oct 2015	3rd workshop of the International Satellite Aerosol Science Network AEROSAT	Frascati, Italy	ca. 75
17 – 19 Jun 2015	7. SAM-QFS Nutzerkonferenz 2015	Göhren-Lebbin	ca. 100
11 – 15 May 2015	36 th International Symposium on Remote Sensing of Environment (ISRSE)	Berlin	ca. 750
11 – 13 May 2015	4. Nationaler Weltraumwetterworkshop	Neustrelitz,	ca. 50
16 – 20 Mar 2015	ZKI Presentation / Exhibitor CeBIT exhibition (Messe)	Hannover	
16 – 19 Mar 2015	RSCY2015 – Third International Conference on Remote Sensing and Geo-Information of the Environment	Paphos, Zypern	ca. 100
18 Nov 2014	Maritime Sicherheit in MV, Workshop 3 – Bedarfe für die Verbundforschung	Neustrelitz	ca. 40
11 – 13 Jun 2014	Storagetechnology 2014	Göhren-Lebbin	ca. 75
22 – 23 May 2014	Remote Sensing for Biodiversity and Conservation	London	ca. 200
19 – 22 May 2014	6. Network for the Detection of Mesospheric Change (NDMC) Meeting	Grainau	ca. 40
10 Apr 2014	Nationales Forum für Fernerkundung und Copernicus	Neustrelitz	ca. 40
05 – 08 Sep 2013	Statistics in Ecology and Environment – Session der GfÖ-Tagung	Hildesheim	ca.50

Date	Event	Location	Participants
10 – 12 Jun 2013	5th TerraSAR-X Science Team Meeting	Oberpfaffenhofen (DLR)	ca. 200
05 – 07 Jun 2013	6th SAM-FS/QFS Nutzerkonferenz	Klink	ca. 50
04 – 06 Jun 2013	3. Fachtagung Energiemeteorologie	Grainau	ca. 40
20 – 21 Mar 2013	5th RESA – Workshop „RESA – Data for Science – From the Basics to the Service“	Neustrelitz (DLR)	ca. 75
05 – 07 Mar 2013	Mekong Environmental Symposium 2013	Ho Chi Minh, Vietnam	ca. 400
09 – 11 Dec 2013	Geological Remote Sensing Group of the Geological Society (UK) – Annual General Meeting	Berlin	ca. 120

Key Note Speeches at Major Conferences

Key note speeches at major conferences conducted by DFD staff since 2013 (speeches of Department of Remote Sensing staff from University of Würzburg in *italic typeface*)

Lecturer	Title	Event	Location	Date
Bittner, M.	Recent progress in the remote sensing of atmospheric waves and coupling processes	COSPAR	Istanbul, Turkey	Aug 2016
Dech, S.	Entwicklung der Erdbeobachtung aus Sicht der Wissenschaft	5. INNOspace Workshop	Augsburg	Oct 2016
Klein, D.	Challenges of Earth Observation for Global Change Monitoring	EARSEL Symposium	Bonn	Jun 2016
Heiden, U.	Using spectral libraries for imaging spectroscopy analyses – the urban example	ISSI WORKSHOP	Bern, Switzerland	Nov 2016
<i>Latifi, H.</i>	Remote sensing - assisted mapping of bark beetle-induced tree mortality	ForBioSens 2016	Bialowieza, Poland	Nov 2016
Rogge, D.	From proximal to satellite geological spectral sensing, a perspective for resource exploration	ISSI WORKSHOP	Bern, Switzerland	Nov 2016
Schwarz, E.	Near Real Time Applications for Maritime Situational Awareness	Workshop on Solutions for Maritime Situational Awareness	Helsinki, Finland	Feb 2016

Scientific Activities 2013-2016 (as of 20.03.2017) > Conferences

Lecturer	Title	Event	Location	Date
Spengler, D.	Durable Environmental Multidisciplinary Monitoring Information Network DEMMIN - Agricultural Research at the TERENO German Northeastern Lowlands Observatory.	BELAIR Workshop 2016	Bruges, Belgium	Nov 2016
Taubenböck, H.	Die globale Transformation der Städte – Monitoring mit Methoden der Fernerkundung	Bundeskongress des Verbands beratender Ingenieure	Leipzig	Nov 2016
Taubenböck, H.	Cities from Space: Monitoring the Global Proces of Urbanization	SPADE conference	Berlin	Apr 2016
Wurm, M.	Cities from Space – Analysis and monitoring of physical urbanization processes	Symposium on Peaceful Use of Space Technologies	Muskat, Oman	Oct 2016
Dech, S.	Was leistet die Raumfahrt für die Energiewende? Einige Möglichkeiten der Erdbeobachtung	Acatech	Bonn-Oberkassel	Feb 2015
Dech, S.	Anthropozän – Fernerkundung eines Planeten im Wandel	8. Forschungstag Raumfahrt	Köln	Mar 2015
Dech, S.	Möglichkeiten satellitengestützter Erdbeobachtung	Arbeitsgruppe Außenpolitik der SPD-Bundestagsfraktion	Berlin	May 2015
Dech, S.	Globale Herausforderungen	Parlamentarische Gesellschaft	Berlin	Dec 2015
Erbertseder, T.	Nutzungspotentiale der Satellitenfernerkundung für umweltmeteorologische Anwendungen	Deutsche Fachtagung für Umweltmeteorologie	Offenbach	Mar 2015
Kuenzer, C.	The Potential of Time Series Based Earth Observation for the Monitoring of Large River Deltas	American Geophysical Union, AGU Fall Meeting	San Francisco, USA	Dec 2015
Popp, T.	ESA's Aerosol_cci project	AEROCOM annual assembly	Frascati, Italy	Oct 2015
Schreier, G.	Copernicus – The European Earth Observation System	3 rd International Conference on Remote Sensing and Geoinformation of Environment (RSCy2015)	Paphos, Cyprus	Mar 2015
Schreier, G.	Europäisches Umweltbeobachtungsprogramm "Copernicus"	15 Raumfahrttage der Deutschen Raumfahrtausstellung	Morgenröthe Rautenkranz	Jun 2015

Lecturer	Title	Event	Location	Date
Schreier, G.	Das Copernicus-Programm, politische Hintergründe, vorgesehene Dienste	Jahrestagung der Deutschen Geodätischen Kommission (DGK)	München	Nov 2015
Strunz, G.	The Sendai Framework for Disaster Risk Reduction – Opportunities for Earth Observation	United Nations / Germany International Conference on Earth Observation	Bonn	May 2015
Strunz, G.	Fernerkundung für das Krisenmanagement und die zivile Sicherheit – Aktuelle Forschungs- und Entwicklungsarbeiten	Nationales Forum für Fernerkundung und Copernicus 2015	Berlin	Nov. 2015
Dech, S.	Fernerkundung für eine Welt im Wandel	Nationales Forum für Fernerkundung und Copernicus	Berlin	Apr 2014
Erbertseder, T.	Developments in Regional and Local Air Quality Monitoring and Forecasting	International Air Quality Conference	Garmisch-Partenkirchen	Mar 2014
Erbertseder, T.	The Role of Earth Observation in Urban Air Quality Monitoring and Forecasting	Mediterranean City 2014	Athens, Greece	Jun 2014
Strunz, G.	Beiträge der Erdbeobachtung zum internationalen Katastrophenmanagement	Deutsche Gesellschaft für Auswärtige Politik	Berlin	Jan 2014
Taubenböck, H.	'Quo Vadis' urban remote sensing?	Joint Urban Remote Sensing Conference	Sao Paulo, Brazil	Apr 2013

Patents

Filed Patent Applications

Name	Patent	Patent No	Year	Countries
Borg, E., Paproth, C., Börner, A., Bachmann, M., Dietrich, P., Köpke, H.	Kalibrierung eines Fernerkundungssensors zur Fernerkundung einer Planetenoberfläche (Calibration of remote sensing sensor for sensing of planetary surfaces)	DE 10 2013 217 535 A1	2015	DE
Vajen, H.-H.	Erstellen von Karten mit Küstenlinien	DE 10 2014 205 083	2015	DE
Vajen, H.-H.	Device and method for the processing of remote sensing data	US 00 0009 224 192	2015	US

DE = Germany, AT = Austria, AU = Australia, BR = Brazil, CA = Canada, CH = Switzerland,
ES = Spain, EP = European Patent Organization, FR = France, GB = United Kingdom,
IT = Italy, NL = The Netherlands, RU = Russia SE = Sweden, US = USA

Granted Patents

Name	Patent	Patent No.	Year	Countries
Klähn, D., Stankov, S., Borg, E., Jakowski, N.	Ermittlung eines Atmosphärenzustandes	1643263	2016	DE, BE, NL, FR
Post, J. Zoßeder, K. Wegscheider, S. Mück, M. Raape, U. Kiefl, R.	System und Verfahren zum Segmentieren einer Zielregion in räumliche Warneinheiten eines sensorgestützten Frühwarnsystems	DE 10 2009 056777	2014	DE
Raape, U. Hunold, M. Tessmann, S. Friedemann, M.	Verfahren und Vorrichtung zur Visualisierung von räumlich verteilten Informationen in einem Frühwarnsystem	DE 10 2010 011186	2014	DE

For country abbreviations see footnote to previous table of Filed Patent Applications

Awards

Awards granted to DFD and Department of Remote Sensing at University of Würzburg staff (in *italic typeface*) since 2013

Year	Award	Laureate	Subject
2017	gregor international calendar award 2017, 3. Preis	Sparwasser, N.	DLR-Kalender "Anthropozän"
2016	Otto-Lilienthal-Forschungssemester 2016	Taubenböck, H.	"Fernerkundung zur interdisziplinären Analyse globaler Urbanisierung"
2015	Helmut-Rott-Preis 2015	Dietz, A.	"Central Asian Snow Cover Characteristics between 1986 and 2012 derived from Time Series of Medium Resolution Remote Sensing Data"
2015	International Green Roof Leadership Award – Green Roof Pioneers	Esch, T. Zeidler, J.	"Remote Sensing-based Inventory of Green Roofs and Assessment of Green Roof Potential"
2015	Best Paper Award ICCSA	Fichtelmann, B. Borg, E.	"A new approach of geo-rectification for time series satellite data based on a graph-network"
2015	Helmholtz Postdoktoranden Programm	Geiß, C.	"Earthquake Damage Estimation"
2015	3. Platz, AGEO-Award (Österreichischer Dachverband für Geographische Informationen)	Jilge, M.	"Seismic Vulnerability Assessment of large Urban Areas using the TanDEM-X Mission and RapidEye Data"
2015	Remote Sensing Best Review Paper Award 2015	Kuenzer, C. Blümel, A. Gebhardt, S. Vo Quoc, T. Dech, S.	"Remote Sensing of Mangrove Ecosystems: A Review"
2015	TIEMS 2015 Best Practitioner Paper Award	Raape, U.	"Integrated Open Service Platform for Enhanced Risk and Emergency Management: the PHAROS Solution"
2014	Forschungspreis der Geographischen Gesellschaft Würzburg	Löw, F.	Beste Dissertation am Institut für Geographie und Geologie der Universität Würzburg
2014	Sustainability Science Best Paper Award	Kuenzer, C. Campbell, I. Roch, M. Leinenkugel, P. Vo Quoc, T. Dech, S.	"Understanding the impact of hydropower developments in the context of upstream–downstream relations in the Mekong river basin"

Year	Award	Laureate	Subject
2014	NDMC Young Scientist Award	Schmidt, C.	"Abschätzung der vertikalen Wellenlänge von atmosphärischen Schwerewellen aus Messungen bodengebundener GRIPS-Infrarotspektrometer"
2014	NDMC Young Scientist Award	Wüst, S.	"Abschätzung der potentiellen Energiedichte von atmosphärischen Schwerewellen aus Messungen des atmosphärischen Luftleuchtens (Airglow) mit dem bodengebundenen Infrarotspektrometer GRIPS"
2013	2. Platz "Best Student Paper Award", 7th International Workshop on the Analysis of Multi-temporal Remote Sensing Images (25 – 27 June), Banff, Canada	Asam, S.	"Comparison of Leaf Area Indices for Alpine grasslands based on multi-scale satellite data time series and radiation transfer modeling"
2013	"Wiesnet Medal", 70th Eastern Snow Conference (4 – 6 June 2013), Huntsville, Canada	Dietz, A.	"Changes of Snow Cover Characteristics in Central Asia between 1986 and 2012 derived from AVHRR and MODIS time series"

Memberships

Memberships in Space Mission and Earth Observation related Boards/Committees

Memberships in Space Mission and Earth Observation related Boards of DFD and Department of Remote Sensing at University of Würzburg staff (in *italic typeface*) since 2013

Member	Agency	Board	2013	2014	2015	2016
Bittner, M.	ICSU	World Data System	■	■	■	■
Bittner, M.	UFZ	Sprecher Science Board	■	■	■	■
Borg, E.	HGF	Tereno Steering Committee	■	■	■	■
<i>Conrad, C.</i>	DGfG	Arbeitskreis Fernerkundung	■	■	■	■
<i>Conrad, C.</i>		Umweltcluster Bayern				■
Dech, S.	UFZ	Mitglied Konsortialrat	■	■	■	■
Dech, S.	EURAC	Mitglied Evaluierungsboard	■	■	■	■
Dech, S.	ZEF	Senior Fellow	■	■	■	■
Erbertseder, T.	ESA	Sentinel-4/5-Mission Advisory Group	■			
Fischer, C.	GEOSS	C2 Impact Monitoring System for Geo-Resource Exploration and Exploitation	■	■	■	
Fischer, C.	GEOSS	CA-06 EO Data and Mineral Resources				■
Gähler, M.	ESA	Copernicus Sentinel-3 Mission Advisory Board	■			
Heiden, U.	BeSPO	Steering Committee Member of the URBANEARS Project			■	■
Heiden, U.	GRSS TC	Geoscience Spaceborne Imaging Spectroscopy Technical Committee	■	■	■	■
Kiemle, S.	ESA	Heterogeneous Missions Accessibility (HMA)	■	■	■	■
Kuenzer, C	IJRS	Associate Editor of the International Journal of Remote Sensing	■	■	■	■
Kuenzer, C	RS	Editorial Board member of the journal Remote Sensing	■	■	■	■

Scientific Activities 2013-2016 (as of 20.03.2017) > Memberships

Member	Agency	Board	2013	2014	2015	2016
Kuenzer, C.	CAS	International Expert Advisory Board of the Institute RADI-CAS	■	■	■	■
Kuenzer, C.	EARSeL	Chair: Special Interest Group Thermal Remote Sensing (jointly w. C. Hecker)	■	■	■	■
Kuenzer, C.	SSC FEC	Member of Scientific Steering Committee "Future Earth Coasts"	■	■	■	■
Kuenzer, C.	GEO	German representative of Group "Data Validation of Global Land Cover Datasets"			■	■
Kuenzer, C.	ISDE	Elected Council Member of the "International Society for Digital Earth"				■
Latifi, H.	DLR	Data Pool Initiative for Bohemian Forest Ecosystem		■	■	■
Latifi, H.	IBS	Deutsche Region der IBS, Leiter der AG "Ökologie und Umwelt"	■	■	■	■
Mikusch, E.	ESA	Long Term Data Preservation (LTDP)	■	■	■	■
Mikusch, E.	ESA	Sentinel-5p Ground Segment Acceptance Review Board				■
Molch, K.	ESA	Long Term Data Preservation (LTDP)	■	■	■	■
Molch, K.	GEO/GEOS S	D-GEO Arbeitsgruppe	■	■	■	■
Molch, K.	IMAGI	Zentrale Arbeitsgruppe des IMAGI	■	■	■	■
Popp, T.	WMO	Science Advisory for Group Aerosols	■	■	■	■
Riedlinger, T.	ESA	Sentinel-3 Mission Advisory Group	■	■		
Roth, A.	WMO	Polar Space Task Group, SAR Working Group	■	■	■	■
Roth, A.	DLR	TerraSAR-XTanDEM-X Mission Board	■	■	■	■
Schreier, G.	ISPRS	Chairman ISPRS International Policy Advisory Committee (IPAC)	■	■	■	■
Schreier, G.	ESA	Ground Segment Coordination Body	■	■	■	■
Schreier, G.	IAF	Chairman IAF Earth Observation Committee			■	■

Member	Agency	Board	2013	2014	2015	2016
Schroedter-Homscheidt, M.	GEOSS	Energy Community of Practice	■	■	■	■
Taubenböck, H.	BMBF	Nationale Plattform Zukunftsstadt	■	■	■	
Wegmann, M.	CEOS	CEOS Biodiversity activity	■	■	■	■
Wegmann, M.	GEO	GEO BON Implementation Committee	■	■	■	■

BMBF: Bundesministerium für Bildung und Forschung
 CAS: Chinese Academy of Science
 CEOS: Committee on Earth Observation Satellites
 DGfG: Deutsche Gesellschaft für Geographie
 EARSeL: European Association of Remote Sensing Laboratories
 ESA: European Space Agency
 GEO: Group on Earth Observation
 GEOSS: Global Earth Observation System of Systems
 IAF: International Astronautical Federation
 IBS: Internationale Biometrische Gesellschaft
 ICSU: International Council for Science
 ISPRS: International Society for Photogrammetry and Remote Sensing
 WMO: World Meteorological Organization

Memberships in Journal Editorial Boards

Editorial Memberships of DFD and Department of Remote Sensing at University of Würzburg staff (in *italic typeface*) since 2013

Member	Journal / Book / Series	Publisher	2013	2014	2015	2016
Bittner, M.	The Open Atmospheric Science Journal (TOASJ)	Bentham Open	■	■	■	
Bittner, M.	Journal on Atmospheric Measurement Techniques (AMT)	Copernicus	■	■	■	
<i>Conrad, C.</i>	Photogrammetrie, Fernerkundung, Geoinformation (PFG)	Schweizerbart Science Publishers			■	■
Heiden, U.	IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing (JSTARS)	IEEE			■	■
Henniger, H.	Radioengineering Journal	Brno University of Technology	■	■	■	
Kuenzer, C.	International Journal of Remote Sensing, IJRS	Taylor & Francis	■	■	■	■
Kuenzer, C.	Remote Sensing	MDPI		■	■	■
<i>Latifi, H.</i>	Special Issue of Photogrammetrie, Fernerkundung, Geoinformation (PFG)	Schweizerbart Science Publishers				■
Schroedter-Homscheidt, M.	Meteorologische Zeitschrift (METZET)	Schweizerbart Science Publishers	■	■	■	■
<i>Wegmann, M.</i>	Remote Sensing in Ecology and Conservation	Wiley			■	■

EGU: European Geosciences Union
 IEEE: Institute of Electrical and Electronics Engineers
 MDPI: Multidisciplinary Digital Publishing Institute

Publications

This chapter lists in reverse chronological order for the time period between January 1, 2013 and December 31, 2016.

- publications in ISI and SCOPUS journals,
- other publications with full paper review,
- books and book contributions,
- other publications (> 1 page).

Internal reports as well as doctoral, diploma, Master and Bachelor theses are **not** listed.

DFD authors appear in **bold** typeface, employees of the LS_FE are **in bold and italic** typeface.

For identification purposes citations include the ELIB reference number (“€...€”, “€LMF€”).

Publications in ISI or Scopus Journals 2016

- [1] Ahmadian, N., Demattê, J. A., Xu, D., **Borg, E.**, Zölitz, R.: *A New Concept of Soil Line Retrieval from Landsat 8 Images for Estimating Plant Biophysical Parameters*, *Remote Sensing*, 8 (9), pp. 1-23, 2016.€105760€
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