

Alexander Prishchepov  
Associate Professor  
Geography  
Postal address:  
Øster Voldgade 10, 1350 København K  
Email: alpr@ign.ku.dk  
Phone: +45 35 33 13 86



My primary research interests lay in the field of Land System Science. My expertise and research interests include monitoring of dynamic of land cover and land use, analysis of the causal drivers of land-use/ land-cover change, agricultural potentials and consequences of such changes for the environment. My primary geography focus is on the transition economies in Northern Eurasia. However I am also conducting comparative studies elsewhere too. Shortly, through my research and professional service I do my best to uncover complex relationship between humans and environment in order to find solutions for sustainable development, such as agriculture and preservation of ecosystem services. My work is highly interdisciplinary and collaborative, and stretches across institutions and countries. I am opened for new opportunities of doing research, projects and supervision of prospective students. I pay specific attention to dissemination of findings in the studied countries and keep close relationship with many organizations, which may help bring research results into practice. If you feel the focus of my research matches your interests, please do not hesitate to contact me.

## Publications

### **An Improved Approach to Estimate Stocking Rate and Carrying Capacity Based on Remotely Sensed Phenology Timings**

Shi, Y., Brierley, G., Perry, G. L. W., Gao, J., Li, X., Prishchepov, Alexander V., Li, J. & Han, M., 2024, In: Remote Sensing. 16, 11, 18 p., 1991.

### **Mapping cropland abandonment and distinguishing from intentional afforestation with Landsat time series**

Hong, C., Prishchepov, Alexander V., Jin, X. & Zhou, Y., 2024, In: International Journal of Applied Earth Observation and Geoinformation. 127, 14 p., 103693.

### **Understanding habitat isolation in the context of construction land expansion using an ecological network approach**

Ding, G., Guo, J., Ou, M. & Prishchepov, Alexander V., 2024, In: Landscape Ecology. 39, 3, 20 p., 56.

### **Understanding the spatial disparity in socio-economic recovery of coastal communities following typhoon disasters**

Ding, Shengping, Xu, L., Liu, S., Yang, X., Wang, L., Pérez-Sindín, Xaquín S. & Prishchepov, Alexander V., 2024, In: Science of the Total Environment. 919, 14 p., 170831.

### **Assessing forest conservation outcomes of a nature reserve in a subtropical forest ecosystem: effectiveness, spillover effects, and insights for spatial conservation prioritization**

Xia, Hao, Li, H. & Prishchepov, Alexander V., 2023, In: Biological Conservation. 285, 13 p., 110254.

### **Detection and mapping of artillery craters with very high spatial resolution satellite imagery and deep learning**

Duncan, E. C., Skakun, S., Kariryaa, Ankit & Prishchepov, Alexander V., 2023, In: Science of Remote Sensing. 7, 11 p., 100092.

### **Determinants of farmland abandonment in the urban–rural fringe of Ghana**

Bavorová, M., Ullah, A., Nyendu, D. & Prishchepov, Alexander V., 2023, In: Regional Environmental Change. 23, 12 p., 122.

### **Higher depression risks in medium- than in high-density urban form across Denmark**

Chen, T. K., Horsdal, H. T., Samuelsson, K., Closter, A. M., Davies, Megan, Barthel, S., Pedersen, C. B., Prishchepov, Alexander V. & Sabel, C. E., 2023, In: Science Advances. 10 p.

### **Historical and future perspectives of agricultural land abandonment and carbon sequestration**

Bell, S. M., Prishchepov, Alexander V., Schillaci, C., Goll, D. & Ciais, P., 2023. 1 p.

### **Spatial-temporal heterogeneity of ecosystem service interactions and their social-ecological drivers: Implications for spatial planning and management**

Xia, Hao, Yuan, S. & Prishchepov, Alexander V., 2023, In: Resources, Conservation and Recycling. 189, 16 p., 106767.

### **The neglected role of abandoned cropland in supporting both food security and climate change mitigation**

Zheng, Q., Ha, T., Prishchepov, Alexander V., Zeng, Y., Yin, H. & Koh, L. P., 2023, In: Nature Communications. 14, 13 p., 6083.

### **The role of harmonized Landsat Sentinel-2 (HLS) products to reveal multiple trajectories and determinants of cropland abandonment in subtropical mountainous areas**

Hong, C., Prishchepov, Alexander V., Jin, X., Han, B., Lin, J., Liu, J., Ren, J. & Zhou, Y., 2023, In: Journal of Environmental Management. 336, 13 p., 117621.

### **Probabilistic assessment of vegetation vulnerability to drought stress in Central Asia**

Yuan, Y., Bao, A., Jiang, P., Hamdi, R., Termonia, P., Maeyer, P. D., Guo, H., Zheng, G., Yu, T. & Prishchepov, Alexander V., May 2022, In: Journal of Environmental Management. 310, 14 p., 114504.

### **Advancing the study of driving forces of landscape change**

Bürgi, M., Celio, E., Diogo, V., Hersperger, A. M., Kizos, T., Lieskovsky, J., Pazur, R., Plieninger, T., Prishchepov, Alexander V. & Verburg, P. H., 2022, In: Journal of Land Use Science. 17, 1, p. 540-555 16 p.

### **EMERGENCY FLOOD MAPPING IN AUSTRALIA WITH SENTINEL-1 AND SENTINEL-2 SATELLITE IMAGERY = CARTOGRAPHIE D'URGENCE DES INONDATIONS EN AUSTRALIE À PARTIR D'IMAGES SATELLITAIRES SENTINEL-1 ET SENTINEL-2**

Meyer, Rasmus Probst, Søgaard, M. G., Schødt, M. P., Horion, Stéphanie & Prishchepov, Alexander V., 2022, In: BSLG. 78, 1, p. 123-138 16 p.

### **High-Impact Hot Spots of Land Cover Land Use Change in Ukraine**

Skakun, S., Abys, C., Adegbenro, M., Becker-Reshef, I., Duncan, E., Eun, J., Hall, J., Qadir, A., Shumilo, L., Zhang, Y., Kussul, N., Shelestov, A. & Prishchepov, Alexander V., 2022, *Proceedings of the 2022 IEEE 12th International Conference on Dependable Systems, Services and Technologies, DESSERT 2022*. IEEE, 5 p. (Proceedings of the 2022 IEEE 12th International Conference on Dependable Systems, Services and Technologies, DESSERT 2022).

### **Improving Satellite Monitoring of Armed Conflicts**

Bennett, M. M., Van den Hoek, J., Zhao, B. & Prishchepov, Alexander V., 2022, In: Earth's Future. 10, 9, 6 p., e2022EF002904.

### **Mapping the spatial and temporal patterns of fallow land in mountainous regions of China**

Song, W., Prishchepov, Alexander V. & Song, W., 2022, In: International Journal of Digital Earth. 15, 1, p. 2148–2167 20 p.

### **Transformation of rural landscapes in the Vietnamese Mekong Delta from 1990 to 2019: a spatio-temporal analysis**

Nguyen, H., Trung, T. H., Phan, D. C., Anh Tran, T., Thi Hai Ly, N., Nasahara, K. N., Prishchepov, Alexander V. & Hölzel, N., 2022, In: Geocarto International. 37, 26, p. 13881–13903

### **Are night-time lights a good proxy of economic activity in rural areas in middle and low-income countries? Examining the empirical evidence from Colombia**

Pérez-Sindín, Xaquín S., Chen, T. K. & Prishchepov, Alexander V., 1 Nov 2021, In: Remote Sensing Applications: Society and Environment. 24, 14 p., 100647.

### **Spring fires in Russia: Results from participatory burned area mapping with Sentinel-2 imagery**

Glushkov, I., Zhuravleva, I., McCarty, J. L., Komarova, A., Drozdovsky, A., Drozdovskaya, M., Lupachik, V., Yaroshenko, A., Stehman, S. V. & Prishchepov, Alexander V., 22 Oct 2021, In: Environmental Research Letters. 16, 12, 16 p., 125005.

**How is urbanization shaping agricultural land-use? Unraveling the nexus between farmland abandonment and urbanization in China**

Hou, D., Meng, F. & Prishchepov, Alexander V., Oct 2021, In: *Landscape and Urban Planning*. 214, 16 p., 104170.

**Revealing the intentions of farmers to recultivate abandoned farmland: A case study of the Buryat Republic in Russia**

Prishchepov, Alexander V., Ponkina, E. V., Sun, Z., Bavorova, M. & Yekimovskaja, O. A., 1 Aug 2021, In: *Land Use Policy*. 107, 14 p., 105513.

**Unraveling the change of land-use regimes with satellite and ground surveys in the steppe belt of Russia from 1990 to 2018**

Prishchepov, Alexander V., Yakovlev, I. & Myachina, K., 21 Jul 2021, In: *IOP Conference Series: Earth and Environmental Science*. 817, 1, 8 p., 012089.

**Mapping the dynamics of winter wheat in the north china plain from dense landsat time series (1999 to 2019)**

Zhang, Wenmin, Brandt, Martin Stefan, Prishchepov, Alexander V., Li, Z., Lyu, C. & Fensholt, Rasmus, 2 Mar 2021, In: *Remote Sensing*. 13, 6, 1170.

**Unraveling the diversity of trajectories and drivers of global agricultural land abandonment**

Prishchepov, Alexander V., Schierhorn, F. & Löw, F., Feb 2021, In: *Land*. 10, 2, 8 p., 97.

**Dynamics of soil organic carbon in the steppes of Russia and Kazakhstan under past and future climate and land use**

Rolinski, S., Prishchepov, Alexander V., Guggenberger, G., Bischoff, N., Kurganova, I., Schierhorn, F., Müller, D. & Müller, C., 2021, In: *Regional Environmental Change*. 21, 3, 16 p., 73.

**Multiple trajectories of grassland fragmentation, degradation, and recovery in Russia's steppes**

Prishchepov, Alexander V., Myachina, K. V., Kamp, J., Smelansky, I., Dubrovskaya, S., Ryakhov, R., Grudin, D., Yakovlev, I. & Urazaliyev, R., 2021, In: *Land Degradation and Development*. 32, 11, p. 3220-3235 16 p.

**Restoring steppe landscapes: patterns, drivers and implications in Russia's steppes**

Pazur, R., Prishchepov, Alexander V., Myachina, K., Verburg, P. H., Levykin, S., Ponkina, E. V., Kazachkov, G., Yakovlev, I., Akhmetov, R., Rogova, N. & Bürgi, M., 2021, In: *Landscape Ecology*. 36, p. 407-425 19 p.

**Study of farmer's behavior in recultivation of abandoned farmland: Example of the republic of buryatia**

Prishchepov, Alexander V., Ponkina, E. V., Sun, Z., Bavorova, M. & Yekimovskaja, O. A., 2021, In: *Spatial Economics*. 17, 3, p. 59-102 44 p.

**The fate of rangelands: Revealing past and predicting future land-cover transitions from 1985 to 2036 in the drylands of Central Iran**

Mazloum, B., Pourmanafi, S., Soffianian, A., Salmanmahiny, A. & Prishchepov, Alexander V., 2021, In: *Land Degradation and Development*. 32, 14, p. 4004-4017 14 p.

**The impact of conflict-driven cropland abandonment on food insecurity in South Sudan revealed using satellite remote sensing**

Olsen, V. M., Fensholt, Rasmus, Olofsson, P., Bonifacio, R., Butsic, V., Druce, D., Ray, D. & Prishchepov, Alexander V., 2021, In: *Nature Food*. 2, 12, p. 990-996 7 p.

**Mapping horizontal and vertical urban densification in Denmark with Landsat time-series from 1985 to 2018: A semantic segmentation solution**

Chen, T. H. K., Qiu, C., Schmitt, M., Zhu, X. X., Sabel, C. E. & Prishchepov, Alexander V., 15 Dec 2020, In: *Remote Sensing of Environment*. 251, 17 p., 112096.

**Creating cloud-free satellite imagery from image time series with deep learning**

Oehmcke, Stefan, Chen, T. H. K., Prishchepov, Alexander V. & Gieseke, Fabian Cristian, 3 Nov 2020, *Proceedings of the 9th ACM SIGSPATIAL International Workshop on Analytics for Big Geospatial Data, BIGSPATIAL 2020*. Chandola, V., Vatsavai, R. R. & Shashidharan, A. (eds.). Association for Computing Machinery, 10 p. 3

**Cold War spy satellite images reveal long-term declines of a philopatric keystone species in response to cropland expansion**

Munteanu, C., Kamp, J., Nita, M. D., Klein, N., Kraemer, B. M., Müller, D., Koshkina, A., Prishchepov, Alexander V. & Kuemmerle, T., 27 May 2020, In: *Proceedings. Biological sciences.* 287, 1927, 10 p., 20192897.

**800 Years of Agricultural Land-use Change in Asian (Eastern) Russia**

Prishchepov, Alexander V., Schierhorn, F., Dronin, N., Ponkina, E. V. & Müller, D., 2020, *KULUNDA: Climate Smart Agriculture*. Frühauf, M., Guggenberger, G., Meinel, T., Theesfeld, I. & Lentz, S. (eds.). Springer, p. 67-87 20 p. (Innovations in Landscape Research).

**Abandonment and Recultivation of Agricultural Lands in Slovakia—Patterns and Determinants from the Past to the Future**

Pazúr, R., Lieskovský, J., Bürgi, M., Müller, D., Lieskovský, T., Zhang, Z. & Prishchepov, Alexander V., 2020, In: *Land.* 9, 9, 22 p., 316.

**Agricultural Land Abandonment**

Prishchepov, Alexander V., 2020, *Environmental Science*. Wohl, E. (ed.). Oxford University Press, (Oxford Bibliographies Online).

**Annual Landsat time series reveal post-Soviet changes in grazing pressure**

Dara, A., Baumann, M., Freitag, M., Hölzel, N., Hostert, P., Kamp, J., Müller, D., Prishchepov, Alexander V. & Kuemmerle, T., 2020, In: *Remote Sensing of Environment.* 239, 111667.

**Declining human pressure and opportunities for rewilding in the steppes of Eurasia**

Baumann, M., Kamp, J., Pötzschner, F., Bleyhl, B., Dara, A., Hankerson, B., Prishchepov, Alexander V., Schierhorn, F., Müller, D., Hölzel, N., Krämer, R., Urazaliyev, R. & Kuemmerle, T., 2020, In: *Diversity and Distributions.* 26, 9, p. 1058-1070 13 p.

**Effects of building density on land surface temperature in China: Spatial patterns and determinants**

Song, J., Chen, W., Zhang, J., Huang, K., Hou, B. & Prishchepov, Alexander V., 2020, In: *Landscape and Urban Planning.* 198, 103794.

**Large scale reforestation of farmlands on sloping hills in South China karst**

Yue, Y., Liao, C., Tong, Xiaowei, Wu, Z., Fensholt, Rasmus, Prishchepov, Alexander V., Jepsen, Martin Rudbeck, Wang, K. & Brandt, Martin Stefan, 2020, In: *Landscape Ecology.* 35, p. 1445–1458 14 p.

**Mapping winter wheat with combinations of temporally aggregated Sentinel-2 and Landsat-8 data in Shandong Province, China**

Xu, F., Li, Z., Zhang, S., Huang, N., Quan, Z., Zhang, W., Liu, X., Jiang, X., Pan, J. & Prishchepov, Alexander V., 2020, In: *Remote Sensing.* 12, 12, 2065.

**Agricultural abandonment and re-cultivation during and after the Chechen Wars in the northern Caucasus**

Yin, H., Butsic, V., Buchner, J., Kuemmerle, T., Prishchepov, Alexander V., Baumann, M., Bragina, E. V., Sayadyan, H. & Radeloff, V. C., 2019, In: *Global Environmental Change.* 55, p. 149-159 11 p.

**Climate change has likely already affected global food production**

Ray, D. K., West, P. C., Clark, M., Gerber, J. S., Prishchepov, Alexander V. & Chatterjee, S., 2019, In: *PLoS ONE.* 14, 5, 18 p., : e0217148.

**Detecting and monitoring long-term landslides in urbanized areas with nighttime light data and multi-seasonal Landsat imagery across Taiwan from 1998 to 2017**

Chen, T. H. K., Prishchepov, Alexander V., Fensholt, Rasmus & Sabel, C. E., 2019, In: *Remote Sensing of Environment.* 225, p. 317-327 11 p.

**From woody cover to woody canopies: How Sentinel-1 and Sentinel-2 data advance the mapping of woody plants in savannas**

Zhang, Wenmin, Brandt, Martin Stefan, Wang, Q., Prishchepov, Alexander V., Tucker, C. J., Li, Y., Lyu, H. & Fensholt, Rasmus, 2019, In: Remote Sensing of Environment. 234, 12 p., 111465.

**Large greenhouse gas savings due to changes in the post-Soviet food systems**

Schierhorn, F., Kastner, T., Kuemmerle, T., Meyfroidt, P., Kurganova, I., Prishchepov, Alexander V., Erb, K. H., Houghton, R. A. & Müller, D., 2019, In: Environmental Research Letters. 14, 6, 13 p., 065009.

**Mapping spatio-temporal patterns and detecting the factors of traffic congestion with multi-source data fusion and mining techniques**

Song, J., Zhao, C., Zhong, S., Nielsen, T. A. S. & Prishchepov, Alexander V., 2019, In: Computers, Environment and Urban Systems. 77, 12 p., 101364.

**Modeling the spatial distribution of grazing intensity in Kazakhstan**

Hankerson, B. R., Schierhorn, F., Prishchepov, Alexander V., Dong, C., Eisfelder, C. & Mueller, D., 2019, In: PLoS ONE. 14, 1, 27 p., e0210051.

**Monitoring finer-scale population density in urban functional zones: A remote sensing data fusion approach**

Song, J., Tong, Xiaoye, Wang, L., Zhao, C. & Prishchepov, Alexander V., 2019, In: Landscape and Urban Planning. 190, 12 p., 103580.

**Revealing the determinants of wheat yields in the Siberian breadbasket of Russia with Bayesian networks**

Prishchepov, Alexander V., Ponkina, E., Sun, Z. & Müller, D., 2019, In: Land Use Policy. 80, p. 21-31 11 p.

**Spatial determinants and underlying drivers of land-use transitions in European Russia from 1770 to 2010**

Matasov, V., Prishchepov, Alexander V., Jepsen, Martin Rudbeck & Mueller, D., 2019, In: Journal of Land Use Science. 14, 4-6, p. 362-377 16 p.

**Spatio-temporal patterns of traffic-related air pollutant emissions in different urban functional zones estimated by real-time video and deep learning technique**

Song, J., Zhao, C., Lin, T., Li, X. & Prishchepov, Alexander V., 2019, In: Journal of Cleaner Production. 238, 10 p., 117881.

**Spatial variation in determinants of agricultural land abandonment in Europe**

Levers, C., Schneider, M., Prishchepov, Alexander V., Estel, S. & Kuemmerle, T., 10 Dec 2018, In: Science of the Total Environment. 644, p. 95-111 17 p.

**Increasing crop production in Russia and Ukraine-regional and global impacts from intensification and recultivation**

Deppermann, A., Balkovic, J., Bundle, S., Di Fulvio, F., Havlik, P., Leclère, D., Lesiv, M., Prishchepov, Alexander V. & Schepaschenko, D., 2018, In: Environmental Research Letters. 13, 2, 12 p., 025008.

**Mapping Cropland Abandonment in the Aral Sea Basin with MODIS Time Series**

Löw, F., Prishchepov, Alexander V., Waldner, F., Dubovyk, O., Akramkhanov, A., Biradar, C. & Lamers, J. P. A., 2018, In: Remote Sensing. 10, 2

**Mapping Urban Functional Zones by Integrating Very High Spatial Resolution Remote Sensing Imagery and Points of Interest: A Case Study of Xiamen, China**

Song, J., Lin, T., Li, X. & Prishchepov, Alexander V., 2018, In: Remote Sensing. 10, 11, 15 p., 1737.

**Mapping agricultural land abandonment from spatial and temporal segmentation of Landsat time series**

Yin, H., Prishchepov, Alexander V., Kuemmerle, T., Bleyhl, B., Buchner, J. & Radeloff, V. C., 2018, In: Remote Sensing of Environment. 210, p. 12-24 13 p.

#### **Spatial distribution of arable and abandoned land across former Soviet Union countries**

Lesiv, M., Schepaschenko, D., Moltchanova, E., Bun, R., Dürauer, M., Prishchepov, Alexander V., Schierhorn, F., Estel, S., Kuemmerle, T., Alcantara, C., Kussul, N., Shchepashchenko, M., Kutovaya, O., Martynenko, O., Karminov, V., Shvidenko, A., Havlik, P., Kraxner, F., See, L. & Fritz, S., 2018, In: *Scientific Data*. 5, 12 p., 180056 .

#### **Urbanization and sustainability under transitional economies: a synthesis for Asian Russia**

Fan, P., Chen, J., Ouyang, Z., Groisman, P., Loboda, T., Gutman, G., Prishchepov, Alexander V., Kvashnina, A., Messina, J., Moore, N., Myint, S. W. & Qi, J., 2018, In: *Environmental Research Letters*. 13, 9, 18 p., 095007.

#### **Northern Eurasia Future Initiative (NEFI): facing the challenges and pathways of global change in the twenty-first century**

Groisman, P., Shugart, H., Kicklighter, D., Henebry, G., Tchepakova, N., Maksyutov, S., Monier, E., Gutman, G., Gulev, S., Qi, J., Prishchepov, A., Kukavskaya, E., Porfiriev, B., Shiklomanov, A., Loboda, T., Shiklomanov, N., Nghiem, S., Bergen, K., Albrechtova, J., Chen, J. & 9 others, Shahgedanova, M., Shvidenko, A., Speranskaya, N., Soja, A., de Beurs, K., Bulygina, O., McCarty, J., Zhuang, Q. & Zolina, O., 27 Dec 2017, In: *Progress in Earth and Planetary Science*. 4, 48 p., 41.

#### **A novel understanding of land use characteristics caused by mining activities: a case study of Wu'an, China**

Zhang, J., Rao, Y., Geng, Y., Fu, M. & Prishchepov, Alexander V., 2017, In: *Ecological Engineering*. 99, p. 54-69 16 p.

#### **Alternative spatial allocation of suitable land for biofuel production in China**

Zhang, J., Chen, Y., Rao, Y., Fu, M. & Prishchepov, Alexander V., 2017, In: *Energy Policy*. 110, p. 631-643 13 p.

#### **Changes of cropland area in the river basins of the European part of Russia for the period 1985-2015, as a factor of soil erosion dynamics: Изменения площади пахотных угодий в бассейнах рек Европейской территории России за период 1985–2015 гг. как фактор динамики эрозии почв**

Ivanov, M. A., Prishchepov, Alexander V., Golosov, V. N., Zalyaliev, R. R., Efimov, K. V., Kondrat'eva, A. A., Kinyashova, A. D. & Ionova, Y. K., 2017, In: *Sovremennye Problemy Distantionnogo Zondirovaniya Zemli iz Kosmosa*. 14, 6, p. 149-157 9 p.

#### **How conflict affects land use: agricultural activity in areas seized by the Islamic State**

Eklund, L., Degerald, M., Brandt, Martin Stefan, Prishchepov, Alexander V. & Pilesjö, P., 2017, In: *Environmental Research Letters*. 12, 5, 10 p., 054004.

#### **Method of croplands dynamics mapping in river basins of the European part of Russia for the period of 1985-2015: Методика картографирования динамики пахотных угодий в бассейнах рек Европейской территории России за период 1985–2015 гг.**

Ivanov, M. A., Prishchepov, Alexander V., Golosov, V. N., Zalyaliev, R. R., Efimov, K. V., Kondrat'eva, A. A., Kinyashova, A. D. & Ionova, Y. K., 2017, In: *Sovremennye Problemy Distantionnogo Zondirovaniya Zemli iz Kosmosa*. 14, 5, p. 161-171 11 p.

#### **Production potential in the “bread baskets” of Eastern Europe and Central Asia**

Swinnen, J., Burkitbayeva, S., Schierhorn, F., Prishchepov, Alexander V. & Müller, D., 2017, In: *Global Food Security*. 14, p. 38-53 16 p.

#### **Revisiting the coupling between NDVI trends and cropland changes in the Sahel drylands: a case study in western Niger**

Tong, X., Brandt, Martin Stefan, Hiernaux, P., Herrmann, S. M., Tian, F., Prishchepov, Alexander V. & Fensholt, Rasmus, 2017, In: *Remote Sensing of Environment*. 191, p. 286-296 11 p.

#### **Agricultural Fires in European Russia, Belarus, and Lithuania and Their Impact on Air Quality, 2002-2012**

McCarty, J. L., Krylov, A., Prishchepov, Alexander V., Banach, D. M., Tyukavina, A., Potapov, P. V. & Turubanova, S., 15 Nov 2016, *Land-Cover and Land-Use Changes in Eastern Europe after the Collapse of the Soviet Union in 1991*. Gutman, G. & Radeloff, V. (eds.). Springer, p. 193-221 Chapter 9

#### **Recultivation of abandoned agricultural lands in Ukraine: patterns and drivers**

Smaliychuk, A., Mueller, D., Prishchepov, Alexander V., Levers, C., Kruhlov, I. & Kuemmerle, T., May 2016, In: *Global Environmental Change*. 38, p. 70-81

**Underlying drivers and spatial determinants of post-Soviet agricultural land abandonment in temperate Eastern Europe**  
Prishchepov, Alexander V., Müller, D., Baumann, M., Kuemmerle, T., Alcántara, C. & Radeloff, V. C., 1 Jan 2016, *Land-Cover and Land-Use Changes in Eastern Europe after the Collapse of the Soviet Union in 1991*. Gutman, G. & Radeloff, V. (eds.). Springer, p. 91-117 27 p.

**Drivers of forest cover change in Eastern Europe and European Russia, 1985–2012**

Alix-Garcia, J., Munteanu, C., Zhao, N., Potapov, P. V., Prishchepov, Alexander V., Radeloff, V. C., Krylov, A. & Bragina, E., 2016, In: *Land Use Policy*. 59, p. 284-297 14 p.

**Drivers, constraints and trade-offs associated with recultivating abandoned cropland in Russia, Ukraine and Kazakhstan**

Meyfroidt, P., Schierhorn, F., Prishchepov, Alexander V., Müller, D. & Kuemmerle, T., 2016, In: *Global Environmental Change*. 37, p. 1-15 15 p.

**Revealing turning points in ecosystem functioning over the Northern Eurasian agricultural frontier**

Horion, Stéphanie, Prishchepov, Alexander V., Verbesselt, J., de Beurs, K., Tagesson, Håkan Torbern & Fensholt, Rasmus, 2016, In: *Global Change Biology*. 22, 8, p. 2801–2817

**The dynamics of beef trade between Brazil and Russia and their environmental implications**

Schierhorn, F., Meyfroidt, P., Kastner, T., Kuemmerle, T., Prishchepov, Alexander V. & Müller, D., 2016, In: *Global Food Security*. 11, p. 84-92 9 p.

**Mapping farmland abandonment and recultivation across Europe using MODIS NDVI time series**

Estel, S., Kuemmerle, T., Alcántara, C., Levers, C., Prishchepov, Alexander V. & Hostert, P., 22 May 2015, In: *Remote Sensing of Environment*. 163, p. 312-325

**Forest transitions in Eastern Europe and their effects on carbon budgets**

Kuemmerle, T., Kaplan, J. O., Prishchepov, Alexander V., Rylsky, I., Chaskovskyy, O., Tikunov, V. S. & Müller, D., 2015, In: *Global Change Biology*. 21, 8, p. 3049–3061

**Long-term agricultural land-cover change and potential for cropland expansion in the former Virgin Lands area of Kazakhstan**

Kraemer, R., Prishchepov, Alexander V., Müller, D., Kuemmerle, T., Radeloff, V. C., Dara, A., Terekhov, A. & Frühauf, M., 2015, In: *Environmental Research Letters*. 10, p. 054012 18 p., 10.

**Quantifying yield gaps in wheat production in Russia**

Schierhorn, F., Faramarzi, M., Prishchepov, Alexander V., Koch, F. J. & Üller, D., 1 Aug 2014, In: *Environmental Research Letters*. 9, 8, 084017.

**Potential impacts of oil and gas development and climate change on migratory reindeer calving grounds across the Russian Arctic**

Kuemmerle, T., Baskin, L., Leitão, P. J., Prishchepov, Alexander V., Thonicke, K. & Radeloff, V. C., 2014, In: *Diversity and Distributions*. 20, 4, p. 416-429 14 p.

**The potential of Russia to increase its wheat production through cropland expansion and intensification**

Schierhorn, F., Prishchepov, Alexander V., Müller, D., Faramarzi, M. & Balmann, A., 2014, In: *Global Food Security*. 3, 3-4, p. 133-141 9 p.

**Post-Soviet cropland abandonment and carbon sequestration in European Russia, Ukraine, and Belarus**

Schierhorn, F., Müller, D., Beringer, T., Prishchepov, Alexander V., Kuemmerle, T. & Balmann, A., Dec 2013, In: *Global Biogeochemical Cycles*. 27, 4, p. 1175-1185 11 p.

**Landsat-based mapping of post-Soviet land-use change to assess the effectiveness of the Oksky and Mordovsky protected areas in European Russia**

Sieber, A., Kuemmerle, T., Prishchepov, Alexander V., Wendland, K. J., Baumann, M., Radeloff, V. C., Baskin, L. M. & Hostert, P., 5 Jun 2013, In: *Remote Sensing of Environment*. 133, p. 38-51 14 p.

**Determinants of agricultural land abandonment in post-Soviet European Russia**

Prishchepov, Alexander V., Mueller, D., Dubinin, M., Baumann, M. & Radeloff, V. C., Jan 2013, In: Land Use Policy. 30, 1, p. 873-884

**Mapping the extent of abandoned farmland in Central and Eastern Europe using MODIS time series satellite data**

Alcantara, C., Kuemmerle, T., Baumann, M., Bragina, E. V., Griffiths, P., Hostert, P., Knorn, J., Müller, D., Prishchepov, Alexander V., Schierhorn, F., Sieber, A. & Radeloff, V. C., 2013, In: Environmental Research Letters. 8, 3, 035035.

**The effect of Landsat ETM/ETM+ image acquisition dates on the detection of agricultural land abandonment in Eastern Europe**

Prishchepov, Alexander V., Radeloff, V. C., Dubinin, M. & Alcantara, C., Nov 2012, In: Remote Sensing of Environment. 126, p. 195-209 15 p.

**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**

Prishchepov, Alexander V., Radeloff, V. C., Baumann, M., Kuemmerle, T. & Müller, D., 2012, In: Environmental Research Letters. 7, 2, 024021.

**Mapping abandoned agriculture with multi-temporal MODIS satellite data**

Alcantara, C., Kuemmerle, T., Prishchepov, Alexander V. & Radeloff, V. C., 2012, In: Remote Sensing of Environment. 124, p. 334-347 14 p.

**Sensitivity of spatially explicit land-use logistic regression models to the errors land-use change maps**

Prishchepov, Alexander V., Müller, D., Butsic, V. & Radeloff, V. C., 2012, *iEMSs 2012 - Managing Resources of a Limited Planet: Proceedings of the 6th Biennial Meeting of the International Environmental Modelling and Software Society*. p. 2008-2015 8 p.

**Patterns and drivers of post-socialist farmland abandonment in Western Ukraine**

Baumann, M., Kuemmerle, T., Elbakidze, M., Ozdogan, M., Radeloff, V. C., Keuler, N. S., Prishchepov, Alexander V., Kruhlov, I. & Hostert, P., 2011, In: Land Use Policy. 28, 3, p. 552-562 11 p.

**Rapid land use change after socio-economic disturbances: The collapse of the Soviet Union versus Chernobyl**

Hostert, P., Kuemmerle, T., Prishchepov, Alexander V., Sieber, A., Lambin, E. F. & Radeloff, V. C., 2011, In: Environmental Research Letters. 6, 4, 045201.