

Posters

Advancing the Use of Remote Sensing to Understand our Changing Earth

WorldView-3 SWIR Landuse-Landcover Mineral Classification: Cuprite, Nevada Kathleen E. Johnson, *DigitalGlobe, Inc* K. Koperski

Google Earth Engine for Eigenspace Spectral and Temporal Transforms of Landsat 8 and Sentinel-2 Data Sets

Lance D. Yarbrough, The University of Mississippi Greg Easson and Eleanor Dietz

Validation of the Operational SNPP VIIRS GVF Product using High Resolution Google Earth images

Zhangyan Jiang, IMSG at NOAA/NESDIS/STAR

Development of a Semi-automated Process to Map Agriculture in the Upper Rio Grande Basin During the 2015 Growing Season using Spectral Grouping

Victoria G. Stengel, USGS Texas Water Science Center Diana E. Pedraza

Evaluation of SMAP at Forested Sites Across a Rainfall Gradient in Northern Minnesota

Greg Liknes, Bemidji State University William Sea

Requirements, Capabilities and Analysis for Earth Observations (RCA-EO) Greg Stensaas, U.S. Geological Survey

Snow Cover Seasonality, Trends, and Change Analysis for Kyrgyzstan using MODIS: 2000-2016

Monika A. Tomaszewska, Geospatial Sciences Center of Excellence, South Dakota State University

Kamilya Kelgenbaeva and Geoffrey M. Henebry

AmericaView

Update on the Iowa Best Management Practice Inventory, Applications and Associated Datasets

Robin McNeely, IowaView - Iowa State University

Modeling the Effects of Environmental Change on Crucial Wildlife Habitat

Kenneth G. Boykin, New MexicoView/New Mexico State University Eric Ariel L. Salas, Virginia A. Seamster, Nicole M. Harings, and Keith W. Dixon

Using Remote Sensing Data to Improve Geographic Assessments of UV-B Radiation and its Climatology from a Sparse Ground Monitoring Network

Michael Coughenour, UV-B Monitoring and Research Program, Colorado State University

Aligning Earth Observation Technologies with Next Generation Science Standards

Chandi Witharana, Deptartment of Natural Resources and the Environment, ConnecticutView, University of Connecticut James Hurd

South Dakota LiDAR Factsheet

Mary O'Neill, South Dakota State University/AmericaView

RealEarth: Visualize Your Data

Sam Batzli, WisconsinView

New Methods for Integrating Remote Sensing Imagery and Modeled Inundation Libraries for Rapid Flood Mapping

Kevin Dobbs, AmericaView/KansasView

Mapathon—A Volunteer Geographic Information Mapping for Humanitarian Relief Pia van Benthem, University of California Davis



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Applications of Remote Sensing for Improving Decision-making

High Density LiDAR Acquisition for Forest Resource Assessment, Applications and Initial Results from a Study in Northern Minnesota

Scott Hillard, Minnesota DNR, Resource Assessment Program Dennis Kepler

Unsupervised Classification of Earth Surface for Landslide Detection

Caitlin Tran, California State Polytechnic University, Pomona Jessica Fayne, Omar Mora, and Joy Sellman

All Quiet on the Northern Front: Remote Sensing Based Retrospection of Human Wellbeing in the Armed-Conflicted Areas of Sri Lanka

Chandi Witharana, University of Connecticut

Utilizing Sentinel-2 Satellite Imagery for Precision Agriculture over Potato Fields In Lebanon

Hanan Abou Ali, Department of Geosciences, Idaho State University Donna M. Delparte and L. Michael Griffel

Applied Remote Sensing as a Means to Assess Brush Control in Western Rangelands Chandra Holifield Collins, USDA-ARS Southwest Watershed Research Center Susan Skirvin, Mark Kautz, and Loretta Metz

Global SSEBop Evapotranspiration for Drought Monitoring Purposes Stefanie Kagone, *SGT Inc.*

Expedited Start of Growing Season Estimates Assist Rapid Prediction of Invasive Cheatgrass in the Great Basin

Bruce B. Worstell, Stinger Ghaffarian Technologies (SGT, Inc.), Contractor to the U.S. Geological Survey (USGS) Earth Resources Observation and Science (EROS) Stephen Boyte, Danny Howard, Jesslyn Brown, Bruce Wylie, and Devendra Dahal

Applying Object-based Image Analysis to the Search for World War II Era Unexploded Bombs Using High-Resolution Multi-temporal and Multi-source Data

Cynthia A. Miller, Minnesota State University, Mankato Bryan P. Byholm, Anna K. Brand, and Fei Yuan

Selection of Ratings & Weightages for Preparation of Landslide Susceptibility Zonation (LSZ)

Sharad Kumar Gupta, Indian Institute of Technology, Mandi Dericks Praise Shukla

Genetic Algorithm Based Stereo Image Correspondence Using Multi-objective Fitness Function For Remotely Sensed Images

Manimala Mahato, *Indian Institute of Technology* Shirish S. Gedam, Jyoti Joglekar, and B. Krishna Mohan

Assessing Sustainable Urban Rooftop Designs through the usage of Small Unmanned Aerial Systems and Satellite Imagery: A case study in Auburn, Alabama

Chandana Mitra, Auburn University
Austin Bush and Seth Greer

Assimilation of Earth Observations into Land Surface Dynamic Models General Circulation Models and other Earth System Models

Development of Global Gridded Vegetation Products From S-NPP VIIRS for NCEP Environmental Modeling Systems

Jingfeng Huang, NOAA NESDIS STAR / IMSG Mingshi Chen, Zhangyan Jiang, Min Li, Tomoaki Miura, Marco Vargas, and Ivan Csiszar

Challenges and Innovations in Big Data Analysis for Solving Complex Largescale Problems

Tutorials and Services for Working with Multiple Land Remote Sensing Data Products

Cole Krehbiel, Innovate!, Inc., Contractor to the U.S.Geological Survey (USGS) Aaron Friesz, Tom Maiersperger, Lindsey Harriman, William (Cory) Alden, and Chris Doescher

Using Google Earth Engine to Map Water Use and Availability
Mac Friedrichs, SGT, Inc., Contractor to the U.S. Geological Survey (USGS)

Big Data, Small Farms: Lessons Learned from Integrating Data Science Approaches with Remote Sensing of Smallholder and Urban Agriculture

Jessica L. McCarty, Miami University
Christoper S.R. Neigh, Mark L. Carroll, Margaret R. Wooten, Molly E. Brown, Glenn
M. Sullivan, Rahel Diro, Daniel E. Osgood, Markus Enenkel, and Bristol F. Powell



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Landsat and Sentinel-2: Comparisons Cross-calibrations and Synergies

Monitoring Chlorophyll-a of the Western Basin of Lake Erie with Sentinel-2A and Landsat 8 imagery

Anita Simic Milas, Bowling Green State University

Assessing Three Satellite-derived Burned Area Products and Combining with Medium Resolution Data for Characterizing Peatland Fires

Yenni Vetrita, South Dakota State University, Indonesian National Institute of Aeronautics and Space (LAPAN)

Mark A. Cochrane, Suwarsono Suwarsono, Any Zubaidah, and Erianto I. Putra

New initiatives for Monitoring and Projecting Land and Water Cover Use And Change

Identifying Forest Conversion Hotspots in the Commonwealth of Virginia Through the Use of Landsat and Known Change Indicators

Matthew N. House, Virginia Tech Randolph H. Wynne

Assessing Land Cover Change During Drought Period in a Coastal Area of Binh Thuan province, Vietnam Using High Resolution Imagery

James B. Campbell, Virginia Tech Hoa Tran and Randolph H. Wynne

Developing Unbiased Global Et Dataset using an Automated Bias Correction Approach

Naga Manohar Velpuri, ASRC InuTeq, Contractor to USGS EROS Gabriel Senay, Stefanie Kagone, and MacKenzie Friedrichs

Gross Primary Productivity and Seasonal Distribution of Alpine Wetlands from 2001 to 2016 in the Gunnison River Basin, CO

Sami Chen, Stanford University Kate Maher

Land Surface Phenologies and Seasonalities of Croplands and Grasslands in the Prairie Pothole Region Using Passive Microwave Data 2003-2015

Woubet G. Alemu, South Dakota State University Geoffrey M. Henebry

The Land Product Characterization System: A Tool for Comparative Analysis of Satellite Data and Products

Kevin Gallo, NOAA

Methods for Converting Continuous Shrubland Ecosystem Component Values to Thematic National Land Cover Database Classes

Leila Gass, U.S. Geological Survey Matthew Rigge, Collin Homer, and George Xian

Estimating Percent Tree Canopy Cover Using Landsat Time-Series

Jill M. Derwin, Department of Forest Resources and Environmental Conservation, Virginia Tec

Valerie Thomas, Randolph Wynne, Evan B. Brooks, Christine E. Blinn, Greg Liknes, John Coulston, Mark Finco, Kevin Megown, Gretchen Moisen, Chris Toney, Robert Benton, K. Schelleweis, and Bonnie Ruefenacht

Changes In Land Use and Consumptive Water Use in Central California

Martha Anderson, USDA-ARS

Kyle Knipper, Wayne Dulaney, Joe Alfieri, Bill Kustas, Yun Yang, Dennis Baldocchi, Feng Gao, and Chris Hain

Mapping Evapotranspiration for Historical (1984-2015) Water Use and Availability in the Upper Rio Grande River Basin using the Landsat Archive

Matt Schauer, Innovate!,Inc - Earth Resources and Observation Science (EROS) Center (U.S. Geological Survey)

Mapping Evapotranspiration for Historical (1984-2015) Water use and availability in the Upper Rio Grande River Basin using the Landsat Archive

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2016 Tree Canopy Cover for the National Land Cover Database: Production Data, Methods, Uses, and a Tour through American Landscapes

Stacie Bender, USFS Geospatial Technology and Applications Center Wendy Goetz, Mark Finco, Bonnie Ruefenacht, Greg Liknes, and Kevin Megown