Curriculum vitae

Personal data

Name:	Kuntz
First name:	Steffen
Title:	Diplomforstwirt, Prof. Dr. rer. nat. habil.
Nationality:	German
Date of birth:	05.01.1959
Marital status:	married
Children:	3 children: 30, 26, 23 years old

Vocational Education

Period	Subject	Final qualification/certificates
- 06/1977	Gymnasium	Abitur
10/77 – 12/78	Military service	Gefreiter
10/79 – 05/84	Study of Forestry, Univ. Freiburg	Diplom Forstwirt

Advanced training

Period	Subject	Contents	Final qualification/certificates
(06/84 – 03/89)	PhD	Remote sensing for forest decline	Dr. rer nat.
04/89 – 11/97	Habilitation (venia legendi)	Remote sensing and GIS	Privatdozent at Univ. of Freiburg, Faculty of Forestry & Environmental Science

Professional background

Period	Country	Employer	Position	Projects/Tasks/Management experience
05/84-04/85	Germany	Albert-Ludwigs-University	PhD student	research

Period	Country	Employer	Position	Projects/Tasks/Management experience
05/85 – 12/88	Germany	Albert-Ludwigs-University	Scientific assistant	• Teaching and research • Scientific project management • 6 week training course on aerial photography interpretation of insect pest damages in decidous and coniferous forest plantations for MS candidates at the University of Parana, Curitiba
01/89-10/93	Germany	Albert-Ludwigs-University	Head of Dept. for Photo-grammetry and Re-mote Sen-sing	• Responsible for teaching and research
11/93 – 12/97	Germany	Kayser-Threde GmbH, München	Senior Scientist; Deputy of Dept. for Environ-mental Monitoring	• Various national and international projects on remote sensing applications • Product development • Market analysis for developed technical solutions
01/98 – 06/02	Germany	RSS – Remote Sensing Solutions GmbH, Munich	President & Senior Scientist	• Responsible for marketing and project management in Europe and the Near East • Acquisition and management of various EO application projects in the fields of forestry, agriculture, land use mapping, risk management, disaster mitigation (fires, storms, floods, drought, erosion), cartography, etc. • Consulting for private and public customers on remote sensing, sensor specifications, geo-information business and product development • Training course on advanced image processing, data interpretation and classi-fication for Chinese specialists in the framework of the 3-North Afforestation Project
12/97 – 04/05	Germany	Albert-Ludwigs-University Faculty of Forestry Natural Resources Manage-ment	Assistant Professor for remote sensing and GIS	• Teaching and research • Masters course: "Introduction to remote sensing" at the Mediterranean Agronomic Institute of Chania, Crete, Greece (2000 - 2003) • Lectures and practical work on digital image processing for high graduate students and university guests from different developing countries • Lectures on SAR data interpretation in the Tropics at the Universities of Münster and Freiburg

Period	Country	Employer	Position	Projects/Tasks/Management experience
07/02 – 05/13	Germany	Infoterra GmbH, Immen-staad	Senior Advisor Geoinfor-mation Services and Climate change pro-grams	• Development of product portfolio and business plans • Co-ordination of marketing and distri-bution planning and implementation for Infoterra products in the sectors agriculture, forestry and environ-mental monitoring • Competition Analysis • Fund raising • Project Management of large int. ESA & EC projects, e.g. in the framework of GMES / Copernicus and climate change) • Scientific studies (new sensors, methods development, …) • Project management DEVELOPPP.DE Ghana: Supporting the national Forestry Commission and the Centre for Remote Sensing and Geographic Information Systems (CERSGIS), Univ. Accra in REDD+ related forest cover and forest degradation monitoring, forest inventory and environ-mental monitoring
05/05 - present	Germany	Albert-Ludwigs-University, Faculty of Forestry and Natural Resources Manage-ment	Associate Professor for remote sensing and GIS	• Lectures and practical work on photo-grammetry and the interpretation of remotely sensed imagery (aerial photography, digital airborne and spaceborne sensors for students in forestry and earth sciences) • Masters course: Introduction to SAR image processing and related applications; Aristotelian University, Faculty of Forestry, 2005 • Graduate course: Introduction to REDD; Freiburg (starting from 2010), Aristotelian University, Faculty of Forestry, 2011, University of Vicosa, Minas Gerais, Brazil, 2011
06/13 - present	Germany	Airbus DS GmbH; Future Missions Dpt. (TSPED42)	System Engineer	• Export proposal manager • Interfacing technical Earth observa-tion solutions and assets with user needs • Creating and contributing to innova-tive business solutions • Leading commercial proposals to national and international customers / partners • International project management

Special skills

Image processing: ERDAS, PCI, ENVI
GIS: ARC-Info, GRASS

Language skills

Language	Spoken	Written	Reading/Comprehension	Period in language area (in years/country)
German	1	1	1	Native
English	1	1	1	> 20
Spanish	3	2	2	3

corresponding to the German school grading system: 1=very good, negotiation level;
2=good; 3=satisfactory; 4=adequate, simple communication, basic knowledge; 5=no skills

Remarks
(any special fields of interest, hobbies, publications)

- Industry partner of the GOFC-GOLD Land Cover Implementation team
- Accredited at KFW, FAO und EC as specialist in the field of environmental monitoring, remote sensing and GIS
- Invited expert for the evaluation of proposals submitted to the Fourth and Seventh Frame Work Programmes of the European Commission
- Member of INSPIRE Annex II Working Group Land Cover
- Member of Int. Advisory Board of the Balkan Environment Centre, Thessaloniki, Greece

General

Prof. Dr. Steffen Kuntz has more than 30 years of experience in remote sensing and GIS. Working since 1993 in industry his activities included for instance product development and marketing and project management in Europe, S-America, Africa and SE-Asia. Here he was fully responsible for acquisition and management of various EO application projects in the fields of forestry, agriculture, land use mapping, risk management, disaster mitigation (fires, storms, floods, drought, and erosion), cartography, etc. In addition, he worked as consultant for private and public customers (e.g. GIZ, FAO, World Bank, Vereinigte Hagel VVaG, RapidEye) on remote sensing, sensor specifications, business and product development. From 2002 to 2013 he was senior advisor for geo-information systems and climate change programs at Astrium Geoinformation Services. Since June 2013 he works as system engineer at Astrium Satellites in the Future Missions Department (AED4)

Literature List (peer reviewed only)

1. KUNTZ, S. (1989): Untersuchung zur Analyse computergestützter Waldschadens-klassifizierungen. Diss. Forstwiss. Fak, Univ. Freiburg, DFVLR-FB 89-16.

2. KUNTZ, S. (1991): Anwendung von Satellitenbildern zur Erfassung und Kartierung von Sturmschäden. In: OESTEN, G., KUNTZ, S. & GROSS, C.P. (Hrsg.; 1991): Fernerkundung in der Forstwirtschaft - Stand und Entwicklungen; Wichmann-Verlag, Karlsruhe 1991.

3. KUNTZ, S. (1997): Satellitenfernerkundung zur Beobachtung der Waldzerstörung – 3 Fallstudien. Habilitationsschrift, Univ. Freiburg. 238 S.

4. KUNTZ, S. (2010): Potential of spaceborne SAR for monitoring the tropical environments. Tropical Ecology 51(1): p. 3-10, 2010

5. KUNTZ, S. & EBEL, U. (2002): Regionale Kartierung von Sturmschäden in Mitteleuropa. Photogrammetrie, Fernerkundung und Geoinformation (PFG); 4/2002. p. 245-252

6. KUNTZ, S. & FORSTREUTER, W. (1985): Möglichkeiten der Nutzung von Ferner-kundungsdaten zur Erfassung von Waldveränderungen. Phönix International 3/4/1985 D.

7. KUNTZ, S., JOCHUM, M., LEO, O., BRINK, A., CLERICI, M. & COMBAL, B. (2011): Remote Sensing and Food and Nutrition Security. In: RIBERO C.A. et al. (2011): 1. Int. Symp. on Food Security and Poverty Reduction, Universidade Fed. de Vicosa, Brazil, ISBN: 978-85-60249-02-2, pp. 1-16

8. KUNTZ, S. & KADRO, A. (1989): Drei Jahrzehnte Luftbildmessung und Fernerkundung an der Forstwissenschaftlichen Fakultät Freiburg, AFJZ Sonderheft, 4/1989.

9. KUNTZ, S. & KARTERIS, M. (1995): Fire risk modelling based on satellite remote sensing and GIS. EARSeL Advances in Remote Sensing, Vol. 4, No. 3-XII, 1995, S. 40 - 46.

10. KUNTZ, S., PROBECK, M., GARZON, A., SOUKUP, T., SMITH, G., KLEE-SCHULTE, S., HOFMANN, CHR., GALLAUN, H., LITTKOPF, A., MA-NUNTA, P., SEDANO, F, RADUTU, A., LÖNQUIST, A., AIFANTO¬POULO, D., GITAS, I., VAIKUS, G., VAN WOLVELAER, J., GREEN, T., & ROSEN-GREN, M. (2011): geoland2- Continental Component of the Land Monitoring Service. In: In: Let´s Embrace Space – space research achievements under the 7th Framework Programme. European Union, ISBN 978-92-79-19704-8, S. 45-53.

11. KUNTZ, S., SCHMEER, E., JOCHUM, M. & SMITH, G. (2014): Towards an European Land Cover Service and High-Resolution Layers. In: Manakos, I. & Braun, M. (Edts. 2014): Land Use and Land Cover Mapping in Europe – Practices & Trends, Springer, Dordrecht Heidelberg New York London, ISBN 978-94-007-7968-6, p. 43-52

12. KUNTZ, S. & SIEGERT, F. (1994): Evaluation of ERS1 SAR Data for Tropical Rainforest Monitoring, EOQ, ESA publication, No. 45, Sept. 1994.

13. KUNTZ, S. & SIEGERT, F. (1996): Dipterocarp Forest Mapping and Monitoring by Satellite Data: A case study from East Kalimantan. Invited contribution to: Dipterocarp Forest Ecosystems - Structure, Function, Ecology and Sustainable Management, World Scientific Publishing Co., New York, London, Singapore, Hong Kong, Teipei.

14. KUNTZ, S. & SIEGERT, F. (1999): Monitoring of Deforestation and Land Use in Indonesia with Multitemporal ERS Data. Int. Journ. Rem. Sens., Vol. 20, No. 14, pp. 2835-2853

15. KUNTZ, S. & SIEGERT, F. (1999): Tropischer Regenwald – Einsatzmöglichkeiten der Fernerkundung zur Überwachung des Holzeinschlags und Analyse der Waldbrände in Indonesien. Rundgespräche der Kommission für Ökologie, Bd. 17 „Fernerkundung und Ökosystemanalyse", S. 117-127. Verlag Dr. Friedrich Pfeil, München 1999

16. KUNTZ, S. & ZIMMERMANN, CHR. (1993): Erfasssung von Sturmschäden im nördlichen Schwarzwald mit Hilfe von Satellitendaten, AFJZ 8/93, S. 150 - 155.

17. FELDWISCH, N., KUNTZ, S. & MAYER, S. (2001). Methodenvergleich zur Datengewinnung und –nutzung im Bereich des Bodenschutzes. Hrsg. Umwelt-bundesamt Berlin; Texte 38/01, Forschungsbericht 299 71 236; UBA-FB 000150; 226 S.

18. JOCHUM, M., KUNTZ, S., LACAZE, R., BANASZKIEWICZ, M., OLSSON, B., BICHERON, P., PROBECK, M., LEO, O., CALVET, J.C., BRINK, A. & GOOR, E. (2011): geoland2- Operational monitoring services for our changing environ¬ment. In: Let´s Embrace Space – space research achievements under the 7th Framework Programme. European Union, ISBN 978-92-79-19704-8, S. 30-38.

19. KUSHWAHA, S.P.S., KUNTZ, S. & OESTEN, G. (1994): Applications of image texture in forest classification, Int. J. Remote Sensing, 1994, Vol 15, No. 11, S. 2273 - 2284.

20. OESTEN, G., KUNTZ, S. & GROSS, C.P. (Hrsg., 1991): Fernerkundung in der Forstwirtschaft - Stand und Entwicklungen, Wichmann Verlag, Karlsruhe.

21. PEDROSA-MACEDO, J.H. & KUNTZ, S. (1989): Schadorganismen bedrohen viele Neuaufforstungen Brasiliens, AFZ 31/1989, S. 812 - 813.

22. SCHLUND, M, VON PONCET, F., HOEKMAN, D.H., KUNTZ, S. & SCHMULLIUS, C. (2014): Importance of bistatic SAR features from TanDEM-X for forest mapping and monitoring. Remote Sensing of Environment 151, 16-26.

23. SCHLUND, M, VON PONCET, F., KUNTZ, S., SCHMULLIUS. C. & HOEKMAN, D.H. (2014): TanDEM-X data for aboveground biomass retrieval in a tropical peat swamp forest. Remote Sensing of Environment 158, 255-266.