

## Matthias Baumann

Humboldt-University Berlin  
Geography Department, Conservation Biogeography  
Unter den Linden 6, 10099 Berlin  
Phone: +49 (0) 30 2093 9341  
Mail: [matthias.baumann@geo.hu-berlin.de](mailto:matthias.baumann@geo.hu-berlin.de)  
Web: <http://hu.berlin/mbaumann>

RESEARCH INTERESTS Land-system science, remote sensing, GIS, conservation, coupled human and natural systems

---

PROFESSIONAL EXPERIENCE	Postdoctoral Researcher, Geography Department, Humboldt-University Berlin	Since 2014
	Research Assistant, Department of Forest and Wildlife Ecology, University of Wisconsin-Madison.	2009-2013
	Undergraduate Research Assistant, Geography Department, Humboldt-University Berlin	2007-2009
	Freelancer at RSS Remote Sensing Solutions GmbH, Potsdam, Germany	2008, 2009
	Internship at RSS Remote Sensing Solutions GmbH, Potsdam, Germany	2008
	Internship at the Ministry of Health, Environment and Consumer Protection of Berlin, Germany	2008

---

EDUCATION	Doctoral Studies (PhD) in Forestry, Department of Forest and Wildlife Ecology, University of Wisconsin-Madison, USA. <i>Thesis: Forests through the eye of a satellite. Understanding regional forest dynamics using Landsat satellites.</i>	2009-2013
	Diploma studies (MSc equivalent) in Geography, Meteorology and Geomatics, Geography Department, Humboldt University Berlin, Germany <i>Thesis: Determinants of post-socialist farmland abandonment in the Ukrainian Carpathians.</i>	2003 -2009
	Visiting scholar at the Department of Forest and Wildlife Ecology, University of Wisconsin-Madison, USA.	2009
	Visiting student at the Geography Department, University of Seville, Spain	2005-2006

---

AWARDS AND FELLOWSHIPS	Best Poster Presentation Award, Global Land Programme Open Science Meeting 2016	2016
------------------------	---	------

DAAD (German Academic Exchange Service) Conference Travel Grant to attend a conference	2016
DAAD (German Academic Exchange Service) return fellowship for German researchers in foreign countries	2014
Young Researcher Grant, IAMO-Forum 2012	2012
Vilas Travel Grant	2012
International Office of Humboldt-University Berlin, Travel grant for a research visit at the University of Wisconsin- Madison	2009
ERASMUS/Sokrates Scholarship for undergraduate studies at the University of Seville, Spain	2005 -2006

RESEARCH GRANTS (ACTIVE)	Radeloff, V.C. Land use change in the Caucasus Mountains and the role of ethnic differences, national policies, and armed conflicts. CO-Investigator <i>NASA Land Use Land Cover Change Program</i> (US-\$ 829,000)	2014-2017
TEACHING	“Global Land Use Dynamics” full module (10 ECTS), taught together with Prof. Kuemmerle and Dr. Mueller	Winter 2016/2017
	“556 Digital Image Processing”; various lectures and labs for Prof. Mutlu Ozdogan	Spring 2012, 2013
	“441 Environmental Remote Sensing”; various lectures and labs for Prof. Annemarie Schneider	Fall 2011, 2012
PUBLICATIONS (PEER- REVIEWED) 21 total plus 9 in review	* indicates a MSc student I supervised  Le Polain de Varoux, Y., <b>Baumann, M.</b> , Gasparri, N.I., Gavier Pizarro, G., Godar, J., Kuemmerle, T., Mueller, R., Vazquez, F., Volante, J.N., Meyfroidt, P. Rents, actors, and the expansion of commodity frontiers in the Gran Chaco. <i>In review</i>	30
	Bleyhl, B., <b>Baumann, M.</b> , Griffiths, P., Heidelberg, A., Manvelyan, K., Radeloff, V.C., Zazanashvili, N., Kuemmerle, T. Assessing landscape connectivity for large mammals in the Caucasus using Landsat 8 seasonal image composites. <i>In review</i>	29
	Fehlenberg, V., <b>Baumann, M.</b> , Gasparri, N.I., Piquer-Rodriguez, M., Gavier Pizarro, G., Kuemmerle, T. The role of soybean production as an underlying driver of deforestation in the South American Chaco. <i>in review</i>	28

- Piquer-Rodriguez, M., Butsic, V., Gärtner, P., Macchi, L., **Baumann, M.**, Gavier Pizarro, G., Volante, N. J., Gasparri, N.I., Kuemmerle, T. Drivers of agricultural land-use change in Argentina. *In review* 27
- Marinero, S., Grau, H.C., Gasparri, N.I., Kuemmerle, T., **Baumann, M.** 26  
Differences in land-use efficiency across land tenure regimes in the Argentinian Dry Chaco. *in review*
- Estel, S., Mader, S., Levers, C., Verburg, P.H., **Baumann, M.**, 25  
Kuemmerle, T. Combining satellite data and agricultural statistics to map grassland management intensity in Europe. *In review*
- Shortland, A., **Baumann, M.**, Kuemmerle, T., Fielding, D. The Political 24  
Economy of Deforestation in the DRC. *In review*
- Baumann, M.**, Israel, C., Piquer-Rodriguez, M., Gavier-Pizarro, G., 23  
Volante, J.N., Kuemmerle, T. Deforestation and cattle expansion in the Paraguayan Chaco 1987-2012. *In review*
- Butsic, V., Radeloff, V.C, Lewis, D.J., Kuemmerle, T., **Baumann, M.** 22  
Quasi-experimental methods to gain stronger inferences using observational data: introduction for ecologists. *In review*
- Baumann, M.**, Gasparri, N.I., Piquer-Rodriguez, M., Gavier-Pizarro, 21  
G., Griffiths, P., Hostert, P., Kuemmerle, T. Carbon Emissions from deforestation and agricultural intensification the Chaco. *Global Change Biology*, accepted
- Baumann, M.**, Ozdogan, M., Richardson, A.D., Radeloff, V.C. (2017). 20  
Green-leaf phenology from Landsat. *Journal of Applied Earth Observation and Geoinformation*, 54, 72-83
- Baumann, M.** & Kuemmerle, T. (2016) The impacts of warfare and 19  
armed conflict on land systems. *Journal of Land Use Science*, 11(6), 672-688
- Santos, M.J., **Baumann, M.**, Esgalhado, C. (2016). Drivers of 18  
productivity trends in cork oak woodlands over the last 15 years. *Remote Sensing*, 8 (6), 486
- Hamilton, C., **Baumann, M.**, Pidgeon, A.M., Helmers, D.P., 17  
Thogmartin, W.E., Heglund, P.J., Radeloff, V.C. (2016). Past and predicted future effects of housing growth on open space pathways and habitat connectivity around National Wildlife Refuges. *Landscape Ecology*, 31(9), 2175-2186
- Estel, S., Kuemmerle, T., Levers, C., **Baumann, M.**, Hostert, P. (2016) 16  
Mapping cropland-use intensity across Europe using MODIS-NDVI time series. *Environmental Research Letters*, 11, 024015

- Joshi, N., **Baumann, M.**, Ehammer, A., Fensholt, R., Grogan, K., 15  
Hostert, P., Rudbeck Jepsen, M., Kuemmerle, T., Meyfroidt, P.,  
Mitchard, E., Reiche, J., Ryan, C.M., Waske, B. (2016). A Review of the  
Application of Optical and Radar Remote Sensing Data Fusion to  
Land Use Mapping and Monitoring. *Remote Sensing*, 8(1), 70
- Butsic, V., **Baumann, M.**, Shortland, A., Walker, S., Kuemmerle, T. 14  
(2015). Conservation and conflict in the Democratic Republic of  
Congo: the impacts of warfare, mining, and protected areas on  
deforestation. *Biological Conservation*, 191 266-273
- Bragina, E., Radeloff, V.C., **Baumann, M.**, Wendland, K., Kuemmerle, 13  
T., Pidgeon, A.M. (2015): Effectiveness of protected areas in the  
Western Caucasus before and after the transition to post-socialism.  
*Biological Conservation*, 184 456-464
- Baumann, M.**, Radeloff, V.C., Avedian, V., Kuemmerle, T. (2015): 12  
Local and displaced land-use change in the Caucasus during and after  
the Nagorno-Karabakh conflict. *Regional Environmental Change*, 15(8)  
1703-1716
- Wendland, K.J., **Baumann, M.**, Lewis, D., Sieber, A., Radeloff, V.C 11  
(2015): Protected area effectiveness in European Russia during and  
after the collapse of the Soviet Union. *Land Economics*, 91(1) 149-168.
- Griffiths, P., Kuemmerle, T., **Baumann, M.**, Radeloff, V.C., Abrudan, 10  
I.V., Lieskovsky, L., Munteanu, C., Ostapovicz, K., Hostert, P (2014):  
Forest disturbances, forest recovery, and changes in forest types across  
the Carpathian ecoregion from 1985 to 2010 based on Landsat image  
composites. *Remote Sensing of Environment*, 151, 72-88.
- Baumann, M.**, Ozdogan, M., Wolter, P.T., Krylov, A., Vladimirova, N., 9  
Radeloff, V.C. (2014): Landsat Remote Sensing of Forest Windfall  
Disturbance. *Remote Sensing of Environment*, 143, 171-179.
- Alcantara, C., Kuemmerle, T., **Baumann, M.**, Bragina, E., Dubinin, M., 8  
Griffiths, P., Hostert, P., Knorn, J., Muller, D., Prishchepov, A.V.,  
Schierhorn, F., Sieber, A., Radeloff, V.C. (2013): Mapping the extent of  
abandoned farmland using MODIS time series. *Environmental Research  
Letters* 8(3) 035035.
- Sieber, A., Kuemmerle, T., Prishchepov, A.V., Wendland, K.J., 7  
**Baumann, M.**, Radeloff, V.C., Baskin, L.M, Hostert, P. (2013): Landsat-  
based mapping of post-Soviet land-use change to assess the  
effectiveness of the Oksky and Mordovsky protected areas in  
European Russia. *Remote Sensing of Environment*, 133, 38-51.
- Prishchepov, A.V., Muller, D., Dubinin, M., **Baumann, M.**, Radeloff, 6  
V.C. (2013): Determinants of agricultural land abandonment in post-  
Soviet European Russia. *Land Use Policy*, 30, 873-884.

Prishchepov, A.V., Radeloff, V.C., **Baumann, M.**, Kuemmerle, T., Muller, D. (2012): Effects of institutional changes on land use: agricultural land abandonment during the transition from state-command to market-driven economies in post-Soviet Eastern Europe. *Environmental Research Letters*, 7(2), 024021 (13pp). 5

Also available in Russian:

Prishchepov, A.V., Radeloff, V.C., **Baumann, M.**, Kuemmerle, T., Muller, D. (2012): Impact of institutional and socio-economic changes after the collapse of the USSR on agricultural land use in Eastern Europe. *Earth from Space – The Most Effective Solutions*, 14, 7-14

**Baumann, M.**, Ozdogan, M., Kuemmerle, T., Wendland, K.J., Esipova, E., Radeloff, V.C. (2012): Using the Landsat record to detect forest-cover changes during and after the collapse of the Soviet Union in the temperate zone of European Russia. *Remote Sensing of Environment*, 124, 174-184. 4

Wendland, K., Lewis, D., Alix-Garcia, J., Ozdogan, M., **Baumann, M.**, Radeloff, V.C. (2011): Regional- and district-level drivers of timber harvesting in European Russia after the collapse of the Soviet Union. *Global Environmental Change*, 21(4), 1290-1300. 3

**Baumann, M.**, Kuemmerle, T., Elbakidze, M., Ozdogan, M., Radeloff, V.C., Keuler, N.S., Prishchepov, A.V., Kruhlov, I., Hostert, P. (2011): Patterns and drivers of post-socialist farmland abandonment in Western Ukraine. *Land Use Policy*, 28, 552-562. 2

Kuemmerle, T., Olofsson, P., Chaskovskyy, O., **Baumann, M.**, Ostapowicz, K., Woodcock C., Houghton, R. A., Hostert, P., Keeton, W. S., and Radeloff, V.C. (2011): Post-Soviet farmland abandonment, forest recovery, and carbon sequestration in western Ukraine. *Global Change Biology*, 17, 1335-1349. 1

---

BOOK CHAPTERS

Müller, D., Haberl, H., Bartels, L., **Baumann, M.**, Beckert, M., Levers, C., Schierhorn, F., Zscheischler, J., Havlik, P., Hostert, P, Mertz, O., Smith, P. (2016). Competition for land-based ecosystem services: Trade-offs and synergies. In: Niewöhner, J. et al. Land Use Competition. *Springer Verlag, Berlin*. pp. 127-147 3

**Baumann, M.**, Piquer-Rodriguez, M., Fehlenberg, V., Gavier-Pizarro, G., Kuemmerle, T. (2016). Land-use competition in the South American Chaco. In: Niewöhner, J. et al. Land Use Competition. *Springer Verlag, Berlin*. pp. 215-229 2

Prishchepov, A.V., Müller, D., **Baumann, M.**, Kuemmerle, T., Alcantara, C., Radeloff, V.C. (2014). Underlying drivers and spatial determinants of post-Soviet agricultural land abandonment in 1

temperate Eastern Europe. In: Gutman, G. & Radloff, V.C. (editors): Land-cover and land-use change in Eastern Europe 1990-2010: Impacts of the breakup of the Soviet Union. *Springer Verlag*, in press

---

OTHER PUBLICATIONS **Baumann, M.**, Lentschke, J., Munack, H. & Schröder, H. (2009): 2  
Landscape ecology of the Tien Shan Mountains (Zailiiskij Alatau, Tian  
Shan, Kasachstan). *Arbeitsmethoden der Physischen Geographie*.  
Arbeitsband: Methoden und Ergebnisse. Reihe: Arbeitsberichte des  
Geographischen Institutes der Humboldt-Universität zu Berlin, **150**.

German Title: Landschaftsökologie des Hochgebirges (Zailiiskij  
Alatau, Tian Shan, Kasachstan). [Available online](#)

Hostert, P., Kuemmerle, T., **Baumann, M.** (2010): Patterns and 1  
outcomes of post-socialist land-use change in the Carpathian  
Mountains. MRI-Newsletter No. 5. [Available online](#)

---

INVITED **Baumann, M.** Cambios de uso del suelo y emissions de carbon en el 2  
PRESENTATIONS Chaco 1985-2013. *Instituto Nacional de Tecnologia Agropecuaria*  
(I.N.T.A.). Oct. 5<sup>th</sup> 2015

**Baumann, M.** Land-use changes in the Caucasus during and after the 1  
Nagorno-Karabakh conflict. Dept. of Environmental Science, Policy  
and Management. *University of California at Berkeley*. Oct. 7<sup>th</sup> 2014

---

CONFERENCE **Baumann, M.**, Levers, C., Haberl, H. (2016). Competition for land-based  
CONTRIBUTIONS ecosystem services at multiple geographic scales. Contributed Session, *Global  
Land Programme Open Science Meeting. Beijing (CN), Oktober 24-29 2016*

Piquer-Rodriguez, M., **Baumann, M.**, Butsic, V., Gasparri, N.I., Gavier  
Pizarro, G., Volante, J., Kuemmerle, T. (2016). Alternative economic policies  
and future land-use in Northern Argentina. *Global Land Programme Open  
Science Meeting. Beijing (CN), Oktober 24-29 2016*

**Baumann, M.**, Kamp, J., Bleyhl, B., Kuemmerle, T. (2016). Cropland  
abandonment, re-cultivation and protected area effectiveness in the steppes  
of Kazakhstan. *Global Land Programme Open Science Meeting. Beijing (CN),  
Oktober 24-29 2016*

**Baumann, M.**, Kuemmerle, T., Bleyhl, B., Kamp, J., Prishchepov, A. (2016).  
Cropland abandonment, rewilding and its effect on protected area  
connectivity in Kazakhstan. *North American Congress for Conservation Biology.  
Madison WI (USA), July 17-20 2016*.

Kuemmerle, T., **Baumann, M.**, Macchi, L., Gasparri, N.I., Piquer Rodriguez,  
M., Volante, J.N., Gavier Pizarro, G. (2016). Carbon emissions due to land-use  
change and carbon corridors between conservation priority areas in the  
South American Chaco. *North American Congress for Conservation Biology*.

Madison WI (USA), July 17-20 2016.

Bleyhl, B., **Baumann, M.**, Askerov, E., Bragina, E., Gavashelishvili, A., Ghoddousi, A., Khorozyan, I., Manvelyan, K., Radeloff, V.C., Sipko, T., Trepel, S., Weinberg, P., Zazanashvili, N., Kuemmerle, T. (2016). Large mammal habitat distribution and connectivity in the Caucasus. *North American Congress for Conservation Biology. Madison WI (USA), July 17-20 2016.*

Hamilton, C.M., **Baumann, M.**, Pidgeon, A.M., Thogmartin, W., Heglund, P., Radeloff, V.C. (2016). Past and predicted future effects of housing growth on open space conservation and habitat connectivity around National Wildlife Refuges. *North American Congress for Conservation Biology. Madison WI (USA), July 17-20 2016*

Burnham, J.W., **Baumann, M.**, Radeloff, V.C., Pidgeon, A.M., Barzen, J., Wu, H., Yang, X. (2016). Black-necked Crane habitat selection and land cover change at China's Napahai wetland from 1990-2010. *North American Congress for Conservation Biology. Madison WI (USA), July 17-20 2016*

Santos, M.J., **Baumann, M.**, Rosalino, L.M., Matos, H.M., Esgalhado, C., Driesen, S., Santos-Reis, M., Ustin, S.L. (2016) Adequacy of remote sensing to assess productivity-habitat associations in Mediterranean-type ecosystems. *Living Planet Symposium (LPS). Prague May 9-12 2016*

Dara, A., **Baumann, M.**, Kuemmerle, T., Mueller, D., Hostert, P. (2016). Mapping cropland abandonment and re-cultivation in Northern Kazakhstan from 1984 to 2015 using dense Landsat time series. *Living Planet Symposium (LPS). Prague May 9-12 2016*

**Baumann, M.**, Kuemmerle, T., Piquer-Rodriguez, M., Gasparri, N.I. (2015). Carbon emissions from land-use change in the Chaco. *Deutscher Kongress für Geographie (DKG). Berlin Sep 28-30 2015.*

**Baumann, M.**, Pflugmacher, D., Hostert, P., Griffiths, P., Kuemmerle, T. (2015). Farmland abandonment in the EU: Combining satellite data and a literature research. *Deutscher Kongress für Geographie (DKG). Berlin Sep 28-30 2015.*

Kuemmerle, T., Estel, S., **Baumann, M.**, Levers, C., Mueller, D., Erb, K., Verburg, P. (2015). Farmland abandonment and intensification in Europe since 1990. *World-IALE, Portland OR (USA), July 5-8 2015.*

**Baumann, M.**, Kuemmerle, T., Avedian, V., Radeloff, V.C. (2015) Warfare as a(nother) trigger for regime shifts in land-use systems: The case of Nagorno-Karabakh. *World-IALE, Portland OR (USA), July 5-8 2015.*

Hostert, P., **Baumann, M.**, Griffiths, P., Kuemmerle, T., Kuenzer, C., van der Linden, S., Muller, H., Pflugmacher, D., Rufin, P., Senf, C. (2015) Time series analysis: Potentials and challenges exploiting optical satellite data for Land System Science. *36<sup>th</sup> International Symposium on Remote Sensing of Environment,*

*Berlin (GER), May 11-15 2015*

**Baumann, M.**, Ozdogan, M., Radeloff, V.C., Hostert, P., Kuemmerle, T. (2014). Landsat Green-Leaf Phenology using Dynamic Time Warping and all available Landsat data. *Sentinel-2 for Science Workshop, Frascati (IT), May 20-22 2014*.

Jakimow, B., Griffiths, P., Muller, H., **Baumann, M.**, Hostert, P. (2014). Exploring dense Landsat time series to monitor forest change in the Brazilian Amazon. *Sentinel-2 for Science Workshop, Frascati (IT), May 20-22 2014*.

**Baumann, M.**, Radeloff, V.C., Avedian, V., Kuemmerle, T. (2014). Direct and displacement effects on land-use change during the Nagorno-Karabakh conflict. *Global Land Project Open Science Meeting (GLP-OSM) 2014, Berlin (GER), Mar 19-21 2014*

Kuemmerle, T., **Baumann, M.**, Butsic, V., Shortland, A., Radeloff, V.C., Brueck, T. (2014). Warfare effects on land system dynamics. *Global Land Project Open Science Meeting (GLP-OSM) 2014, Berlin (GER), Mar 19-21 2014*

**Baumann, M.**, Ozdogan, M., Radeloff, V.C. (2014) Modelling green-leaf Phenology using all available Landsat data and dynamic time warping (DTW). *NASA/EARSeL-Workshop 2014, Berlin (GER), March 17-18 2014*.

Ostapowicz, K., Griffiths, P., Munteanu, C., **Baumann, M.**, Kuemmerle, T., Hostert, P, Radeloff, V.C. (2014). Land-Cover mapping at the regional scale with use of Landsat data: The Carpathian case study. *NASA/EARSeL-Workshop 2014, Berlin (GER), March 17-18 2014*.

Rittenhouse, C.D., **Baumann, M.**, Radeloff, V.C. (2013). Mapping Forest Disturbance and Afforestation to Identify Potential Habitat for New England Cottontail. *Wildlife Society Meeting, Milwaukee, WI, October 9-11 2013*.

Bragina, E., Wendland, K., **Baumann, M.**, Sieber, A., Kuemmerle T., Pidgeon A.M., Alexandre P., Radeloff V.C. (2013). Effectiveness of Russian Protected Areas before and after Transition to Post-Socialism. *26<sup>th</sup> International Congress for Conservation Biology, Baltimore, MD, July 21-25 2013*.

**Baumann, M.**, Wendland, K.J., Ozdogan, M., Radeloff, V.C. (2012). Does separating disturbance types affect modeling of drivers of timber harvest? *IAMO-Forum 2012, Halle (GER), June 20-22 2012*.

**Baumann, M.** (2012). Reviewing the data gap to perform large scale RS-analyses in the CEEC. *IAMO-Forum 2012, Halle (GER), June 20-22 2012*.

**Baumann, M.**, Ozdogan, M., Radeloff, V.C. (2012) Forest-Cover Changes following Socio-Economic Changes in the Temperate Zone of European Russia. *Planet under Pressure Conference 2012, London (GB), March 26-29 2012*.

Aronson, G., Ozdogan, M., **Baumann, M.**, Radeloff, V.C. (2012). Global comparison of automated cloud detection algorithms: A comprehensive assessment. *NASA LCLUC-Meeting, Rockville (MD), April 3-5 2012*.



Radeloff, V. C., C. Alcantara, L. Baskin, E. Bragina, O. Chaskovskyy, M. Dubinin, P. Hostert, J. Knorn, J. Kozak, I. Kruhlov, T. Kuemmerle, A. Lushchekina, D. Mueller, K. Perzanowski, A. Prishchepov, A. Rabe, K. de Beurs, G. Henebry, G. Ioffe, T. Nefedova, M. Ozdogan, D. Aksenov, **M. Baumann**, A. Jaroshenko, K. Wendland, Peter Potapov, M. Hansen, S. Turubanova, C. Woodcock, P. Olofsson, A. Baccini, V. Gancz, R. Houghton, P. Torchinava 2011. The Great Eurasian Transition: Changing social and economic policies and their implications for the World's largest continent. *NASA Carbon Cycle and Ecosystems Joint Science Workshop 3-7 October 2011, Alexandria, Virginia.*

Prishchepov, A. V., V. C. Radeloff, D. Mueller, M. Dubinin, and **M. Baumann** (2011). Determinants of agricultural land abandonment in post-Soviet European Russia. *IAMO Forum, 23-24 June 2011, Halle, Germany.*

Kuemmerle, T., P. Olofsson, **M. Baumann**, O. Chaskovskyy, V. C. Radeloff, C. Woodcock, and P. Hostert (2011). Land use changes during the Soviet and post-Soviet era and their effects on carbon fluxes in Western Ukraine. *The 31st EARSEL Symposium, 30 May - 2 June 2011, Prague, Czech Republic.*

**Baumann, M.**, Ozdogan, M., Radeloff, V.C., Kuemmerle, T., Wendland, K.J., Esipova, E. (2011): Regional Difference of post-Soviet forest disturbance in temperate European Russia. *ASPRS Annual Conference, Milwaukee (WI), May 2-5.*

Ozdogan, M., **Baumann, M.**, Wendland, K.J., Radeloff, V.C., Aksenov, D. (2011): Linking Past to Present in European Russia's Temperate Forests. *NASA LCLUC-Meeting, Bethesda (MD), March 29.*

Kuemmerle, T., Olofsson, P., Chaskovskyy, O., **Baumann, M.**, Ostapowicz, K., Woodcock, C.E., Houghton, R.A., Hostert, P., Keeton, W.S., Radeloff, V.C. (2010): Logging and land abandonment in Western Ukraine: effects on carbon fluxes and future carbon storage potential. *Forum Carpathicum, Krakow (Poland), September 15-17*

**Baumann, M.**, Kuemmerle, T., Radeloff, V.C., Ozdogan, M., Prishchepov, A.V., Elbakidze, M., Hostert, P. (2010): Determinants of Post-Socialist Farmland Abandonment in the Ukrainian Carpathians. *GLP Open Science Meeting, Tempe (AZ), October 17-19.*

Kuemmerle, T., Olofsson, P., **Baumann, M.**, Radeloff, V.C., Woodcock, C., Hostert, P. (2010): Post-Soviet farmland abandonment and carbon storage in Western Ukraine. *GLP Open Science Meeting, Tempe (AZ), October 17-19.*

Prishchepov, A.V., Radeloff, V.C., Mueller, D., Wendland, K., **Baumann, M.**, Kuemmerle, T. (2010): Impact of rapid socio-economic change on land-use: detecting agricultural land abandonment and analyzing its drivers in post-Soviet Russia. *GLP Open Science Meeting, Tempe (AZ), October 17-19.*

Prishchepov, A.V., Radeloff, V.C., Dubini, M.Y., Alcantara, C., **Baumann, M.**,

Kuemmerle, T., Muller, D., Wendland, K. (2010): Massive socio-economic changes and land-use change: detecting agricultural land abandonment and its drivers in post-Soviet Eastern Europe. *NASA Science-Team Meeting. Tartu (Estonia), August 25-28.*

**Baumann, M.**, Kuemmerle, T., Radeloff, V.C., Ozdogan, M., Elbakidze, M., Prishchepov, A.V., Hostert, P. (2010): Drivers of Farmland Abandonment in Western Ukraine. *NASA Science-Team Meeting. Tartu (Estonia), August 25-28.*

Prishchepov, A.V., Radeloff, V.C., Dubinin, M.Y., Alcantara, C., **Baumann, M.**, Kuemmerle, T., Muller, D., Wendland, K. (2010): Effects of massive socio-economic changes on land-use change: detecting agricultural land abandonment and understanding its drivers in post-soviet Eastern Europe. *NASA Science-Team Meeting. Bethesda MD, April 19-22.*

Radeloff, V.C., Alcantara, C., Baskin, L., Chaskovskyy, O., Dubinin, M., Hostert, P., Knorn, J., Kozak, J., Kruhlov, I., Kuemmerle, T., Lushchekina, A., Mueller, D., Perzanowski, K., Prishchepov, A., Rabe, A., de Beurs, K., Henebry, G., Ioffe, G., Nefedova, T., Ozdogan, M., Aksenov, D., **Baumann, M.**, Jaroshenko, A., Wendland, K. (2010): Land Changes and Institutional Drivers in the NEESPI region. *NASA Science-Team Meeting. Bethesda MD, April 19-22.*

Wendland, K., Radeloff, V.C., Ozdogan, M., Lewis, D., **Baumann, M.**, Aksenov, D., Yaroshenko, A., Prishchepov, A.V. (2010): Impacts of new market institutions on timber harvesting in European Russia. *NASA Science-Team Meeting. Bethesda MD, April 19-22.*

---

## SERVICES AND

### SUPERVISION

#### MSc-Supervision

*D. Funke (2014), V. Fehlenberg (2015)*

#### BSc-Supervision

*L. Furch (2016)*

#### Outreach activities

*2014, 2015: High-School visits to teach about Land-Use Change*

*2015, 2016: Berliner Schuelergesellschaft*

*2016: Arbeitsmarkt fuer Geographen*

*2016: Interview on deforestation in the Chaco @ Humboldt-University News*

*(<https://hu.berlin/16385>)*

#### Reviewer for

*Landscape Ecology, Land Use Policy, Mountain Research and Development, Environmental Research Letters, Journal of Mountain Science, International Journal of Remote Sensing, Remote Sensing of Environment, Journal of Land Use Science, Remote Sensing Letters, AMBIO, IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, International Journal of Applied Earth Observation and Geoinformation, Regional Environmental Change, ISPRS Journal of Photogrammetry and Remote Sensing, Remote Sensing*

#### Other

*2014-2016 & 2016-2018, Elected member of the Institutional Board, Geography Department, Humboldt-University Berlin*