Alexandra (Sasha) Tyukavina, Ph.D.

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Languages: Russian (native speaker), English (fluent)

Education

Ph.D. in Geographical Sciences, 2015, University of Maryland, Department of Geographical Sciences; Dissertation: "Characterizing forest disturbance dynamics in the humid tropics using optical and Lidar remotely sensed data sets"

M.Sc. in Cartography, 2011, Lomonosov Moscow State University, Faculty of Geography, Department of Cartography and Geoinformatics, Laboratory of Aerospace Methods, graduated with honors

Work experience

2019 – present: Assistant Research Professor, U. of Maryland, Department of Geographical Sciences
2015 – 2019: Post-Doctoral Research Associate, U. of Maryland, Department of Geographical Sciences
2012 – 2015: Graduate Research Assistant, U. of Maryland, Department of Geographical Sciences
2011: Cartographer, Specialist of Technological Department; Research and Development Center ScanEx
2011: Research intern, South Dakota State University, Brookings, SD, USA
2010: Research Assistant, Lomonosov Moscow State University, Faculty of Geography, Department of Cartography and Geoinformatics
2009: Cartography intern, Institute for Information and Communication Technologies, Graz, Austria

Research projects

2018 – 2022, Generating time-series maps that accurately reflect land change area: A strategy for global land monitoring (USGS-NASA Landsat Science Team), Co-Investigator
2017 – 2018, Nationalization of the Hansen tree cover loss/gain dataset for Madagascar (WRI), Co-Investigator
2016 – 2019, Supporting satellite-based national land cover and land use change monitoring systems in Southeast Asian countries (Burma, Cambodia, Laos, Thailand, and Vietnam) (NASA SERVIR), Co-Investigator
2015 – 2019, CARPE III: Monitoring the Forest Resources of the Congo Basin (USAID), Researcher
2013 – 2015, Global Forest Watch (Norwegian Climate and Forests Initiative), Researcher
2011 – 2015, Quantifying Global Forest Cover Change (Gordon and Betty Moore Foundation), Graduate Research Assistant

Teaching experience

- Teaching assistant: GEOG 498R (Land cover characterization using multi-spectral, multi-temporal remotely sensed data sets), Spring 2013 and 2014;
- Visiting lecturer: GEOG 472 (Remote Sensing: Digital Processing and Analysis), Fall 2014 and 2015; GEOG 372 (Remote Sensing), Fall 2016 and 2017; GEOG 422 (Changing Geographies of Sub-Saharan Africa), Fall 2017; GEOG 617 (Land Cover Characterization Using Multi-Spectral Remotely Sensed Data Sets), Fall 2018.

Service

- Referee for international journals: Nature Geoscience (1), Scientific Reports (1), Remote Sensing of Environment (1), Remote Sensing (6), International Journal of Wildland Fire (1), International Journal of Remote Sensing (1), Forests (1), Ecological Management and Restoration (1), Conservation Letters (1);
- Content manager: UMD GLAD team social media (facebook.com/UMDGLAD and twitter.com/UMD_GLAD) and website (glad.umd.edu) since 2015;
- Alumni panelist: The College Behavioral and Social Sciences (BSOS) Dean's Graduate Student Advisory Council (DGSAC) Fall Graduate Resources for the Outside World (GROW) Alumni Panel & Networking Event, 2018;
- Research faculty representative, Department of Geographical Sciences, University of Maryland: Graduate Committee, 2018-2019; AV Williams Task Force, 2018; Department Committee, 2015-2016;
- Graduate student representative, Department of Geographical Sciences, University of Maryland: Graduate Committee, 2013-2014; Orientation Committee May-August 2012;
- Workshop host: bilateral workshop between Lund University (LU) and University of Maryland (UMD) "Advancing methods for multi-temporal satellite and in-situ data analysis", 1-5 May 2017; Final workshop of Norway-Russia cooperation project BENEFITS, Moscow, 24-27 February 2011.

Awards

- 2018 – NASA SERVIR Collaboration Award to the Regional Land Cover Monitoring System Team;
- 2015 – Baker Award for outstanding performance by a graduate student, Department of Geographical Sciences, University of Maryland;
- 2014 – Excellence in Graduate Research Award, Department of Geographical Sciences, University of Maryland.

Publications

Google Scholar**:** https://scholar.google.com/citations?user=ZjLPnXcAAAAJ&hl=en

Peer-reviewed journal papers

Pickering J., Stehman S.V., **Tyukavina A.**, Potapov P., Watt P., Jants S.M., Bholanath P. and Hansen M.C. (2019) Quantifying the trade-off between cost and precision in estimating area of forest loss

and degradation using probability sampling in Guyana. *Remote Sensing of Environm*ent, 221, pp.122-135.

Tyukavina A., Hansen M.C., Potapov P., Parker D., Okpa C., Stehman S.V., Kommareddy I., Turubanova S. (2018) Congo Basin forest loss dominated by increasing smallholder clearing. *Science Advances* 4(11), eaat2993

Zalles V., Hansen M.C., Potapov P.V., Stehman S.V., **Tyukavina A**., Pickens A., Song X.-P., Adusei B., Okpa C., Aguilar R., John N., Chavez S. (2018) Near doubling of Brazil's intensive row crop area since 2000. *PNAS*

Curtis P.G., Slay C.M., Harris N.L., **Tyukavina A.**, Hansen M.C. (2018) Classifying drivers of global forest loss. *Science* 361(6407), 1108-1111

Song X.-P., Hansen M.C., Stehman S.V., Potapov P.V., **Tyukavina A.**, Vermote E.F., Townshend J.R. (2018) Global land change from 1982 to 2016. *Nature* 506 (7720), 639.

Turubanova S., Potapov P.V., **Tyukavina A**., Hansen M.C. (2018) Ongoing primary forest loss in Brazil, Democratic Republic of the Congo, and Indonesia. *Environmental Research Letters*, 13(7), 074028.

Tyukavina A., Hansen M.C., Potapov P.V., Stehman S.V., Smith-Rodriguez K., Okpa C., Aguilar R. (2017) Types and rates of forest disturbance in Brazilian Legal Amazon, 2000-2013. *Science Advances*, vol. 3, no. 4, e1601047.

Potapov P., Siddiqui B.N., Iqbal Z., Aziz T., Zzaman B., Islam A., Pickens A., Talero Y., **Tyukavina A.**, Turubanova S., Hansen M.C. (2017) Comprehensive monitoring of Bangladesh tree cover inside and outside of forests, 2000–2014. *Environmental Research Letters*, 12(10), 104015.

Ying Q., Hansen M.C., Potapov P.V., **Tyukavina A**., Wang L., Stehman S.V., Moore R., Hancher M. (2017) Global bare ground gain from 2000 to 2012 using Landsat imagery. *Remote Sensing of Environment*, vol. 194, pp. 161-176.

Molinario G., Hansen M.C., Potapov P.V., **Tyukavina A**., Stehman S., Barker B., Humber M. (2017) Quantification of land cover and land use within the rural complex of the Democratic Republic of Congo. *Environmental Research Letters*, 11(10), 104001.

Zscheischler J., Mahecha M.D., Avitabile V., Calle L., Carvalhais N., Ciais P., Gans F., Gruber N., Hartmann J., Herold M., Ichii K., Jung M., Landschützer P, Laruelle G.G., Lauerwald R., Papale D., Peylin P., Poulter B., Ray D., Regnier P., Rödenbeck C., Roman-Cuesta R.M., Schwalm C., Tramontana G., **Tyukavina A.,** Valentini R., van der Werf G., West T.O., Wolf J.E., Reichstein M. (2017) Reviews and syntheses: An empirical spatiotemporal description of the global surface–atmosphere carbon fluxes: opportunities and data limitations. Biogeosciences, 14(15), 3685-3703.

Dinerstein E., Olson D., Joshi A., Vynne C., Burgess N.D., Wikramanayake E., Hahn N., Palminteri S., Hedao P., Noss R., Hansen M., Locke H., Ellis E.C., Jones B., Barber C.V., Hayes R., Kormos C., Martin V., Crist E., Sechrest W., Price L., Baillie J.E.M., Weeden D., Suckling K., Davis C., Sizer N., Moore R., Thau D., Birch T., Potapov P., Turubanova S., **Tyukavina A.,** de Souza N., Pintea L., Brito J.C., Llewellyn O.A., Miller A.G., Patzelt A., Ghazanfar S.A., Timberlake J., Klöser H., Shennan-Farpon Y., Kindt R., Barenkow Lillesø J-P., van Breugel P., Graudal L., Voge M., Al-Shammari K.F., Saleem M. (2017) An ecoregion-based approach to protecting half the terrestrial realm. *BioScience*

Hansen M.C., Potapov P.V., Goetz S.J., Turubanova S., **Tyukavina A.**, Krylov A., Kommareddy A., Egorov A. (2016) Mapping tree height distributions in Sub-Saharan Africa using Landsat 7 and 8 data. *Remote Sensing of Environment*, vol. 185, pp. 221-232.

Hansen M.C., Krylov A., **Tyukavina A.,** Potapov P.V., Turubanova S., Zutta B., Suspense I., Margono B., Stolle F., Moore R. (2016) Humid tropical forest disturbance alerts using Landsat data. *Environmental Research Letters*, 11, 034008.

Tyukavina A., Hansen M.C., Potapov P.V., Krylov A.M., & Goetz S.J. (2016) Pan-tropical hinterland forests: mapping minimally disturbed forests. *Global Ecology and Biogeography*, 25(2), 151-163.

Zarin, D.J., Harris, N.L., Baccini, A., Aksenov, D., Hansen, M.C., Ramos, C.A., Azevedo, T., Margono, B.A., Alencar, A.C., Gabris, C., Allegretti, A., Potapov, P., Farina, M., Walker, W.S., Shevade, V.S., Loboda, T.V., Turubanova, S., **Tyukavina A.** (2015) Can carbon emissions from tropical deforestation drop by 50% in five years? *Global change biology*, vol. 22, № 4, pp. 1336-1347.

Tyukavina A., Baccini A., Hansen M.C., Potapov P.V., Stehman S.V., Houghton R.A., Krylov A.M., Turubanova S., Goetz S.J. (2015) Aboveground carbon loss in natural and human-modified tropical forests from 2000 to 2012. *Environmental Research Letters*, vol. 10, № 7, pp 1-14.

Potapov P.V., Turubanova S.A., **Tyukavina A.**, Krylov A.M., McCarty J.L., Radeloff V.C., Hansen M.C. (2015) Eastern Europe's forest cover dynamics from 1985 to 2012 quantified from the full Landsat archive. *Remote Sensing of Environment*, 2015, vol. 159, pp. 28-43.

Krylov A., McCarty J. L., Potapov P., Loboda T., **Tyukavina A.**, Turubanova S., Hansen M.C. (2014) Remote sensing estimates of stand-replacement fires in Russia, 2002-2011. *Environmental Research Letters*, 2014, vol. 9, № 10, pp 1-8.

Hansen M.C., Egorov A., Potapov P.V., Stehman S.V., **Tyukavina A.**, Turubanova S.A., Roy D.P., Goetz S.J., Loveland T.R., Ju J., Kommareddy A., Forsythe C., Bents T. (2014) Monitoring conterminous United States (CONUS) land cover change with Web-Enabled Landsat Data (WELD). *Remote Sensing of Environment*, 2014, vol.140, pp. 466-484.

Hansen M.C., Potapov P.V., Moore R., Hancher M., Turubanova S.A., **Tyukavina A.**, Thau D., Stehman S.V., Goetz S.J., Loveland T.R., Kommareddy A., Egorov A., Chini L., Justice C.O., Townshend J.R.G. (2013) High-resolution global maps of 21-st-century forest cover change. *Science:* 342 (6160), 850-853.

Tyukavina A., Stehman S.V., Potapov P.V., Turubanova S.A., Baccini A., Goetz S.J., Laporte N.T., Houghton R.A., Hansen M.C. (2013) National-scale estimation of gross forest aboveground carbon loss: a case study of the Democratic Republic of the Congo. *Environmental Research* Letters, 2013, vol.8, №4, pp 1-14.

Zhuravleva I., Turubanova S., Potapov P., Hansen M., **Tyukavina A**., Minnemeyer S., Laporte N., Goetz S., Verbelen F., Thies C. (2013) Satellite-based primary forest degradation assessment in the Democratic Republic of the Congo, 2000–2010. Environmental Research Letters, 2013, vol.8, №2, pp. 1-13.

Margono B.A., Turubanova S., Zuravlevla I., **Tyukavina A**., Potapov P., Goetz S., Bachini A., Hansen M.C. (2012) Mapping and monitoring deforestation and forest degradation in Sumatra (Indonesia) using Landsat time series datasets from 1990 to 2010. *Environmental Research Letters*, 2012, vol. 7, №3, pp. 1-16.

Tyukavina A.Yu. (2012) Estimation of tree crown density in sparse larch forests of Taimyr peninsula with multiresolution satellite images. *Issledovanie Zemli iz Kosmosa*, 2012, №4, pp. 1-11 [in Russian].

Kravtsova V., **Tyukavina A.** (2010) Stereoscopic computer decoding of aerospace images in geographical research. *Geodesy and Cartography*, 2010, №3, p. 34-39 [in Russian].

Book chapters

McCarty J.L., Krylov A., Prishchepov A.V., Banach D. M., **Tyukavina A**., Potapov P., Turubanova S. (2016) Agricultural fires in European Russia, Belarus, and Lithuania and their impact on air quality, 2002-2012. In: Gutman G., Radeloff V. (Ed.) Land-Cover and Land-Use in Eastern Europe after the Collapse of the Soviet Union in 1991, pp. 193-221.

Sharov A.I., **Tyukavina A.Yu.,** Bushueva I.S. (2010) Generation of glacier data products. In: Sharov A. (Ed.) Satellite Monitoring und Regional Analysis of Glacier Dynamics in the Barents-Kara Region. Reproteam, Graz, ISBN 9783200-016187, pp. 25 -36.

Other publications

Turubanova S., Potapov P., Krylov A., **Tyukavina A.,** McCarty J.L., Radeloff V.C., Hansen M.C. (2015) Using the Landsat data archive to assess long-term regional forest dynamics assessment in Eastern Europe, 1985-2012. The International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences, Volume XL-7/W3, 2015. 36th International Symposium on Remote Sensing of Environment, 11-15 May 2015, Berlin, Germany.

Tyukavina A., Golubeva E., Kravtsova V. (2011) Spatial structure of forest-tundra ecotone and active layer depth in the Ary-Mas site, Taimyr Peninsula. Proc. Final workshop of Norway-Russia cooperation project BENEFITS, Moscow, 24-27 February 2011, ISBN 978-5-89575-192-3

Elsakov V., Shanov V., **Tyukavina A.** (2010) The vegetation cover dynamic of north-east European Russia in ecological gradients by radar and optical data. Proc. 4th Joint PI Symposium of ALOS Data Nodes for ALOS science program in Tokyo, 15-17 November 2010, p. 107.

Tyukavina A. (2009) Remote sensing study of permafrost lakes and ponds dynamics in the Yana river lower course region.// Young geographer's research: collection of articles by the winners of International student, postgraduate and young scientist conference "Lomonosov", section "Geography" / Edit. A.N. Ivanov. Moscow, Geographical department MSU, 2009, ISBN 978-5-89575-174-8, p.109-112 [in Russian].

Sharov A.I. and **Tyukavina A.Yu.** (2009): Mapping and interpreting glacier changes in Severnaya Zemlya with the aid of differential interferometry and altimetry. Proc. Fringe 2009 Workshop, Frascati, ESA SP-677, 8 p.

Presentations and posters

Tyukavina A., Hansen M.C., Potapov P., Parker D., Okpa C., Stehman S., Kommareddy I., Turubanova S. (2018) Sample-based Assessment of Direct Drivers and Rates of Forest Disturbance in the Congo Basin *(poster)*. AGU Fall meeting 2018, 10-14 December, Washington D.C.

Tyukavina A. (2018) Calibrating UMD GLAD forest monitoring products for the South Caucasus region. A series of national capacity building workshops "Upscaling Global Forest Watch in Caucasus Region", 7-19 November 2018, Baku (Azerbaijan), Tbilisi (Georgia), Yerevan (Armenia)

Tyukavina A. (2018) UMD GLAD Global Forest Monitoring: From Landsat archive mining to operational products. Society for Conservation GIS and Conservation Biology Institute Webinar Series, 1 November 2018, online (215 registered participants)

Tyukavina A., Hansen M.C., Potapov P., Parker D., Okpa C., Turubanova S., Kommareddy I., Stehman S.V., Tosiani A., Yazid M., Purwanto J., Nugroho S., Sari I., Kartika T., Firmansyah R., Said Z., Wijaya A. (2018) Sample-based assessment of forest loss trends and drivers in three major humid

tropical forest regions using Landsat time-series data. ForestSAT conference, 1-5 October 2018, College Park, MD

Tyukavina A. (2018) Introduction to sample-based tree cover and change quantification. National capacity building training workshop: Implementing GLAD system for forest cover change monitoring in Madagascar, 16-27 April 2018, College Park, MD

Tyukavina A. (2018) Accuracy assessment and area estimation using stratified sampling. GEOGLAM workshop on national-scale cropland mapping. 5-9 March, 2018 College Park, MD

Tyukavina A. (2018) Congo and Amazon Basin forest loss area and land use driver assessment. SilvaCarbon capacity building workshop for Guatemala, Peru, Colombia, Cameroon, Nepal and Vietnam. 31 January 2018, College Park, MD

Tyukavina A., Hansen M., Potapov P., Turubanova S., Krylov A., Song X.P., Hudson A., Amani P., Ying Q., Zalles V., Adusei B. (2018) A strategy for global land change monitoring. NASA Workshop on "Enabling Analytics in the Cloud for Earth Science Data", 21-23 February 2018, Annapolis, MD

Tyukavina A., Potapov P., Hansen M., Talero Y., Turubanova S., Pickering J., Hudson Pickens A., Hanh Quyen. N., Spirovska Kono, M. (2017) National forest cover monitoring in mainland South and Southeast Asia: method development and capacity building. AGU Fall meeting 2017, 11-15 December, New Orleans, LA

Tyukavina A., Hansen M., Potapov P. (2017) Regional forest monitoring system for Southeast Asia. SERVIR Annual Global Exchange (SAGE) Conference, 9-13 October 2017, Bilbao, Spain

Tyukavina A., Hansen M., Potapov P., Stehman S., Turubanova S., Krylov A. Sample-based analysis in land cover change studies: area estimation and thematic interpretations (2017) Big data for a small planet: workshop between University of Maryland and Lund University, 27-28 February 2017, Lund, Sweden

Tyukavina A. (2017) Development of Cameroon forest cover mapping: sample-based estimation process and tool. National capacity building training workshop, 20 February – 10 March 2017, College Park, MD

Tyukavina A., Hansen M., Potapov P., Turubanova S., Krylov A., Steininger M., Margono B. (2017) Differentiating types of forest and forest disturbance (*invited*). 4th Annual Global Forest Watch Partnership Meeting, 8-9 February 2017, Washington D.C.

Tyukavina A., Potapov P., Hansen M., Saah D. (2016) Supporting satellite-based national land cover change monitoring systems in Southeast Asian countries (*poster*). SERVIR Annual Global Exchange (SAGE) Conference, 24-28 October 2016, Pokhara, Nepal

Tyukavina A., Hansen M., Potapov P., Turubanova S., Song X., Ying Q., Krylov A., Hudson A., King L., Talero Y., Khan A., Wang L., Zalles V., Adusei B. (2016) Using Landsat and Sentinel 2 data to baseline and forward monitor land cover change *(invited, panelist)*. The 2nd EARSeL SIG LU/LC and NASA LCLUC joint Workshop "Advancing horizons for land cover services entering the big data era", 6-7 May 2016, Prague, Czech Republic

Tyukavina A., Baccini A., Hansen M., Potapov P., Stehman S., Houghton R., Krylov A., Turubanova S. (2015) A new pan-tropical estimate of carbon loss in natural and managed forests in 2000-2012. AGU Fall meeting 2015, 14-18 December, San-Francisco, CA

Tyukavina A., Baccini A., Hansen M., Potapov P., Stehman S., Houghton R., Krylov A., Turubanova S., Goetz S. (2015) Forest cover and aboveground carbon loss in natural and managed tropical forests in 2000-2012 *(poster)*. NASA Carbon Cycle and Ecosystems Joint Science Workshop. 20-24 April 2015, College Park, MD

Tyukavina A., Potapov P., Hansen M. (2014) Forest cover change detection using time-series land cover inputs. Southern and Eastern Africa Land Cover Technical Exchange meeting. 22-24 July 2014, EROS Data Center, Sioux Falls, SD

Tyukavina A. (2014) Monitoring sparse forests and trees outside the forest using medium-resolution satellite data: limitations. Technical Workshop on Monitoring Trees Across the Sahel. 27-28 May 2014, World Resources Institute, Washington D.C.

Tyukavina A., Hansen M., Stehman S., Potapov P., Turubanova S., Baccini A., Goetz S., Laporte N., Houghton R. (2014) Incorporating uncertainty into forest cover loss estimation. Session on Accuracy and conservativeness session *(panelist).* Land cover and forest biomass in central Africa – International conference, 20-21 March 2014, Libreville, Gabon

Tyukavina A., Hansen M., Potapov P., Stehman S., Turubanova S. (2014) Intact (hinterland) forest mapping in the tropical regions. Forest degradation session *(panelist).* Land cover and forest biomass in central Africa – International conference, 20-21 March 2014, Libreville, Gabon

Tyukavina A., Hansen M., Stehman S., Potapov P., Turubanova S., Baccini A., Goetz S., Laporte N., Houghton R. (2013) Incorporating uncertainty in national-scale estimation of gross forest cover loss in the Democratic Republic of the Congo and Peru. Workshop on Error Propagation for Carbon Estimation, 4-6 December 2013, Mexico City, Mexico

Tyukavina A., Krylov A., Potapov P., Turubanova S., Hansen M., McCarty J. (2013) Cropland management dynamics as a driver of forest cover change in European Russia *(invited).* AGU Fall meeting 2013, 9-13 December, San-Francisco, CA

Tyukavina A., Stehman S., Potapov P., Turubanova S., Baccini A., Goetz S., Laporte N., Houghton R., Hansen M. (2013) Characterizing uncertainties of the national-scale forest gross aboveground biomass (AGB) loss estimate: a case study of the Democratic Republic of the Congo *(poster)*. AGU Fall meeting 2013, 9-13 December, San-Francisco, CA

Tyukavina A., Potapov P., Hansen M., Egorov A., Goetz S. (2012) Assessment of Recently Unchanged Forested Areas in the United States Using Landsat-WELD and LIDAR data *(poster)*. AGU Fall meeting 2012, 2-8 December, San-Francisco, CA

Tyukavina A. (2010) Small-Scale Remote Sensing Mapping of Geosystems in Taymyr–Putoran Region *(poster)*. IPY Oslo Science Conference, Norway, Oslo, 7-12 June 2010

Popular press coverage

Of my first-author research:

Tyukavina et al. (2018) study on drivers of forest loss in the Congo Basin was covered in:

"The Congo's Ancient Forest Could Be Gone in Our Lifetime" *Earther.* Yessenia Funes (Nov. 9, 2018)
"Massive Congo forest loss driven by hands, not machines" *Cosmos Magazine.* Nick Carne (Nov. 8, 2018)
"Smallholder clearing found to be dominant reason for forest loss in the Congo Basin" *Phys. org* Bob Yirka (Nov. 8, 2018)
"Research Finds Congo Basin's Old-growth Forests Vanishing at Alarming Rate" *UMD Today*. Sara Gavin (Nov. 8, 2018)
"Congo Basin rainforest may be gone by 2100, study finds" *Mongabay Environmental News.* Morgan Erickson-Davis (Nov. 7, 2018)

Tyukavina et al. (2017) study on types and rates of forest disturbance in Brazilian Legal Amazon was featured in:

"Amazon rainforest faces double jeopardy" *Climate News Network*. Tim Radford (May 6, 2017)

Tyukavina et al. (2016) study on the extent of recently undisturbed and unfragmented (hinterland) tropical forests was highlighted in:

"There's no such thing as truly 'pristine' nature anymore" *BBC Future.* Rachel Nuwer (Feb. 8, 2016)
"Where the forest is still primeval" *WHRC press release* (Nov. 10, 2015)
Tyukavina et al. (2015) study on pan-tropical carbon dynamics was covered in:

"Is tropical forest carbon loss in Africa and Southeast Asia higher than we thought?" *EnvironmentalResearchWeb* (Sep. 28, 2015)

Tyukavina et al. (2013) study on carbon loss in the Democratic Republic of the Congo was featured in:

"Conventional satellite imagery may underestimate forest clearing for subsistence agriculture" *Mongabay Environmental News.* Rhett Butler (Dec. 9, 2013)

Of my research in collaboration:

Curtis et al. (2018) study on global drivers of forest loss was covered in:

"More experiments may help explore what works in conservation" The Conversation. Glenn R. Specht (Nov. 5, 2018)
"What Jair Bolsonaro's Victory Could Mean for the Amazon, and the Planet" *The New York Times*. Somini Sengupta (Oct. 17, 2018)
"What's causing deforestation? New study reveals global drivers" *Mongabay Environmental News*. Rachel Fritts (Sept. 14, 2018)
"A new map reveals the causes of forest loss worldwide" *ScienceNews*. Laurel Hamers (Sept. 13, 2018)
"New global study reveals the 'staggering' loss of forests caused by industrial agriculture" *Science*. Erik Stokstad (Sept. 13, 2018)

Song et al. (2018) study on global land cover change from 1982 to 2016 was highlighted in:

"Earth has more trees than it did 35 years ago - but there's a huge catch" *World Economic Forum.* Johnny Wood (August 30, 2018)
"Earth has more trees now than 35 years ago" *Mongabay Environmental News.* Rhett A. Butler (August 15, 2018)
"Study shows global forest loss over past 35 years has been more than offset by new forest growth" *Phys.org*. Bob Yirka (August 9, 2018)
"Surprise! Trees Are Gaining Ground Globally" *Inside Science.* Gabriel Popkin (August 8, 2018)

Molinario et al. (2017) study was covered in:

"Maps tease apart complex relationship between agriculture and deforestation in DRC" *Mongabay Environmental News*. John C. Cannon (Feb. 2, 2018)
"New map helps distinguish between cyclical farming and deforestation in the Congo Basin" *GFW blog.* Caio de Araujo Barbosa et al. (Jan. 16, 2018)

Ying et al. (2017) study on global bare ground gain was highlighted in:

NASA Earth Observatory Image of the Day (Sept. 27, 2017)

Hansen et al. (2016) article on tree height distributions in Sub-Saharan Africa was featured in:

NASA Earth Observatory Image of the Day (March 8, 2017)

Hansen et al. (2016) paper on a new Landsat-based humid tropical forest disturbance alert method was included by the Editors of Environmental Research Letters (ERL) into the Highlights of 2016 collection. The article was also featured in:

"Satellite Technology Aims to Combat Illegal Logging in Real Time" *Inside Climate News.* Sheila V Kumar (March 25, 2016)
"Massive wildfire rips through Congo rainforest – is logging to blame?" *Mongabay Environmental News*. Morgan Erickson-Davis (March 23, 2016)
"New satellite alerts reveal how forests changed this month" *Phys.org.* James Anderson (March 3, 2016)
"New satellite mapping a 'game changer' against illegal logging" *The Guardian* (March 2, 2016)
"New satellite program aims to cut down illegal logging in real time" *Thomson Reuters Foundation.* Chris Arsenault (March 2, 2016)
"We know how forests changed this month, thanks to new satellite alerts" *GFW blog*. Mikaela Weisse and Octavia Payne (Feb. 29, 2016)
"Satellite alerts track deforestation in real time" *Nature News.* Gabriel Popkin (Feb. 23, 2016)

Potapov et al. (2015) paper on forest cover dynamics in Eastern Europe was featured in:

NASA Earth Observatory Image of the Day (July 16, 2015)
"Eastern Europe's forests" *The Washington Post.* Rick Noack (Aug. 7, 2015)

Hansen et al. (2013) global forest cover loss *Science* article was featured in 54 news stories and multiple blog and social network posts in 2014, and is number 12 in a list of 100 academic research papers that "caught the public imagination in 2014" according to Altmetric. The article is also the most featured in the media among climate change papers in 2011-2015 according to CarbonBrief. The data from the study are also featured on a Global Forest Watch Website: http://www.globalforestwatch.org/

News coverage included:

"Global deforestation is decreasing. Or is it?" *Ensia.* Jeremy L. Hance (Jan 21, 2016)
"New interactive tool helps track Earth's forests" *The New York Times*. Louis Lucero II (Nov. 14, 2013)
"These maps show where the Earth's forests are vanishing" *The Washington Post.* Brad Plumer (Nov. 14, 2013)
"New high-resolution forest maps reveal world loses 50 soccer fields of trees per minute" *The Huffington Post.* Nigel Sizer (Nov. 14, 2013)

"Forest change mapped by Google Earth" *BBC Science News.* James Morgan (Nov. 14, 2013)
"Maps from space show world's disappearing forests" *National Geographic.* Dan Vergano (Nov. 15, 2013)