

06.2024

## ZHE ZHU

Department of Natural Resources and the Environment  
University of Connecticut (UConn), Storrs, CT, USA  
Phone: (806) 834-7859, Email: [zhe@uconn.edu](mailto:zhe@uconn.edu)  
Website: <https://gerslab.uconn.edu/>

### RESEARCH INTERESTS

Remote Sensing; Time Series Analysis; Global Environmental Change; Land Cover and Land Use Change; Disaster and Hazard Monitoring; Biodiversity Conservation; Climate Change

### EDUCATION

2013 Ph.D. in Geography, Boston University  
2006 B.E. in Remote Sensing and Photogrammetry, Wuhan University

### APPOINTMENTS

2023- Associate Professor (with tenure), Department of Natural Resources and the Environment, UConn  
2023- Consultant, Bay Area Environmental Research Institute  
2022 Consultant, Wildfire.org  
2019-2023 Assistant Professor, Department of Natural Resources and the Environment, UConn  
2016-2018 Assistant Professor, Department of Geosciences, Texas Tech University  
2014-2016 Land Change Scientist, Contractor to USGS Earth Resources Observation and Science (EROS) Center  
2013-2014 Post-doctoral Associate, Department of Earth and Environment, Boston University  
2008-2012 Research Assistant, Department of Geography, Boston University

### PROFESSIONAL ACTIVITIES

2024 Chair and Organizer, Annual Meeting of Association of American Geographers, Honolulu  
2024.02- Member, LP DAAC User Working Group  
2023.06- Member, NASA Carbon Monitoring System (CMS) Science Team  
2022.09- Volume Editor, Remote Sensing Data Processing and Analysis Methodology, Comprehensive Remote Sensing (Book), Second Edition, Elsevier.  
2022.08- Guest Editor, Remote Sensing of Environment, Special Issue  
2022.08- Interim Editor in Chief, Remote Sensing of Environment  
2022.07- Editorial Board, Journal of Geodesy and Geoinformation Science  
2022- Associate Editor, Journal of Remote Sensing  
2022- Guest Editor, Journal of Remote Sensing, Special Issue  
2021- Member, NASA Black Marble Science Team  
2021 Timeseries Application Session Chair, ARD21 Satellite Data Interoperability Workshop  
2021-2023 Author, Fifth National Climate Assessment (NCAS)  
2021- Founding Director, CATALYST and UConn Center of Excellence  
2019- Founding Director, Global Environmental Remote Sensing Laboratory  
2019- Associate Editor, Science of Remote Sensing  
2019- Editorial Board, Remote Sensing  
2018-2023 Member, USGS-NASA Landsat Science Team  
2018- Associate Editor, Remote Sensing of Environment  
2019.01-2022.06 Member, Science Interface Panel, USGS EROS CalVal Center of Excellence  
2017- Editorial Board, PeerJ

2014-	Member, American Geographical Union
2019-2020	Guest Editor, Remote Sensing, Special Issue
2018-2021	Chair, American Geographical Union (AGU), San Francisco and New Orleans
2018	Chair and Organizer, Annual Meeting of Association of American Geographers, New Orleans
2017-2018	Guest Editor, Remote Sensing, Special Issue
2017-2018	Guest Editor, Forests, Special Issue
2017-2018	Associate Editor, Arabian Journal of Geosciences
2017	Chair and Organizer, Annual Meeting of Association of American Geographers, Boston
2014-2019	Member, Association of American Geographers

## AWARDS

2020-2023	<u>Web of Science Highly Cited Researchers</u>
2021	<u>UConn-AAUP Excellence Awards - Excellence in Research &amp; Creativity: Early Career</u>
2016	Outstanding Contribution in Reviewing Remote Sensing of Environment
2007-2008	Presidential University Graduate Fellowships, Boston University, Boston

## TEACHING

### *Academic Courses*

Remote Sensing Image Processing, NRE 5535: UConn, Spring 2024 (Instructor)
Remote Sensing of Environment, NRE 3535: UConn, Fall 2023 (Instructor)
Remote Sensing Image Processing, NRE 4535/5535: UConn, Spring 2023 (Instructor)
Quantitative Remote Sensing Methods, NRE 5545: UConn, Fall 2022 (Instructor)
Remote Sensing Image Processing, NRE 5535: UConn, Spring 2022 (Instructor)
Remote Sensing of Environment, NRE 3535: UConn, Fall 2021 (Instructor)
Remote Sensing Image Processing, NRE 4535/5535: UConn, Spring 2021 (Instructor)
Quantitative Remote Sensing Methods, NRE 5545: UConn, Fall 2020 (Instructor)
Remote Sensing Image Processing, NRE 4535/5535: UConn, Spring 2020 (Instructor)
Remote Sensing of Environment, NRE 3535: UConn, Fall 2019 (Instructor)
Advanced Remote Sensing, GIST 5320: Texas Tech University, Fall 2018 (Instructor)
Remote Sensing of Environment, GIST 3301/5301: Texas Tech University, 2016-2017 (Instructor)
Digital Image Processing, GE 440/640, Boston University, Spring 2012 (Teaching Assistant)
Digital Image Processing, GE 440/640, Boston University, Fall 2011 (Guest Lecturer)

### *Certificate*

Exploring Online Learning, UConn, April 5, 2020

## MENTORING

### *Postdocs*

Ji Won Suh (2022-), Ph.D., UConn, 2022
Yongquan Zhao (2021-2022), Ph.D., The Chinese University of Hong Kong, 2018 <i>Current Position: Associate Professor at University of Chinese Academy of Sciences</i>
Su Ye (2020-2023), Ph.D., Clark University, 2020 <i>Current Position: Hundred Talents Assistant Professor at Zhejiang University</i>
Xiucheng Yang (2020-), Ph.D., University of Strasbourg, 2019
Shi Qiu (2019-2022), Ph.D., University of Electronic Science and Technology of China, China, 2018 <i>Current Position: Research Assistant Professor at UConn</i>

Rong Shang (2018-2020), Ph.D., Chinese Academy of Sciences, China, 2018

*Current Position: Associate Professor at Fujian Normal University*

Congcong Li (2018-2019), Ph.D. Beijing Normal University, China, 2014

*Current Position: Research Scientist, Contractor USGS EROS Center*

Lei Ma (2018), Ph.D. Nanjing University, China, 2016

*Current Position: Associate Professor at Nanjing University*

#### ***MS/ Ph.D. Advisees***

Ashley Grinstead (2023-), MS Student, Dept. of Natural Resources and the Environment, UConn

Mari Cullerton (2022-2025), MS Student, Dept. of Natural Resources and the Environment, UConn

Falu Hong (2020-), Ph.D. Student, Dept. of Natural Resources and the Environment, UConn

Song Kexin (2020-), Ph.D. Student, Dept. of Natural Resources and the Environment, UConn

Tian Li (2019-), Ph.D. Student, Dept. of Natural Resources and the Environment, UConn

Junxue Zhang (2017-2020), MS Student, Dept. of Natural Resources and the Environment, UConn

*Current Position: Software Engineer, Amazon*

#### ***Visiting Scholar Advisees***

Lin Yukun (2018-2019), Institute of Remote Sensing and Digital Earth, Chinese Academy of Sciences

*Current Position: Assistant Professor at Shanghai Normal University*

Shi Qiu (2017-2018), School of Resources & Environment, University of Electronic Science and Technology of China

*Current Position: Research Assistant Professor at UConn*

#### ***M.S., Ph.D. Dissertation, Orals, and/or guiding Committees***

Hangkai You (2023-), Ph.D. Student, Department of Forest and Wildlife Ecology, University of Wisconsin-Madison

Mei-Ling Emily Feng (2022-), Ph.D. Student, Department of Ecology and Evolutionary Biology, UConn

Durga Joshi (2021-), Ph.D. Student, Department of Natural Resources and the Environment, UConn

Frank Gigliotti (2021-), Ph.D. Student, Department of Ecology and Evolutionary Biology, UConn

Moataz Kilany (2020-2023), Ph.D. Student, Department of Geography, UConn

Elana Berlin (2021-2022), M.S. Student, Department of Natural Resources and the Environment, UConn

Ji Won Suh (2020-2023), Ph.D. Student, Department of Geography, UConn

Ankit Singh (2020-2022), Ph.D. Student, Department of Natural Resources and the Environment, UConn

Zhijie Zhang (2019-2022), Ph.D. Student, Department of Geography, UConn

*Current Position: Postdoctoral Researcher at the University of Arizona*

Amal H. Aljaddani (2016-2022), Ph.D. Student, Department of Geosciences, Texas Tech University

*Current Position: Assistant Professor at University of Jeddah*

Su Ye (2017-2020), Ph.D. Student, Graduate School of Geography, Clark University

*Current Position: Hundred Talents Assistant Professor at Zhejiang University*

Tarek Kandakji (2016-2020), Ph.D. Student, Department of Geosciences, Texas Tech University

*Current Position: Remote Sensing Specialist and Manager at Yale University*

Yazhou Sun (2017-2019), M.S. Student, Department of Plant and Soil Science, Texas University

*Current Position: Ph.D. Student at University of Wisconsin-Madison*

Congliang Zhou (2017-2019), M.S. Student, Department of Geosciences, Texas Tech University

*Current Position: Ph.D. Student at the University of Florida*

Abir Raihan (2017-2018), M.S. Student, Department of Plant and Soil Science, Texas Tech University

Aaron Flores (2017-2018), M.S. Student, Department of Geosciences, Texas Tech University  
*Current Position: Ph.D. Student at the University of Utah*

### **Undergraduate Advisees**

Mari Cullerton (2019-2021), the University Scholar Program, UConn  
*Current Position: M.S. Student at UConn*

### **UNIVERSITY SERVICE**

2021-2022 Search Committee, Climate Change Adaptation Science Professor, Department of Natural Resources and the Environment, UConn  
 2021-2022 Search Committee, Grant Specialist, CAHNR, UConn  
 2021-2022 Search Committee for Data Science, Research Fellow, CLAS, UConn  
 2021- NRE Graduate Program/Admission Committee, UConn  
 2019-2023 NRE Seminar Committee, UConn  
 2019-2024 CAHNR Faculty Advisory Council, UConn  
 2020.9.22 Panelist for UConn's Postdoc Appreciation Week Event  
 2020-2021 NRE Seminar Committee Chair, UConn  
 2019-2020 Search Committee, GIS Assistant Professor, Department of Geography, UConn  
 2019 External Search Committee, GIS Assistant Professor, Department of Geography, UConn  
 2017 Organizer, Climate Science Center Monthly Seminar Series, Texas Tech University  
 2017-2018 Sedimentary Geology Position Search Committee, Texas Tech University

### **JOURNAL & BOOK REVIEW (# of manuscripts or book chapters)**

*Access (1)*

*Agricultural and Forest Meteorology (2)*

*Applied Sciences (1)*

*Arid Land Research and Management (1)*

*Canadian Journal of Remote Sensing (4)*

*Computer & Geosciences (2)*

*CRC Press Taylor & Francis Group (1)*

*Ecological Complexity (1)*

*Environmental Monitoring and Assessment (1)*

*Environmental Research Letters (4)*

*Environmental Science: Processes & Impacts (2)*

*Forests (3)*

*Frontiers of Earth Science (2)*

*Geocarto International (2);*

*Geoinformatics & Geostatistics: An Overview, Geosciences (1)*

*Geophysical Research Letters (1)*

*Geoscience and Remote Sensing Letters (4)*

*Geo-spatial Information Science (1)*

*GIScience and Remote Sensing (4)*

*International J of Applied Earth Obs and Geoinformation (1)*

*International J of Digital Earth (3)*

*International J of Digital Earth (3)*

*International J of Digital Earth (3)*

*International J of Digital Earth (3)*

*International J of Remote Sensing (10)*

*International J of the Physical Sciences (1)*

*J of Applied Remote Sensing (5)*

*Journal of Cleaner Production (1)*

*J of Environmental Informatics (1)*

*J of Mountain Science (1)*

*J of Photogrammetry & RS (13)*

*J of Selected Topics in Applied Earth Obs & RS (10)*

*Methods in Ecology and Evolution (1)*

*Multimedia Tools and Applications (1)*

*Nature Sustainability (2)*

*Nature Climate Change (1)*

*Photogrammetric Engineering and RS (1)*

*Remote Sensing (33)*

*RS Applications: Society and Environment (5)*

*Remote Sensing of Environment (55)*

*Science Bulletin (1)*

*Sensors (4)*

*South African Geographical Journal (1)*

*Sustainability (1)*

*Transactions on Geoscience and Remote Sensing (7)*

## SOFTWARE DEVELOPED

<https://github.com/GERSL>

## SELECTED MEDIA COVERAGE

[UConn Researchers Closer to Near Real-Time Disaster Monitoring](#), *UConn Today*  
[Eyes on Earth Episode 84 – Hurricane Disturbance Mapping](#), Eyes on Earth podcast  
[Viewing Earth from Space at Night: Tracking Our Changing Black Marble](#), *UConn Today*  
[UConn Researchers Assessing the Aftermath of Hurricane Ian](#), *UConn Today*  
[New satellite mapping with AI can quickly pinpoint hurricane damage across an entire state to spot where people may be trapped](#), *The Conversation*  
[DECODE: A New Automatic Algorithm To Track Coastal Tidal Wetland Changes](#), *USGS News*  
[Six From UConn Named to World’s Highly Cited Research List](#), *UConn Today*  
[Diagnosis from the Sky: Catching Insect Infestations within Forests Before It’s Too Late](#), *UConn Today*  
[Research Beat: UConn team develops techniques for spotting bug infestations](#), *The Daily Campus*  
[New Center of Excellence Seeks to Radically Improve Study of Landscapes Over Time](#), *UConn Today*  
[UConn Puts Eight On List Of World’s Most Highly Cited Researchers](#), *UConn Today*  
[Landsat Science Team Members Support the Free and Open Landsat Data Policy](#), *NASA News*  
[What are the Benefits of Landsat’s Current Free and Open Policy?](#) *GIS Lounge*  
[The US government might charge for satellite data again – here’s why that would be a big mistake](#), *The Conversation*  
[A Policy Proposal That Could Curb Remote Sensing Research](#), *UConn Today*  
[Meet the Researcher: Zhe Zhu, Natural Resources and the Environment](#), *UConn Today*

## RESEARCH FUNDING

### *Active Funding*

26. Collaborative Research: BoCP-Implementation: Estimating the extinction risk of biodiversity with a time-based dynamic system, PI: S.B. Hedges, **PI: Z. Zhu**, *NSF*, Total **\$1,952,698**, UConn Proportion **\$961,763**, 10/2023-9/2027
25. Estimating roadside tree risk to grid resilience and reliability using PlanetScope time series, **PI: Z. Zhu**, *Eversource*, Total **\$88,000**, 9/2023-8/2025
24. A Sample-based Approach for Analyzing the Driver of Coastal Tidal Wetland Changes, **PI: Z. Zhu**, *USGS*, Total **\$29,994**, 7/2023-6/2026.
23. IUCRC Phase I Grant University of Connecticut: Center for Weather Innovation, Smart Energy and Resilience (WISER), PI: E. Anagnostou, **Senior Personal: Z. Zhu**, *NSF*, Total **\$750,000**, 1/2023-12/2027.
22. Improvements of QA Band and New Science Data Layers Proposed for the NASA Harmonized Landsat and Sentinel-2 Product, **PI: Z. Zhu**, *NASA*, Total **\$299,950**, 4/2023-3/2025.
21. An Alkalinity and Inorganic Blue Carbon Monitoring System: Crediting Wetland-to-Ocean Lateral Fluxes in Carbon Markets and Inventories, PI: Kevin Kroeger, **Institutional PI: Z. Zhu**, *NASA*, Total **\$1,199,695**, UConn Proportion **\$182,743**, 1/2024-1/2027.
20. Water-use and Land-cover change detection using ECOSTRESS and OpenET, PI: Y. Yang, **Institutional PI: Z. Zhu**, *NASA*, Total **\$388,237**, UConn Proportion **\$120,076**, 1/2023-12/2025.
19. Maintenance and Continuation of NASA’s Black Marble Nighttime Lights Product Suite from Suomi-NPP and NOAA-20 VIIRS, PI Z. Wang, **Institutional PI: Z. Zhu**, *NASA*, Total **\$689,856**, UConn Proportion **\$234,578**, 2021-2024.

18. High-performance computing (HPC) cluster, **PI: Z. Zhu** and S. Steinbach, *CAHNR Equipment Grant*, **\$107,453**, 2021-2026.
17. Mapping changes in deciduous forest understory vegetation using remotely sensed data, **PI: Z. Zhu**, Co-PI: C. Rittenhouse, *McIntire-Stennis Capacity Grant*, **\$59,995**, 2021-2024.
16. WATCH: Wide Area Terrestrial Change Hypercube, **Institutional PI: Z. Zhu**, *Intelligence Advanced Research Projects Activity (IARPA)*, Total **\$14,166,466**, UConn Proportion **\$567,967**, 2020-2024.

### **Past Funding**

15. Evaluating Coastal Tidal Wetland Change in the Conterminous United States, **PI: Z. Zhu**, *National Wildlife Refuge System (NWRS)*, Total **\$84,996**, 7/2022-9/2023.
14. Green energy development and carbon mitigation potential of forests and working lands, PI A. Morzillo, **Co-PI: Z. Zhu**, *Eversource*, **\$49,999**, 2021-2023.
13. Assessing Forest Risk to Infrastructure Using Remotely Sensed Imagery, **PI: Z. Zhu**, *Eversource*, **\$207,094**, 2020-2023.
12. Improving land cover classification and land change detection for LCMAP, **PI: Z. Zhu**, *USGS*, **\$349,758**, 2019-2024.
11. Toward Near Real-time Monitoring and Characterization of Land Surface Change for the Conterminous US, **PI: Z. Zhu**, *USGS-NASA Landsat Science Team Program*, **\$870,381**, 2019-2023
10. A Moderate Spatial Resolution Data Record of 21<sup>st</sup> Century Global Land Cover, Land Use, and Land Cover Change, PI: M. Friedl, **Collaborator: Z. Zhu**, *NASA Making Earth System Data Records for Use in Research Environments*, **\$4,039,454**, 2018-2023
9. Detection and Characterization of Coastal Tidal Wetland Change, **PI: Z. Zhu**, *USGS*, **\$103,019**, 2019-2022.
8. IUCRC Planning Grant University of Connecticut: Center for Weather Innovation, Smart Energy and Resilience (WISER), PI: E. Anagnostou, **Contributor: Z. Zhu**, *NSF*, **\$20,000**, 2021-2022.
7. Estimation of Young Forest and Shrubland Habitat in Connecticut, PI: Chadwick Rittenhouse, **Co-I: Z. Zhu**, *Department of Energy and Environmental Protection (DEEP)*, **\$181,367**, 2019-2021.
6. Mapping and Characterizing Human Activity Changes using NASA Black Marble Product Suite, **Institutional PI: Z. Zhu**, *NASA*, **\$116,338**, 2019-2021.
5. NASA's Black Marber Standard Product Suite: Algorithm Refinement Effort, PI: M. Roman, **Collaborator: Z. Zhu**, *NASA the Science of TERRA, AQUA, and SUOMI NPP*, **\$862,698**, 2017-2020
4. Quantifying Cotton Water Stress Using Unmanned Aerials Systems and Satellite Remote Sensing, PI: W. Guo, **Co-I: Z. Zhu**, *The Climate Corp*, **\$130,000**, 2018-2019
3. Toward Near Real-time Monitoring and Characterization of Land Surface Change for the Conterminous US, **PI: Z. Zhu**, *USGS-NASA Landsat Science Team Program*, **\$1,062,069**, 2017-2022 (discontinued after leaving Texas Tech University in Dec. 2018)
2. Algorithm Improvement, Near Real-time Monitoring, and New Change Product Designed for the LCMAP Initiative, **PI: Z. Zhu**, *USGS Great Plains Cooperative Ecosystem Studies Unit (CESU) Program*, **\$283,045**, 2017-2021 (discontinued after leaving Texas Tech University in Dec. 2018)

1. A Historically Consistent and Broadly Applicable MRV System Based on Lidar Sampling and Landsat Time-series, PI: W. Cohen, **Consultant: Z. Zhu**, *NASA Carbon Monitoring System*, \$2,180,302, 2013-2016

**PUBLICATIONS (>16,500 citations in total and an average of ~200 citations per paper)**

**\* Corresponding authors, † Students or postdocs under my supervision (or co-supervision)**

80. Suh, J., Z. Zhu, and YI Zhao, Monitoring construction changes using dense satellite time series and deep learning, *Remote Sensing of Environment*, 309, 114207, 2024.
79. Worthley, T., A. Bunce, A.T. Morzillo, C. Witharana, Z. Zhu, ..., and R.T. Fahey, Stormwise: Innovative Forest Management to Promote Storm Resistance in Roadside Forests. *Journal of Forestry*, p.fvae011, 2024.
78. Ye\*, S., **Z. Zhu**, J. Suh, Leveraging past information and machine learning to accelerate land disturbance monitoring, *Remote Sensing of Environment*, 305, 114071, **2024**.
77. Radeloff\*, V., D. Roy, M. Wulder, ..., and **Z. Zhu**, Need and vision for global medium-resolution Landsat and Sentinel-2 data products, *Remote Sensing of Environment*, 300, 113918, **2024**.
76. Stanimirova, R., K. Tarrio, K. Turlej, ..., and **Z. Zhu**, A global land cover training dataset from 1984 to 2020, *Scientific Data*, 10, **2023**.
75. Thornton, P.E., B.C. Reed, G.Z. Xian, L. Chini, A.E. East, J.L. Field, C.M. Hoover, B. Poulter, S.C. Reed, G. Wang, and Z. Zhu, 2023: Ch. 6. Land cover and land-use change. In: *Fifth National Climate Assessment*. Crimmins, A.R., C.W. Avery, D.R. Easterling, K.E. Kunkel, B.C. Stewart, and T.K. Maycock, Eds. U.S. Global Change Research Program, Washington, DC, USA. <https://doi.org/10.7930/NCA5.2023.CH6>, **2023**.
74. Crawford, C.J.\*, Roy, D.P., Arab, S., Barnes, C., Vermote, E., Hulley, G., Gerace, A., Choate, M., Engebretson, C., Micijevic, E. and Schmidt, G., ..., **Z. Zhu**, and S. Zahn, The 50-year Landsat Collection 2 Archive. *Science of Remote Sensing*, p.100103, **2023**.
73. Yang, X.†\*, S. Qiu, **Z. Zhu**, C. Rittenhouse, D. Riordan, Mapping understory species in deciduous forests from Sentinel-2 time series, 293, 113601, *Remote Sensing of Environment*, **2023**.
72. Hu, J., A.E. Hartemink, A.R. Desai, P.A. Townsend, R.Z. Abramoff, **Z. Zhu**, D. Sihi, J. Huang, A Continental-Scale Estimate of Soil Organic Carbon Change At NEON Sites and 2 Their Environmental and Edaphic Controls, *Journal of Geophysical Research Biogeosciences*, 128, e2022JG006981, **2023**.
71. Jin, S.\*, J. Dewitz, C. Li, D. Sorenson, **Z. Zhu**, R. Shogib, P. Danielson, B. Granneman, C. Costello, A. Case, L. Gass, National Land Cover Database 2019: A comprehensive strategy for creating the 1986-2019 forest disturbance product, 3, p.0021, *Journal of Remote Sensing*, **2023**.
70. Ye, S.†\*, **Z. Zhu**, and G. Cao, Object-based continuous monitoring of land disturbance, *Remote Sensing of Environment*, 287, 113462, **2023**.
69. Tollerud, H.\*, **Z. Zhu**, K. Smith, R. Hussain, D. Wellington, Towards consistent change detection with uneven availability of remote sensing input data: modification of the Continuous Change Detection and Classification, *Remote Sensing of Environment*, 285, 113372, **2023**.
68. Qiu, S.†\*, **Z. Zhu**, P. Olofsson, C. Woodcock, and S. Jin, Evaluation of Landsat Image Compositing Algorithms for Landsat Imagery, *Remote Sensing of Environment*, 285, 113375, **2023**.
67. Jin, S.\*, J. Dewitz, P. Danielson, B. Granneman, C. Costello, K. Smith, and **Z. Zhu**, National Land Cover Database 2019: A new strategy for creating clean leaf-on and leaf-off Landsat composite images, 3, p.0022, *Journal of Remote Sensing*, **2023**.

66. Qiu, S.†\*, **Z. Zhu**, and X. Yang, Characterization of land disturbances based on Landsat time series, *Earth and Space Science Open Archive*, 36, <https://doi.org/10.1002/essoar.10511010.1>, **2022**
65. **Zhu, Z.\***, S. Qiu\*, and S. Ye\*, Remote Sensing of Land Change: A Multifaceted Perspective, *Remote Sensing of Environment*, 282, 113266, **2022**.
64. Tian, L.†\*, **Z. Zhu**, Z. Wang, M. Román, V. Kalb, and Y. Zhao, Continuous Monitoring of Nighttime Light Changes Based on Daily NASA's Black Marble Product Suite, *Remote Sensing of Environment*, 282, 113269, **2022**.
63. Wulder, M.A.\*, D.P. Roy, V.C. Radloff; T.R. Loveland, M.C. Anderson, D.M. Johnson, S. Healey, **Z. Zhu**, T.A. Scambos, N. Pahlevan, M. Hansen, N. Gorelick, C.J. Crawford, J.G. Masek, T. Hermosilla, J.C. White, A.S. Belward, C. Schaaf, C. Woodcock, J.L. Huntington, L. Lymburner, P. Hostert, F. Gao, A. Lyapustin, J-F. Pekel, P. Strobl, and B.C. Cook, Fifty years of Landsat science and impacts, *Remote Sensing of Environment*, 280, 113195, **2022**.
62. Zhang, Y.\*, C. Woodcock, P. Arévalo, P. Olofsson, X. Tang, R. Stanimirova, E.L. Bullock, K.R. Tarrío, **Z. Zhu** and M. Friedl, A global analysis of the spatial and temporal variability of usable Landsat observations at the pixel scale, *Frontiers in Remote Sensing*, 3, 894618, **2022**.
61. M.A. Friedl\*, C. Woodcock, P. Olofsson, **Z. Zhu**, T.R. Loveland, R. Stanimirova, P.A. Arévalo, E. Bullock, K. Hu, Y. Zhang, K. Turlej, K. Tarrío, K. Mcavoy, N. Gorelick, J.A. Wang, C.P. Barber, and C.M. Souza, Medium Spatial Resolution Mapping of Global Land Cover and Land Cover Change Across Multiple Decades from Landsat, *Frontiers in Remote Sensing*, 3, 894571, **2022**.
60. Zhou, Q.\*, G. Xian, J. Horton, D. Wellington, G. Domke, R. Auch, C. Li, and **Z. Zhu**, CONUS Tree Regrowth Map from LCMAP Collection 1.0 Land Cover Products, *GIScience & Remote Sensing*, 59(1), 959-974, **2022**.
59. Auch, R.F., D.F. Wellington, J.L. Taylor, S.V. Stehman, H.J. Tollerud, J.F. Brown, T.R. Loveland, B.W. Pengra, J.A. Horton, **Z. Zhu**, and A.A. Midekisa, 2022. Conterminous United States Land-Cover Change (1985–2016): New Insights from Annual Time Series, *Land*, 11(2), 298, **2022**.
58. Rittenhouse, C.D.\*, E. Berlin, N. Mickle, S. Qiu, D. Riordan, and **Z. Zhu**, An Object-Based Approach to Map Young Forest and Shrubland Vegetation Based on Multi-Source Remote Sensing Data, *Remote Sensing*, 14(5), 1091, **2022**.
57. Aljaddani, A.†\*, X. Song, and **Z. Zhu**, Characterizing the Patterns, Trends of Urban Growth in Saudi Arabia's 13 Capital Cities Using Landsat Time Series, *Remote Sensing*, 14910, 2382, **2022**.
56. Shang, R.†\*, **Z. Zhu**, J. Zhang, S. Qiu, Z. Yang, T. Li, and X. Yang, Near-real-time monitoring of land disturbance with harmonized Landsats 7-8 and Sentinel-2 data, *Remote Sensing of Environment*, 278, 113073, **2022**.
55. Yang, X.†\*, **Z. Zhu**, S. Qiu, K. Kroeger, Z. Zhu, S. Covington, Detection and characterization of coastal tidal wetland change in the northeastern US using Landsat time series, *Remote Sensing of Environment*, 276, 113047, **2022**.
54. Zhao, Y.†\*, and **Z. Zhu**, ASI: An artificial surface index based on Landsat-8 imagery, *International Journal of Applied Earth Observation and Geoinformation*, 107, 102703, **2022**.
53. Zhou, Q.\*, **Z. Zhu**, G. Xian, and C. Li, A novel regression method for harmonic analysis of time series, *ISPRS Journal of Photogrammetry and Remote Sensing*, 185, 48-61, **2022**.
52. Xian, G.\*, K. Smith, D. Wellington, J. Horton, Q. Zhou, C. Li, R. Auch, J. Brown, **Z. Zhu**, and R. Reker, Implementation of CCDC to produce the LCMAP Collection 1.0 annual land surface change product, *Earth Syst. Sci. Data*, 14, 143-162, **2022**.



51. Wang, J., D. Yang, S. Chen, X. Zhu, S. Wu, M. Bogonovich, Z. Guo, **Z. Zhu**, and J. Wu, Automatic cloud and cloud shadow detection in tropical areas for PlanetScope satellite images. *Remote Sensing of Environment*, 264, p.112604, **2021**.
50. Qiu, S.†, **Z. Zhu\***, R. Shang, and C. J. Crawford, Can Landsat 7 preserve its science capability with a drifting orbit? *Science of Remote Sensing*, 100026, **2021**.
49. Molinier, M.\*, J. Miettinen, D. Ienco, S. Qiu, and **Z. Zhu**, Optical Satellite Image Time-Series Analysis for Environment Applications: From Classical Methods to Deep Learning and Beyond, In Bovolo, F (Ed.): *Change detection and image time-series analysis* (Chapter 4), ISTE-Wiley Encyclopedia of Science. **2021**.
48. Ye, S.†\*, J. Rogan, **Z. Zhu**, T.J. Hawbaker, S.J. Hart, R.A. Andrus, A.J.H. Meddens, J.A. Hicke, J.R. Eastman, D. Kulakowski, Detecting subtle change from dense Landsat time series: Case studies of mountain pine beetle and spruce beetle disturbance, *Remote Sensing of Environment*, 263, 112560, **2021**.
47. Zhang, J.†, R. Shang†\*, C. Rittenhouse, C. Witharana, **Z. Zhu\***, Evaluating the impacts of models, data density and irregularity on reconstructing and forecasting dense Landsat time series. *Science of Remote Sensing*, 100023, **2021**.
46. Ye, S.\*†, J. Rogan, **Z. Zhu**. and J.R. Eastman, A near-real-time approach for monitoring forest disturbance using Landsat time series: stochastic continuous change detection. *Remote Sensing of Environment*, 112167, **2020**.
45. Tarrío, K.\*, X. Tang, J.G. Masek, M. Claverie, J. Ju, S. Qiu, **Z. Zhu**, and C.E. Woodcock, Comparison of Cloud Detection Algorithms for Sentinel-2 Imagery. *Science of Remote Sensing*, 100010, **2020**.
44. Qiu, S.\*†, **Z. Zhu**, and C.E. Woodcock, Cirrus clouds that adversely affect Landsat 8 images: What are they and how to detect them?, *Remote Sensing of Environment*, 246, 111884, **2020**.
43. **Zhu, Z.\***, J. Zhang, Z. Yang, A.H. Aljaddani, W.B. Cohen, S. Qiu, C. Zhou, Corrigendum to continuous monitoring of land disturbance based on Landsat time series, *Remote Sensing of Environment*, 238, 111824, **2020**
42. Cohen, W.B.\*, S.P. Healey, Z. Yang, **Z. Zhu**, N. Gorelick, Diversity of Algorithm and Spectral Band Inputs Improves Landsat Monitoring of Forest Disturbance, *Remote Sensing*, 12 (10), 1673, **2020**
41. Yang, X. \*†, Q Qin, H Yésou, T Ledauphin, M Koehl, P Grussenmeyer, **Z Zhu**, Monthly estimation of the surface water extent in France at a 10-m resolution using Sentinel-2 data, *Remote Sensing of Environment*, 244, 111803, **2020**
40. Lin, Y. \*†, **Z. Zhu\***, W. Guo, Y. Sun, X. Yang, V. Kovalsky, Continuous monitoring of cotton stem water potential using Sentinel-2 imagery, *Remote Sensing*, 12 (7), 1176, **2020**
39. Berhane, T.M., C.R. Lane\*, S. Mengistu, J. Christensen, H.E. Golden, S. Qiu, **Z. Zhu** and Q. Wu, Land-Cover Changes to Surface-Water Buffers in the Midwestern USA: 25 Years of Landsat Data Analyses (1993-2017), *Remote Sensing*, 12(5), 754, **2020**.
38. Brown, J.F.\*, H.J. Tollerud, C.P. Barber, Q. Zhou, J. Dwyer, J.E. Vogelmann, T. Loveland, C.E. Woodcock, S.V. Stehman, **Z. Zhu**, B. Pengra, K. Smith, J. Horton, G. Xian, R. Auch, T. Sohl, K. Saylor, A. Gallant, D. Zelenak, R. Reker, J. Rover. Lessons learned implementing an operational continuous United States national land change monitoring capability: The Land Change Monitoring, Assessment, and Project (LCMAP) approach, *Remote Sensing of Environment*, 238, 111356, **2020**
37. **Zhu, Z.\***, J. Zhang, Z. Yang, A.H. Aljaddani, W.B. Cohen, S. Qiu, C. Zhou, Continuous monitoring of land disturbance based on Landsat time series, *Remote Sensing of Environment*, 238, 111116, **2020**
36. Deng, C.\* & **Z. Zhu**, Continuous subpixel monitoring of urban impervious surface using Landsat time series, *Remote Sensing of Environment*, 238, 110929, **2020**

35. Jin, S.\* , C. Homer, L. Yang, P. Danielson, J. Dewitz, C. Li, **Z. Zhu**, G. Xian, Overall Methodology Design for the United States National Land Cover Database 2016 Products, *Remote Sensing*, 11 (24), 2971, **2019**
34. Shang, R.\* †, **Z. Zhu**, Harmonizing Landsat 8 and Sentinel-2: A time-series-based reflectance adjustment approach, *Remote Sensing of Environment*, 235, 111439, **2019**
33. **Zhu, Z.\***, Science of Landsat Analysis Ready Data, *Remote Sensing*, 11(18), 2166, **2019**
32. Liu, C., X. Huang\*, **Z. Zhu**, H. Chen, X. Tang, J. Gong, Automatic extraction of built-up are from ZY3 multi-view satellite imagery: Analysis of 45 global cities, *Remote Sensing of Environment*, 226, 51-73, **2019**
31. Qiu, S. †, **Z. Zhu\***, and B. He\*, Fmask 4.0: Improved cloud and cloud shadow detection in Landsats 4-8 and Sentinel-2 imagery, *Remote Sensing of Environment*, 231, 111205, **2019**
30. **Zhu, Z.\***, Y Zhou, KC Seto, EC Stokes, C Deng, STA Pickett, H Taubenböck, Understanding an urbanizing planet: Strategic directions for remote sensing, *Remote Sensing of Environment*, 228, 164-182, **2019**
29. **Zhu, Z\***, M.A. Wulder, D.P. Roy, C.E. Woodcock, M.C. Hansen, V.C. Radeloff, S.P. Healey, C. Schaaf, P. Hostert, P. Strobl, J. Pekel, L. Lyburner, N. Pahlevan, T.A. Scambos, Benefits of the free and open Landsat data policy, *Remote Sensing of Environment*, 224, 382-385, **2019**
28. Wulder, M.A.\* , T.R. Loveland, D.P. Roy, C.J. Crawford, J.G. Masek, C.E. Woodcock, R.G. Allen, M.C. Anderson, A.S. Belward, W.B. Cohen, J. Dwyer, A. Erb, F. Gao, P. Griffiths, D. Helder, T. Hermosilla, J.D. Hipple, P. Hostert, M.J. Hughes, J. Huntington, D.M. Johnson, R. Kennedy, A. Kilic, Z. Li, L. Lyburner, J. McCorkel, N. Pahlevan, T.A. Scambos, C. Schaaf, J.R. Schott, Y. Sheng, J. Storey, E. Vermote, J. Vogelmann, J.C. White, R.H. Wynne, and **Z. Zhu**, Current status of Landsat program, science, and applications. *Remote Sensing of Environment*, 225, 127-147, **2019**
27. Qiu, S. †, Y. Lin, R. Shang\* , J. Zhang, L. Ma, and **Z. Zhu\*** , 2019. Making Landsat Time Series Consistent: Evaluating and Improving Landsat Analysis Ready Data. *Remote Sensing*, 11(1), p.51, **2019**
26. **Zhu, Z.\***, S. Qiu, B. He, C. Deng, Cloud and cloud shadow detection for Landsat images: the fundamental basis for analyzing Landsat time series, In Weng, Q. (Ed.): *Remote Sensing Time Series Image Processing* (1<sup>st</sup> ed., pp. 3-24), Boca Raton, FL: CRC Press/Taylor & Francis, **2018**
25. Healey, S.P.\* , W.B Cohen, Z. Yang, C.K. Brewer, E.B. Brooks, N. Gorelick, A. Hernandez, C. Huang, M.J. Hughes, R.E. Kennedy, T.R. Loveland, G.G. Moisen, T.A. Schroeder, S.V. Stehman, J.E. Vogelmann, C.E. Woodcock, L. Yang, & **Z. Zhu**, Mapping forest change using stacked generalization: an ensemble approach, *Remote Sensing of Environment*, 204, 717-728, **2018**
24. Deng, C.\* , C. Li, & **Z. Zhu**, W. Lin, & L. Xi, Subpixel urban impervious surface mapping: The impact of input Landsat images, *ISPRS Journal of Photogrammetry and Remote Sensing*, 133, 89-103, **2017**
23. Qiu, S. †, B. He\*, **Z. Zhu\***, Z. Liao, & X. Quan, Improving Fmask cloud and cloud shadow detection in mountainous area for Landsat 4-8 images. *Remote Sensing of Environment*, 199, 107-119, **2017**
22. **Zhu, Z.\***, Change detection using Landsat time series: a review of frequencies, preprocessing, algorithms, and applications. *ISPRS Journal of Photogrammetry and Remote Sensing*, 130, 370-384, **2017**
21. Jin, S.\* , L. Yang, **Z. Zhu**, & C. Homer, A land cover change detection and classification protocol for updating Alaska NLCD 2001 to 2011, *Remote Sensing of Environment*, 195, 44-55, **2017**

20. Foga, S.\*, P.L. Scaramuzza, S. Guo, **Z. Zhu**, R.D. Dilley, T. Beckman, G.L. Schmidt, J.L. Dwyer, M.J. Hughes, B. Laue, Cloud detection algorithm comparison and validation for operational Landsat data products. *Remote Sensing of Environment*, 194, 379-390, **2017**
19. Xin, X., B. Liu\*, K. Di, **Z. Zhu**, Z. Zhao, J. Liu, Z. Yue, G. Zhang, Monitoring urban expansion using time series of night-time light data: a case study in Wuhan, China, *International Journal of Remote Sensing*, 1-19, **2017**
18. Cohen, W.B.\*, S.P. Healey, Z. Yang, S.V. Stehman, C.K. Brewer, E.B. Brooks, N. Gorelick, C. Huang, M.J. Hughes, R.E. Kennedy, T.R. Loveland, G.G. Moisen, T.A. Schroeder, J.E. Vogelmann, C.E. Woodcock, L. Yang, **Z. Zhu**, How similar are forest disturbance maps derived from different Landsat time series algorithms? *Forests*, 8, 98, **2017**
17. **Zhu, Z.\***, A.L. Gallant, C.E. Woodcock, B. Pengra, P. Olofsson, T.R. Loveland, S. Jin, D. Dahal, L. Yang, & R.F. Auch, Optimizing the strategy for operational land cover classification for the LCMAP initiative: the effect of training and auxiliary data, *ISPRS Journal of Photogrammetry and Remote Sensing*, 122, 206-221, **2016**
16. Pengra, B.\*, A.L. Gallant, **Z. Zhu**, & D. Dahal, Evaluation of the Initial Thematic Output from a Continuous Change-Detection Algorithm for Use in Automated Operational Land-Change Mapping by the US Geological Survey, *Remote Sensing*, 8(10), 811, **2016**
15. Schott, J.\*, A. Gerace, C.E. Woodcock, S. Wang, **Z. Zhu**, & R.H. Wynne, C.E. Blinn, The impact of improved signal to noise ratios on algorithm performance: Case studies for Landsat class instruments, *Remote Sensing of Environment*, 185, 37-45, **2016**
14. **Zhu, Z.\***, Y. Fu\*, C.E. Woodcock, J.E. Vogelmann, P. Olofsson, C. Holden, M. Wang, S. Dai, & Y. Yu, Including land cover change in analysis of greenness trends using all available Landsat 5, 7, and 8 images: A case study from Guangzhou, China (2000-2014), *Remote Sensing of Environment*, 185, 243-257, **2016**
13. Vogelmann, J.E.\*, A.L. Gallant, S. Hua, & **Z. Zhu**, Perspectives on monitoring gradual change across the continuity of Landsat sensors using time-series data, *Remote Sensing of Environment*, 185, 258-270, **2016**
12. Qin, Y., X. Xiao\*, J. Dong, Y. Zhou, **Z. Zhu**, G. Zhang, G. Du, C. Jin, W. Kou, J. Wang, & X. Li, Mapping paddy rice planting area in cold temperate climate region through analysis of time series Landsat 8 (OLI), Landsat 7 (ETM+) and MODIS imagery, *ISPRS Journal of Photogrammetry and Remote Sensing*, 105, 220-233, **2015**
11. **Zhu, Z.\***, C.E. Woodcock, C. Holden, & Z. Yang, Generating synthetic Landsat images based on all available Landsat data: predicting Landsat surface reflectance at any given time, *Remote Sensing of Environment*, 162, 67-83, **2015**
10. **Zhu, Z.\***, S. Wang, & C.E. Woodcock, Improvement and expansion of the Fmask algorithm: cloud, cloud shadow, and snow detection for Landsats 4-7, 8, and Sentinel 2 images, *Remote Sensing of Environment*, 159, 269-277, **2015**
9. **Zhu, Z.\*** & C.E. Woodcock, Automated cloud, cloud shadow, and snow detection based on multitemporal Landsat data: an algorithm designed specifically for monitoring land cover change, *Remote Sensing of Environment*, 152, 217-234, **2014**
8. Kennedy, R.\*, S. Andréfouët, W. Cohen, C. Gómez, P. Griffiths, M. Hais, S. Healey, E. Helmer, P. Hostert, M. Lyons, G. Meigs, D. Pflugmacher, S. Phinn, S. Powell, P. Scarth, S. Sen, T. Schroeder, A. Schneider, R. Sonnenschein, J.E. Vogelmann, M. Wolter, & **Z. Zhu**, Bringing an ecological view of change to Landsat-based remote sensing, *Frontiers in Ecology and Environment*, 12(6), 339-346, **2014**
7. Roy, D.P.\*, M.A. Wulder, T.R. Loveland, C.E. Woodcock, R.G. Allen, M.C. Anderson, D. Helder, J.R. Irons, D.M. Johnson, R. Kennedy, T.A. Scambos, C.B. Schaaf, J.R. Schott, Y. Sheng, E.F. Vermote, A.S. Belward, R. Bindschadler, W.B. Cohen, F. Gao, J.D. Hipple, P. Hostert, J. Huntington, C.O. Justice, A. Kilic, V. Kovalskyy, P.Z. Lee, L. Lyburner, J.G. Masek, J. McCorkel, Y. Shuai, R. Trezza, J. Vogelmann, R.H. Wynne, & **Z. Zhu**,

Landsat-8: science and product vision for terrestrial global change research, *Remote Sensing of Environment*, 145, 154-172, **2014**

6. **Zhu, Z.\*** & C.E. Woodcock, Continuous change detection and classification of land cover using all available Landsat data, *Remote Sensing of Environment*, 144, 152-171, **2014**
5. Xin, Q.\*, P. Olofsson, **Z. Zhu**, B. Tan, & C.E. Woodcock, Towards near real-time monitoring of forest disturbance by fusion of MODIS and Landsat data, *Remote Sensing of Environment*, 135, 234-247, **2013**
4. Melaas, E. K.\*, M.A. Friedl, & **Z. Zhu**, Detecting interannual variation in deciduous broadleaf forest phenology using Landsat TM/ETM+ data, *Remote Sensing of Environment*, 132, 176-185, **2013**
3. **Zhu, Z.\***, C.E. Woodcock, & P. Olofsson, Continuous monitoring of forest disturbance using all available Landsat imagery, *Remote Sensing of Environment*, 122, 75-91, **2012**
2. **Zhu, Z.\***, & C.E. Woodcock, Object-based cloud and cloud shadow detection in Landsat imagery, *Remote Sensing of Environment*, 118(15), 83-94, **2012**
1. **Zhu, Z.\***, C.E. Woodcock, J. Rogan, & J. Kellndorfer, Assessment of spectral, polarimetric, temporal, and spatial dimensions for urban and peri-urban land cover classification using Landsat and SAR data, *Remote Sensing of Environment*, 117(15), 72-82, **2012**

#### PRESENTATIONS AND POSTERS

61. “Connecting the dots” in a changing planet, *Clark University Colloquium Speaker Series*, Worcester, MA 04/25/2024 (invited talk)
60. “Connecting the dots” in land change research, *AAG*, Honolulu, HI, 04/20/2024 (talk)
59. Cloud Detection and Masking, *Landsat Science Team Meeting*, Reno, NV, 02/08/2023 (talk)
58. The Multifaceted View of the U.S. Land Change: the Change Agent Facet, *University of Maryland Geographical Science Seminar*, Online, 12/01/2022 (invited talk)
57. Earth Observation for Societal Impact, *SNAC22*, London, ON, Canada, 10/31/2022 (Panelist)
56. A Multifaceted View of Conterminous US Land Change, *Pecora22*, Denver, CO, 10/27/2022 (talk)
55. Monitoring and Characterization of Land Disturbance: Algorithms and Preliminary Results, *SUNY Albany Falconer Lecture*, Online, 04/26/2022 (invited talk)
54. Remote Sensing of Land Change: A Multifaceted Perspective, *NCSU Geospatial Forum*, Online, 04/07/2022 (invited talk)
53. A new land disturbance monitoring system that provides a multifaceted view of land change for the United States, *AGU*, New Orleans, LA, 12/15/2021 (invited talk)
52. Monitoring and Characterization of Land Disturbance based on Dense Landsat Time Series, *ARD21 Satellite Data Interoperability Workshop*, Online, 10/27/2021 (invited talk)
51. Understanding our changing planet through the lens of satellite imagery, *Institute of Space & Earth Information Science CUHK Seminar*, Online, 04/22/2021 (invited talk)
50. Effects of Landsat 7’s Orbit Drift and a Solution to Preserve Its Science Capabilities, *AGU*, Online, 12/01/2020-12/17/2020 (poster)

49. Understanding our changing planet through the lens of satellite imagery, *UConn Geography Colloquium*, Online, 10/23/2020 (invited talk)
48. Building a Clean, Consistent, and Dense Moderate Resolution Time Series for Monitoring Land Change, *Landsat Science Team Webinar Series*, Online, 05/27/2020 (talk)
47. New Land Disturbance Products for the Conterminous US, *AGU*, San Francisco, CA, 12/09/2019-12/13/2019 (poster)
46. Envisioning the future of global monitoring, *Pecora 21*, Baltimore, MD, 10/10/2019 (keynote speaker)
45. A new system for near real-time monitoring and characterization of land disturbance, *Pecora 21*, Baltimore, MD, 10/09/2019 (talk)
44. Better cloud and cloud shadow mask for Landsats 4-8 and Sentinel-2 imagery, *Landsat Science Team Meeting*, Sioux Falls, SD, 06/19/2019-06/21/2019 (talk)
43. Better cloud and cloud shadow mask for Landsats 4-8 and Sentinel-2 imagery, *Landsat Science Team Meeting*, Sioux Falls, SD, 06/19/2019-06/21/2019 (talk)
42. Mapping our planet in near real-time, *UConn Environmental Engineering Seminar Series*, Storrs, CT, 03/08/2019 (talk)
41. Catching the “invisible ghost” in the optical imagery: What is cirrus and how to detect it?, *Center for Remote Sensing Monthly Seminar*, Boston, MA, 03/01/2019 (invited talk)
40. Continuous Monitoring of Global Land Disturbance: Algorithms & Plans, *Google Global Land Cover Workshop*, Mountain View, CA, 02/21/2019-02/22/2019 (invited talk)
39. Fmask 4.0: Improved cloud and cloud shadow detection for Landsats 4-8 and Sentinel-2 imagery, *AGU*, Washington DC, 12/09/2018-12/15/2018 (talk)
38. Monitoring land disturbance based on Landsat time series, *AGU*, Washington DC, 12/09/2018-12/15/2018 (talk)
37. Monitoring land disturbance based on Landsat time series, *ForestSAT*, College Park, MD, 10/01/2018-10/05/2018 (talk)
36. Making Landsat time series consistent for monitoring land change, *Landsat Science Team Meeting*, Boulder, CO, 08/08/2018-08/10/2018 (talk)
35. Monitoring Land Change in Near Real-time, Webinar for Geoscience and Remote Sensing Society (GRSS) Sponsored by the Washington DC / Northern Virginia Chapter of GRSS, 06/12/2018 (talk)
34. Status and updates of the Continuous Change Detection and Classification (CCDC) algorithm, *AAG*, New Orleans, LA, 04/10/2018-04/14/2018 (talk)
33. Toward near real-time monitoring and characterization of land surface change for the Conterminous US, *NASA LCLUC Spring Science Team Meeting*, Gaithersburg, MD, 03/03/2018-03/05/2018 (talk)
32. Toward near real-time monitoring and characterization of land surface change for the Conterminous US, *Landsat Science Team Meeting*, Sioux Falls, SD, 02/20/2018-02/23/2018 (talk)
31. Large-area annual land cover maps derived from Landsat analysis ready data, *Pecora20*, Sioux Falls, SD, 11/13/2017-11/16/2017 (talk)
30. Optimizing selection of training and auxiliary data for operational land cover classification of the LCMAP initiative, *AAG*, Boston, MA, 04/05/2017 (talk)

29. Change agent classification based on all available Landsat data, *Landsat Science Team Meeting*, Boston University, Boston, MA, 01/11/2017 (talk)
28. Land change monitoring, *Landsat Science Team Meeting*, Brookings, SD, 07/28/2016 (talk)
27. Progress of the LCMAP initiative: From algorithms to products, *EROS Seminar*, USGS, Sioux Falls, SD, 07/20/2016 (talk)
26. The use of all available Landsat data for land cover monitoring, *AAG*, San Francisco, CA, 03/29/2016 (talk)
25. From CCDC to LCMAP: The “magic” of using all available Landsat data, *Wetland and Aquatic Research Center*, Lafayette, LA, 03/09/2016 (talk)
24. The “magic” of using all available Landsat data: detecting land cover change from Guangzhou to global scale, *South China Normal University*, Guangzhou, China, 12/25/2015 (talk)
23. CCDC and LCMAP: The use of all available Landsat data, *University of Electronic Science and Technology of China*, Chengdu, China, 12/15/2015 (talk)
22. From CCDC to LCMAP: The “magic” of using all available Landsat data, *National Geomatics Center of China*, Beijing, China, 12/9/2015 – 12/10/2015 (talk)
21. From CCDC to LCMAP: The “magic” of using all available Landsat data, *GSE Seminars*, South Dakota State University, Brookings, South Dakota, 10/09/2015 (talk)
20. From CCDC to LCMAP: The “magic” of using all available Landsat data, *University of Electronic Science and Technology of China*, Chengdu, China, 07/22/2015-07/23/2015 (talk)
19. From CCDC to LCMAP, *Landsat Science Team Meeting*, *EROS*, *USGS*, Sioux Falls, SD, 07/07/2015-07/09/2015 (talk)
18. From CCDC to LCMAP: The “magic” of using all available Landsat data, *EROS Seminar*, *USGS*, Sioux Falls, SD, 06/09/2015 (talk)
17. Monitoring land cover in near real-time: the era of big data, *Clark University*, Boston, MA, 04/09/2015 (talk)
16. Landscape Change Monitoring System (LCMS) and Carbon Monitoring System (CMS) joint meeting, *LCMS & CMS*, Ogden, UT, 12/03/2014-12/04/2014 (discussion)
15. Development of a land change monitoring system: CCDC modeling and plans for system integration and applications, *Land Carbon*, Reston, VA, 10/22/2014-10/23/2014 (talk)
14. Ensemble integration of forest disturbance maps for the Landscape Change Monitoring System (LCMS), *AGU Fall Meeting*, San Francisco, CA, 12/03/2014-12/07/2014 (poster)
13. Exploring metrics for assessing composite and synthetic Landsat images, *Landsat Science Team Meeting*, Corvallis, OR, USA, 22/07/2014-24/07/2014 (talk)
12. Quantifying ecosystem carbon losses and gains following development in New England: A combined field, modeling, and remote sensing approach, *AGU Fall Meeting*, San Francisco, CA, 12/03/2013-12/07/2013 (poster)
11. Monitoring land cover through big data: finding buried treasure in Landsat data, *LCLUC Spring Science Team Meeting*, Rockville, MD, 04/23/2014-04/25/2014 (poster)

10. Continuous change detection and classification of land cover using all available Landsat data, *MultiTemp 2013*, Banff, Alberta, Canada, 06/25/2013-06/27/2013 (talk)
9. Continuous change detection and classification of land cover using all available Landsat data, *Clark University*, Boston, MA, 04/26/2013 (talk)
8. Continuous change detection and classification of land cover using all available Landsat data, *AGU Fall Meeting*, San Francisco, CA, 12/03/2012-12/07/2012 (talk)
7. Monitoring interannual variation in deciduous broadleaf forest phenology using Landsat, *AGU Fall Meeting*, San Francisco, CA, 12/03/2012-12/07/2012 (poster)
6. Continuous monitoring of forest disturbance using all available Landsat imagery, *GOF-C-GOLD Meeting*, Boston, MA, USA, 01/09/2012-01/12/2012 (talk)
5. LEDAPS atmospheric correction for thin cloud or heavy aerosols - a case study over New England, *Landsat Science Team Meeting*, Boston, MA, USA, 11/01/2010-11/03/2010 (talk)
4. Comparison of cloud and cloud shadow algorithms, *Landsat Science Team Meeting*, Boston, MA, USA, 11/01/2010-11/03/2010 (talk)
3. Cloud and cloud shadow detection in Landsat imagery - Fmask 1.6v algorithm, *Landsat Science Team Meeting*, Boston, MA, USA, 11/01/2010-11/03/2010 (talk)
2. Automated cloud and cloud shadow screening in Landsat imageries based on time series analysis, *Landsat Science Team Meeting*, Boston, MA, USA, 10/27/2009-10/29/2009 (talk)
1. Object-based cloud and cloud shadow detection, *The 17th William T. Pecora Memorial Remote Sensing Symposium*, Denver, CO, USA, 11/16/2008-11/20/2008 (talk)