

Scientific Record 2013 – 2020

Scientific Record 2013-2020 (as of 03.03.2021)

This report covers scientific activities of DFD and University of Würzburg staff in the time period between January 1, 2013 and December 31, 2020.

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Teaching and Education

Lectures at Universities

University courses conducted by DFD staff from 2013 until WS 2020/2021 (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, Prof. C. Künzer), University of Augsburg (W2 professorship for Atmospheric Remote Sensing, Prof. M. Bittner), TU München (honorary professorship, Prof. G. Strunz) and University of Applied Sciences, Neubrandenburg (honorary professorship, Prof. E. Borg).

University	Title	Lecturers	2013	2014	2015	2016	2017	2018	2019	2020
Würzburg	Lecture									
	Anwendungen der Fernerkundung in der Geographie	<i>Conrad, C.</i>	■	■	■	■	■			
	Anwendungen der Fernerkundung in der Geographie	<i>Hüttich, C. Kübert, C.</i>						■		
	Anwendungen der Fernerkundung in der Geographie	<i>Kübert, C.</i>							■	■
	Applications of Earth Observation	<i>Conrad, C.</i>				■	■			
	Applications of Earth Observation	<i>Hüttich, C.</i>						■	■	
	Applications of Earth Observation	<i>Thiel, M. Schwalb-Willmann, J.</i>								■
	EAGLE Applied Earth Observation - Common core skills	<i>Dech, S.</i>								■
	Einführung in die Geographische Fernerkundung	<i>Dech, S.</i>	■	■	■	■	■	■		
	Einführung in die Geographische Fernerkundung	<i>Kübert, C.</i>							■	■
	Introduction to Remote Sensing and Geoanalysis	<i>Künzer, C.</i>				■	■	■	■	■
	Spezielle Physische Geographie I: System Erde – Mensch und Umwelt I: Hydrogeographie	<i>Conrad, C.</i>		■	■					
	Seminar									
	Ausgewählte Themen zur Analyse urbaner Räume basierend auf Erdbeobachtungsdaten	<i>Taubenböck, H.</i>	■	■	■	■				
	Dynamik der Landoberfläche	<i>Conrad, C. Künzer, C.</i>	■	■	■	■				

University	Title	Lecturers	2013	2014	2015	2016	2017	2018	2019	2020
	Dynamik der Landoberfläche	Conrad, C.					■			
	Dynamik der Landoberfläche	Hüttich, C.						■		
	Dynamik der Landoberfläche	Kübert, C.							■	■
	Land Surface Dynamics	Künzer, C.				■	■	■	■	■
	Fernerkundliche Methoden für das Forst- und Umweltmonitoring	Latifi, H.			■	■				
	Fernerkundung im Ressourcenmanagement	Conrad, C. Künzer, C.	■	■		■	■			
	Fernerkundung im Ressourcenmanagement	Conrad, C. Taubenböck, H.			■					
	Fernerkundung im Ressourcenmanagement	Kübert, C.						■	■	■
	Remote Sensing in Urban Geography	Taubenböck, H.					■	■	■	■
	Regionale Geographie außerhalb Europas II	Conrad, C.	■							
	Regionale Geographie außerhalb Europas II	Thiel, M.								■
	Remote Sensing applications in ecology and conservation	Wegmann, M.					■	■	■	
	Scientific Presentation	Philipp, M.								■
	Scientific Writing	Schönbrodt-Stitt, S., Hüttich, C.						■	■	
	Scientific Writing	Schönbrodt-Stitt, S.								■
	Science from wall to wall: From proposal to publication	Taubenböck, H.							■	■
	Übung									
	Advanced Image Processing for Geoscientists.	Geiß, C.								■
	Advanced Spatial Analysis for Geoscientists (object-oriented)	Thiel, M. Geiß, C.					■	■	■	

University	Title	Lecturers	2013	2014	2015	2016	2017	2018	2019	2020
	Advanced Spatial Analysis for Geoscientists: LiDAR	Latifi, H.					■	■	■	■
	Common Core Skills	Schönbrodt-Stitt, S.								■
	Digital Image Analysis and GIS	Conrad, C.				■	■			
	Digital Image Analysis and GIS	Hüttich, C.						■		
	Digital Image Analysis and GIS	Wegmann, M.							■	
	Einführung in die objektorientierte Datenverarbeitung mit eCognition	Thiel, M. Taubenböck, H.		■						
	Einführung in die objektorientierte Datenverarbeitung mit eCognition	Thiel, M.			■	■				
	Feldmethoden der Fernerkundung	Lex, S.	■							
	Fernerkundliche Analysen mit dem Open Source Programm R	Latifi, H.	■	■	■					
	Fernerkundliche Parameter der Landoberfläche	Conrad, C.	■	■	■	■	■			
	Fernerkundliche Parameter der Landoberfläche	Hüttich, C.						■		
	Fernerkundliche Parameter der Landoberfläche	Philipp, M., Hüttich, C., Kübert, C.							■	
	Fernerkundliche Parameter der Landoberfläche	Thiel, M.								■
	Fernerkundliche Zeitserien / Special Methodological Issues (Time Series Remote Sensing)	Dietz, A.			■		■	■	■	■
	From Field Measurements to Geoinformation	Conrad, C.					■			
	From Field Measurements to Geoinformation	Hüttich, C.						■	■	
	From Field Measurements to Geoinformation	Wegmann, M.							■	■
	From Field Measurements to Geoinformation (UAV)	Thiel, M.								■
	Hyperspektrale Fernerkundung mit ENVI/IDL/Hyperspectral Remote Sensing	Bachmann, M.	■		■		■	■		

University	Title	Lecturers	2013	2014	2015	2016	2017	2018	2019	2020
	Hyperspektrale Fernerkundung: Grundlagen, Spectral Unmixing & Feldspektrometrie	Bachmann, M.; Schwalb-Willmann, J.								■
	Introduction to Programming and Geostats	Wegmann, M.								■
	Land and Water Management	Conrad, C.					■			
	Land and Water Management	Hüttich, C.						■	■	
	Land and Water Management	Thiel, M. Philipp, M.								■
	Methoden der fernerkundlichen Datenauswertung	Kübert, C. Conrad, C.	■	■	■	■	■			
	Methoden der fernerkundlichen Datenauswertung	Kübert, C.						■	■	
	Object-Oriented image analysis	Wirth, C.								■
	Project management / Scientific Presentation / Scientific Writing	Wegmann, M.					■	■	■	■
	Project management / Scientific Presentation / Scientific Writing	Schönbrodt-Stitt, S. Hüttich, C.						■		
	Scientific Graphics	Wegmann, M.							■	
	Scientific Graphics	Wegmann, M.; Schwalb-Willmann, J.								■
	Selected Applications	Wegmann, M.					■	■	■	
	Selected Applications	Philipp, M.								■
	Spatial Modeling and Prediction	Wegmann, M.					■	■	■	
	Special Methodological Issues	Philipp, 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.			■					

University	Title	Lecturers	2013	2014	2015	2016	2017	2018	2019	2020
Others										
Angers, France	Introduction to LIDAR remote sensing	<i>Latifi, H.</i>				■				
Augsburg	Aktuelle Aspekte der Atmosphären- und Klimaforschung (Seminar)	Bittner, M. Wüst, S.	■	■	■	■	■	■	■	■
	Antarktisforschung in Deutschland (Seminar)	Höppner, K.			■					
	Applied Geodata Analysis and Machine Learning in R (Seminar)	Weigand, M.						■	■	■
	Atmosphärenforschung (Seminar)	Höppner, K.		■	■					
	Die Antarktis: ausgewählte Forschungsfelder (Seminar)	Höppner, K.				■				
	Fernerkundung der polaren und kalten Regionen	Höppner, K.					■			
	Physik der Atmosphäre I (Vorlesung)	Bittner, M.	■	■	■	■	■	■	■	■
	Physik der Atmosphäre I (Übung für Physiker und Mathematiker)	Wüst, S.	■	■	■	■	■	■	■	■
	Physik der Atmosphäre I (Übung für Geographen)	Küchelbacher, L.					■	■	■	■
	Physik der Atmosphäre II (Vorlesung)	Bittner, M.	■	■	■	■	■	■	■	■
	Physik der Atmosphäre II (Übung für Physiker)	Wüst, S.	■	■	■					
	Physik der Atmosphäre II – Numerische Methoden (Vorlesung)	Wüst, S.				■	■	■	■	■
	Physik der Atmosphäre II (Tutorium für Geographen)	Küchelbacher, L.					■	■	■	■
	Polare Regionen (Seminar)	Höppner, K.				■				
Bayreuth (GCE)	Advanced Methods in Nature Conservation (Vorlesung + Übung)	<i>Wegmann, M.</i>	■	■	■	■	■			
	Global Change Impacts on Species Distributions (Vorlesung + Übung)	<i>Wegmann, M.</i>	■	■	■	■	■	■		

University	Title	Lecturers	2013	2014	2015	2016	2017	2018	2019	2020
Berlin (HU)	Patterns of Land Use and Ecosystem Dynamics (Vorlesung + Übung)	Wegmann, M.	■	■	■	■	■	■		
	Patterns of Land Use and Ecosystem Dynamics (Vorlesung + Übung)	Hüttich, C.							■	
	Remote Sensing (Vorlesung + Übung)	Wegmann, M.	■	■	■	■	■	■		
	Remote Sensing (Vorlesung + Übung)	Hüttich, C.							■	
	Remote Sensing in Biodiversity Research (Vorlesung + Übung)	Wegmann, M.	■	■	■	■	■			
Eichstätt	Objektbasierte Bildverarbeitung und maschinelle Lernverfahren	Geiß, C.					■			
Erlangen (FAU)	Fernerkundung (Vorlesung, Seminar/Praktikum)	Sparwasser, N.	■	■	■	■	■	■	■	■
Graz (TU), Austria	Stadt und Gesellschaft	Wurm, M.							■	
Jena	Advanced Classification (Vorlesung/Übung)	Wurm, M.				■	■			
	Geographische Fernerkundung (Grundlagen)	Droin, A.								■
	Object Based Classification (Vorlesung/Übung)	Wurm, M.						■	■	■
	Urbane Fernerkundung (Seminar/Praktikum)	Wurm, M.	■		■					
	Einführung in Cloud-Computing für die Erdbeobachtung (Sommerschule)	Eberle, J.								■
Karlsruhe (KIT)	Einführung in die modulare Programmierung (Seminar)	Habermayer, M.	■		■		■	■	■	
	Hyperspektrale Fernerkundung (Seminar)	Bachmann, M.		■		■		■		■
	Energy Meteorology	Schroedter-Homscheidt, M.				■	■			
Katibougou, Mali	Agricultural land use mapping (GIS and RS)	Thiel, M.					■			■
Köln	Energy Meteorology	Schroedter-Homscheidt, M.				■	■			

University	Title	Lecturers	2013	2014	2015	2016	2017	2018	2019	2020
Kumasi, Ghana	Introduction to Remote Sensing and GIS	Thiel, M.				■				
	Advanced Remote Sensing	Thiel, M., Thonfeld, F.	■				■			■
Lomé, Togo	Desasters and Human contingency	Thiel, M.	■	■			■			
Minna, Nigeria	Applied Remote Sensing	Thiel, M.		■			■			
	Advanced Remote Sensing	Thiel, M.								■
München (HS)	Fernerkundung (Vorlesung, Seminar/Praktikum)	Schmitt, A.			■	■				
	Fernerkundung – Vertiefung (Vorlesung, Übung)	Rentsch, M.			■	■	■			
München (LMU)	Kartographie/GIS (Grundvorlesung)	Strobl, C.	■	■	■	■	■	■	■	
München (TU)	Applied Earth Observation (Spezialvorlesung)	Strunz, G.	■	■	■	■	■	■	■	■
	Geostatistics and Geomarketing (Spezialvorlesung)	Strobl, C.	■	■	■	■	■	■	■	
	DV-gestützte Geostatistik (Spezialvorlesung)	Strobl, C.	■	■	■	■	■	■	■	
	Mission Engineering and Ground Infrastructure (ESPACE)	Diedrich, E.				■	■	■	■	
	Remote Sensing (Seminar)	Geiß, C., Aravena Pelizari, P., Stark, T.							■	■
Neubrandenburg	Datenerfassung und Datenmanagement – Fernerkundung (Vorlesung)	Borg, E.	■	■	■					
	Landschaftswissenschaften und Geomatik – Fernerkundung (Vorlesung)	Borg, E.	■	■	■	■	■	■	■	■
	Bodenkunde und Hydrologie (Vorlesung)	Borg, E.						■	■	■

University	Title	Lecturers	2013	2014	2015	2016	2017	2018	2019	2020
Ouagadougou, Burkina Faso	Spatial Data Analysis	Schönbrodt-Stitt, S., Hill, S								■
Rostock	Ringvorlesung: Nutzung von Fernerkundungsmethoden zur Charakterisierung von Moorstandorten	Borg, E.					■			
Stuttgart (HS)	Advanced Topics of Photogrammetry and Remote Sensing (Vorlesung, Seminar und Übung)	Esch, T.	■	■	■	■	■	■	■	
	Radar Remote Sensing (PG2 - Photogrammetry and Geoinformatics)	Esch, T								■
Tübingen	Fernerkundung (Vorlesung)	Bachofer, F.					■			
	Angewandte Fernerkundung (Vorlesung, Seminar, Übung)	Bachofer, F.							■	
	Geoinformatics	Bachofer, F.								■
	Objekt-orientierte Bildverarbeitung – Einführung für Geodatenmanager	Thiel, M.							■	
Venedig, Italy	Fernerkundung (Spezialvorlesung)	Marconcini, M.			■				■	
New Haven, USA	Fernerkundung (Spezialvorlesung)	Marconcini, M.							■	

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 2020/2021 (lectures of Department of Remote Sensing staff from University of Würzburg in *italic typeface*)

University	Title	Lecturers	2013	2014	2015	2016	2017	2018	2019	2020
Berlin (HU)	The Potential of Earth Observation for the Analyses of Land Surface Dynamics	Künzer, C.						■		
Berlin (Beuth Hochschule für Technik)	RIESGOS – Multirisikoforschung für die Andenregion	Schöpfer, E.								■
Bochum	Die globale Transformation der Städte – Monitoring mit Methoden der Fernerkundung	Taubenböck, H.				■				
	Urbane Armut – Perspektiven aus dem All.	Taubenböck, H.								■
Bremen	Assessing the Ecosystem Service Potential of Coastal Mangrove Forests combining Remote Sensing and Social Science Studies	Künzer, C.	■							
Cambridge, England	Earthquake risk in the context of global urbanization	Geiß, C.								■
	Understanding the transformation of urban landscapes through satellite data.	Taubenböck, H.							■	
Cape Town, South Africa	New forms of global urbanization – An Earth observation perspective (online-guest lecture)	Taubenböck, H.			■					
Chicago, USA	Is urbanization good for humankind? New perspectives from space.	Taubenböck, H.								■
Cork, Ireland	Remote Sensing of Coasts and River Deltas globally	Künzer, C.			■					
Dortmund	Fernerkundung und geostatistische Verfahren zur Analyse städtischer Räume	Taubenböck, H.			■					
Dresden (TU)	Information about dust properties from hyperspectral infrared space observations	Klüser, L.			■					
Duisburg-Essen	Nutzungspotentiale der Satellitenfernerkundung für umweltmeteorologische Anwendungen	Erbertseder, T.			■					

University	Title	Lecturers	2013	2014	2015	2016	2017	2018	2019	2020
Duisburg Dortmund Bochum	Distance creates clarity: Big Earth Data for a better understanding of the century of cities	Taubenböck, H.							■	
Edinburgh, Schottland	Observing the Earth from Space - Satellites, Services and Applications	Heinen, T.						■		
Frankfurt	Assessment of Global Surface Water Dynamics from Optical Satellite Time Series – The GlobalWaterPack	Klein, I.						■		
Göttingen	Digital World meets Urban Planet - New Prospects for Urban Monitoring arising from Earth Observation	Esch, T.						■		
Guangzhou, China	The future will be urban - is that a problem or the solution?	Taubenböck, H.								■
Hamburg (HCU)	Möglichkeiten der Fernerkundung für die Unterstützung bei Naturkatastrophen und Krisenanwendungen	Gähler, M., Mager, A.						■		
Hannover	Fernerkundung von Küsten und Flussdeltas: Schnittstellen mit Hydrologie und Küstenbauingenieurwesen	Künzer, C.			■					
	Irradiance Forecasts for Electricity Production	Schroedter-Homscheidt, M.	■							
	Poverty – How disadvantages become visible even from outer space	Taubenböck, H.								■
	Remote Sensing for Global Change Research – an Overview	Klein, D.								■
Jena	Modulare Programmierung mit IDL für den Einsatz in der Fernerkundung	Habermeyer, M.	■	■	■	■		■		
	Modular Programming in Python for the Use in Remote Sensing Applications	Habermeyer, M.							■	
	Modular Programming in Remote Sensing – Python Part I	Habermeyer, M.								■
Kiel	Urbanization is transforming our world – Perspectives from space.	Taubenböck, H.						■		
Kingston	Using TerraSAR-X and TanDEM-X data for cryosphere research	Roth, A.							■	
Köln	Das Jahrhundert der Städte – Perspektiven aus dem All.	Taubenböck, H.						■		

University	Title	Lecturers	2013	2014	2015	2016	2017	2018	2019	2020
Kumasi, Ghana	Advanced Remote Sensing	Thonfeld, F., Thiel, M.								■
	Introduction to Remote Sensing and GIS	Thiel, M.				■				
Lausanne	Does distance bring clarity – remotely sensing cities	Taubenböck, H.	■							
London School of Economics	Urban Science with a view from space: Dynamics, dimensions and forms of global urbanization	Taubenböck, H.							■	
Medellin	Urban Science with a view from space: Dynamics, dimensions and forms of global urbanization	Taubenböck, H.							■	
München (HS)	Change Detection for Application in Urban Geography based on VHR remote sensing	Leichtle, T.								■
	Digital Data Fusion in Practice	Wendleder, A.								■
	Globale Urbanisierung: Perspektiven aus dem All	Taubenböck, H.					■	■	■	
	Ableitung von krisenrelevanten Informationen aus Erdbeobachtungsdaten	Plank, S.							■	
	Vulnerability & Risk <in action> – The project RIESGOS	Schöpfer, E.							■	
München (LMU)	Urban Remote Sensing	Taubenböck, H.					■			
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.			■	■	■	■	■	■
	Perspektiven aus dem All - Die Transformation des physischen Zusammenlebens	Taubenböck, H.					■			
	Remote Sensing in Hydrology	Huth, J., Ottinger, M., Wendleder, A.						■	■	
Nikosia (TU), Cyprus	Multitemporal Earth Observation Analysis	Geßner, U.				■				

University	Title	Lecturers	2013	2014	2015	2016	2017	2018	2019	2020
	The European EO Programme COPERNICUS: A contribution to preserve Cultural Heritage	Schreier, G.				■				
Osnabrück	Remote Sensing for Global Change Research – An Overview	Klein, D.								■
Salzburg, Austria	New dimensions of urbanization – An Earth observation perspective	Taubenböck, H.			■					
	Big data and beyond – Analyzing global urbanization	Taubenböck, H.							■	
Shanghai, (CAS)	The Potential of Earth Observation for Biodiversity Analyses	Künzer, C.							■	
Stuttgart	Quantifying Global Environmental Change	Künzer, C.						■		
Taiwan, China	The Potential of EO for Coastal Research Applications	Künzer, C.				■				
Teheran, Iran	From 3D point cloud to the ground: How able is the airborne remote sensing to capture information on forest structure?	Latifi, H.	■							
Tianjin, China	Remote Sensing Time Series revealing Land Surface Dynamics	Künzer, C.			■					
Tübingen	Earth Observation and the Copernicus Programme in support to Archaeology and World Heritage Preservation	Schreier, G.						■		
	Ist Urbanisierung gut für die Menschheit?	Taubenböck, H.								■
Wien (TU)	The global process of urbanization: Dynamics, patterns and morphologies	Taubenböck, H.							■	
Weimar	Characterization of Built Environments with Artificial Intelligence Techniques and Earth Observation Data	Geiß, C.							■	■
Würzburg	Doing a PhD! – A progress (regress) report	Standfuß, I.							■	
	Earth Observation for Crisis Management Support	Riedlinger, T.							■	
	Earthquakes, Earth Observation and Machine Learning – one Decade of Research	Geiß, C.								■
	Master's – Research associate – Service staff – Phd: Insights into a career at a large scale research facility	Aravena Pelizari, P.							■	

University	Title	Lecturers	2013	2014	2015	2016	2017	2018	2019	2020
Wuhan, China	Publish or perish	Wurm M.							■	
	Research within a large project of the European commission – the example of the HEIMDALL project	Knopp, C.							■	
	Research from an SME perspective	Leichtle, T.							■	■
	Wall2Wall The process from an idea to funding	Staab, J.							■	■
	Remote Sensing for Agriculture Monitoring	Klein, D.								■
	Habitat Suitability Model for different locust types in Kazakhstan	Klein, D.								■
	Remote Sensing for Fire Detection and Crisis Management	Klein, D.								■
	Managing large international research projects - Importance, complexity and challenges	Schöpfer, E.								■
	Urban Remote Sensing	Bachofer, F.						■		

Non-University Courses and Tutorials

Non-university courses and tutorials conducted by DFD staff from 2013 to 2020 (courses of Department of Remote Sensing at University of Würzburg in *italic typeface*)

Lecturer	Location	Subject	2013	2014	2015	2016	2017	2018	2019	2020
Bachmann, M.	Beijing, China	Atmospheric Correction using ATCOR, IEEE GIS Training Course				■				
Bachmann, M., Holzwarth, S., Pinnel, N.	St. Oswald, Oberpaffenhofen	RS4forestEBV: Airborne remote sensing for monitoring essential biodiversity variables in forest ecosystems, EUFAR summer school					■			
Bachmann, M., Zepp, S., Heiden, U.	München, Oberpaffenhofen	Vicarious calibration/validation experiment, EnMAP summer school					■			
Bachofer, F.	Kigali, Ruanda	Two day training course on urban remote sensing, geospatial analysis and U-TEP with the Ministry of Infrastructure, Ministry of Finance and the Rwandan Housing Authority						■		

Lecturer	Location	Subject	2013	2014	2015	2016	2017	2018	2019	2020
Bettinger, M., Geßner, U., Klein, D., Klein, I., Mager, A., Martinis, S., Plank, S., Schreier, G., Voigt, S.	Oberpfaffen- hofen	Two-day day training course and workshop for WFP analysts on satellite data processing methods					■			
Bettinger, M., Gähler, M., Martinis, S., Plank, S., Strunz, G.	Oberpfaffen- hofen	Two-day day remote sensing training course for GIZ						■		
Borg, E.	Potsdam	17. Herbstschule - System Erde 2018: „Von oben sieht man mehr - Satelliten und Satellitendaten in den Geowissenschaften“ (DWD, GFZ)						■		
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		■	■					
Da Ponte, E.	Bogotá, Colombia	Training at WWF on processing approaches for Sentinel 1 and 2, mapping water surface dynamics and derivation of land cover.					■			
Da Ponte, E., Hirner, A.	Asuncion, Paraguay	Remote Sensing Training on processing approaches for Sentinel 1 and 2, mapping water surface dynamics and derivation of land cover. Responsible institution: WWF Paraguay						■		
Esch, T.	Webinar	Radar Remote Sensing – Einführung in die Radarfernerkundung für Mitarbeiter von Entwicklungsbanken und Städten/Kommunen in Entwicklungsländern (ESA EO4SD Urban)						■		
Gähler, M.	Oberpfaffen- hofen	ZKI-Training für Mitarbeiter des Ministerium des Innern und Sport Land Sachsen-Anhalt			■					
Gähler, M., Knopp, C., Mager, A.	Frankfurt a. M. Oberpfaffen- hofen	ZKI-DE Training zur Befähigung des BKG					■	■		
Gähler, M., Lange, C.	Oberpfaffen- hofen	ZKI Nutzertraining für Polizeipräsidium München							■	

Lecturer	Location	Subject	2013	2014	2015	2016	2017	2018	2019	2020
Gähler, M. Lange, C. Starmans, S.	Frankfurt a.M./ Oberpfaffen- hofen	ZKI-DE Nutzertraining für Bundesbehörden								■
Gähler, M., Lange, C., Wölfel, J.	Berlin	ZKI-DE Nutzertraining für Bundesbehörden							■	
Gähler, M., Mager, A., Lechner, K.	Frankfurt	ZKI-DE Nutzertraining für Bundesbehörden (Frühjahr)						■	■	
Gähler, M., Mager, A., Schneiderhan, T.	Oberpfaffen- hofen	ZKI-DE Nutzertraining für BKA			■	■				
Gähler, M., Mager, A., Schneiderhan, T.	Bonn	ZKI-DE Nutzertraining für GMLZ- Mitarbeiter des BBK			■	■				
Geiß, C.	Potsdam	Seismology and Seismic Hazard Assessment							■	
Geßner, U.	Ouagadougou, Burkina Faso	WASCAL Training/Workshop on Remote Sensing of the Land Surface					■			
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			■					
Hahmann, T.	München	Vortragsreihe der Deutschen Gesellschaft für Kartographie e.V. (DGfK) - Sektion Bayern: Die Sentinel-Satelliten des europäischen Copernicus-Programms.				■				
Hüttich, C., Klein, D., Thiel, M., Üreyen, S., Dahms, T., Schöpfer, E.	Würzburg	Summer School for GlZ: Earth Observation for International Development							■	
Jaspersen, V.	Dongying, China	OGC Services, Metadata and ISO Standards			■					
Jaspersen, V.	Dongying China	User Training for the DELIGHT (Data and) System Administrator		■	■	■				
Lechner, K. Gähler, M. Lange, C.	Frankfurt a.M./ Oberpfaffen- hofen	ZKI-DE Trainings zur Befähigung des BKG								■

Lecturer	Location	Subject	2013	2014	2015	2016	2017	2018	2019	2020
Lechner, K., Lange, C., Wölfel, J., Gähler, M.	Oberpfaffen- hofen	ZKI-DE Training zur Befähigung des BKG							■	
Künzer, C.	Peking, China	Assessing Land Surface Dynamics	■	■						
Künzer, C.	Tianjin, China	Zeitreihenprozessierung und thermale Fernerkundung			■					
Lechner, K., Gähler, M., Lange, C.	Frankfurt	ZKI-DE Nutzertraining für Bundesbehörden (Herbst)						■		
Lechner, K., Lange, C., Gähler, M.	Oberpfaffen- hofen	ZKI-DE Nutzertraining für die Bundespolizei						■		
Leinenkugel, P.	Köln	DLR Wissensaustauschworkshop III – Machine Learning						■		
<i>Leutner, B., Schwalb- Willmann, J.</i>	Radolfzell	AniMove: Animal Movement and Remote Sensing, Postgraduate and professional training course					■	■		
Leutner, B., <i>Schwalb- Willmann, J.</i>	Yale University, New Haven, USA	AniMove: Animal Movement and Remote Sensing, Postgraduate and professional training course							■	
Leinich, M.	Almaty, Kasachstan	Introduction into QGIS (QGIS Courses) for the CAREC-staff			■					
<i>Löw, F., Bauer, C., Thiel, M.</i>	Almaty, Kasachstan; Urgench, Usbekistan	R-Trainingskurse in Zentralasien			■	■	■			
<i>Marconcini, M.</i>	Bochum	Sentinels for Urban Applications						■		
<i>Marconcini, M.</i>	Geneve, Switzerland	Outlining the global settlement growth from 1985 to 2015 – the WSF Evolution						■		
<i>Morper-Busch, L., Dimov, D., Conrad, C., Netzband, M.</i>	Almaty, Kasachstan	Summer School: "CAWa Summer School at German-Kazakh University in Almaty"		■	■	■	■	■	■	
<i>Morper-Busch, L., Netzband, M.</i>	Tashkent, Usbekistan & Bishkek, Kirgistan	CAWa Edu Seminar at the National Agrarian University of Kyrgyzstan (2018) and at the Center for Research of Glaciers (Academy of Sciences) in Dushanbe, Tajikistan (2019)						■	■	

Lecturer	Location	Subject	2013	2014	2015	2016	2017	2018	2019	2020
Mühlbauer, M. Voigt, S.	Oberpfaffen- hofen	DLR Wissensaustauschworkshop „DLR.Open II - Open Data Science und Open Geodata“					■			
Pinnel, N., Holzwarth, S.	St. Oswald, Oberpfaffen- hofen	RS4forestEBV:Species , Airborne remote sensing for monitoring essential biodiversity variables in forest ecosystem, Tree species classification. EUFAR summer school					■			
Pinnel N., Görizt A.	San José, Costa Rica	Tutorial on aquatic remote sensing						■		
Plank, S.	Darmstadt / Bonn	International Charter Space and Major Disasters / PM-Training						■	■	
Plank, S.	Tokio, Japan	DLR-ZKI, Governance Disaster Management in Germany, Earth Observation Services along the Disaster Management Cycle – examples					■			
Riedlinger, T.	Córdoba, Argentinien	International Charter Space and Major Disasters / PM-Training				■				
Roth, A.	Weßling	SAR Principles and Applications (CCG Kurs)	■	■	■	■	■	■	■	
Schreier, G.	München	TUM Tech: European Earth Observation Systems				■	■			
Schröter, E. Lange, C. Lechner, K.	Oberpfaffenho- fen/ Schweinfurt	DLR-ZKI Training für das BRK								■
Strobl, C.	Stuttgart	Geodatenverarbeitung mit Python, FOSSGIS-Gruppe			■					
Strobl, C.	Münster	Workshop - Einführung in die Geodatenverarbeitung mit Python (FOSSGIS Konferenz)			■					
Strobl, C.	Münster	Workshop - GeoPython (FOSSGIS Konferenz Passau)				■				
Thiel, M.	Bonn	Remote Sensing of land cover and land use at different scales				■				
Thiel, M.	Ouagadougou, Burkina Faso	Overview of Remote Sensing concepts					■			
Twele, A.	Darmstadt	International Charter Space and Major Disasters / PM-Training						■		

Lecturer	Location	Subject	2013	2014	2015	2016	2017	2018	2019	2020
<i>Wegmann, M., Leutner, B., Schwalb- Willmann, J.</i>	Radolfzell Virgina, USA	AniMove: Animal Movement and Remote Sensing for Conservation			■	■	■	■		
Zeidler, J.	Cape Town, South Africa	Geospatial Demography: Combining Satellite, Survey, Census and Cellphone Data to Provide Small- area Estimates. Mapping Settlements and Exploring data, tools, training					■			

CCG: Carl-Cranz-Gesellschaft

Internal Seminar Series

Title	Comments
DFD Seminar	6 – 8 presentations per year, DFD and guest scientists
Seminars of DFD sections	193 seminars between 2013 and 2019, DFD and guest scientists (2020: 21, 2019: 29, 2018: 9, 2017: 19, 2016: 51, 2015: 24, 2014: 25, 2013: 15)
Doktorandentage University of Würzburg	Annual event with on average 7 PhD status presentations
Software Development Lab University of Würzburg	39 presentations since 2013 (2020: 15, 2019: 2, 2018: 3, 2017: 3, 2016: 5, 2015: 4, 2014: 5, 2013: 2)
Werkstattberichte University of Würzburg/PhD Talks	34 since 2013 (2020: 3, 2019: 6, 2018: 9, 2017: 1, 2016: 4, 2015: 8, 2014: 1, 2013: 2)
„Development Open Lab“ bei DFD INF	2020: 8 presentations/workshops

Contributions

Title	Comments
Wissenschaftliches Kolloquium of DLR Oberpfaffenhofen	7 presentations since 2013 (2020: 1, 2019: 1; 2018: 2, 2017: 0, 2016: 1, 2015: 1, 2014: 1)
Diplomanden-/ Doktorandenseminar der Physischen Geographie, University of Würzburg	21 seminars since 2013 (2020: 0, 2019: 5, 2018: 1, 2017: 5, 2016: 3, 2015: 5, 2014: 1, 2013: 1)

In-House Interns and Trainees

552 students (2013: 45, 2014: 34, 2015: 82, 2016: 36, 2017: 96, 2018: 77, 2019: 91, 2020: 91) received practical training and supervision from DFD staff during short-term periods of stay at DFD between 2013 and 2020.

Academic Degrees

Professorship Appointments

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

Name	Professorship	University	Year
Künzer, C.	Professur für „Fernerkundung der Landoberflächendynamik“	Julius-Maximilians-Universität Würzburg	2019
Borg, E.	Honorarprofessur	FH Neubrandenburg	2018
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
Geiß, C.	Collective Sensing Techniques and Artificial Intelligence for Natural Hazard Risk and Impact Assessment	Würzburg	Ongoing	Prof. Dech Prof. Paeth PD Dr. Taubenböck
Taubenböck, H.	Remote Sensing for the analysis of global urbanization	Würzburg	2019	Prof. Dech Prof. Baumhauer Prof. Hahn
Wüst, S.	Wellen in der mittleren Atmosphäre – Untersuchung von Kopplungsmechanismen und Entwicklung von Validationskonzepten	Augsburg	2018	Prof. Reller Prof. Horn Prof. Hoppe
<i>Conrad, C.</i>	Neue Konzepte der Fernerkundung und Geoinformatik für ein nachhaltiges Land- und Wassermanagement in Trockengebieten	Würzburg	2017	Prof. Dech Prof. Hahn Prof. Baumhauer
<i>Latifi, H.</i>	Methoden zur Erfassung von Struktur und Vitalität der temporären Waldbestände mit Fernerkundung	Würzburg	2017	Prof. Dech Prof. Baumhauer PD Dr. Müller
Künzer, 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 ThesesDoctoral Theses supervised or completed by DFD or University of Würzburg staff (in *italic typeface*) since 2013

Name	Title	University	Year	Reviewers
<i>Abu, Itohan-Osa</i>	Migrants: The push pull effects of industrial areas (in rural Africa)	Würzburg	Ongoing	Taubenböck, H. (1) N.N. (2)
Aravena Pelizari, P.	Assessing vulnerability of built environments to natural hazards with street-level imagery and satellite remote sensing	Würzburg	Ongoing	Taubenböck, H. (1) Dech, S. (2) Baumhauer, R. (3)
<i>Bell, A.</i>	Remote Sensing and its contribution to policy and decision making.	Würzburg	Ongoing	Dech, S. (1) Paeth, H. (2)
Bichler, R.	Untersuchung des Zusammenhangs zwischen Luftqualität, Gesundheit und Wirtschaftswachstum	Augsburg	Ongoing	Bittner, M. (1) Bürmann, W. (2)
Buchelt, S.	Investigating local permafrost dynamics	Würzburg	Ongoing	Kneisel, C. (1) Künzer, C. (2)
Debray, H.	Analysis of intra-urban structural complexity	München (TUM)	Ongoing	Zhu, X. (1) Taubenböck, H. (2)
Dirscherl, M.	Remote Sensing of Glacier Velocities in Antarctica	Würzburg	Ongoing	Künzer, C. (1) Kneisel, C. (2)
Dong, R.	Spatiotemporal Pattern of Impervious Surfaces and Their Impacts on Surface Urban Heat Island	Würzburg	Ongoing	N.N. (1) N.N. (2)
Droin, A.	Relationship of urban morphology and well-being	Würzburg	Ongoing	N.N. (1) N.N. (2)
Garbasevski, O.	Remote sensing-based approaches towards measurement of inequality	Würzburg	Ongoing	Taubenböck, H. (1) Peichl, A. (2)
Handschuh, J.	Modellgestützte Ableitung bodennaher Luftschadstoffe und Emissionen aus Satellitendaten	Berlin (FU)	Ongoing	Schaap, M. (1) N.N. (2)
Höser, T.	Object inventories derived from Earth Observation data with Deep Learning	Würzburg	Ongoing	Künzer, C. (1) N.N. (2)
Ji, C.	Urban Imaging Spectroscopy across Scales	Berlin (HU)	Ongoing	Lakes, T. (1) Feilhauer, H. (2)
Köhler, J.	The potential of EO for trend derivation and future prediction	Würzburg	Ongoing	Künzer, C. (1) Paeth, H. (2)
Kraff, N.	Arrival Cities in Europe and the world - Morphologic appearances of poverty observed and classified from space	Würzburg	Ongoing	Taubenböck, H. (1) Rauh, J. (2)

Name	Title	University	Year	Reviewers
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) Jacobeit, J. (2)
Mayr, S.	Global Dynamics of Surface Water and Error Quantification	Würzburg	Ongoing	Künzer, C. (1) Rutzinger, M. (2) Paeth, H. (3)
Offenwanger, T.	Statistische Untersuchung von Aerosol-Wolken-Wechselwirkungen mit Satellitenbeobachtungen und globalen Zirkulationsmodellen	Augsburg	Ongoing	Beck, C. (1) N.N. (2)
Orynbaikyzy, A.	Crop type classification using a combination of optical and radar data	Halle	Ongoing	Conrad, C. (1)
Osterkamp, N.	INTAKT-Potential von Fernerkundung für die Analyse von umweltbedingten Krankheiten	Würzburg	Ongoing	Taubenböck, H. (1) N.N. (2)
Quattara, B.	Estimation of Biomass Consumption by Small Wildfires and Induced Carbon Dioxide Emission in West African Savannah	Würzburg	Ongoing	Sponholz, B. (1) Künzer, C. (2)
Palacios-Lopez, D.	Leveraging Enhanced Built-up Area Characteristics to Improve Spatial Population Distribution Modelling	Osnabrück	2020	Reinartz, P. (1) Tatem, A. (2)
Phillip, M.	The potential of Earth Observation for permafrost analysis	Würzburg	Ongoing	Künzer, C. (1) Kneisel, C. (2)
Reinermann, S.	Analyses of Grassland Use and Yield in Germany based on Sentinel Time Series	Würzburg	Ongoing	Künzer, C. (1) Paeth, H. (2)
Schwalb-Willmann, J.	Potentials of animal-environment interactions for remote sensing research	Würzburg	Ongoing	Dech, S. (1) Wikelski, M. (2)
Sedlak, R.	Charakterisierung der Aktivität und Turbulenz von Schwerewellen in der mittleren Atmosphäre anhand von Spektrometer -und Imagerdaten des OH Airglow	Augsburg	Ongoing	Bittner, M. (1) Albrecht, M. (2)
Staab, J.	Noise mapping from space. Approximating sound propagation using big earth data	Berlin (HU)	Ongoing	Lakes T (1) N.N. (2)
Standfuß, I.	Movement and behavior of breeding white storks in relation to landscape dynamics	Würzburg	Ongoing	Dech, S. (1) Taubenböck, H. (2)
Stark, T.	Machine learning for classification of urbane poverty in EO-data	München (TUM)	Ongoing	Zhu, X. (1) Taubenböck, H. (2)
Stiller, D.	Big Earth data for urban traffic applications	Würzburg	Ongoing	Dech, S. (1) Taubenböck, H. (2)

Name	Title	University	Year	Reviewers
Ulloa Torrealba, Y.	Climate change, social and demographic change and the unhampered view from space: past, present, future	München (HS)	Ongoing	Taubenböck, H. (1) Schmidt, A. (2)
Üreyen, S.	The Potential of Earth observation time series for river basin analysis	Würzburg	Ongoing	Künzer, C. (1) Paeth, H. (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)
Warmuth, M.	Die Entwicklung der Savannenfeuer unter Berücksichtigung des Klimawandels simuliert von REMO-iMOVE	Würzburg	Ongoing	Paeth, H. (1) Sponholz, B. (2) Künzer, C. (3)
Weigand, M.	Einfluss der nachbarschaftlichen Stadtumwelt auf die Gesundheit der Menschen in Deutschland	Würzburg	Ongoing	Dech, S. (1) Taubenböck, H. (2)
Wendleder, A.	Impact of climate and supraglacial lakes on the surface velocity of Baltoro Glacier, Karakoram	Erlangen	Ongoing	Braun, M. (1) Mayer, C. (2)
Yu, S.	Urban land expansion in China and its effect on environment	Beijing (RADI)	Ongoing	Zhang, Z. (1) N.N. (2)
Zepp, S.	Spatial and temporal analysis of large scale time series of bare-soil composites based on Landsat imagery (1984-2019)	München (LMU)	Ongoing	Ludwig, R. (1) van Wesemeal, B. (2)
Baumhoer, C.	Glacier front dynamics of Antarctica – Analysing changes in glacier and ice shelf front positions based on SAR time-series	Würzburg	2021	Künzer, C. (1) Kneisel, C. (2)
Tsai, Y.-L.	Using Spaceborne SAR for Snow Cover Extent Monitoring	Kiel	2021	Oppelt, N. (1) Dietz, A. (2)
Dahms, T.	Ableitung von biophysikalischen Parametern aus fusionierten hochfrequenten fernerkundlichen Zeitserien	Würzburg	2020	Conrad, C. (1) Paeth, H. (2)
Hannawald, P.	Untersuchung von atmosphärischen Schwerewellen mit Kameradaten des OH-Nachtlichtens	Augsburg	2020	Bittner, M. (1) Wixforth, A. (2)
Hu, Z.	The potential of Earth Observation for the assessment of cold region dynamics in Europe	Würzburg	2020	Künzer, C. (1) Dech, S. (2)
Leichtle, T.	Change Detection for Applications in Urban Geography based on VHR Remote Sensing	Berlin (HU)	2020	Lakes, T. (1) Kleinschmidt, B. (2) Schmitt, A. (3)
Li, Y.	Flood mapping in rural and urban areas with multi-temporal SAR intensity and InSAR coherence	München (LMU)	2020	Ludwig, R. (1) Strunz, G. (2)

Name	Title	University	Year	Reviewers
Sapena-Moll, M.	Analysis and development of urban land use fragmentation indicators from a spatio-temporal perspective	Valencia, Spain	2020	Fernandez, A.R. (1)
Tsyganskaya, V.	Detection of temporarily flooded vegetation using time series of dual polarised C-band synthetic aperture radar data	München (LMU)	2020	Ludwig, R. (1) Strunz, G. (2)
Voinov, S.	Deep Learning-based Vessel Detection from Very High and Medium Resolution Optical Satellite Images as Component of Maritime Surveillance Systems	Rostock	2020	Bill, R. (1) Heymann, F. (2) Reinartz, P. (3)
Clauß, K.	Remote Sensing of Rice Areas – Mapping Rice Fields and Estimating Rice Production Employing Multi-Sensor Remote Sensing Time Series	Würzburg	2019	Künzer, C. (1) Dech, S. (2)
Fiedl, P.	Derivation of glaciological parameters from time series of multi-mission remote sensing data – Applications to glaciers in Antarctica and the Karakoram	Erlangen	2019	Braun, M. (1) Humbert, A. (2)
Jilge, M.	Mapping urban surface materials with imaging spectroscopy data on different spatial scales	Bochum	2019	Jürgens, C. (1) Somers, B. (2)
Kübert, C.	Fernerkundung für das Phänologienmonitoring: Optimierung und Analyse des Ergrünungsbeginns	Würzburg	2019	Dech, S. (1) Paeth, H. (2)
Mancera, D.	Klimatologie der Aerosolverteikalverteilung in der Grenzschicht für Solarenergieanwendungen	Oldenburg	2019	Heinemann, D (1) N.N. (2)
Ottinger, M.	Earth Observation for the Assessment of Aquaculture in Coastal Regions - Deriving Aquaculture Areas and Estimating Production based on High Resolution SAR Time Series	Würzburg	2019	Künzer, C. (1) Dech, S. (2)
Da Ponte Canova, E.	Assessment of Forest Cover Dynamics in Paraguay. A case study of the Upper Parana Atlantic Forest	Kiel	2018	Oppelt, N. (1) Künzer, C. (2)
Georg, I.	New spatial dimensions of global cityscapes: Concepts and spatial methods for delineation	Salzburg	2018	Blaschke, T. (1) Taubenböck, H. (2)
Knauer, K.	Vegetation Dynamics in West Africa. Spatio-temporal Data Fusion for the Monitoring of Agricultural Expansion	Würzburg	2018	Künzer, C. (1) Conrad, C. (2)
Leutner, B.	Space for Communities: Quantifying Data Requirements for Remote Sensing Based Habitat Modeling	Würzburg	2018	Dech, S. (1) Müller, J. (2)
Liuzzi, M.	Integration of Field Surveys and Remote Sensing Techniques for Seismic Vulnerability Assessment: Methods and Applications to the Val d'Agri Area (Southern Italy)	Basilicata, Italy	2018	Masi, A. (1) Tramutoli, V. (2)
Nguyen, B. D.	Exploring SAR time series for the analyses of seasonality patterns	Wien (TU)	2018	Wagner, W. (1) Künzer, C. (2)

Name	Title	University	Year	Reviewers
Wohlfahrt, C.	The Yellow River Basin in Transition - Multi-faceted Land Cover Change Analysis in the Yellow River Basin in the Context of Global Change Using Multi-sensor Remote Sensing Imagery	Würzburg	2018	Künzer, C. (1) Conrad, C. (2)
Shi, L.	Analysis on the spatial pattern of Chinese urban lands and its development potential	Peking	2017	N.N. (1) N.N. (2)
Wei, C.	Quantifying urban growth and urban agglomeration in multi-scale areas	Salzburg	2017	Blaschke, T. (1) Taubenböck, H. (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)
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)
Ullmann, T.	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)
Walz, Y.	Remote sensing for disease risk profiling: a spatial analysis of schistosomiasis in West Africa	Würzburg	2015	Dech, S. (1) Utzinger, J. (2)
Asam, S.	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)

Name	Title	University	Year	Reviewers
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) Künzer, C. (2)
Löw, F.	Agricultural crop mapping from multi-scale remote sensing data. Concepts and applications in heterogeneous Middle Asian agricultural landscapes	Würzburg	2014	Conrad, C. (1) Michel, U. (2)
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	Conrad, C. (1) Dech, S. (2)
Fritsch, S.	Regional crop growth modeling and yield prediction by utilization of remote sensing and production efficiency models	Würzburg	2013	Conrad, C. (1) 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)
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) Künzer, 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, S.	Large-scale natural hazard risk modelling with earth observation data	HS München	Ongoing	M
Bartek, K.	Optimization of a deep-learning-based processor for detecting burned areas in Sentinel-2 data	TU München	Ongoing	M
Baumgartner, F.	The potential of Sentinel-2 time series for yield estimation of a perennial wild plant mixture using machine learning	Würzburg	Ongoing	M
Braun, B.	Untersuchung der Variabilität des Airglow auf kurzen und langen Zeitskalen mit Hilfe verschiedener Airglowinstrumente	Augsburg	Ongoing	M
Cassaccia, C. (& Salinas, S.)	Impact of local governments on the Paraguayan Chaco forest (1986-2020)	Universidad Nacional de Asunción, Paraguay	Ongoing	B
<i>Chiluisa, A.B.V.</i>	Spatio-temporal patterns of urban expansion among biomes in Ecuador using LULC data from 1990-2018.	Würzburg	Ongoing	M
Fisser, H.	Erfassung von Verkehrsaktivitätsmustern zur Ableitung von Verkehrsdichte und Emissionsfaktoren	Würzburg	Ongoing	M
Groth, S.	Deep multi-task learning for building characterization with street-level imagery	Würzburg	Ongoing	M
Halbgewachs, M.	Deforestation and forest fragmentation in Mato Grosso, Brazil	Würzburg	Ongoing	M
Krise, J.	Damage assessment in very high resolution optical satellite imagery	TU München	Ongoing	M
Lappe, R.	Coastline change derivation and analyses for Vietnam	Würzburg	Ongoing	M
Linder, M.	Quantifizierung der Änderung stationärer und laufender Anteile der planetaren Wellen-Aktivität vor dem Hintergrund des Klimawandels	Augsburg	Ongoing	B
Luna Arevalo, F.	Estimation of Telluric Movements in High Consequence Areas of the Galeras Volcano (Colombia) Using Radar Images and Differential Interferometry Techniques	University of Applied Sciences Stuttgart	Ongoing	M
Mast, J.	Analysing the relationship between urban morphology and economic subcenters	Würzburg	Ongoing	M
Mix, V.	Kartierung und Klassifizierung von Gletscherzonen und deren Veränderung aus TerraSAR-X und optischen Sentinel 2 Daten von Manson Icefield, Ellesmere Island (Kanada), zwischen 2017 und 2020	University of Applied Sciences Munich	Ongoing	B
Peschke, S.	Analyse des Einflusses des meridionalen Temperaturgradienten an der Änderung der planetaren Wellenaktivität vor dem Hintergrund des Klimawandels	Augsburg	Ongoing	B
Robbany, I.	Identification and Analysis of Tsunamigenic Volcanoes in Indonesia using Satellite-based Earth Observation Data	Hamburg	Ongoing	M

Name	Subject	University	Year	D/M/B
Salinas, S.	Impact of local governments on the Paraguayan Chaco forest (1986-2020)	Universidad Nacional de Asunción, Paraguay	Ongoing	B
Schultheiss, M.	Noise Emission Approximation through Open Geospatial Data	Feiburg	Ongoing	M
Seiche, A.	Auswirkungen morphologische und funktionale Merkmale deutscher Innenstädte auf die Vitalität der Innenstädte	Bonn	Ongoing	B
Spieß, T.	Intra-Urban land-use gradients	Graz	Ongoing	M
Sternberg, T.	Evaluierung des Nutzens von Fernerkundungsdaten zur Bereitstellung von Windkraft- und Kohlekraftwerksparametern für die Energiesystemmodellierung	Magdeburg	Ongoing	M
Trinkl, F.	Charakterisierung von Zonen erhöhter atmosphärischer Instabilität durch Brechen planetarer Wellen als potentielle Quellregion von Schwerewellen	Augsburg	Ongoing	B
Tubbesing, R.	Detailed landslide exposure analysis based on a building extraction with deep neural networks in Medellín, Columbia	Graz, AT	Ongoing	M
Welscher, A.	Analyse von Turbulenz im Airglow-Imager-Daten mithilfe künstlicher Intelligenz	Augsburg	Ongoing	B
Worbis, S.	Morphologische Kategorisierung von Flüchtlingslager	HS München	Ongoing	B
Zehner, M.	Characterization of individual urban trees using combinations of VHR remote sensing and auxiliary data	Würzburg	Ongoing	M
Hauser, S.	Study of Axel Heiberg glacier using remote sensing	Jade Univ. of Applied Sci.	2021	M
Helleis, M.	Water Mapping Using Synthetic Aperture Radar Data and Convolutional Neural Networks	TU München	2021	M
Sogno, P.	Earth Observation for Exposome Mapping - Proof of Concept and Case Study in Augsburg, Germany	Würzburg	2021	M
Abu, I.-O.	Detection of Cocoa Plantages in complex forest landscapesCocoa mapping in West Africa	Würzburg	2020	M
Adelware, O.	Application of Remote Sensing Techniques to detect historical landslides for improving risk assessment in Antioquia, Colombia	Würzburg	2020	M
Ahlswede, S.	Optimization of Convolutional Neural Networks for Hedgerow Object Detection in Very High-Resolution Satellite Images	Trier	2020	M
Ahmed, F.	Agricultural Landscape configuration and pattern analysis with VHR Imagery in Bavaria	Würzburg	2020	M
Beck, L.	Multi-Annual Flood Mapping using Multi-Sensor Satellite Data in the Ilishana Sub-Basin (Namibia/Angola)	Würzburg	2020	B
Blerch, M.	Validation of global urban density products with very high resolution imagery	Heidelberg	2020	M
Bruno-Gaston, E.	Effects of lake ice on the detection of surface water from medium-spatial-resolution satellite data	München TU	2020	M

Name	Subject	University	Year	D/M/B
Brzoska, E.	Multioutput Regression für die Interpretation von Erdbeobachtungsdaten	Heidelberg	2020	M
<i>Buchelt, S.</i>	Mapping High-Resolution Spatio-Temporal Patterns of Snowmelt using Orthorectified Photo Cameras & Sentinel-1 Time Series Data	Würzburg	2020	M
Cevallos, G.	Deep Learning for detecting local urban green in German cities	München (HS)	2020	B
Chepkirui Rono, D.	Extraction of 3D building information from DSM and use for population disaggregation.	Stuttgart (HfT)	2020	M
<i>Chamani, N.</i>	Investigation on the intra-annual variations of the relationship between Landsat 8-derived LST and spectral indices in West Africa	Würzburg	2020	M
Chow, H.	Analysis of Large-scale Atmospheric Gravity Waves as observed in Keograms of OH-Airglow Images	Augsburg	2020	M
Donike, S.	Using Machine Learning to derive Soil Information from Soil Reflectance Composites (SCMaP)	Köln	2020	B
Erdmann, A.-L.	Feldfruchtklassifikation mit Sentinel-1 und Sentinel-2 Daten für die Jahre 2017 bis 2019 und Detektion von sortenspezifischen Anomalien in der Region Turkistan, Kasachstan.	Tübingen	2020	B
Garbasevski, O.	Machine Learning for the prediction of building ages	Delft, TU (Netherlands)	2020	M
<i>Glasmann, F.</i>	Potential of the Firebird Mission for the Detection of Gas-flaring Activity	Würzburg	2020	M
<i>Gnann, N.</i>	Plastic waste detection assisted by artificial intelligence	Würzburg	2020	M
Hanika, P.	Monitoring der deutschlandweiten Landbedeckung mittels hochauflösender Sentinel-2 Satellitenbilddaten	München (HS)	2020	B
<i>Hasenbein, K.</i>	The potential of time-series data to improve fine scale mapping of land use in heterogeneous landscapes	Würzburg	2020	M
He, Y.	Interaction Between Urban Densification and Green Spaces Using Multi-Temporal Sentinel Imagery – A Case Study of Munich	München (TU)	2020	M
Hertrich, M.	Aufbereitung, Analyse und Vergleich von digitalen Geländemodellen auf unterschiedlichen Detailebenen	München (LMU)	2020	B
<i>Lee, B. C.</i>	Development of a semi-analytical model for seagrass mapping using cloud-based computing and open sourced optical satellite-data	Würzburg	2020	M
<i>Klein, R.</i>	The Water Use Efficiency Monitor in Central Asia (WUEMoCA) as a tool for supporting water management in the Aral Sea Basin	Würzburg	2020	B
<i>Kluter, P.</i>	Deep Learning Approach to Ship Detection and Classification Using Synthetic Aperture Radar Data	Würzburg	2020	M
<i>Kurtenbach, M.</i>	Erfassung und Analyse der oberflächennahen Bodenfeuchte und deren Dynamik im agrarisch geprägten Süden Italiens mit fernerkundlichen Daten und Methodiken	Würzburg	2020	M

Name	Subject	University	Year	D/M/B
<i>Ojo, S. A.</i>	Application of Remote Sensing Techniques to detect historical landslides for improving risk assessment in Antioquia, Colombia	Würzburg	2020	M
<i>Orthofer, A.</i>	Deriving Leaf Area Index and mowing dates for grasslands based on the radiative transfer model SLC and Sentinel 2 data	Würzburg	2020	M
Priesmeier, P.	Benefits of Earth Observation for Exposure Modelling	Köln (HS)	2020	M
Rabuske, A.	Unsupervised domain adaptation with multiple source domains	Berlin (HU)	2020	B
Rieger, M.	Klassifikation und Kartierung des Devon Ice Cap für den Zeitraum 2017 bis 2020 mit Hilfe der TerraSAR-X SAR Daten	München (HS)	2020	B
<i>Rieser, J.</i>	Multi-temporal analysis of biological soil crusts and their activity in response to rainfall using optical spectra in Lieberoser Heath, Brandenburg, Germany	Würzburg	2020	B
Roth, F.	Reference Water Mapping based on Sentinel-1 and -2	Wien	2020	M
Ruckriegel, S.	Lichtemissionen in Deutschland	München (HS)	2020	B
Soltani, S.	Spatio-temporal Analysis of Urbanization caused by the New Silk Road	Würzburg	2020	M
<i>Steiner, S.</i>	Assessing the Potential of a Land Cover Dependent Snow Cover Detection Algorithm for the Global SnowPack	Würzburg	2020	M
<i>Stumpf, L.</i>	Risikoanalyse des Radwegenetzes der Stadt Würzburg - Eine Fallstudie für den Stadtteil Frauenland	Würzburg	2020	B
<i>Taghavi, A.</i>	Potentials of cosmic-ray neutron probes for assessing and mapping SAR-based soil moisture in a Mediterranean forestry ecosystem	Würzburg	2020	M
<i>Thompson, K.</i>	Estimating the cost of turbidity and sediment impairments on bridge infrastructure	Bayreuth	2020	M
Till, J.	Orographische Schwerewellen im Alpenraum: Fallstudien zur Ausbreitung in der mittleren Atmosphäre	Augsburg	2020	M
<i>Turulski, K.</i>	Ableitung hyperspektraler Indices zur Bewertung von Trockenstress unter Verwendung von HySpeX Daten	Würzburg	2020	B
<i>Wagner, L.</i>	Analysis of NDVI time series in irrigated areas in Burkina Faso	Würzburg	2020	B
<i>Wang, M.</i>	Comparison of Surface Urban Heat Islands Using the World Settlement Footprint Imperviousness Layer	Würzburg	2020	M
Abdipourchenares tansofla, M.	Efficient sparse signal recovery of remote sensing data: a classification method for hyperspectral image data	Neubrandenburg (HS)	2019	M
Alkhalaf, B.	Damage detection in urban areas via Sentinel-1 imagery	Stuttgart (HfT)	2019	M
Almanstötter, M.	Development of a method for data analysis of atmospheric planetary waves combining harmonic Analysis and Hough functions	Augsburg	2019	M

Name	Subject	University	Year	D/M/B
Barkmann, H.	Generierung von Reports über den Zustand und die Zuverlässigkeit automatischer Datenprozessierungssysteme von Fernerkundungsdaten.	Darmstadt (HS)	2019	M
<i>Baron von Freytag-Loringhoven, L.</i>	Remote sensing of water quality using Sentinel-2 towards a potential separation of Cyanobacteria blooms from other Algae	Würzburg	2019	M
Bauer, A.	Classification of supraglacial lakes on the Baltoro Glacier (Pakistan) using Sentinel-2 and Landsat-8 Data from 2016 to 2018 with the help of NDWI	München (HS)	2019	B
Bauer, S.	Automated Morphological Characterization of Urban Areas - Estimating Built-up Height and Density from TanDEM-X and Sentinel-2A Data	München (HS)	2019	B
Blocksdorf, A.	Development of an Automatic Process Chain for Estimating Post-fire Soil Erosion Susceptibility	Eichstätt-Ingolstadt	2019	M
Bosmediano Chiquin, F.	Gebäudetypenklassifizierung mit neuartigem Multi-Klassifikator-Verfahren zur Schadensabschätzung im Erdbebenfall	Stuttgart (HfT)	2019	M
Chang, Y. K.	Investigation of Change Detection using Sentinel-1 Data for Identifying Illegal Occupations Upon Government Land in Hong Kong	Stuttgart (HfT)	2019	M
Chun, S.	Assessing the Potential of Earth Observation Data to Differentiate Between Burned Area and Harvested Agricultural Land	Trier	2019	M
Debray, H.	Analyze of the Relation between Cultural Areas and Urban Morphologies through remote sensing / Analyse des liens entre cultures et formes urbaines par utilisation de télédétection	Paris, France	2019	M
<i>Dhillon, M.S.</i>	Comparing the performance of crop growth models using synthetic remote sensing data at DEMMIN, Germany	Würzburg	2019	M
Diehl, F.	Windfarm detection based on Sentinel-1 imagery and deep learning techniques	Trier	2019	M
Droin, A.	Semantic labelling of building types A comparison of two approaches using Random Forest and Deep Learning	Graz	2019	M
Füstring, J.	Konzeptionierung einer App zur Reduktion von Messkosten und subjektiven Fehlereinflüssen für die Validierung von Fernerkundungsdaten	Stralsund (HS)	2019	M
Glawion, L.	Einfluss des Hale-Zyklus auf die Aktivität planetarer Wellen	Augsburg	2019	B
Gorzawski, L.	Linking remote sensing and telemetry data for analysing landcover composition and effective habitat use of white storks at overnight and stopover sites during migration	München (HS)	2019	B
Groll, M.	Deep learning for Instance Segmentation of bomb craters on historical aerial images of the Second World War	Würzburg	2019	M

Name	Subject	University	Year	D/M/B
Gstaiger, V.	3D Informationen aus Fernerkundungsdaten für den Bevölkerungsschutz - Nutzungsmöglichkeiten am Beispiel zweier Großveranstaltungen	Bonn	2019	M
Hendel, A.-L.	Effects of rain-on-snow and basal ice on seasonal NDVI in High Arctic Svalbard: a multi-scale approach	Bayreuth	2019	M
Hilt, C.	Landnutzungs- und Landbedeckungsveränderung im Biosphärengebiet Schwäbische Alb	Tübingen	2019	B
Hüffer, V.	Modeling habitat suitability and outbreak potential of the italian locust <i>Calliptamus italicus</i> in Pavlodar Region, Kazakhstan based on remote sensing	Trier	2019	M
Knopp, L.	Development of a burned area processor based on Sentinel-2 data using deep learning	München (TUM)	2019	M
Knorrscheidt, S.	Landnutzung in der Metropole Lagos	Tübingen	2019	B
Kühnl, M.	Derivation of urban mass concentrations from TanDEM-X data for the analysis of polycentric urban structures in the USA and Germany	München (LMU)	2019	M
Lange, A.	Hierarchische Aggregation der LoD-1-Gebäudefunktionen von Deutschland	Wien, Austria	2019	B
Lanzenberger, T.	Detektion und Kartierung von Lawinenabgängen mit Hilfe von Differenzbildern aus TerraSAR-X Daten	München (HS)	2019	B
Laux, D.	Einfluss planetarer Wellen auf Auftreten und Häufigkeit von Extremtemperaturereignissen in der unteren Atmosphäre der mittleren Breiten	Augsburg	2019	M
Marzinke, T.	Risikomanagement: Wildfeuer im Nordwesten Tunesiens	Neubrandenburg (HS)	2019	B
Mengen, D.	Modelling River Discharge using Automated Riverwidth Measurements derived from Sentinel-1 Timeseries within the Mekong Catchment	Köln (HS)	2019	M
Meßner, F.	Berechnung stadtstruktureller Parameter anhand einer objektorientierten Landbedeckungsklassifizierung aus Luftbilddaten der Landeshauptstadt München	Anhalt (HS)	2019	M
Miah, J.	Detecting and Assessing Ground Subsidence of Dhaka City, Bangladesh, Using Synthetic Aperture Radar Data of Sentinel-1	Würzburg	2019	M
Mönks, M.	Building facade segmentation of oblique aerial images using convolutional neural networks for urban climate modeling	Greifswald	2019	M
Nolting, S.	Risk Assessment for Flood Events based on Geo- and Socioeconomic Data - A Case Study for North-Rhine Westphalia, Germany	Würzburg	2019	M
Osterkamp, N.	Fernerkundliche Erfassung von städtischen Grünflächen – ein systematischer Vergleich mit Regressionsgleichungen	Bochum	2019	M

Name	Subject	University	Year	D/M/B
<i>Phillip, M.</i>	Potential of harmonic analysis using remote sensing data for studying the effects of climate change induced weather extreme events on forest ecosystems	Würzburg	2019	M
<i>Pinillios, P.</i>	Flooding patterns and vegetation development in the Orinoco flooded savannas of Colombia	Würzburg	2019	M
<i>Pertiwi, A.</i>	TanDEM-X and TerraSAR-X based Spüiring Flood Simulation on the Lena Delta, Siberia	München (TUM)	2019	M
<i>Ramirez, A. F.</i>	Estimating ground-level PM10 in Stuttgart using aerosol optical depth derived from Sentinel data	Stuttgart (HfT)	2019	M
<i>Rau, A. / Bornebusch, T.</i>	Arrival City – Formen des Andockens und ihre Wechselwirkungen	München (TUM)	2019	M
<i>Reiners, P.</i>	Multi-annual assessment of a new consistent AVHRR Land Surface Temperature product using MODIS LST and in situ measurements	Marburg	2019	M
<i>Reiter, M.</i>	Comparing Urban Green Spaces in German Cities Using Remote Sensing Data	Würzburg	2019	M
<i>Renkel, J.</i>	Vergleich phänologischer Kartieransätze auf der Basis terrestrischer und satellitenbasierter Modellsysteme	Würzburg	2019	B
<i>Rörsch, S.</i>	Development of a semi-automated method to measure solar potential	Würzburg	2019	M
<i>Saadallah, A.</i>	The Potential of Earth Observation for Monitoring Agricultural Lands in Egypt (1984-2017)	Würzburg	2019	M
<i>Sauerbrey, J.</i>	Integration of SAR and Optical Satellite Imagery: Time-Series Analysis of Sentinel-1 and Sentinel-2 Imagery for Detection of Active Morphodynamics: A Case Study in the Atacama Desert, Chile	Würzburg	2019	M
<i>Schneider, F.</i>	Entwicklung der Ansteuerung eines schwenkbaren Spiegelsystems für die Erkennung von Tsunamisignaturen im oH-Airglow	Augsburg	2019	B
<i>Schubert, M.</i>	Forest Monitoring in the biosphere reserve Schwäbische Alb	Tübingen	2019	M
<i>Seibold, D.</i>	Untersuchung verschiedener OH- und O2-Airglowmessungen hinsichtlich ihrer Eignung für das Studium der atmosphärischen Dynamik in der Mesopausenregion	Augsburg	2019	M
<i>Selbmann, A.-K.</i>	Spatial patterns of wildfire severity and vegetation in the Yokon-Kuskokwim-Delta, Alaska	Bayreuth	2019	M
<i>Selvaraj, B.</i>	Assessing the development of circle irrigation in South Africa since 2000	Würzburg	2019	M
<i>Soto Calderón, A.</i>	Earthquake loss modelling in Chile with earth observation and statistical data	München (TUM)	2019	M
<i>Thalhofer, M.</i>	The Role of Planetary Wave Activity for Sudden Stratospheric Warmings with Special Focus on the Major Warming in 2017/2018	Augsburg	2019	B

Name	Subject	University	Year	D/M/B
<i>Wachter, J.</i>	Fernerkundungsbasierte Untersuchung der Auswirkungen eines Dammbbruchs auf die Vegetation - eine Schadensanalyse am Beispiel Brumadinho, Brasilien mit Sentinel-2-Zeitreihen	Würzburg	2019	B
Weusthoff, M.	Großwohnsiedlung Scharnhorst-Ost: Blick von unten und Blick von oben.	Dortmund	2019	B
<i>Wiertz, K.</i>	Development of a semi-automatic remote sensing approach for change-detection of forest structures in Bialowieza Forest	Würzburg	2019	M
<i>Witt, M.</i>	Analyse der Sensitivität verschiedener fernerkundlicher Datensätze und Methoden zur Kartierung unterschiedlicher Waldveränderung	Würzburg	2019	B
Atieku-Dzandu, B.	Understanding the Impact of Urbanization of Land-use using TimeScan and Global Urban Footprint Dataset - A Case Study for the Greater Accra Region, Ghana	Stuttgart (HFT)	2018	M
Basdas, K.	Globaler Vergleich von Versiegelungsgraden urbaner Agglomerationen	München (HS)	2018	B
Bauer, A.	Klassifizierung der Seen auf dem Baltoro-Gletscher mithilfe von Sentinel-2 und Landsat-8 Daten im Zeitraum 2016 bis 2018	München (HS)	2018	B
Bauer, A.	Soil Repository – Determination of Thresholds for the Detection of Active Soils from Landsat Time Series	Ebertswalde (HS)	2018	M
<i>Baumgartner, F.</i>	Objektorientierte Erstellung eines digitalen Friedhofsplans mittels hochauflösender Drohnen-Luftbilder: Eine Fallstudie für die Gemeinde Kürnach	Würzburg	2018	B
<i>Bhagwat, T.</i>	Bird's Eye View: Using bird migration patterns for land-cover classifications	Bayreuth	2018	M
Biebel, M.	Untersuchung des Zusammenhangs zwischen dem Hurrikan Ophelia und Schwerewellen im Airglow über Oberpfaffenhofen	Augsburg	2018	D
Borngräber, S.	Eignung von Fernerkundungsdaten zur Ableitung des flächendeckenden Wärmebedarfs von Wohngebäuden in Baden – Württemberg	Tübingen	2018	M
Bosmediano, F.	Ensemble Learning Techniques for Building Type Classification	Stuttgart (HS)	2018	M
Cerri, M.	Multivariable flood damage modelling for residential buildings using open data with random forests	München (TUM)	2018	M
<i>Dahle, F.</i>	Räumliche Analyse von Siedlungsstrukturen und sozio-ökonomische Parameter für Europa	Würzburg	2018	B
Dinh Dieu, A.	Spatio-temporal analysis of flood patterns in the Mekong Delta based on satellite data time series"	Faro, Portugal	2018	M
Füstring, J.	Bewertung des Einflusses von Wind auf das Trackingverhalten eines Parabolantennensystems	Stralsund (HOST)	2018	B
Gstaiger, V.	3D-Informationen aus Fernerkundungsdaten für den Bevölkerungsschutz - Nutzungsmöglichkeiten am Beispiel zweier Großveranstaltungen	Bonn	2018	M

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Gutwinski, M.	Entwicklung und Analyse eines Informationssystems urbaner hyperspektraler Bildspektren	Bochum	2018	M
Huang, R.	Geo-Information extraction from Tweets	Tübingen	2018	M
Kupfer, N.	A novel land use and land cover product for the Mekong Delta based on high spatial resolution, satellite data time series	Heidelberg	2018	M
Lange, A.	Erfassung und Analyse von Grünflächen auf Basis optischer Satellitenbilddaten für ausgewählte Städte in Deutschland	Wien	2018	B
Liu, C.	Assessment of Chinese Typhoon Disaster Situation Based on VGI	München (TUM)	2018	M
Martini, M.	Automated three detection: applications for object-based image analysis in arid systems	Bayreuth	2018	M
Mast, J.	Analyse und Vergleich der Oberflächenstruktur von Gemeinden in Nordrhein-Westfalen anhand des Local-Climate Zone Konzeptes	Hannover	2018	B
Mc Kenna, A.	Analysis of potential habitats for the species red deer (<i>Cervus elaphus</i>) in Mecklenburg Vorpommern	Eberswalde (HS), Warsaw University of Life Science	2018	M
Miesgang, C.	Evaluierung, Kalibrierung und Validierung eines Algorithmus zur Detektion von Brandflächen mit Sentinel-3 OLCI Daten auf Basis der Active Level Set Methode	München (LMU)	2018	M
Paulik, F.	Supervised Machine Learning for Spectral Classification using Hyperspectral Images of Semi-Arid Regions	München (LMU)	2018	M
Reinermann, S.	Extreme Events in Europe between 2000 and 2017: Analysis of Vegetation Dynamics based on Earth Observation Time Series	Bayreuth	2018	M
Schiller, C.	Analyse und Anwendung von terrestrischen und satellitengestützten Umweltdaten in der Landwirtschaft	Potsdam	2018	M
Schork, K.	Ableitung der Schneeflächen aus einer Kombination von Sentinel-1 und Sentinel-2 in drei Untersuchungsgebieten	Augsburg	2018	M
Schrade, H.	Machine Learning-based Regression for Characterization of Urban Environments with Sentinel-2	Augsburg	2018	M
Schwalb-Willmann, J.	A deep learning movement prediction framework for identifying anomalies in animal-environment interactions	Würzburg	2018	M
Shakya, H.	Computing flood frequency and Duration from Earth Observation data	München (TUM)	2018	M
Sill, S.	GIS-gestützte Analyse von Klimatopen in der Stadt Tübingen - Auf Basis der Oberflächentemperaturen aus ASTER-Thermalkarten	Tübingen	2018	B
Sokolovska, A.	Optimization of Payload Data Downlink Strategy for EO Missions Using Ka-band Downlink Technology	München (TUM)	2018	M

Name	Subject	University	Year	D/M/B
Stark, T.	Using Deep Convolutional Neural Networks for the Identification of Informal Settlements to Improve a Sustainable Development in Urban Environments	München (TUM)	2018	M
Steffen, J.	Analyse der Lage der Wellenfronten eines tsunamiinduzierten Infraschallereignisses vor der Küste Chiles in der Mesopausenregion	Augsburg	2018	B
Stiller, D.	Analysing Spatio-temporal Patterns of Coastal Aquaculture Based on Three Decades of Satellite Data	Bayreuth	2018	M
Talapatra, M.	Modelling Population Distribution using Global Urban Footprint (GUF) and VHR SAR Imagery for Java, Indonesia	Stuttgart (HS)	2018	M
Wagner, L.	Feasibility study of a dashboard for extended monitoring of system components in the German satellite data archive	Fulda (HS)	2018	B
Weber, M.	Räumliche Vorhersage verschiedener Vogelarten mit Hilfe der Fernerkundung	Würzburg	2018	B
Yavsan, Z.	Spektral aufgelöste Analyse der Aktivität von atmosphärischen Schwerewellen in der Mesopause an verschiedenen geographischen Breiten	Augsburg	2018	B
Zehner, M.	Detection of impervious soil area in multispectral remote sensing - a comparison	Würzburg	2018	B
Anarbekov, B.	Irrigated crop maps through remote sensing data for better water management in "Quva Orta Buz Anori" water consumers association level in Fergana valley	German-Kazakh University, Almaty, Kazakhstan	2017	M
Baumhoer, C.	An automated approach to estimate large-scale flood volumes based on SAR satellite imagery and different DEMs - a risk management support	Bonn	2017	M
Biber, M.	Can animal movement and remote sensing data help to improve conservation efforts? A case study on plains and Grevy's zebras	Bayreuth	2017	M
Binning, J.	Entwicklung eines räumlich-dynamischen Ansatzes zur fernerkundungsbasierten Modellierung der tatsächlichen Evapotranspiration von Bewässerungsregionen im Aralseebecken	Würzburg	2017	M
Blickensdörfer, L.	Improving Classification of Very-High-Resolution Satellite Imagery – Combining Invariant Support Vector Machines and Object-Based Image Analysis to Tackle Limited Information Input.	Heidelberg	2017	B
Borngräber, S.	Erdbeobachtungspotential im Kontext von kommunalen Wärmeplänen	Tübingen	2017	M
Brandl, V.	Evaluierung von Sentinel-3-Daten für die Zwecke der Landbedeckungsklassifikation	Würzburg	2017	B
Cwik, K.	Flood mapping with the Sentinel-1 time-series data in arid areas	München (TU)	2017	M

Name	Subject	University	Year	D/M/B
Deck, R.	The Potential of Open Geodata and Multi-Temporal Landsat Data for Automated Large-Scale Land Use and Land Cover Classification	Augsburg	2017	M
Devi Eswaramoorthy, V.	Increasing the Statistical Significance for MODIS Active Fire Hotspots in Portugal Using One-Class Support Vector Machines	München (TU)	2017	M
Färber, V.	Analysing drought severity in Ethiopia using high resolution optical satellite data	Innsbruck	2017	M
Fetik, Y.	Supervised machine learning of fullcube hyperspectral data	Salzburg	2017	M
Glaser, P.	Random-Forest-Klassifikation agrarischer Landnutzungsflächen mithilfe von Sentinel-1-Daten am Beispiel östliches Harvorland	Würzburg	2017	B
Hammer, L.	Erklärung räumlichen Verhaltens von Störchen mittels Fernerkundung	Würzburg	2017	B
Hintermaier, S.	Rekonstruktion von Bodenradar-Daten des Vernagtferners aus multifrequenten SAR-Aufnahmen	München (HS)	2017	B
Kalusche, E.	Ableitung zeitlich und räumlich variabler Emissionsfaktoren für den Raum München und Augsburg aus realistischen Verkehrsdichten	Augsburg	2017	M
Karg, S.	Burn scar detection using polarimetric ALOS-2 time-series data	Bayreuth	2017	M
Kühnlenz, S.	Beitrag zur Ermittlung des Bodensignals zur verbesserten Ableitung des Vegetationssignals aus Fernerkundungsdaten	Neubrandenburg	2017	M
Li, P.	Evaluation and improvement of a dual-channel method for detection and quantification of high-temperature events based on FireBIRD data	Stuttgart	2017	M
Macheleidt, L.	Census versus morphological slums derived from EO data - A spatial comparison of locations and structures for two megacities in Brazil	Kiel	2017	B
Maier, P.	Modellierung von Erntemengen für Hopfensorten in der Hallertau mittels Deep Learning Algorithmen auf Basis von Klima- und Satellitendaten	Würzburg	2017	M
Mittelstädt, L.	Untersuchung des Halbjahresgangs der Temperatur und Zusammenhang mit der Albedo	Augsburg	2017	M
Müller, I.	Exposition und Lage von Slums in Megastädten - eine Analyse mit Hilfe von Fernerkundung	Kiel	2017	M
Murawski, M.	Morphologie von Großwohnsiedlungen – Eine Strukturanalyse städtebaulicher Großwohnsiedlungen basierend auf räumlichen Daten	Kiel	2017	M
Palacios Lopez, D.	Multi-temporal Analysis of Sentinel-1 SAR Satellite Data for Post-Seismic Building Damage Assessment of the Mw.6.0 Earthquake in Italy	Stuttgart (HS)	2017	M
Phillip, M.	Spectral and spatial resolution of remote sensing data and its impact on classification processes. A case study of the Bavarian Steigerwald	Würzburg	2017	M

Name	Subject	University	Year	D/M/B
Reck, R.	Tree Species Classification in the Bavarian Forest National Park using Hyperspectral Remote Sensing and Site Specific Information	Augsburg	2017	M
Reuß, F.	Detection of favelas in Brazil using texture parameters and machine learning	Graz	2017	M
Rohde, A.	Satellitengestützte Analyse der Feinstaubkonzentration über Deutschland	Augsburg	2017	M
Roth, G.	Umsetzung eines MODIS-basierten Prozessors zur Detektion von Flutflächen in Python	München (LMU)	2017	B
Schrade, H.	Large-Area Morphologic Characterization of Urban Environments with Machine Learning Regression Algorithms Using Data of the TanDEM-X Mission and Sentinel-2	Augsburg	2017	M
Schulte, H.	Quantifying landcover change using remote sensing data in a transboundary protected area	Bayreuth	2017	M
Staab, J.	Applying Computer Vision for Monitoring Visitor Numbers – A Geographical Approach	Würzburg	2017	M
Steiner, S.	Sentinel-2 based Land Cover Inventory in Punjab, Pakistan	Würzburg	2017	
Thoma, M.	Cost-Sensitive Active Learning mit Fernerkundungsdaten zur Abschätzung der Gebäudevulnerabilität bei Hochwasser und Erdbeben	Hagen	2017	M
Von Uslar, J.	Der Einfluss stratifizierter Sampling Methoden auf multi-temporale, objektbasierte Random-Forest Klassifikation	Würzburg	2017	M
Weigand, M.	SAR Image Feature Analysis for Slum Detection in Megacities	Augsburg	2017	M
Winkler, K.	Assessment of agricultural drought over Africa and its relation to El Niño-Southern Oscillation using remote sensing-based time series	Tübingen	2017	M
Wittmann, C.	Aufbau eines Infrarotspektrometers zur Beobachtung verschiedener OH-Rotations-Vibrationsbanden in atmosphärischen Nachtleuchten	Augsburg	2017	M
Baumann, M.	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
Bolkart, M.	Mapping and Monitoring Locust Habitats in the Aral Sea Region based on Satellite Earth Observation Data	Würzburg	2016	M

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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>	Ernteabtragungsabschätzung von Winterweizen mittels hochauflösender spektraler Daten	Würzburg	2016	B
Eswaramoorthy, V.-D.	Increasing the Statistical Significance for MODIS Active Fire Hotspots in Portugal Using One-Class Support Vector Machines	München (TU)	2016	M
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
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
<i>Kuhn, J.</i>	Using very high resolution remote sensing imagery to assess crop diversity in the Fergana Valley, Uzbekistan	Würzburg	2016	M
Kühnl, M.	Räumliche Strukturen informeller Besiedlung in Europa	Augsburg	2016	B
<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

Name	Subject	University	Year	D/M/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
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

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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
Sostmann, H.	Vergleich unterschiedlicher statistischer Verfahren zur Ableitung biophysikalischer Parameter aus RapidEye Daten	Würzburg	2016	B
Stelzner, T.	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
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

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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
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

Name	Subject	University	Year	D/M/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 Kriseninformationssystems	München (HS)	2015	M
Pletziger, F.	Workflow zur Visualisierung von OpenStreetMap-Daten im Kontext Kriseninformationen	Bochum	2015	B
Rossi, M.	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
Sieg, T.	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
Staab, J.	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
Vollmuth, M.	Zusammenhänge der Schneedynamik und des Abflussverhaltens im Einzugsgebiet des Naryn - Statistische Betrachtungen und physiogeographische Erklärungen	Würzburg	2015	M
Wisböck, S.	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
Zellner, P.	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-Nachtlicht	Augsburg	2014	M
Hartmann, M.	Geoportale benutzerfreundlich gestalten: Design- und Usability-Empfehlungen für Geoportale unter Berücksichtigung unterschiedlicher Benutzergruppen	Pfungstadt (HS)	2014	M
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	Salzburg	2014	M

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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
Landkammer, S.	Statistische Ableitung von fPAR für Baumwolle in Zentralasien aus RepidEye-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
Ortmann, A.	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
Reger, A.	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
Rudloff, M.	Siedlungsflächenentwicklung im ländlichen Raum Usbekistans am Beispiel Khorezm	Würzburg	2014	M
Rudolph, A.	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

Name	Subject	University	Year	D/M/B
<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
<i>Starmanns, S.</i>	Spatial disaggregation of population data onto Urban Footprint data	Innsbruck	2014	M
<i>Stolle, A.</i>	Quantitativer Vergleich von Bildsegmentierungsverfahren als Grundlage für die semiautomatische Extrahierung von kleinräumigen Objekten im Kontext von Großveranstaltungen	Potsdam	2014	M
<i>Tsyganskaya V.</i>	Ableitung und Analyse von großflächigen Informationen zur urbanen Struktur mit Methoden der Fernerkundung	München (LMU)	2014	M
<i>Voinov, S.</i>	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
<i>Wildegger, M.</i>	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
<i>Aravena Pelizari, P.</i>	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
<i>Bettinger, M.</i>	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 Braunkohletagebauegebietes	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
<i>Broszeit, A.</i>	Kartierung bergbaubedingter Versauerungsprozesse mit Hilfe von WorldView-2 Daten - Untersuchung am Beispiel einer Altbergbauregion in der Provinz Mpumalanga, Südafrika	München (LMU)	2013	B

Name	Subject	University	Year	D/M/B
<i>Camerer, A.</i>	Fernerkundungsbasierte Bestimmung der Landnutzung zur Verbesserung der Wasserproduktivität in Punjab, Pakistan	Würzburg	2013	D
<i>Cao, W.</i>	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
<i>Hanrieder, B.</i>	Hochwasser in Thailand - Erstellung und Validierung von Flutmasken aus HR-/ VHR- Daten	München (TU)	2013	M
<i>Harsch, C.</i>	Modellierung der Spurengasemissionen von Punktquellen am Beispiel einer Mineralölraffinerie	Augsburg	2013	D
<i>Hartmann, A.</i>	Subpixelbasierte Landnutzungs- und Landbedeckungsklassifikation in Westafrika mit MODIS-Daten	München (LMU)	2013	M
<i>Hoffmann, A.</i>	Risiko- und Unsicherheitsanalyse hydrologischer Gefahren im Mittelmeerraum	München (LMU)	2013	D
<i>Huster, L.</i>	Analyse der regionalen und globalen Belastung mit troposphärischem Stickstoffdioxid anhand von Satellitendaten des GOME-2 Instruments	Augsburg	2013	B
<i>Hütten, L.</i>	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 Marine Protected Areas – a case study using Remote Sensing for the Cargos Archipelago	Bayreuth	2013	M
<i>Konetschny, C.</i>	Beobachtung der Landoberflächenveränderung durch das Auftauen des Permafrostbodens auf Herschel Island mit Hilfe von verschiedenen Radarzeitreihen des TerraSAR-X	München (LMU)	2013	B
<i>Lesko, L.</i>	Vergleich der räumlichen Entwicklung von Siedlungsmustern in ost- und westeuropäischen Städten basierend auf multitemporalen Fernerkundungsdaten	Eberswalde (FH)	2013	D
<i>Mancera Guevara, D.</i>	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

Name	Subject	University	Year	D/M/B
<i>Plum, C.</i>	Global Survey of Earth Observation for Biodiversity and Conservation	Bayreuth	2013	M
<i>Reichmuth, A.</i>	Detection of Forest Parameters using Imaging Spectroscopy	Dresden (HS)	2013	M
<i>Schack, J.</i>	Ableitung von Signalen laufender planetarer Wellen aus dem Dynamischen Aktivitätenindex (DAI) und Vergleich der mesosphärischen Aktivität planetarer Wellen	München (HS)	2013	B
<i>Schulz, J.</i>	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
<i>Warth, G.</i>	Automatische Hochwassererkennung anhand der Verwendung bistatischer Kohärenzdaten der TanDEM-X Mission	Tübingen	2013	MA
<i>Wegner, M.</i>	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
<i>Zellner, P.</i>	Optimierung regionaldifferenzierter Landnutzungsparameter für das hydrologische Modell ArcEGMO am Beispiel zweier Einzugsgebiete in Brandenburg	Würzburg	2013	B
<i>Zepp, S.</i>	Untersuchung der Variation der Mesopausentemperatur im Hinblick auf durch Erdbeben erzeugte Infraschallwellen	München (LMU)	2013	B

HS: Hochschule
HFT: Hochschule für Technik
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
Adriano, B.	11/2018	RIKEN Center for Advanced Intelligence, Tokyo, Japan	BMBF
<i>Ayanu, Y.</i>	08/2013	Universität Bayreuth	Universität Bayreuth
<i>Baatuuwie, B.</i>	07/2014	Kwame Nkrumah University of Science and Technology (KNUST), Kumasi, Ghana	WASCAL
Banks, S.	10/2012 – 03/2013	Carleton University, Ottawa, Canada	DLR
Barahonas Contreras, A.	10/2019	CENAT-PRIAS, San José, Costa Rica	MONEOWET
<i>Batsaikhan, A.</i>	01/2016 – 12/2018	Universität Würzburg	MICMoR-Stipendium
<i>Benewindé Zoungrana, J-B.</i>	03/2015 – 05/2015	KNUST, Kumasi (Ghana)	WASCAL
<i>Benewindé Zoungrana, J-B.</i>	09/2016 – 12/2016	KNUST, Kumasi (Ghana)	Uni-Wü Stipendium
Cian F.	01/2015 – 04/2015	University Ca' Foscari Venice Department of Economics Italy	University Ca' Foscari Venice
Cipriano, A.	05/2013 – 06/2013	Universidad Católica de Chile, Santiago, Chile	DAAD
Confuerto, P.	10/2014 – 05/2015	University Naples, Naples, Italy	University Neapel
<i>Coulibaly, M.</i>	04/2018 – 05/2018	KNUST, Kumasi (Ghana)	WASCAL
Da Cunda Fernandes L.	07/2015 – 08/2015	University of Alberta, Edmonton, Canada	University Alberta
<i>Danumah, J. H.</i>	12/2014 – 01/2015 04/2015 – 05/2015	KNUST, Kumasi (Ghana)	WASCAL
De Araujo Sousa, M.	09/2018 – 11/2018	Universidade Federal de Santa Maria – UFSM, Brasilien	Universidade Federal de Santa Maria
<i>Degen, A.</i>	10/2015 – 05/2016	Universität Bochum	WASCAL
<i>Degtyareva, O.</i>	11/2016 – 12/2016 06/2017 – 07/2017	Abu Nasr al-Farabi Al-Farabi Kazakh National University, Kazakhstan	LaVaCCA, VW-Stiftung
Di, X.	09/2016 – 05/2017	Shanghai Normal University, China	Shanghai Normal University

Name	Period	Home Institution	Funding
Dong, R.	09/2019 – 09/2022	University Wuhan, China	CSC
Du, X.	09/2016 – 10/2018	Institute of Remote Sensing and Digital Earth, Beijing, China	DAAD-CSC
Dunker, T.	03/2015 – 04/2015	University of Tromsø, Norway	Research Council of Norway
Ferraz, F.	09/2013 – 10/2013 03/2014 – 04/2014	Fado Consulting, South Africa	DAAD
Forkuor, G.	09/2011 – 06/2014	Universität Würzburg	Stipendium im WASCAL Projekt
Georg, I.	01/2016 – 12/2017	University Salzburg	None
Geuß, U.	11/2019 – 02/2020	Landesamt für Umwelt, Bayern, Deutschland	None
Gudadze, N.	02/2015 – 05/2015	E. Kharadze Abastumani Astrophysical Observatory at Ilia State University, Tbilisi, Georgia	Lelp Shota Rustaveli National Science Foundation, Tbilisi, Georgia
Heimhuber V.	06/2019 – 07/2019	University of New South Wales, Sydney, Australia (UNSW)	UNSW
Herbst, T.	08/2017 – 12/2018	Universität Heidelberg	Self financing
Hideomi, G.	09/2012 – 03/2013	Tohoku University, Sendai, Japan	Japan Society for the Promotion of Science (JSPS)
Hu, Z.	10/2016 – 10/2019	keine (vorher Uni Trier)	CSC
Irwin, K.	10/2016 – 11/2016	Queen's University, Kingston, Canada	Queen's University
Jafarijozani, H.	03/2015 – 09/2015	Universität Stuttgart	Self-financing
Kenjabaev, S.	11/2015 – 12/2015 09/2017 – 10/2017	SIC ICWC Tashkent, Uzbekistan	CAWa Auswärtiges Amt
Khare, S.	09/2015 – 11/2015	Indian Insitute of Technology (IIT) Roorkee, Indien	Scholarship from India
Khare, S.	06/2016 – 07/2016	Indian Insitute of Technology (IIT) Roorkee, Indien	DAAD
Kitapbayev, A.	07/2017	German-Kazakh-University, Almaty, Kazakhstan	CAWa, Auswärtiges Amt
Kleissl J.	09/2015 – 12/2015	University of California, San Diego, USA	University San Diego

Name	Period	Home Institution	Funding
Kumar, P. A.	07/2016 – 09/2016 03/2017 – 05/2018	Indian Institute of Space Science and Technology, India	BMBF Green Talent Humboldt Climate Protection Fellowships
Li, Y.	11/2016 – 01/2021	China Scholarship Council (CSC)	CSC
Liuzzi, M.	09/2016 – 12/2018	University of Basilicata, Italy	University of Basilicata, Italy
Mahmood, T.	07/2017 – 06/2020	Universität Würzburg	Higher Education Commission (HEC) Pakistan über DAAD
Mahmoud, M. I.	12/2014 – 06/2015	KNUST, Kumasi (Ghana)	WASCAL
Mensah, A.Y.	01/2018 – 03/2018 11/2018 – 12/2018	KNUST, Kumasi (Ghana)	WASCAL
Monsalve, M.	11/2018	Research Center for Integrated Disaster Risk Management (CIGIDEN), Pontificia Universidad Católica de Chile, Santiago de Chile	CIGIDEN
Moya, L.	11/2018	International Research Institute of Disaster Science Tokio	Tohoku University, Tokio, Japan
Naghavi, H.	08/2013 – 02/2014	Dept. of Forestry, Sari Agricultural and Natural Resources University, Mazandaran, Iran	University Mazandaran, Iran
Nyamekye, C.	01/2018 – 03/2018	KNUST, Kumasi (Ghana)	WASCAL
Pannicia, C.	04/2018 – 08/2018	Environmetrics Lab, Dep. Biosciences and Territory – DiBT, University of Molise	University of Molise
Salehi, S.	10/2015 – 12/2015	Geological Survey of Denmark and Greenland (GEUS) / Copenhagen University	GEUS
Sapena Moll, M.	09/2018 – 01/2019	Geological Survey of Denmark and Greenland (GEUS) / Copenhagen University	GEUS
Selvakumaran, S.	07/2017 – 09/2017 01/2018 – 03/2018	Cambridge University	Cambridge University
Shankar, S.	05/2015 – 06/2015	Anna University Chennai	DAAD
Shi, L.	09/2016 – 09/2017	Institute of Remote Sensing and Digital Earth, Beijing, China	National Science Foundation of China
Shi, L.	09/2018 – 02/2020	University Nanjing, China	University Nanjing, China

Name	Period	Home Institution	Funding
Shi, Y.	10/2017 – 03/2018	University Twente, The Netherlands	China Scholarship Council
<i>Simon, S.</i>	07/2017 – 08/2017	Federal University of Technology, Minna, Nigeria	WASCAL
Song, Z.	11/2013 – 11/2014	China University of Mining and Technology, Beijing, China	National Science Foundation of China
Stettner, S.	02/2015 – 03/2015	Alfred Wegener Institute	AWI
Strano, E.	06/2013 – 07/2013	Geographic Information Systems Laboratory, Lausanne, Switzerland	Geographic Information Systems Laboratory, Lausanne, Switzerland
Strano E.	06/2016 – 12/2017	Massachusetts Institute of Technology (MIT), Boston, USA	Swiss National Science Foundation
<i>Sultanov, M.</i>	10/2015 – 12/2015 10/2016 – 12/2016	Khorezm Rural Advisory Support Service (KRASS), Urgench, Uzbekistan	LaVaCCA, VW-Stiftung
Sun, Z.	06/2013 – 12/2013	Institute of Remote Sensing and Digital Earth, Beijing, China	DAAD
Toshpulatov, R.	04/2016 – 05/2016	Scientific-Information Center of the Interstate Coordination Water Commission of the Central Asia (SIC ICWC), Tashkent, Uzbekistan	CAWa, Auswärtiges Amt
Tsyganskaya, V.	12/2014 – 11/2017	LMU München	LMU München
Yang, B.	06/2013 – 09/2013	Hunan Normal University, Hunan, China	DAAD
<i>Yu, S.</i>	10/2019 – 10/2020	Institute of Remote Sensing and Digital Earth, Beijing, China	China Scholarship Council
<i>Xu, D.</i>	10/2016 – 09/2017	Shanghai Normal University	SNU Stipendium
<i>Zaitov, S.</i>	04/2016 – 06/2016 06/2018 12/2018	Scientific-Information Center of the Interstate Coordination Water Commission of the Central Asia (SIC ICWC), Tashkent, Uzbekistan	CAWa, Auswärtiges Amt
<i>Zhao, J.</i>	11/2019 – 11/2020	University Wuhan, China	???
<i>Zhiyenbek, A.</i>	06/2018 – 07/2018	German-Kazakh-University, Almaty, Kazakhstan	CAWa, Auswärtiges Amt

Professional Leaves

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

Staff Member	Institution	Period	Funding
Aravena Pelizari, P.	Research Center for Integrated Disaster Risk Management (CIGIDEN), Pontificia Universidad Católica de Chile, Santiago de Chile	12/2018	
Conrad, C.	Universität Halle, Institut für Geowissenschaften und Geologie, Fachgebiet Geoökologie und physische Geographie	10/2017 – 09/2019	Universität Halle
Geiß, C.	University of Cambridge	09/2017 – 02/2018	DLR/HGF
Killius, N.	Mines Paristech, Department Observations, Impacts, Énergie (OIE), Sophia-Antipolis, France	10/2015 – 12/2015	ESA
Molch, K.	European Space Agency, European Space Research Institute (ESA-ESRIN), Italy	09/2014 – 01/2015	DLR, ESA
Molch, K.	European Commission, Directorate-General for Defence Industry and Space (DG DEFIS), Brussels, Belgium	05/2019 – 05/2021	DLR, European Commission
Nolde, M.	Instituto Nacional de Pesquisas Espaciais (INPE), São José dos Campos, Brasilien	10/2018	DLR
Riedlinger, T.	European Commission GMES Office, Seconded National Expert, Belgium	06/2011 – 08/2013	DLR
Roth, A.	Environment Canada, Canada	07/2013 – 10/2013	DLR
Schöckel, T.	Indonesian Agency for Meteorology, Climatology and Geophysics (BMKG) Jakarta, Indonesia	10/2010 – 03/2014	BMZ-CIM
Schöpfer, E.	Research Center for Integrated Disaster Risk Management (CIGIDEN), Pontificia Universidad Católica de Chile, Santiago de Chile	02/2019 – 05/2019	
Taubenböck, H.	London School of Economics, UK	07/2019 – 09/2019	DLR
Wendleder, A.	Environment Canada, Climate Research Division	11/2019 – 12/2019	DLR

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
27 Jan 2021	RIESGOS	Online conference	ca. 200
28 – 29 Oct 2020	DLR Humanitarian Technology Days	Online conference	ca. 100
3 – 7 Feb 2020	5th VAO-Symposium	Bern, Schweiz	ca. 50
21 – 24 Oct 2019	TerraSAR-X/TanDEM-X Science Team Meeting	Oberpfaffenhofen	ca. 200
19 – 21 Feb 2019	Big Data from Space	München	ca. 650
6 – 7 Feb 2019	DLR – Humanitarian Technology Days 2019	Oberpfaffenhofen	ca. 100
22 – 25 Oct 2018	CEOS WGISS-46	Oberpfaffenhofen	ca. 50
18 – 19 Mar 2018	AEROSAT workshop 2018	Washington	ca. 70
13 – 15 Mar 2018	The Virtual Alpine Observatory Symposium (VAO)	Grenoble	ca. 100
12 – 13 Oct 2017	AEROSAT workshop 2017	Helsinki	ca. 80
21 – 23 Jun 2017	8. Oracle HSM/SAM-QFS Nutzerkonferenz 2017	Rostock	ca. 60
15 – 18 May 2017	7th Network for the Detection of Mesospheric Change (NDMC) Meeting	Grainau	ca. 40
11 – 12 May 2017	Asian Space Technology Summit 2017	Kuala Lumpur, Malaysia	ca. 120
19 – 20 Aprl 2017	C-SIGMA Workshop VII	Lissabon	ca. 60
28 – 30 Mar 2017	The Virtual Alpine Observatory Symposium (VAO)	Bozen	ca. 100
14 Mar 2017	Nationales Forum für Fernerkundung und Copernicus / Fachworkshop A.2 – Möglichkeiten und Grenzen von marinen Copernicus-Daten für Wirtschaft, Wissenschaft und Behörden	Berlin	ca. 60
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
28 – 30 Oct 2015	The Virtual Alpine Observatory Symposium (VAO)	Salzburg	ca. 100

Date	Event	Location	Participants
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 – 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	6th. 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
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
Bachmann, M.	Results of the DESIS Imaging Spectrometer on board the International Space Station	NASA SBG Cal/Val Workshop	online	07/2020
Bittner, M.	Some remarks on the Virtual Aloine Observatory	5 th VAO Symposium	Bern, Switzerland	02/2020
	Infrasound Explorer: ein Vorschlag für eine satellitengetragene Erdbeobachtungsmission aus Bayern	Kabinettsitzung des Bayr. Ministerrats	Zugspitze (UFS)	07/2018
	Klimawandel: Extremwetter, Luftverschmutzung und Gesundheit	Klausurtagung der Koalitions-Fraktionsspitzen von CDU, CSU, SPD	Zugspitze	04/2018
	Joining forces instead duplicating efforts in climate monitoring - the Virtual Alpine Observatory	4 th VAO Symposium	Grenoble, France	03/2018
	Climate Change – Identify and Act on Risks	Hearing of the European Committee of the Regions	Brussels, Belgium	06/2017
	Recent progress in the remote sensing of atmospheric waves and coupling processes	COSPAR	Istanbul, Turkey	08/2016
Dech, S.	Das Zentrum für satellitengestützte Kriseninformation	Parlamentarische Gesellschaft	Berlin	09/2019
	Entwicklung der Erdbeobachtung aus Sicht der Wissenschaft	5. INNOspace Workshop	Augsburg	10/2016
	Was leistet die Raumfahrt für die Energiewende? Einige Möglichkeiten der Erdbeobachtung	Acatech	Bonn-Oberkassel	02/2015
	Anthropozän – Fernerkundung eines Planeten im Wandel	8. Forschungstag Raumfahrt	Köln	03/2015
	Möglichkeiten satellitengestützter Erdbeobachtung	Arbeitsgruppe Außenpolitik der SPD-Bundestagsfraktion	Berlin	05/2015
	Globale Herausforderungen	Parlamentarische Gesellschaft	Berlin	12/2015
	Fernerkundung für eine Welt im Wandel	Nationales Forum für Fernerkundung und Copernicus	Berlin	04/2014
Erbertseder, T.	Nutzungspotentiale der Satellitenfernerkundung für umweltmeteorologische Anwendungen	Deutsche Fachtagung für Umweltmeteorologie	Offenbach	03/2015
	Developments in Regional and Local Air Quality Monitoring and Forecasting	International Air Quality Conference	Garmisch-Partenkirchen	03/2014

Lecturer	Title	Event	Location	Date
Esch, T.	The Role of Earth Observation in Urban Air Quality Monitoring and Forecasting	Mediterranean City 2014	Athens, Greece	06/2014
	A New Platform for Global Urban Monitoring and Analysis - The Urban TEP	ESA EO Open Science Conference	Frascati, Italy	09/2017
Geiß, C.	Observing the Built Environment from Space - Global Monitoring of Human Settlement Patterns and Characteristics	The Mediterranean City Conference	Athens, Greece	06/2014
	Naturgefahrenrisiko im Zeitalter globaler Urbanisierung	Symposium „Trends und Herausforderungen satellitengestützter Erdbeobachtung für Wirtschaft und Gesellschaft	Graz, Austria	05/2017
Gessner, U.	Multi-risk concepts and methodologies	RIESGOS Eventos Virtuales	Online	01/2021
	The Effects of Administrative Units for Monitoring Urbanization and Natural Hazard Risk Assessment	Real Corp	Online	09/2020
	Fernerkundung für Landwirtschaft und Ernährungssicherheit	AK Fernerkundung, AK Auswertung von Fernerkundungsdaten, Methoden und Anwendungen der Fernerkundung als Beiträge zur nachhaltigen Entwicklung	Heidelberg	10/2018
	Potential and Challenges of Earth Observation Time Series for the Analysis of Global Change	38th Annual EARSeL Symposium	Chania, Griechenland	07/2018
Heiden, U.	Using spectral libraries for imaging spectroscopy analyses – the urban example	ISSI WORKSHOP	Bern, Switzerland	11/2016
Klein, D.	Challenges of Earth Observation for Global Change Monitoring	EARSEL Symposium	Bonn	06/2016
Klein, I.	The Potential of Earth Observation for the Analysis of River Deltas and the Coastal Zone	ASLO 2018 - Water connects	Victoria, Canada	06/2018
Künzer, C.	Earth Observation for Biodiversity Monitoring	MPI-CAS Strategic Meeting	Shanghai, China	11/2019
	The Potential of Earth Observation for the Analysis of River Deltas and the Coastal Zone	ASLO 2018 - Water connects	Victoria, Canada	06/2018
	Langzeit-Erdbeobachtungsdaten für die Analyse globaler Veränderungen	Leopoldina Symposium Erdbeobachtung durch Tiere – Chancen und Perspektiven	Berlin	09/2016
	Earth Observation Time Series for Global Environmental Change	ISDE 2016	Beijing, China	07/2016

Lecturer	Title	Event	Location	Date
	The Potential of Earth Observation Data for the Monitoring of large River Deltas - examples from selected deltas around the world	European Space Solutions	The Hague, The Netherlands	06/2016
	The Potential of Time Series Based Earth Observation for the Monitoring of Large River Deltas	American Geophysical Union, AGU Fall Meeting	San Francisco, USA	12/2015
	The potential of Earth Observation for the Monitoring of Delta and Estuary Dynamics Examples from the Yellow River-, and the Mekong Delta	ECSA 53	Shanghai, China	10/2013
	Opening Speech of the Mekong Environmental Symposium	Mekong Environmental Symposium	Ho Chi Minh City, Vietnam	03/2013
Latifi, H.	Remote sensing - assisted mapping of bark beetle-induced tree mortality	ForBioSens 2016	Bialowieza, Poland	11/2016
Lechner, K.	Next generation emergency mapping	DRIVER+ Advanced Crisis Management Conference	Brussels, Belgium	02/2020
Leutner, B.	Potentiale der Fernerkundung für die Forschung zu Biodiversitätsfragestellungen.	152. Jahresversammlung der Deutschen Ornithologen Gesellschaft	Marburg	09/2019
Mandery, N.	A User Focused Approach to Use WPS Processes for the Natural Hazard Domain and Multi-Risk Assessment	52North Geospatial Sensing Conference 2019	Münster, Germany	09/2019
Popp, T.	ESA's Aerosol_cci project	AEROCOM annual assembly	Frascati, Italy	10/2015
Rogge, D.	From proximal to satellite geological spectral sensing, a perspective for resource exploration	ISSI WORKSHOP	Bern, Switzerland	11/2016
Schreier, G.	Who rules EO - public or private?	Brandenburgische Akademie der Wissenschaften (BBAW)	Berlin	05/2019
	International Cooperation in Earth Observation	ISPRS TC V Mid Term Symposium	Dehradun, India	11/2018
	Programme und Daten in der Erdbeobachtung - Möglichkeiten für die Archäologie und den Schutz des Weltkulturerbes	Fernerkundungsdaten und ihre Auswertungsmöglichkeiten in der Landschaftsarchäologie	Berlin	11/2018
	Earth Observation and the Copernicus Programme in support to Archaeology and World Heritage Preservation	International Symposium on the use of Space Technologies for Natural and Cultural sites	Campeche, Mexico	09/2018
	Chancen und Herausforderungen für die Erdbeobachtung durch die neue Informations-Technologien	TAMA eCognition Anwenderkonferenz	München	06/2018
	The Preservation of Natural Resources through Space	GLAC2018	Montevideo, Uruguay	05/2018

Lecturer	Title	Event	Location	Date
	Earth Observation and the Copernicus Programme in support to Archaeology and World Heritage Preservation	CAA	Tübingen	03/2018
	Global Trends changing Earth Observation	World View Global Alliance User Conference	München	10/2017
	Copernicus – The European Earth Observation System	3 rd International Conference on Remote Sensing and Geoinformation of Environment (RSCy2015)	Paphos, Cyprus	03/2015
	Europäisches Umweltbeobachtungsprogramm "Copernicus"	15 Raumfahrttage der Deutschen Raumfahrtausstellung	Morgenröthe Rautenkranz	06/2015
	Das Copernicus-Programm, politische Hintergründe, vorgesehene Dienste	Jahrestagung der Deutschen Geodätischen Kommission (DGK)	München	11/2015
Schwarz, E.	Near Real Time Applications for Maritime Situational Awareness	Workshop on Solutions for Maritime Situational Awareness	Helsinki, Finland	02/2016
Spengler, D. et al.	Durable Environmental Multidisciplinary Monitoring Information Network DEMMIN - Agricultural Research at the TERENO German Northeastern Lowlands Observatory.	BELAIR Workshop 2016	Bruges, Belgium	11/2016
Strunz, G.	Earth Observation and Artificial Intelligence for Disaster Management	2nd French-German-Japanese Symposium on Human-centric Artificial Intelligence	Online symposium	11/2020
	The Sendai Framework for Disaster Risk Reduction – Opportunities for Earth Observation	United Nations / Germany International Conference on Earth Observation	Bonn	05/2015
	Fernerkundung für das Krisenmanagement und die zivile Sicherheit – Aktuelle Forschungs- und Entwicklungsarbeiten	Nationales Forum für Fernerkundung und Copernicus 2015	Berlin	11/ 2015
	Beiträge der Erdbeobachtung zum internationalen Katastrophenmanagement	Deutsche Gesellschaft für Auswärtige Politik	Berlin	01/2014
Taubenböck, H.	Distanz schafft Klarheit – Ein kritischer fernerkundlicher Blick auf die Urbanisierung unseres Planeten.	Dresdner Flächennutzungssymposium	Dresden	10/2020
	Wie wir wohnen – Beobachtet aus dem All.	19. VdW-Forum Wohnungswirtschaft Digital – Live – Online	Online	06/2020
	Space-borne technologies to monitor the transformation of the world and its capabilities for macroecology	Macroecology 2019	Würzburg	03/2019

Lecturer	Title	Event	Location	Date
Wurm, M.	Distanz schafft Klarheit – ein kritischer fernerkundlicher Blick auf die Urbanisierung unseres Planeten	Sächsisches GIS Forum	Dresden	01/2019
	The future will be urban – A responsibility for urban remote sensing	EARSel Urban Remote Sensing Special Interest Group	Bochum	09/2018
	Approaching poverty from outer space. Capabilities, ideas and challenges	Workshop “Examining Dynamics of Deprived Settlements in Different Geographic Contexts, Standards and Transferability	Amsterdam, The Netherlands	07/2018
	Fernerkundliche Nachweise der globalen Urbanisierung	IÖR Jahrestagung	Dresden	06/2018
	Expanding cities – diminishing space – A perspective from outer space	Real CORP	Vienna, Austria	04/2018
	Die globale Transformation der Städte – Was erwartet uns?	Verband Beratender Ingenieure, VBI Landesverband Saarland. Vortrag und Podiumsdiskussion mit Umweltminister und Leiter der Obersten Landesbaubehörde		11/2017
	Urbanization – A global change issue	Kick-off So2Sat project	Oberpfaffenhofen	09/2017
	Die globale Transformation der Städte – Was erwartet uns?	Arbeitstagung der Prüflingenieur	Baden-Baden	06/2017
	Big Data – Key for future Geoinformation services	2nd GeoInformation Symposium	Berlin	06/2017
	Urbane Armut – Globale Wissenslücken durch Big Earth Data schließen	DLR Forschungstag	Köln	04/2017
	Die globale Transformation der Städte – Monitoring mit Methoden der Fernerkundung	Bundeskongress des Verbands beratender Ingenieure	Leipzig	11/2016
	Cities from Space: Monitoring the Global Proces of Urbanization	SPADE conference	Berlin	04/2016
	‘Quo Vadis’ urban remote sensing?	Joint Urban Remote Sensing Conference	Sao Paulo, Brazil	04/2013
	New possibilities of sensed data in urban areas	ITC Twente	Enschede, The Netherlands	06/2018
	Cities from Space – Analysis and monitoring of physical urbanization processes	Symposium on Peaceful Use of Space Technologies	Muskat, Oman	10/2016

Patents

Filed Patent Applications

	Patent	Patent No	Year	Countries
Borg, E. Schmidt, K.	Verfahren und Anordnung zum Kalibrieren flugobjektmontierter Sensoren	102018208738.5	2017	
Borg, E. Schmidt, K.	Verfahren und Anordnung zum Kalibrieren flugobjektmontierter Sensoren	PCT/EP2019/064533	2017	
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
Bittner, M. Wüst, S.	Erfassung des Energieinhaltes von Zyklonen durch Analyse atmosphärischer Wellen (EFA): Ein Beitrag zur Erhöhung der Prognosegüte von Zyklonenzugbahn,-intensität und -lebensdauer	DE102010013607	2020	DE
Borg, E. Schmidt, K.	Verfahren und Anordnung zum Kalibrieren flugobjektmontierter Sensoren (Method and arrangement for calibrating flying object mounted sensors)	DE102018208738A1	2019	DE
Borg, E. Schmidt, K. Schmidt, K. Renke, F. Spengler, D.	Verfahren zum Schätzen eines Zustandes eines Globalstrahlungssensors und Messstation mit Globalstrahlungssensor	DE102018204146 (B4)	2019	DE
Borg, E., Paproth, C., Bachmann, M., Köpke, H., Dietrich, P., Börner, A.	Kalibrierung eines Fernerkundungssensors zur Fernerkundung einer Planetenoberfläche (Calibration of remote sensing sensor for sensing of planetary surfaces)	DE102013217535B4	2015	DE
Reulke, R., Börner, A., Borg, E.	Kalibrierung eines optischen Sensors zur Fernerkundung	DE102012212516	2014	DE
Günther, A.	Verfahren und Vorrichtung zur Kompression von Bilddaten	DE 10 2012 218854	2017	DE

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

Open Source Publications

Author	Year	Software-Name	Description	Link
Höser, T.	2018-2021	StaMPS-Visualizer	A Shiny application for visualizing DInSAR results processed by StaMPS/MTI	https://github.com/thho/StaMPS-Visualizer
Philipp, M	2020	rHarmonics	R package for harmonic modelling of time-series data.	https://github.com/MBalthasar/rHarmonics
Wieland, M. Fichtner, F. Böhnke, C. Martinis, S. Riedlinger, T. Mandery, N.	2020	ukis-pysat	Provides generic classes and functions to query, access and process multi-spectral and SAR satellite images	https://github.com/dlr-eoc/ukis-pysat
Leutner, B.	2015-2019	RStoolbox	Tools for Remote Sensing Data Analysis in R	https://bleutner.github.io/RStoolbox/
Marshall, D.	2019	globdiversity-lsp	Tools to assess land surface phenology from NDVI (Landsat and Sentinel data)	https://github.com/dlr-eoc/globdiversity-lsp.git
Leutner, B.	2018	animove	R package environment for animal movement and remote sensing training courses	https://github.com/AniMoveCourse/animove
Mandery, N.	2018	52north-wps-osmtovector-process	WPS process for the 52North WPS to extract vector geo-data from OSM PBF files	https://github.com/riesgos/52north-wps-osmtovector-process
Mandery, N.	2018	git-dependencies	Fetch external dependencies from their git repositories and integrate them in the working tree	https://github.com/dlr-eoc/git-dependencies
Mandery, N.	2018	ukis_kafka	Stream vector geodata over Apache Kafka	https://github.com/dlr-eoc/ukis_kafka
Mandery, N.	2018	rest_framework_filtersdsl	A filtering and sorting DSL for the Django REST framework	https://github.com/dlr-eoc/rest_framework_filtersdsl
Mandery, N.	2018	osm-ogr-tools	Tools for working with OSM data	https://github.com/dlr-eoc/osm-ogr-tools
Mandery, N.	2018	pgh3	PostgreSQL extension for the H3 hierarchical geospatial indexing system	https://github.com/dlr-eoc/pgh3
Reck, C., Mandery, N.	2018	code-de-tools	Copernicus Data-access and Exploitation platform for Germany (CODE-DE) - user tools	https://github.com/dlr-eoc/code-de-tools

<i>Remelgado, R.</i>	2018	CAWaR	R package to support land cover classification and water management in the Central Asia Basin (SAB)	https://github.com/RRemelgado/CAWaR
<i>Remelgado, R.</i>	2018	fieldRS	R package to support Remote Sensing oriented field work	https://CRAN.R-project.org/package=fieldRS
<i>Remelgado, R.</i>	2018	rsMove	Guidelines for the use of Remote Sensing in Movement Ecology	https://CRAN.R-project.org/package=rsMove
<i>Schwalb-Willmann, J.</i>	2018	getSpatialData	Tools to query, preview, download and preprocess satellite sensor data via R	https://github.com/16EAGLE/getSpatialData
<i>Schwalb-Willmann, J.</i>	2017	moveVis	Tools to jointly visualize movement and environmental data as animations	http://movevis.org/
Mandery, N.	2016	git-changelog	Generate changelogs from git tags	https://github.com/dlr-eoc/git-changelog

Awards

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

Year	Award	Laureate	Subject
2021	Ehrennadel der Deutschen Raumfahrt	ZKI-Team	
2020	3. Platz DLR-Wettbewerb der Visionen	Bichler, R. Bittner, M.	Entwicklung eines Luftverschmutzungs-/ Wirtschaftsindikators für eine globale Berichterstattung über den Fortschritt zum UN SDG 13.2
2020	1. Platz Karl-Kraus Nachwuchsförderpreis der DGPF	Droin, A.	
2020	Preis für die beste Masterarbeit der Fakultät für Umwelt-, Regional- und Bildungswissenschaften der Universität Graz	Droin, A.	
2020	Einladung zum 70. Nobelpreisträger-Treffen in Lindau	Tsai, Y.	
2020	IAF Distinguished Service Award	Schreier, G.	<i>"For outstanding services to the International Astronautical Federation as Chairmen of the Earth Observation Committee"</i>
2020	DLR-Seniorwissenschaftler	Popp, T.	
2019	Student Competition Award, JURSE 2019	Stark, T.	Collective Sensing Techniques and Artificial Intelligence for Natural Hazard Risk and Impact Assessment
2019	Best Poster Award, JURSE 2019	Kraff, N.	Slum mapping in imbalanced remote sensing datasets using transfer learned deep features
2019	10th Anniversary Best Paper Award 2019 der Zeitschrift "Remote Sensing"	Heiden, U. Bachmann, M. Mühle, H. Habermeyer, M. u.a.	"The EnMAP Spaceborne Imaging Spectroscopy Mission for Earth Observation"
2019	Promotionspreis 2019 der Geographischen Gesellschaft Würzburg	Kübert, C.	"Fernerkundung für das Phänologiemonitoring: Optimierung und Analyse des Ergrünungsbeginns mittels MODIS-Zeitreihen für Deutschland"
2019	Siegfried-Niedermeyer-Förderpreis	Jilge, M.	"Hyperspektrale Fernerkundung in der Stadt – neue Wege zur Detektion von Oberflächenmaterialien"

Year	Award	Laureate	Subject
2019	Best Paper Presented by a Woman, 2019 IEEE International Workshop on Metrology for Agriculture and Forestry (MetroAgriFor 2019), Portici, Italy	<i>Schönbrodt-Stitt, S.</i>	"Integrating ground-based and remote sensing-based monitoring of near-surface soil moisture in a Mediterranean environment"
2019	Copernicus Master Award, DLR Environment, Energy & Health Challenge	Meyer-Arneck, J.	
2018	DLR Wissenschaftspreis 2018	Huber, M. Wessel, B. Fritz, T. u.a.	"Generation and performance assessment of the global TanDEM-X digital elevation model"
2018	Best Paper Award 6th International Conference on Remote Sensing and Geoinformation of Environment	Voinov, S. Schwarz, E. Krause, D. Berg, M.	"Processing Framework to Support Maritime Surveillance Applications Based on Optical Remote Sensing Images"
2018	EARSeL Joint Workshop "Urban Remote Sensing – Challenges & Solutions" Best Student Paper Award	Jilge, M.	"Compositions Of Urban Surface Materials And Their Use For Deriving Urban Structure Types In 30 m Hyperspectral Remote Sensing Data"
2018	Auszeichnung für sehr gute Lehre an der Technischen Universität München TUM, Fachschaft Geodäsie, Ingenieur fakultät Bau / Geo / Umwelt	Strunz, G.	
2018	Best Presentation Award 1 st Price at EARSeL Conference Bochum	Leichtle, T.	"On the Capability of Optical Remote Sensing Imagery with Various Spatial Resolutions on Impervious Surface Estimation"
2018	ASTO Förderpreis	Baumhoer, C.	"Glacier front dynamics of Antarctica – Analyzing changes in glacier and ice shelf front positions based on SAR time-series"
2018	Best Elevator Pitch	<i>Freytag-Loringhoven, L Wiertz, K.</i>	"Copernicus Accelerator Bootcamp 2018"
2017	<i>JSPRS Fall Conference Award</i>	<i>Batsaikhan, A.</i>	"Analyzing the impact of snowmelt timing on grassland green-up dates in the European Alps using webcams"
2017	Candidate Researcher Preis des PRONII Programms	Da Ponte, E.	
2017	William T. Pecora Team Award	Charter "Space and Major Disasters"	
2017	DLR Award	Engelbrecht, S.	Integriertes Managementsystem
2017	gregor international calendar award 2017, 3. Preis	Sparwasser, N.	DLR-Kalender "Anthropozän"

Year	Award	Laureate	Subject
2016	WWF Prince Bernhard Scholarship for nature conservation	Da Ponte, E.	"Deforestation in Paraguay and Ecosystem Services approach"
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	Künzer, 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	Künzer, 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"
2014	NDMC Young Scientist Award	Schmidt, C.	"Abschätzung der vertikalen Wellenlänge von atmosphärischen Schwerewellen aus Messungen bodengebundener GRIPS-Infrarotspektrometer"

Year	Award	Laureate	Subject
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	Organization/ Agency	Board	2013	2014	2015	2016	2017	2018	2019	2020
Bachmann, M.	CEOS	Arbeitsgruppe WGCV IVOS		■	■	■	■	■	■	■
	ESA	Mission Advisory Group ESA EarthWatch Mission "TRUTHS"								■
	IEEE	P4001, Standard for Characterization and Calibration of Ultraviolet through Shortwave Infrared (250 nm to 2500 nm) Hyperspectral Imaging Devices								■
	IEEE	P4005, Standards and Protocols for Soil Spectroscopy								■
Bachofer, F.	IUCN	Commission on Ecosystems Management								■
Bittner, M.	ICSU	World Data System	■	■	■	■	■	■	■	■
	NDMC	Sprecher des Steering Committees	■	■	■	■	■	■	■	■
	UFS	Sprecher Science Board	■	■	■	■	■	■	■	■
	VAO	Vorsitzender des Lenkungsausschusses	■	■	■	■	■	■	■	■
	WMO/GAW	Leitung WDC-RSAT	■	■	■	■	■	■	■	■
Borg, E.	HGF	TERENO Steering Committee	■	■	■	■	■	■	■	■
Conrad, C.	DGfG	Arbeitskreis Fernerkundung	■	■	■	■	■	■		
		Umweltcluster Bayern				■	■	■		
Dech, S.	UFS	Mitglied Konsortialrat	■	■	■	■	■	■	■	■
	EURAC	Mitglied Evaluierungsboard	■	■	■	■				
	ZEF	Senior Fellow	■	■	■	■	■	■	■	
	ZFL	Advisory Board					■	■	■	■
Eberle, J.	ESA	Data Coordination Body / Common Architecture								■

Member	Organization/ Agency	Board	2013	2014	2015	2016	2017	2018	2019	2020
Erbertseder, T.	ESA	Sentinel-4/5-Mission Advisory Group	■							
Esch, T.	ESA	MUAS Scientific committee			■			■		
	GEO	Co-lead, Task GI-17: Global Urban Observation and Information - Monitoring Urban Assets in Support of Sustainable Cities	■	■	■	■	■	■	■	■
	GEO	Member of Steering Committee, Human Planet Initiative					■	■	■	■
	POPGRID	Co-lead, Task 'Tools, Portal, and Shared Resources', POPGRID Data Collective					■	■	■	■
	SPIE	Member of Programme Committee for Remote Sensing Technologies and Applications in Urban Environments				■	■			
	ISDE	Member of Programme Committee Digital Earth Conference			■					
Fischer, C.	GEOSS	C2 Impact Monitoring System for Geo-Resource Exploration and Exploitation	■	■	■					
	GEOSS	CA-06 EO Data and Mineral Resources				■				
<i>Förtsch, S., Wegmann, M.</i>	DLR	Data Pool Initiative for Bohemian Forest Ecosystem						■	■	■
Gähler, M.	ESA	Copernicus Sentinel-3 Mission Advisory Board	■							
Heiden, U.	BelSPO	Steering Committee Member of the URBANEARS Project			■	■	■	■		
	GRSS TC	Chair Geoscience Spaceborne Imaging Spectroscopy Technical Committee of IEEE GRSS	■	■	■	■	■	■	■	
	IEEE	General Chair of WHISPERS conference							■	
	IGARSS	Member of the Technical Program Committee			■	■	■	■	■	
	ESA	Scientific Committee – ESA Living Planet Symposium 2019							■	

Member	Organization/ Agency	Board	2013	2014	2015	2016	2017	2018	2019	2020
Holzwarth, S.	ESA	Scientific Committee of the World Soils 2019							■	
	DLR	EnMAP Science Advisory Group Member							■	
	EUFAR	Vice-President of the General Assembly of EUFAR AISBL					■	■	■	■
	ENVRI	ENVRI Stakeholder Advisory Board	■	■						
	DLR	Data Pool Initiative for Bohemian Forest Ecosystem		■	■	■	■	■		
Kiemle, S.	ESA	Heterogeneous Missions Accessibility (HMA)	■	■	■	■				
Klein, D.	EURAC	Scientific Advisory Board for the Institute for Earth Observation					■	■	■	■
Künzer, C.	Alexander v. Humboldt Stiftung	Auswahlausschuss des Internationalen Klimaschutzstipendienprogramms								■
	FNRS, Belgien	Auswahlausschuss Fund for Scientific Research								■
	IJRS	Associate Editor of the International Journal of Remote Sensing	■	■	■	■	■			
	RS	Editorial Board member of the journal Remote Sensing	■	■	■	■	■	■	■	
	CAS	International Expert Advisory Board of the Institute RADI-CAS	■	■	■	■	■	■		
	EARSeL	Chair: Special Interest Group Thermal Remote Sensing (jointly w. C. Hecker)	■	■	■	■	■	■	■	
	SSC FEC	Member of Scientific Steering Committee "Future Earth Coasts"	■	■	■	■	■	■		
	GEO	German representative of Group "Data Validation of Global Land Cover Datasets"			■	■	■			
	ISDE	Elected Council Member of the "International Society for Digital Earth"				■	■	■		
	ISRSE	Scientific Committee Member of the 37th ISRSE Conference					■			

Member	Organization/ Agency	Board	2013	2014	2015	2016	2017	2018	2019	2020
Latifi, H.	DLR	Data Pool Initiative for Bohemian Forest Ecosystem		■	■	■	■			
	IBS	Deutsche Region der IBS, Leiter der AG "Ökologie und Umwelt"	■	■	■	■	■			
Lechner, K.	IWG-SEM	International Working Group on Satellite-based Emergency Mapping						■	■	
Leutner, B.	AniMove	Board Member of Animal Movement and Remote Sensing teaching and research initiative								■
Marconcini, M.	ISDE	Elected Chair of International Society for Digital Earth					■	■		■
	ISDE	Member of the Programme Committee, 12 th International Symposium on Digital Earth								■
	ESA	Scientific Committee – ESA Living Planet Symposium 2013	■							
	ESA	Scientific Committee – ESA Living Planet Symposium 2016				■				
	ESA	Scientific Committee – EO Open Science 2017					■			
	CAS	Advisory Board of the CASEarth project						■	■	
Mikusch, E.	ESA	Data Coordination Body / Data Preservation and Access Group	■	■	■	■	■	■	■	■
	DLR	Arbeitsgruppe des Programmausschusses Erdbeobachtung (PA EO AG)		■	■	■				
	DLR	Arbeitskreis Open Science		■	■	■	■	■		
	HGF	Helmholtz-Arbeitskreis "Bereitstellung und langfristige Sicherung von Erdbeobachtungsdaten"			■	■				
	DLR	Lenkungsreis Forschungsdatenmanagement (LK-FDM)							■	■
Molch, K.	CEOS	Working Group on Information Systems and Services (WGISS)						■	■	■

Member	Organization/ Agency	Board	2013	2014	2015	2016	2017	2018	2019	2020
	ESA	Data Coordination Body / Data Preservation and Access Group	■	■	■	■	■	■	■	
	GEO	Arbeitsgruppe der deutschen Delegation der Group on Earth Observations (D-GEO)	■	■	■	■	■	■		
	DLR	Arbeitskreis Open Science		■	■	■	■	■		
	HGF	Helmholtz-Arbeitsgruppe "Einbindung wissenschaftlicher Geodaten aus der HGF in die Geodateninfrastruktur Deutschlands"			■	■	■			
	ESA/EC	Working group on Harmonization of EO Data-as-a-Service License				■	■			
	IMAGI	Zentrale Arbeitsgruppe des Interministeriellen Ausschusses für Geoinformationswesen (ZAG-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	■	■	■	■	■	■	■	■
	DLR	TerraSAR-X/TanDEM-X Mission Board	■	■	■	■	■	■	■	■
Schreier, G	ISPRS	Chairman ISPRS International Policy Advisory Committee (IPAC)	■	■	■	■	■	■	■	■
	ESA	Ground Segment Coordination Body	■	■	■	■				
	IAF	Chairman IAF Earth Observation Committee					■	■	■	
		Member of IAF Earth Observation Committee	■	■	■	■	■	■	■	
Schroedter-Homscheidt, M.	GEOSS	Energy Community of Practice	■	■	■	■	■			
Schwalb-Willmann, J.	Supervision.earth	Advisory Board Member							■	
Taubenböck, H.	BMBF	Nationale Plattform Zukunftsstadt	■	■	■					

Member	Organization/ Agency	Board	2013	2014	2015	2016	2017	2018	2019	2020
Twele, A.	JURSE	Chair of the IEEE-CPS Joint Urban Remote Sensing Event (JURSE)					■	■	■	■
	ESA	Long Term Data Preservation / Data Access & Preservation Working Group					■	■	■	■
Voigt, S.	IWG-SEM	International Working Group on Satellite-based Emergency Mapping	■	■	■	■				
Wegmann, M.	CEOS	CEOS Biodiversity activity	■	■	■	■	■	■	■	■
	GEO	GEO BON Implementation Committee	■	■	■	■	■	■		
Wessel, B.	CEOS	Working Group on Calibration and Validation "DEM Intercomparison eXercise DEMIX"								■
Zwenzner, H.	HGF	Helmholtz-Arbeitsgruppe, Data Hubs, Erde und Umwelt							■	■

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
 GEOS: Global Earth Observation System of Systems
 IAF: International Astronautical Federation
 IBS: Internationale Biometrische Gesellschaft
 ICSU: International Council for Science
 ISDE: International Society for Digital Earth
 ISPRS: International Society for Photogrammetry and Remote Sensing
 WMO: World Meteorological Organization
 ZFL: Zentrum für Fernerkundung der Landoberfläche Universität Bonn

Memberships in Journal Editorial BoardsEditorial 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	2017	2018	2019	2020
Bachofer, F.	Frontiers in Remote Sensing	Frontiers								■
	Open Geosciences	De Gruyter						■	■	■
Bittner, M.	The Open Atmospheric Science Journal (TOASJ)	Bentham Open	■	■	■	■	■	■	■	■
.	Journal on Atmospheric Measurement Techniques (AMT)	Copernicus	■	■	■	■	■	■	■	
Conrad, C.	Photogramm., Fernerkundung, Geoinformation (PFG)	Schweizerbart Sc. Publishers			■	■	■			
	Journal of Photogrammetry, Remote Sensing and Geoinformation Science	Springer					■	■		
Heiden, U.	IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing (JSTARS)	IEEE			■	■				
	Guest Editor of Remote Sensing	MDPI						■	■	
Henniger, H.	Radioengineering Journal	Brno University of Technology	■	■	■					
Künzer, C.	International Journal of Remote Sensing	Taylor & Francis	■	■	■	■	■	■		
	Remote Sensing	MDPI		■	■	■	■	■	■	
	Remote Sensing in Ecology and Coservation	Wiley						■	■	■
Latifi, H.	Special Issue of Photogramm., Fernerkundung, Geoinformation (PFG)	Schweizerbart Science Publishers				■				
Roth, A.	Remote Sensing	MDPI					■	■		
Schroedter-Homsch, M.	Meteorologische Zeitschrift (METZET)	Schweizerbart Sc. Publishers	■	■	■	■	■			
Wegmann, M.	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, 2020.

- 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

2020

- [1] Akhundzadah, Noor Ahmad, **Salim Soltani**, and Valentin Aich. "Impacts of Climate Change on the Water Resources of the Kunduz River Basin, Afghanistan." *Climate* 8.10 (2020): 102.
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- [4] Braun, A., Warth, G., **Bachofer, F.**, Bui, T. T., Tran, H., Hochschild, V.: *Changes in the*

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