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EDUCATION

1974 - 77 Ph.D. Geography, Reading University, U.K.
1970 - 73 B.A. (Hons.) Geography, Reading University, U.K.

APPOINTMENTS

2014- present Co-Director, Center of Agricultural Monitoring Research, University of Maryland. College Park.
2010 - *present* Chair, Department of Geographical Sciences, University of Maryland, College Park.
2001 - *present* Full Professor, Geography Department, University of Maryland, College Park.
2002 - 2009 Research Director, Geography Department, University of Maryland, College Park.
2006 Acting Chair, Geography Department, University of Maryland, College Park.
2002 - 2006 Joint Appointment with University of Maryland Institute for Advanced Computer Science
1997 - 2001 Research Professor, Global Environmental Change Program, Department of Environmental Sciences, University of Virginia, Charlottesville.
1997 - 2001. Adjunct Professor, Geography Department, University of Maryland, College Park.
1993 - 1997 Senior Research Scientist, Geography Department. University of Maryland, College Park.
1987 - 1993 Research Associate, Geography Department, University of Maryland, College Park
1983 - 1997. Visiting Scientist, Earth Resources Branch, NASA, Goddard Space Flight Center.
1983 - 1987 Research Associate, Civil Engineering Department, University of Maryland, College Park.
1981 - 1983 Research Fellow, Earthnet Programme Office, European Space Agency, Frascati, Italy.
1977 - 1981 National Research Council, Resident Research Associate, Earth Resources Branch, NASA/Goddard Space Flight Center, Greenbelt, Maryland.
1974 - 1977 Research Demonstrator, Geography Department, University of Reading, U.K.
1973 -1974 Research Assistant, Geography Department, University of Reading, U.K.

PUBLICATIONS

¹Primary contributor, ²Principal contributor with first author, ³Principal investigator on research presented (contribution to the paper generation), ⁴Contributor only.

Books and edited volumes

Vadrevu K.P., Ohara T., Justice C.O., 2014. Inventory, Modeling and Climate Impacts of Greenhouse Gas Emissions (GHG's) and Aerosols in the Asian Region. **Environmental Pollution**, Special Section, 195, p.233 – 343. (*this is a collection of peer reviewed papers from a workshop on Inventory, Modeling and Climate Impacts of Greenhouse Gas emissions (GHG's) and Aerosols in the Asian Region held in Tsukuba 2013*).

Ramachandran, B, Justice C.O., Abrams M.J. 2011. **Land Remote Sensing and Global Environmental Change: NASA's Earth Observing System and the Science of ASTER and MODIS** Series: Remote Sensing and Digital Image Processing, Vol. 11, Springer Verlag. 873p. ISBN: 978-1-4419-6748-0 (*this is a collection of papers presents on the data products and science from these two NASA instruments*)

Gitas I. Z., Chuvieco E., Justice C.O., 2008. **Special Issue on Wildland Fires and Biomass Burning**, IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, Vol. 1, Issue 4, p. 218-266. (*this special issue consists of peer-reviewed papers from the 2007 EARSel SIG on Fires Meeting in Thessaloniki, Greece*)

Qu J. J. and Justice C.O. 2007. **The Application of Remote Sensing to Fire Research in the Eastern United States**. Special Edition, Remote Sensing of Environment, Vol. 108, Issue 2, 121-208. (*this special issue was developed from selected peer reviewed papers from the 2005 EastFire Conference*)

Chuvieco E. and Justice C.O. 2004. **Forest Fire Prevention and Assessment**. Special Edition, Remote Sensing of Environment, Vol.92, Issue 3, 295-423. (*this special issue was developed from the Earsel-GOFC/GOLD workshop of the same name*)

Gutman, G., Janetos, A.C., Justice, C.O., Moran, E.F., Mustard, J.F., Rindfuss, R.R.; Skole, D., Turner II, B.L., Cochrane, M.A., Eds., 2004. **Land Change Science: Observing, Monitoring and Understanding Trajectories of Change on the Earth's Surface**, Springer Remote Sensing and Digital Image Processing series, Vol. 6. 480 p. (*this book of papers summarizes the science developed through NASA's Land Cover and Land Use Change program*)

Justice C.O. and Townshend J.R.G. (Editors), 2002. **The Moderate Resolution Imaging Spectroradiometer (MODIS): a new generation of Land Surface Monitoring**. Special Issue of **Remote Sensing of Environment**, 83, Issues 1-2, 359pp. (*this special issue summarizes the early validation results from the EOS MODIS Terra instrument*)

Ahern F., Goldammer, G., Justice C.O. (Editors), 2001. **Global and Regional Vegetation Fire Monitoring From Space: Planning a Coordinated International Effort**. SPB Academic Publishing, The Hague, The Netherlands. ISBN 90-5103-140-8. (*this book of peer reviewed papers was the product of an international workshop held on assessing the state of science and building an international initiative to establish operational fire monitoring from space*)

Cohen W. and Justice C.O. (Editors), 1999. **MODIS Land Product Validation: linking in-situ and satellite measurements**. Special Edition of **Remote Sensing of the Environment**, 70, No 1. (*this special edition presents a collection of papers on satellite product validation, including a series of methodological papers on quantifying the accuracy of satellite derived biophysical parameters and scaling field measurements to satellite resolutions*).

Prince, S.D. and Justice C.O.² (Editors), 1991. **Coarse Resolution Remote Sensing of the Sahelian Environment**. Special Edition of the **International Journal of Remote Sensing**, v. 12, No. 6. (*this special edition presents a collection of research papers on satellite monitoring of African rangelands productivity*).

Justice C.O.¹ (Editor), 1986. **Monitoring the Grasslands of Semi-arid Africa using NOAA-AVHRR Data**, Special Edition of **International Journal of Remote Sensing**, v. 7, No. 11. (*this special edition presents a collection of papers using NOAA weather satellite data for environmental monitoring in Africa*).

Prince S.D., Justice C.O.² and Los S.O. (Editors), 1990. **Remote Sensing of the Sahelian Environment**, CEC/CTA, Brussels, 128 pp. (also in French Translation). (*this edited volume presents research papers funded through a European program on the application of satellite data to monitoring the Sahelian Zone of Africa*)

Edited volumes, books in press

Refereed Articles

- Justice C., Gutman G and Vadrevu K., 2015. Land Cover/land use change (LCLUC): An interdisciplinary research program. *Journal of Environmental Management*. (148)4-9.
- Whitcraft, A.K., Vermote E.F., Becker-Reshef I., Justice C.O., 2015. Cloud cover throughout the agricultural growing season: Impacts on passive optical earth observations. **Remote Sensing of Environment** Vol. 156, P. 438–447
- Whitcraft A.K., Becker-Reshef I., Justice C.O., 2014. Agricultural growing season calendars derived from MODIS surface reflectance. **International Journal of Digital Earth** (2014), pp. 1-25, <http://dx.doi.org/10.1080/17538947.2014.894147>
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- Vermote E., Justice C. and Csiszar I., 2014. Early evaluation of the VIIRS Calibration, Cloud Mask and Surface Reflectance Earth Data Records. **Journal of Geophysical Research**, 148, 134-145. doi: 10.1016/j.rse.2014.03.028
- Roy, D.P., Wulder M.A., Loveland T.R., Woodcock C.E., Allen R.G., Anderson M.C., Helder D., Irons J.R., Johnson D.M., Kennedy R., Scambos T.A., Schaaf C.B., Schott J.R., Sheng Y., Vermote E.F., Belward A.S., Bindschadler R., Cohen W.B., Gao F., Hipple J.D., Hostert P., Huntington J., Justice C.O., Kilic A., Kovalskyy V., Lee Z.P., Lymburner L., Masek J.G., McCorkel J., Shuai Y., Trezza R., Vogelmann J., Wynne R.H., Zhu Z., 2014. A Landsat-8: science and product vision for terrestrial global change research. **Remote Sensing of Environment**, 145, 154-172.
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- Molinario, G., Davies, D. K., Schroeder, W., Justice, C. O., 2013. Characterizing the spatio-temporal fire regime in Ethiopia using the MODIS-active fire product: a replicable methodology for country-level fire reporting. **African Geographical Review**. 1–25. doi:10.1080/19376812.2013.854708
- Csiszar, I., W. Schroeder, L. Giglio, E. Ellicott, K. P. Vadrevu, C. O. Justice, and B. Wind. 2013. Active fires from the Suomi NPP Visible Infrared Imaging Radiometer Suite: Product status and first evaluation results, **J. Geophys. Res. Atmos.**, 119, 803–816, doi:[10.1002/2013JD020453](https://doi.org/10.1002/2013JD020453).
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- Vadrevu K.P., Giglio, L. and Justice C., 2013. Satellite-based analysis of Fire-CO relationships from forest and agriculture residue burning (2003-2011). **Atmospheric Environment**. (10.1016/j.atmosenv.2012.09.055).
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- Loboda, T.V., Giglio, L., Boschetti, L., Justice, C.O., 2012. Regional fire monitoring and characterization using global NASA MODIS fire products in dry lands of Central Asia. **Frontiers of Earth Science**, 6 (2): 196-205.
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- Gutman G., R. Byrnes, J. Masek, S. Covington, C. Justice, S. Franks and R. Headley, 2008. Towards monitoring land cover and land use changes at a global scale: the Global Land Survey 2005. **Photogrammetric Engineering and Remote Sensing**, 74, 1, 6-10.
- McCarty J.L., Justice C.O.³ and Korontzi S., 2007. Agricultural burning in the Southeastern United States detected by MODIS. **Remote Sensing of Environment**, 108, 2, 151-162.
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- Zhang, Q.F., Justice, C.O.³, Jing, M.X., Bruner, J., Wilkie, D.S., 2006. A GIS-based assessment on the vulnerability and future extent of the tropical forests of the Congo Basin. **Environ. Mon. Assess.** 114, 107-121.
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- Roy, D.P., Jin, Y., Lewis, P.E., Justice, C.O.³, 2005. Prototyping a global algorithm for systematic fire-affected area mapping using MODIS time series data. **Remote Sensing of Environment**, 97, 137-162.
- Morisette J.T., Giglio L. and Csiszar I., Justice, C.O.³ 2005. Validation of the MODIS active fire product over Southern Africa with ASTER data. **International Journal of Remote Sensing**, 26, pp.4239-4264
- Roy, D.P., Frost, P.G.H., Justice, C.O.², Landmann, T., Le Roux, J.L., Gumbo, K., Makungwa, S., Dunham, K., Du Toit, R., Mhwandagara, K., Zacarias A, Tacheba, B., Dube O., Pereira, J., Mushove, P., Morisette, J., Santhana Vannan, S., Davies, D., 2005. The Southern Africa Fire Network (SAFNet) regional burned area product validation protocol. **International Journal of Remote Sensing**, 26, pp. 4265-4292.
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Justice C.O.¹ Townshend J.R.G., Vermote E. F., Masuoka E., Wolfe R.E., El Saleous N., Roy D.P. and Morisette. J.T. , 2002. An overview of MODIS Land data processing and product status. **Remote Sensing of Environment**, 83, 1-2, 3-15.

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- The State of the Forests of the Congo Basin**, 2006. – *an international report developed by members of the Congo Basin Forest Partnership. Justice C.O. and UMD staff were instrumental in the document design, development and editing. Available for download from <http://carpe.umd.edu/>*
- NRC Space Studies Board, 2005. **Review of Goals and Plans for NASA's Space and Earth Sciences**. National Academies Press 59pp., - *this report provided a review of NASA's program, Justice C.O. Committee Member and contributing author on Earth Science and Applications.*
- Congo Basin Forest Partnership, 2005. **Forests of the Congo Basin: a preliminary assessment**. Eds. Justice C.O. et al., USAID, CARPE. Washington DC. English and French - *this first state of the forest report was developed for USAID in collaboration with the EU and CIFOR partners).*
- Northern Eurasia Earth Science Partnership Initiative (NEESPI) Science Plan**. Ed. Groisman P.Y. and Bartalev S. A. 2004. NASA/GSFC, 160pp. – *Justice C.O. section 4 co-editor, this report lays out the science research plan for this regional science initiative.*
- Climate Change Science Program (CCSP) 2003. Strategic plan for the US Climate Change Science Program. **Chapter 6, Land Use/Land-Cover Change**. US CCSP, Washington DC. 202pp. – *a lead author for this Chapter 6.*
- Mayaux P., Justice C.O. ² and Lumbuenamo R.S., 2000. Atelier de creation du reseau GOFC-OSFAC en Afrique Centrale. **GOFC Workshop Report**, ECE Joint Research Center, Ispra, Italy, 30p.- *this report lays out the framework and workplan for a regional network in central Africa for the International Global Observation of Forest Cover Program, which is part of the Global Terrestrial Observing System.*
- NRC Committee on Earth Sciences, 2001. **Issues in the Integration of Research and Operational Satellite Systems for Climate Research: 2 – Implementation issues**, Committee on Earth Sciences, National Research Council, Space Studies Board, National Academy Press, Washington D.C., 134pp. - *this report lays out the calibration and validation, data system and technology insertion needs for operational climate monitoring from the next generation of polar orbiting satellites, Justice C.O. committee member and contributing author.*

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Justice C.O.¹, Ahern F. and Freise A. 1999. Regional networks for implementation of the Global Observation of Forest Cover (GOFC) Project in the Tropics. **START Report 4**, START Secretariat, Washington DC.- *this report presents the findings of the first thematic meeting of the GOFC program on tropical forest monitoring.*

NASA 1999. Biology and Biogeochemistry of Ecosystems and the Global Carbon Cycle. **Earth Science Enterprise: Earth Science Implementation Plan**, NASA Headquarters, Contributing authors – Wickland D., Campbell J., Justice C.O.⁴, Ranson J. and Gutman G.- *this report provides NASA's science research plan and the rationale for its missions in the post 2005 period.*

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Malingreau J.P. and Justice C.O.² (Ed's), 1996. Definition and implementation of a global fire product derived from AVHRR data. 3rd IGBP-DIS Fire Working Group Report. **IGBP-DIS Working Paper #17**, IGBP-DIS, Toulouse.- *this report describes the first global satellite fire product which was developed through international cooperation of the International Geosphere Biosphere Program.*

Koch G.W. (Ed) 1995 **The IGBP Terrestrial Transects: Science Plan**, (contributing authors Scholes R.J., Steffen W., Vitousek P. Walker B., Justice C.O.⁴¹), IGBP Report # 36, IGBP Secretariat, Stockholm.- *this report provided the foundation for what would emerge as the Global Terrestrial Observing System.*

Justice C.O.¹, Scholes R. and Frost P. 1994. African savannas and the global atmosphere research agenda 1994-1998. Eds. Proceedings of a joint IGBP START/ IGAC/ GCTE/ GAIM/ DIS workshop on African savannas, land use and global change: interactions of climate productivity and emissions. Victoria Falls, Zimbabwe, **IGBP Report # 31**, IGBP Secretariat, Stockholm. - *this was one of the first regional planning documents of the IGBP. The vision outlined in this report has culminated in the SAFARI-2000 international field program.*

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Prince S.D. and Justice C.O.² 1994. Monitoring and modeling of terrestrial net primary production. **IGBP-DIS Working Paper #8**, IGBP-DIS Toulouse, France.- *this paper provided the rationale for the IGBP-GAIM NPP model intercomparison and the US VEMAP program.*

Justice C.O.¹ and Dowty P 1994. IGBP-DIS satellite fire detection algorithm workshop technical report. **IGBP-DIS Working Paper #9**, IGBP-DIS Toulouse, France

IGBP 1994. Data and information system. (Justice C.O., contributing author), In: IGBP Modelling and Data Activities, **IGBP Report 30**, IGBP Secretariat, Stockholm. - *this report provides a summary of the IGBP Data and Information System, one of the more successful aspects of the IGBP in its first decade of activity.*

Townshend, J.R.G., Cihlar, J., Justice C.O.², Malingreau, J.-P., Ruttenberg, S., Sadowski, F., Skole, D., Teillet, P. 1992. Improved global data for land applications. **IGBP Report No. 20**, Stockholm, International Geosphere

Biosphere Program.- *this report laid out the rationale for the first global 1km satellite data base which was developed through international cooperation and provided a milestone in terrestrial remote sensing.*

TEACHING and TRAINING

Courses Taught:

Land Use, Climate Change and Sustainability (Geog 415)
Land Use and Land Cover Change (Geog 615)
Advanced Remote Sensing – Global Observing Systems (Geog 609)
Fire in the Environment (Geog 718A)
Introduction to Physical Geography – Core (Geog 201)
Physical Geography Laboratory – Core (Geog 211)
Coastal Remote Sensing Field Course (Geog 601)
Graduate Orientation (Geog 788C)

Training Courses:

2008 Hot Topics and Burning Issues: Fire as a Driver of System Processes- past, present and future. Postgraduate Course, Wageningen, Netherlands.
2000 SAFARI-2000 Fire Validation Workshop, Zambia (Organizer)
2000 GOFC - Forest Monitoring by Satellite, Lope Reserve, Gabon (Organizer)
1999 International Geosphere Biosphere Program, Land Use and Cover Change /Data and Information System Regional Land Cover Workshop, Bangkok, Thailand (Organizer).
1997 System for Analysis, Research and Training (START) Workshop on Land use and Land Cover Change, Accra, Ghana (Organizer).
1997 NASA/CARPE/University of Maryland Workshop on the use of Remote Sensing for Forest Monitoring in Central Africa (Organizer).
1993 IGBP LUCW Workshop, Bangkok, Thailand (Organizer).
1989 ECE Summer School on Remote Sensing, JRC- Ispra (Lecturer).
1984 /1985 United Nations Training Courses on Remote Sensing for the African Environment: Ile Ife, Nigeria, Yamasoukro, Ivory Coast (Lecturer).
1985 Member of the Royal Geographical Society's 'Kora' Expedition, Kenya.

ADVISORY

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Rachel Berndtson (2012- 2014) PhD (Committee Member)
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Janet Nackoney (2005 – 2007) Masters (Advisor)
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Jessica McCarty (2003- 2005) Masters (Advisor)
Minnie Wong (2003- 2005) Masters (Advisor)
Tatiana Laboda (2002 – 2004) Masters (Advisor)
Beverly Quinlan (2001 – 2002) Masters (Advisor)
Carolina Santos (2000-2003) Masters (Advisor)
Lynn Dennis (2000 – 2003) Masters (Advisor)
Eric Armijo (2000-2003) Masters (Advisor)
David Shirey (1994-1996) Masters (Committee Member)
Pedro Mangué (1998) MSc, University of Witwatersrand, (External Examiner)

Research Teams Advisory

Coordination of research teams:

MODIS and VIIRS Fire Team: Dr. Louis Giglio, Dr. Luigi Boschetti, Dr Evan Ellicott (UMD), Dr. Ivan Csiszar (NOAA), Dr. Wilfrid Schroeder (NOAA), Dr. David Roy (SDSU)

CARPE UMD/NASA Monitoring Team: Diane Davies (Trigg Davies Associates), Alice Altstatt, Janet Nackoney, Dr. Matt Hansen (UMd), Dr. Compton Tucker (NASA/GSFC), B. Bankanza (SDSU).

SERVICE

Committee Membership

National

2010 - Present Co-Chair, NASA LANCE User Working Group
2006 - Present USGS Landsat Science Team, Co. I. with P.I. Dr Eric Vermote UMd.
2006 - 2011 NASA/USGS Steering Group on the Global Land Survey.
2006 - 2009 NRC Committee on Strategic Advice on the U.S. Climate Change Science Program,
Vice-Chair – *review of US Climate and Global Change Research program*
2004 - 2007 US CCSP Land Use Land Cover Change, Science Steering Committee – *this panel provide science community input to the interagency working group*
2003 - Present Land Discipline Lead, NASA NPP VIIRS Science Team
2003 - 2004 USGCRP/CCSP Land Use Interagency Working group (LUIWG) - member
2002 - 2005 NOAA Climate Working Group, Advisory Panel – *this is the primary climate science program advisory group for NOAA*
2000 - 2003 USGCRP 10-year Strategic Planning Committee – Land Use and Land Cover Change -
Chair
this committee was formed to develop the goals and research elements for the second decade of the USGCRP and to formulate the CCSP Strategic Plan
1996 - Present NASA Land Cover and Land Use Change Program Scientist
this is part of NASA's Earth Science Enterprise providing an integration of physical and social science focused on the process of land cover and land use change and environmental impacts
1995 - Present USAID Central Africa Regional Project for the Environment (CARPE) Strategic
Objective Team
this project is USAID's environmental initiative in Central Africa, focusing on sustainable forest management and biodiversity conservation.
1988 - 2011 NASA MODIS Science Team and Land Discipline Group Leader
this project provides the systematic moderate resolution measurements for NASA's Earth Science Enterprise
1995- 2002 NOAA Office of Global Programs, Science Advisory Panel
1998- 2000 National Academy of Sciences, NRC Committee on Earth Sciences
1994 NASA Ad-Hoc Panel, Digital Elevation Data for EOS AM Instruments
1993- 1996 NASA Landsat Pathfinder Science Working Group (Chairman)
1993- 1996 EPA Working Group on Biomass Burning and Global Emissions
1992- 1993 NASA Landsat 7 Science Advisory Group
1991-1997 USAID Consultative Group on Environmental Information Systems
1991-1998 USGS EROS Data Center, NASA DAAC Science Advisory Panel (Chairman)
1989 NASA Multi-sensor Airborne Campaign Review Panel..
1988 NASA Earth Observing System Synthetic Aperture Radar Evaluation Panel.
1985-1987 NASA MODIS Instrument Panel.
1983 NASA Landsat Thematic Mapper Science Panel.

International

2013 - Present GEO Global Agricultural Monitoring (GEOGLAM) Initiative, Principal
2006 - 2012 Task Co-Chair, GOESS Agriculture Monitoring Task Ag 07 03
2005 - Present Northern Eurasia Earth Science Partnership Initiative (NEESPI), Science Advisory Panel
Member

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|-----------------------|--|
| 2004 - 2010 | Integrated Global Observations of the Land (IGOL), Team Member |
| 2000 - <i>Present</i> | UN International Strategy for Disaster Reduction, WG4, Wildfire, Consultative Group |
| 1998 - <i>Present</i> | Global Terrestrial Observing System (GTOS), Global Observation of Forest Cover/Global Observation of Landcover Dynamics (GOF/C/GOLD), Fire Implementation Team Co-chair - <i>GOF/C/GOLD is an operational pilot project aimed at developing the use of satellite data for monitoring forest carbon</i> |
| 1997 - 2002 | SAFARI-2000 Organizing Committee |
| 1994 - 2001 | IGBP/START/GOF/C-GOLD Miombo Network Steering Committee |
| 1994 - 1999 | IGBP-DIS Standing Committee |
| 1994 -1996 | IGBP Core Project Officers Working Group |
| 1991-1995 | ISLSCP Scientific Steering Committee |
| 1988-1999 | IGBP-DIS Working Group - Land Cover Pilot Project Working Group |
| 1991-1999 | IGBP Fire Working Group (Chairman) |
| 1990 | UNEP Ad-Hoc Advisory Group on Tropical Forest Monitoring |
| 1990-1993 | International Space Year World Forest Watch, Steering Committee |

Planning and organization of national and international meetings and workshops

National

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| 2013 | GEOGLAM Session, American Geophysical Union, San Francisco, Ca. | |
| 2013 | 16 th NASA LCLUC Science Team Meeting, Bethesda, Maryland | |
| 2012 | 15 th NASA LCLUC Science Team Meeting, Bethesda, Maryland | |
| 2011 | 14 th NASA LCLUC Science Team Meeting, College Park, UMD | |
| 2010 | 13 th NASA LCLUC Science Team Meeting, Bethesda, Maryland | |
| 2009 | 12 th NASA LCLUC Science Team Meeting, Bethesda, Maryland | |
| 2008 | 11 th NASA LCLUC Science Team Meeting, College Park, UMD | |
| 2008 | US Interagency Workshop Operational Fire Observation, University of Maryland. | |
| 2008 | NASA Fire Science Workshop, College Park, UMD | |
| 2008 | NPP/NPOESS Land Product Evaluation Planning Workshop, NCDC, Asheville, NC. | |
| 2007 | NRC Workshop on Future Priorities for the US CCSP: Applications, Washington D.C. | |
| 2007 | NASA Mid-Decadal Global Land Survey Workshop, Annapolis, Md. | |
| 2006 | 10 th NASA LCLUC Science Team Meeting: water cycle focus meeting, College Park, UMD | |
| 2006 | NRC Workshop on Assessing Progress of the US CCSP, Scripps Institute, Ca. | |
| 2006 | 9 th NASA LCLUC Science Team: carbon focus meeting, College Park, UMD | |
| 2005 | 8 th NASA LCLUC Science Team Meeting, College Park, UMD | |
| 2004 | 7 th NASA LCLUC Science Team Meeting, College Park, UMD | |
| 2003 | Land Use and Land Cover Change, USG Interagency Workshop, Washington | |
| 2003 | NASA Science and Applications Workshop, Fairfax, Va. | |
| 2002 | 6 th NASA LCLUC Science Team Meeting, College Park, UMD | |
| 2001 | 5 th NASA LCLUC Science Team Meeting, College Park, UMD | |
| 2000 | 4 th NASA LCLUC Science Team Meeting, Herndon, Va. | |
| 2000 | Central Africa and Climate Change, Washington, DC. | |
| 1999 | CARPE Monitoring Team Workshop, Charlottesville, Va. | |
| 1999 | 3 rd NASA LCLUC Science Team Meeting, Warrenton, Va. | |
| 1998 | Global Change Africa and Development, Washington | |
| 1998 | 2 nd NASA LCLUC Science Team Meeting, Warrenton, Va. | |
| 1997 | 1 st NASA LCLUC Science Team Meeting, Warrenton, Va. | |
| 1992 | Remote Sensing and Development, Aspen Global Change Institute, Aspen, Co. | |
| 1991 | US Interagency Workshops on Deforestation and Biomass Burning, Washington, DC. | |
| 1989 | Trace Gas Emissions Associated with Biomass Burning (EPA Expert Meeting) | Washington, DC. |

International

- 2013 International Workshop on Food Security, European Commission, Brussels
- 2013 LCLUC/GOFC GOLD/START Regional Workshop on Land Use and Water Resources, Tashkent, Uzbekistan
- 2013 GEOGLAM Regional Workshop on Satellite Monitoring of Agricultural Lands in Northern Eurasia, Russian Academy of Sciences, Moscow, Russia.
- 2013 LCLUC/GOFC GOLD/START Regional Workshop on Land Use and Water Resources Coimbatore, India
- 2012 LCLUC/GOFC GOLD/START Regional Workshop, Hanoi Vietnam
- 2011 Croplands Mapping Workshop, GEO, IFPRI, GOFC-GOLD Workshop, IIASA, Austria
- 2010 Agrisat Workshop, Brussels, Belgium
- 2010 NASA LCLUC/NEESPI/ GOFC-GOLD/START Workshop on Land Use Change in Eastern Europe, Tartu, Estonia
- 2009 NASA LCLUC/MAIRS/GOFC-GOLD/START Workshop on Land Use in Central Asia, Almaty, Kazakhstan
- 2009 GEOSS Workshop on Designing a Global Agricultural Monitoring System, Beijing China
- 2009 NASA LCLUC/MAIRS/GOFC-GOLD/START Workshop on Land Use in S. E. Asia, Khon Kaen, Thailand
- 2008 HRH Prince Charles Rainforest Foundation, Workshop on Satellite Monitoring of Rainforests, London
- 2008 GEOSS workshop on Best Practices for Estimating Crop Area, Ispra, Italy (Co-Chair, Organizing Committee)
- 2007 GOFC/GOLD Land and Vegetation Direct Readout Workshop, Mexico City, (Co-Chair, Organizing Committee)
- 2007 GOFC/GOLD 1st West African Regional Network Meeting, Ghana (Organizing Committee)
- 2007 NEESPI/LCLUC Workshop on Dryland Systems, Urumqi, China (Science Steering Committee)
- 2007 GEOSS Workshop on Global Agricultural Monitoring, UN FAO Rome (Chair)
- 2007 GOFC/GOLD Fire Implementation Team Meeting, Thesaloniki, Greece (Chair)
- 2007 6th EARSEL SIG Fire Workshop on Operational Use of Remote Sensing in Forest Fire Management, Thesaloniki, Greece (Science Steering Committee)
- 2007 4th International Wildfire Conference, Seville, Spain (Organizing Committee)
- 2006 Global Vegetation Workshop 2006, Montana (Organizing Committee)
- 2006 IGOL Agriculture Meeting, UN FAO Rome (Chair)
- 2006 3rd IGOL Meeting, Beijing Rome (Co-Chair)
- 2005 5th International Workshop on Remote Sensing and GIS Applications to Forest Fire Management Zaragoza Spain (Science Steering Committee)
- 2005 GOFC/GOLD Science and Technical Board Meeting, Beijing, China
- 2005 GOFC/GOLD Fire Implementation Team Meeting, Montreal, Canada
- 2004 MODIS Burned Area Validation Workshop, Fremantle, Australia
- 2004 MODIS Data Processing Workshop, Fremantle, Australia
- 2004 First Integrated Global Observations of Land (IGOL) Team Meeting, UN FAO, Rome
- 2004 GOFC/GOLD Geostationary Fire Workshop, EUMETSAT, Darmstadt, Germany
- 2004 NEESPI-GOFC/GOLD Regional Workshop on Observational Data, St. Petersburg, Russia
- 2003 SAFNET Regional Meeting, Kruger Park, South Africa
- 2003 GOFC GOLD-Fire Australian Burned Area Validation Workshop, Sydney
- 2003 EARSEL/GOFC/GOLD-Fire, Joint Workshop on Fire Danger, Ghent Belgium
- 2003 USFS/World Bank/GOFC-GOLD Workshop on Forest Fire Management, Russia
- 2002 GOFC/GOLD-Fire IGBP IGAC Workshop on Fire Emissions, USA
- 2002 IBFRA/GOFC Regional Network Planning Meeting, Krasnayorsk, Russia
- 2001 GOFC Regional Network Meeting, St Petersburg, Russia
- 2001 GOFC Workshop on Satellite Fire Validation, Lisbon, Portugal
- 2000 CEOS WGISS/GOFC meeting, London, England
- 2000 CEOS Calibration Validation Working Group Meeting, JRC, Ispra
- 2000 GOFC Central Africa Coordination Meeting, Libreville, Gabon
- 1999 GOFC Fire Coordination Meeting, Varese, Italy

- 1999 Miombo LUCC Network Fire Meeting, Matopos, Zimbabwe
- 1999 GOFCT Tropical Forest Meeting, Washington, DC.
- 1999 SEASTART Regional Center, Meeting on Land Cover and Land Use Data, Bangkok Thailand
- 1997 Miombo LUCC Network Meeting, Lusaka, Zambia
- 1997 SEASTART Regional Center, Meeting on Data and Information Systems, Bangkok, Thailand
- 1995 Miombo LUCC Network Meeting, Zomba, Malawi
- 1994 START, Southern Africa Regional Meeting, Gaborone, Botswana
- 1993 IGBP Joint Core Project Workshop on African savannas, land use and global change, Victoria Falls, Zimbabwe.
- 1993 IGBP-DIS Fire Algorithm Workshop, NASA - GSFC
- 1992 International Space Year -World Forest Watch Conference, San Jose dos Campos, Brazil
- 1991 EOS IDS Land Biosphere Topical Workshop- ISLSCP Americas, Columbia, Md.
- 1991 Workshop on Requirements for Global Scale Terrestrial Biospheric Data Sets for IGBP Core Projects, Toulouse, France
- 1991 Dahlem Conference on Biomass Burning, Berlin, Germany
- 1988 The First African International Satellite Land Surface Climatology Project Conference, Niamey, Niger.
- 1985 AVHRR Grasslands Research Meeting, Nairobi, Kenya
- 1982 The First European Thematic Mapper Meeting, Frascati, Italy

Research community World Wide Web Site development:

- GEOGLAM Crop Monitor - <http://www.geoglam-crop-monitor.org/>
- NASA Land Cover and Land Use Change - <http://lcluc.umd.edu/>
- USAID Central Africa Regional Project for the Environment - <http://carpe.umd.edu/>
- NASA MODIS Fire – <http://modis-fire.umd.edu/>
- MODIS Land - <http://modis-land.gsfc.nasa.gov/>

RECENT INVITED PRESENTATIONS:

- 2015 GEOGLAM, University of Southampton, U.K.
- 2015 Global Agricultural Monitoring, University of Twente, Holland
- 2014 Land Change Science, **19th Pecora Conference**, Denver, USA
- 2014 The GEOGLAM Crop Monitor Status, **AMIS Meeting**, UN-FAO, Rome
- 2014 Land Cover and Land Use Change, **Joint Earsel/NASA Land Use Workshop**, Berlin
- 2013 GEOGLAM: Recent Accomplishments. **International Workshop on Food Security**, European Commission, Brussels,

- 2013 Satellite Monitoring of Fires and International Cooperation. **The International Smoke Symposium**, International Association of Wildland Fire, University of Maryland.
- 2013 Fire Monitoring from Space. **9th International EARSeL Forest Fire SIG Workshop**, Leicester, U.K.

AWARDS

- William T. Pecora Award, 2014 - NASA / DOI National Award for outstanding contributions toward understanding the Earth by means of Remote Sensing.
- NASA Group Achievement Award, Earth Observing System (EOS), Near Real Time Processing System Team - 2013
- NOAA/NASA Certificate of Recognition, launch and commission of S-NPP Satellite System

NASA GSFC Outstanding Teamwork Award, Earth Observing System (EOS) Aqua Mission Team, 2011

NASA Exceptional Public Service Medal, 2010

NASA Group Achievement Award, MODIS Science Data Support Team, 2007

NASA Group Achievement Award Aqua Mission Team, 2003

NASA GSFC Certificate of Recognition, launch, commission and activation of EOS Terra Mission, 2002

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