FRIDAY, 16 DECEMBER

A51A - Advances of Atmospheric Remote Sensing Inversion I Online Poster Discussion

Oleg Dubovik, University of Lille 1, Villeneuve d'Ascq, France, Feng Xu, University of Oklahoma, School of Meteorology, Norman, OK, Reed Espinosa, University of Maryland Baltimore County, Physics, Baltimore, MD and Meng Gao, SSAI, NASA Goddard Space Flight Center, Greenbelt, MD

- Friday, 16 December 2022
- 08:00 09:00
- Online Only

A52I-1075 - An Correlation-based Inversion Method for Aerosol Remote Sensing and Test Using AERONET and POLDER Measurements Taozhong Huang¹, Feng Xu², Jens Redemann³, Lan Gao³, Meng Gao⁴ and Oleg Dubovik⁵, (1)The University of Oklahoma, School of Meteorology, Norman, OK, (2)University of Oklahoma, School of Meteorology, Norman, OK, (3)University of Oklahoma, School of Meteorology, Norman, OK, (4)SSAI, NASA Goddard Space Flight Center, Greenbelt, MD (5)Laboratoire d'Optique Atmosphérique, CNRS/University of Lille, Lille, France

- Friday, 16 December 2022
- 09:00 12:30
- McCormick Place Poster Hall, Hall A (South, Level 3)

A52I-1076Multi-Angle Imager for Aerosols (MAIA) Level-2 Aerosol Inversion Algorithm Testing Using AirMSPI and POLDER Measurements

Benting Chen¹, Feng Xu², Olga V. Kalashnikova³, David J Diner³, James McDuffie⁴ and Oleg Dubovik⁵, (1)University of Oklahoma, Norman, OK, (2)University of Oklahoma, School of Meteorology, Norman, OK, (3)Jet Propulsion Laboratory, California Institute of Technology, Pasadena, CA, (4)NASA Jet Propulsion Laboratory, Pasadena, CA, (5)Laboratoire d'Optique Atmosphérique, CNRS/University of Lille, LIlle, France

- Friday, 16 December 2022
- 09:00 12:30
- McCormick Place Poster Hall, Hall A (South, Level 3)

A52I-1077A Markov chain model for polarized radiative transfer in the thermal infrared and application in dust particle inversion

Feng Xu¹, Reed Espinosa², Benting Chen³, Olga V. Kalashnikova⁴, Lan Gao⁵, Michael J Garay⁶, Jens Redemann⁵, Oleg Dubovik⁷ and Zhao-Cheng Zeng⁸, (1)University of Oklahoma Norman Campus, School of Meteorology, Norman, OK, (2)Joint Center for Earth Systems Technology, UMBC, Baltimore, MD, (3)University of Oklahoma, Norman, OK, (4)Jet Propulsion Laboratory, California Institute of Technology, Pasadena, CA, (5)University of Oklahoma, School of Meteorology, Norman, OK, (6)Jet Propulsion Laboratory, California Institute of Technology, Pasadena, CA, (7)Laboratoire d'Optique Atmosphérique, CNRS/University of Lille, LIlle, France, (8)Jet Propulsion Laboratory, Pasadena, CA

- Friday, 16 December 2022
- 09:00 12:30
- McCormick Place Poster Hall, Hall A (South, Level 3)

A52I-1082Grand challenges in satellite remote sensing

Oleg Dubovik, Laboratoire d'Optique Atmosphérique, CNRS/University of Lille, Lille, France, Gregory L Schuster, NASA Langley Research Center, Hampton, VA, Feng Xu, University of Oklahoma, School of Meteorology, Norman, OK, Yongxiang Hu, NASA Langley Research Center, Hampton, VA, Hartmut Boech, University of Leicester, Leicester, United Kingdom, Jochen Landgraf, SRON Netherlands Institute for Space Research, Utrecht, Netherlands and Zhengqiang Li, Aerospace Information Research Institute, Chinese Academy of Sciences, Beijing, China

- Friday, 16 December 2022
- 09:00 12:30
- McCormick Place Poster Hall, Hall A (South, Level 3)

<u>B52D-0870Incorporation of Microbial Communities into Reactive Transport Modeling of Nitrogen in Subsurface</u> Systems under Rainfall Perturbations

Jinwoo Im¹, Andrew Putt², Kathleen F Walker², James Marquis³, Lauren M Lui¹, Alex Carr⁴, Yupeng Fan⁵, Jennifer Goff⁶, Kristopher Hunt², Jonathan Michael⁵, Farris Poole⁶, Yajiao Wang⁵, Michael Adams⁶, Nitin S. Baliga⁴, David Stahl², Jizhong Zhou⁵, Matthew W. Fields³, Terry Hazen², Adam P Arkin¹,¹¹⁰ and Michelle E Newcomer¹¹, (1)Lawrence Berkeley National Laboratory, Berkeley, CA, (2)University of Tennessee, Knoxville, TN, (3)Montana State University, Bozeman, MT, (4)Institute for Systems Biology, Seattle, WA, (5)University of Oklahoma, Norman, OK, (6)University of Georgia, Athens, GA, (7)University of Washington, Seattle, WA, (8)University of Georgia, Athens, GA, (9)Oak Ridge National Lab, Oak Ridge, TN, (10)University of California, Berkeley, CA, (11)Lawrence Berkeley National Laboratory, Berkeley, CA

- Friday, 16 December 2022
- 09:00 12:30
- McCormick Place Poster Hall, Hall A (South, Level 3)

B52G-0894Patterns and drivers of recent disturbance in tropical forest reserves of Southwestern Ghana

Dan Wanyama, University of Oklahoma Norman Campus, Geography and Environmental Sustainability, Norman, OK, Michael C Wimberly, University of Oklahoma Norman Campus, Norman, OK, and Foster Kwame Mensah, Center for Remote Sensing and Geographic Information Services (CERSGIS), University of Ghana, Legon, Accra, Ghana

- Friday, 16 December 2022
- 09:00 12:30
- McCormick Place Poster Hall, Hall A (South, Level)

<u>B52G-0899 - Large Loss and Rapid Recovery of Vegetation Cover and Aboveground Biomass Over Forest Areas in</u> Australia during 2019-2020

Yuanwei Qin, University of Oklahoma Norman Campus, Norman, OK, Xiangming Xiao, Department of Microbiology and Plant Biology, Center for Spatial Analysis, University of Oklahoma, Norman, OK, Wigneron Jean-Pierre, ISPA, UMR 1391, INRA Nouvelle-Aquitaine, Villenave-d'Ornon, France, Philippe Ciais, Laboratoire des Sciences du Climat et de l'Environnement, Gif-Sur-Yvette, France, Josep Gili Canadell, CSIRO Oceans and Atmosphere, Canberra, Australia, Martin Brandt, University of Copenhagen, Department of Geosciences and Natural Resource Management, København K, Denmark, Xiaojun Li, Inrae, Bordeaux, France, Lei Fan, Southwest University, Chongqing, China, Xiaocui Wu, University of Illinois, Urbana-Champaign, IL, Hao Tang, National University of Singapore, Geography, Singapore, Singapore, Ralph Dubayah, Univ Maryland, College Park, MD, Russell Doughty, California Institute of Technology, Pasadena, CA, Sean Crowell, University of Oklahoma, Norman, OK, Bo Zheng, Tsinghua Shenzhen International Graduate School, Shenzhen, China and Berrien Moore III, University of Oklahoma, School of Meteorology, Norman, OK

- Friday, 16 December 2022
- 09:00 12:30
- McCormick Place Poster Hall, Hall A (South, Level 3)

GC52H - Global Changing Environment and Human Well-being: Impact, Policy, and Scientific Challenges I Poster Mengye Chen, University of Oklahoma Norman Campus, School of Civil Engineering and Environmental Science (CEES), Norman, OK, Ghassem Asrar, Universities Space Research Association, Columbia, NY, Yuyu Zhou, Iowa State University, Dept. of Geological & Atmospheric Sciences, Ames, IA, Min Chen, Pacific Northwest National Laboratory, Joint Global Change Research Institute, Richland, WA; University of Wisconsin Madison, Forest and Wildlife Ecology, Madison, WI, Jiaqi Zhang, University of Texas at Arlington, Civil Engineering, Arlington, TX, Shang Gao, University of Oklahoma, School of Civil Engineering and Environmental Science, Norman, OK, Mani Rouhi Rad, Texas A&M University College Station, Department of Agricultural Economics, College Station, TX, Chiyu Niu, The World Bank Group, Poverty and Equity Global Practice, Washington, DC, Yongjie Huang, School of Meteorology, University of Oklahoma, Norman, OK, and Amir Sapkota, University of Maryland College Park, School of Public Health, College Park, MD

- Friday, 16 December 2022
- 09:00 12:30
- McCormick Place Poster Hall, Hall A (South, Level 3)

H52H-0554The influence of magnetic minerals on induced polarization measurements in sedimentary rocks

Klaudio Peshtani, Rutgers University Newark, Earth & Environmental Sciences, Newark, NJ, Andreas Weller, Technische Universität Clausthal, Claustal, Germany, Sina Saneiyan, University of Oklahoma, School of Geosciences, Norman, OK, and Lee D Slater, Rutgers University, Earth & Environmental Sciences, Newark, NJ

- Friday, 16 December 2022
- 09:00 12:30
- McCormick Place Poster Hall, Hall A (South, Level 3)

<u>GH52A-02Spatiotemporal estimates of surface PM_{2.5} concentrations in the western U.S. using NASA MODIS and VIIRS retrievals and data assimilation techniques</u>

Sandra Marcela Loria Salazar, University of Oklahoma, School of Meteorology, Norman, OK, Jeffrey Lee, University of Oklahoma, School of Meteorology, Norman, OK, Cesunica Ivey, University of California Berkeley, Civil and Environmental Engineering, Berkeley, CA, Heather Holmes, University of Utah, Department of Chemical Engineering, Salt Lake City, UT, and Howard H. Chang, Emory University, Department of Biostatistics and Bioinformatics, Atlanta, GA

- Friday, 16 December 2022
- 09:15 09:25
- McCormick Place E253ab (Lakeside, Level 2)

GH52A-03Modeling spatiotemporal exposures of heat and wildfire smoke using atmospheric models and satellite remote sensing products

Heather Holmes¹, Kaiyu Chen¹, Jingting Huang¹, Sam Faulstich¹, Jacob Boomsma², Jeffrey Lee³, Marcela Loría-Salazar³, Lyndsey Darrow⁴ and Matthew Strickland⁴, (1)University of Utah, Department of Chemical Engineering, Salt Lake City, UT, (2)University of Utah, Department of Atmospheric Sciences, Salt Lake City, UT, (3)University of Oklahoma, School of Meteorology, Norman, OK, (4)University of Nevada Reno, School of Public Health, Reno, NV

- Friday, 16 December 2022
- 09:25 09:35
- McCormick Place E253ab (Lakeside, Level 2)

B52A-05Omics-enabled modeling of grassland microbial communities feedback to climate change Jizhong Zhou¹, Siyang Jian², Zhifeng Yang², Gangsheng Wang², Xue Guo³, Qun Gao³, Zheng Shi⁴ and Daliang Ning², (1)University of Oklahoma, Norman, OK, (2)University of Oklahoma, Institute for Environmental Genomics, Department of Microbiology and Plant Biology, Norman, OK, (3)Tsinghua University, School of Environment, Beijing, China, (4)University of Oklahoma, Institute for Environmental Genomics, Department of Microbiology and Plant Biology, Norman, OK

- Friday, 16 December 2022
- 09:40 09:50
- McCormick Place S501bcd (South, Level 5)

<u>A52B-08Characteristics of Precipitation and MCS over the Peruvian Central Andes based on Convection-Permitting Simulations</u>

Yongjie Huang¹, Ming Xue², Xiao-Ming Hu³, Elinor R Martin⁴, Hector Novoa⁵, Renee A McPherson⁶, Changhai Liu⁷, Kyoko Ikeda⁸, Roy Rasmussen⁸, Andres Vitaliano Perez Pachari⁵ and Isaac Yanqui Morales⁵, (1)University of Oklahoma Norman Campus, Center for Analysis and Prediction of Storms (CAPS), Norman, OK, (2)Univ Oklahoma, Norman, OK, (3)University of Oklahoma Norman Campus, Center for Analysis and Prediction of Storms, Norman, OK, (4)University of Oklahoma, School of Meteorology, Norman, OK, (5)Universidad Nacional de San Agustín de Arequipa, Arequipa, Peru, (6)University of Oklahoma, Norman, OK, (7)National Center for Atmospheric Research, Boulder, CO, (8)NCAR/RAL, Boulder, CO

- Friday, 16 December 2022
- 10:10 10:20
- McCormick Place E270 (Lakeside, Level 2)

NS53A - Near-Surface Geophysics for Characterizing and Monitoring Natural Hazards III Oral

Sebastian Uhlemann, Lawrence Berkeley National Laboratory, Berkeley, CA, Sina Saneiyan, University of Oklahoma, School of Geosciences, Norman, OK, Angela Perrone, CNR Institute of Methodologies for Environmental Analysis, Potenza, Italy and Xavier Comas, Florida Atlantic University, Geosciences, Boca Raton, FL

- Friday, 16 December 2022
- 11:00 12:30
- McCormick Place S104b (South, Level 1)

A53C-02Cloud Top Phase Characterization of Extratropical Cyclones over the Midwest and Northeast United States: Results from IMPACTS

Troy Zaremba, University of Illinois at Urbana Champaign, Atmospheric Sciences, Urbana, IL, Robert Rauber, University of Illinois at Urbana-Champaign, Department of Atmospheric Sciences, Urbana, John E Yorks, SSAI/NASA GSFC, Greenbelt, MD, Greg M McFarquhar, Cooperative Institute for Severe and High-Impact Weather Research and Operations, University of Oklahoma, Norman, OK, Stephen D Nicholls, SSAI, Greenbelt, MD and Lynn A. McMurdie, University of Washington, Seattle, WA

- Friday, 16 December 2022
- 11:10 11:20
- McCormick Place E350 (Lakeside, Level 3)

NH53A-02Global Projections of Flash Drought in a Warming Climate

Jordan I Christian¹, Elinor R Martin¹, Jeffrey B Basara² and Jason C Furtado³, (1)University of Oklahoma, School of Meteorology, Norman, OK, (2)University of Oklahoma, School of Meteorology; School of Civil Engineering and Environmental Science, Norman, OK, (3)University of Oklahoma, School of Meterology, Norman, OK

- Friday, 16 December 2022
- 11:15 11:25
- McCormick Place E253cd (Lakeside, Level 2)

MR53A-04Geodetic and Microseismic Signatures of Crustal Faulting Following Large Earthquakes

Junle Jiang, University of Oklahoma Norman Campus, School of Geosciences, Norman, OK

- Friday, 16 December 2022
- 11:32 11:42
- McCormick Place S105a (South, Level 1)

<u>B54A-02 - High Spatial Resolution Modeling of Gross Primary Production over Sugarcane Plantations</u>

Jorge Andres Celis, University of Oklahoma Norman Campus, Norman, OK, Xiangming Xiao, Department of Microbiology and Plant Biology, Center for Spatial Analysis, University of Oklahoma, Norman, OK, Paul White, USDA ARS, Houma, LA, and Osvaldo Cabral, Embrapa Meio Ambiente, Jaguariuna, Brazil

- Friday, 16 December 2022
- 13:55 14:05
- Online Only

A54A-03Comparison of MISR's and MAIA's Observing Strategies for Mapping Speciated Particulate Matter Air Pollution

David J Diner¹, Stacey W Boland², Carol J Bruegge³, Kevin A Burke³, Sina Hasheminassab⁴, Veljko M Jovanovic³, Yang Liu⁵, Alexei Lyapustin⁶, Saagar Patel⁴, Gerard van Harten⁴, Feng Xu⁷ and The MAIA Team, (1)NASA Jet Propulsion Laboratory, Pasadena, CA, (2)Jet Propulsion Laboratory, Pasadena, CA, (3)Jet Propulsion Laboratory, California Institute of Technology, Pasadena, CA, (4)NASA Jet Propulsion Laboratory, Pasadena, CA, (5)Emory University, Gangarosa Department of Environmental Health, Atlanta, GA, (6)NASA Goddard Space Flight Center, Greenbelt, MD, (7)University of Oklahoma, School of Meteorology, Norman, OK

- Friday, 16 December 2022
- 14:05 14:15
- Online Only

A55B - Advances of Atmospheric Remote Sensing Inversion III Oral

Oleg Dubovik, University of Lille 1, Villeneuve d'Ascq, France and Feng Xu, University of Oklahoma, School of Meteorology, Norman, OK

- Friday, 16 December 2022
- 14:45 16:15
- McCormick Place E271ab (Lakeside, Level 2)

A55L-1266Factors Affecting Precipitation over Western Puerto Rico during the NASA 2021 CPEX-AW Project Kevin Martinez Lopez, University of Puerto Rico Mayaguez, Geology, Mayaguez, Puerto Rico, Naoko Sakaeda, University of Oklahoma Norman Campus, School of Meteorology, Norman, OK, Shun-Nan Wu, University of Oklahoma, Norman, OK, and Elinor R Martin, University of Oklahoma, School of Meteorology, Norman, OK

- Friday, 16 December 2022
- 14:45 18:15
- McCormick Place Poster Hall, Hall A (South, Level 3)

A55Q-1347Ground-Validation and Error Attribution of Near-Surface Air Temperature from AIRS in North America Yixin Wen¹, Shang Gao², Evan Fishbein³, Bjorn Lambrigtsen⁴, Chris Galli⁵ and Hong Van T Dang³, (1)University of Florida, Geography, Ft Walton Beach, FL, (2)University of Oklahoma, Civil Engineering and Environmental Science, Norman, OK, (3)JPL, Pasadena, CA (4)Jet Propulsion Lab, Pasadena, CA, (5)Synopticdata.com, Salt Lake City, UT

- Friday, 16 December 2022
- 14:45 18:15
- McCormick Place Poster Hall, Hall A (South, Level 3)

<u>H55L-0728Building the Aquatic Intermittency effects on Microbiomes in Streams (AIMS) network to enable understanding of how intermittent flow impacts water quality and stream microbiomes</u>

Amy J Burgin¹, Daniel C Allen², Connor Brown³, Stephen C. Cook⁴, Sarah Flynn⁵, Brett Nave⁶, Erin C Seybold⁷, Logan Swenson³, Christopher Wheeler⁸, Jessica Wilhelm³, Lydia Zeglin⁹, Kaci Zarek⁵, Sam C Zipper⁷, Aquatic Intermittency effects on Microbiomes in Streams (AIMS) Team, (1)University of Kansas, Kansas Biological Survey, Lawrence, KS, (2)University of Oklahoma Norman Campus, Biology, Norman, OK, (3)University of Kansas, Lawrence, KS, (4)University of Oklahoma Norman Campus, Norman, OK, (5)University of Kansas, Lawrence, KS, (6)Kansas State University, Division of Biology, Manhattan, KS, (7)University of Kansas, Kansas Geological Survey, Lawrence, KS, (8)Georgia State University, Atlanta, GA, (9)Kansas State University, Division of Biology, Manhattan, KS

- Friday, 16 December 2022
- 14:45 18:15
- McCormick Place Poster Hall, Hall A (South, Level 3)

GC55G-0302Abrupt Flash Drought: Investigating Flash Drought Occurrence over Vital Agricultural Regions Benjamin Fellman, University of Oklahoma, Norman, OK, Mari R Tye, National Center for Atmospheric Research, Boulder, CO, Jordan I Christian, University of Oklahoma, School of Meteorology, Norman, OK, and Jeffrey B Basara, University of Oklahoma, School of Meteorology; School of Civil Engineering and Environmental Science, Norman, OK

- Friday, 16 December 2022
- 14:45 18:15
- McCormick Place Poster Hall, Hall A (South, Level 3)

GC55G-0304Comparison of Inter-Seasonal Land Surface-Atmospheric Drivers of Flash Drought Over Europe. Daniel Mesheske, University of Oklahoma Norman Campus, Civil Engineering and Environmental Science, Norman, OK, Jordan I Christian, University of Oklahoma, School of Meteorology, Norman, OK, and Jeffrey B Basara, University of Oklahoma, School of Meteorology; School of Civil Engineering and Environmental Science, Norman, OK

- Friday, 16 December 2022
- 14:45 18:15
- McCormick Place Poster Hall, Hall A (South, Level 3)

A55F-04Role of Tropopause Polar Vortices in Modulating Arctic Cyclone Climatology

Rupsa Bhowmick¹, Darin Scott Comeau¹, John J Cassano², Elizabeth Cassano³, Steven M Cavallo⁴ and Wilbert Weijer¹, (1)Los Alamos National Laboratory, Los Alamos, NM, (2)Univ Colorado, Boulder, CO, (3)Cooperative Institute for Research in Environmental Sciences, Boulder, CO, (4)University of Oklahoma Norman Campus, Norman, OK

- Friday, 16 December 2022
- 15:15 15:25
- McCormick Place E450a (Lakeside, Level 4)

GC55A-06Soil Moisture Roles and PBL Development During Flash Drought

Jeffrey B Basara, University of Oklahoma Norman Campus, Norman, OK; University of Oklahoma, School of Meteorology; School of Civil Engineering and Environmental Science, Norman, OK, Ryann Wakefield, Verisk, Boston, MA, Joseph A Santanello Jr, Hydrological Sciences Laboratory, NASA/GSFC, Greenbelt, MD, Jordan I Christian, University of Oklahoma, School of Meteorology, Norman, OK, Patricia Lawston Parker, NASA GSFC, Hydrological Science Laboratory, Greenbelt, MD, and Jinwoong Yoo, University of Maryland College Park, College Park, MD

- Friday, 16 December 2022
- 15:42 15:53
- McCormick Place S502ab (South, Level 4)

B55B-08Satellite constrained spatial distribution of dominant climatic drivers of the tropical carbon inter-annual variations

Shuang Ma¹, A. Anthony Bloom¹, Alexander Norton¹, Paul Alexander Levine¹, Russell Doughty², Renato Kerches Braghiere¹ and Junjie Liu¹, (1)Jet Propulsion Laboratory, California Institute of Technology, Pasadena, CA, (2)University of Oklahoma, GeoCarb Mission and the College of Atmospheric and Geographic Sciences, Norman, OK

- Friday, 16 December 2022
- 15:55 16:05
- *McCormick Place S501a (South, Level 5)*

A56A-01Synergistic Lidar and Polarimeter Aerosol Retrieval Performance Under Complex Conditions: Exploring the Costs of Imperfect Particle Shape Assumptions (Invited talk)

Reed Espinosa¹, Anin Puthukkudy², Greema Regmi³, Nirandi Jayasinghe⁴, Osku Kemppinen⁵, Oleg Dubovik⁶, Feng Xu⁷, Anton Lopatin⁸ and Pavel Lytvynov⁸, (1)NASA Goddard Space Flight Center, Greenbelt, MD, (2)University of Maryland Baltimore County, Department of Physics, Earth and Space Institute, GESTAR-II, Baltimore, MD, (3)University of Maryland Baltimore County, Baltimore, MD, (4)University of Maryland Baltimore County, Physics Department, Baltimore, MD, (5)NASA Goddard Space Flight Center, Greenbelt, MD, (6)Laboratoire d'Optique Atmosphérique, CNRS/University of Lille, Lille, France, (7)University of Oklahoma, School of Meteorology, Norman, OK, (8)GRASP SAS, Remote Sensing Developments, Lille, France

- Friday, 16 December 2022
- 16:45 17:00
- McCormick Place E271ab (Lakeside, Level 2)

GC56C - Global Changing Environment and Human Well-being: Impact, Policy, and Scientific Challenges III Oral Mengye Chen, University of Oklahoma Norman Campus, School of Civil Engineering and Environmental Science (CEES), Norman, OK, Ghassem Asrar, Universities Space Research Association, Columbia, WDC, Yuyu Zhou, Iowa State University, Dept. of Geological & Atmospheric Sciences, Ames, IA, Min Chen, Pacific Northwest National Laboratory, Joint Global Change Research Institute, Richland, WA, Jiaqi Zhang, University of Texas at Arlington, Civil Engineering, Arlington, TX, Mani Rouhi Rad, Texas A&M University College Station, Department of Agricultural Economics, College Station, TX and Shang Gao, University of Oklahoma, School of Civil Engineering and Environmental Science, Norman, OK

- Friday, 16 December 2022
- 16:45 18:15
- McCormick Place S503ab (South, Level 5)

A56A - Advances of Atmospheric Remote Sensing Inversion IV Oral Session

Oleg Dubovik, University of Lille 1, Villeneuve d'Ascq, France and Feng Xu, University of Oklahoma, School of Meteorology, Norman, OK

- Friday, 16 December 2022
- 16:45 18:15
- McCormick Place E271ab (Lakeside, Level 2)

H56B-02Divergent Floodplain Urbanization Patterns and Risks with Levee Effect

Meng Ding¹, Peirong Lin², Shang Gao³, Jida Wang¹, Zhenzhong Zeng⁴, Xiaogang He⁵, Xudong Zhou⁶, Dai Yamazaki⁶, Kaihao Zheng², Yu Liu² and Yige Gao⁷, (1)Kansas State University, Geography and Geospatial Sciences, Manhattan, KS, (2)Peking University, Institute of Remote Sensing and GIS, School of Earth and Space Sciences, Beijing, China, (3)University of Oklahoma, School of Civil Engineering and Environmental Science, Norman, OK, (4)Southern University of Science and Technology, Shenzhen, China, (5)National University of Singapore, Civil and Environmental Engineering, Singapore, Singapore, (6)The University of Tokyo, Institute of Industrial Science, Tokyo, Japan, (7)Gwinnett County Department of Water Resources, Atlanta, GA

- Friday, 16 December 2022
- 16:55 17:05
- McCormick Place E451a (Lakeside, Level 4)

A56A-02Solving Forward and Inverse Problems for Hyperspectral Satellite Remote Sensors using Principal Component Analysis

Xu Liu¹, Wan Wu¹, Qiguang Yang², Xiaozhen Xiong³, Ming Zhao⁴, Daniel K Zhou¹, Allen M Larar⁵, Robert J D Spurr⁶, Ping Yang³, Liqiao Lei³, Hyun-Sung Jang⁶, Yolanda Shea¹⁰, Snorre Stamnes¹, David R Thompson¹¹, Xiong Liu¹², Lihang Zhou¹³, Qing Yue¹¹ and Feng Xu¹⁴, (1)NASA Langley Research Center, Hampton, VA, (2)SSAI Inc, NASA Langley Research Center, Hampton, VA, (3)NOAA Science Center, National Environmental Satellite, Data, and Information Service, NOAA, Clarksville, MD, (4)SSAI, Inc., Hampton, VA, (5)NASA Langley Research Center, Hampton, VA, (6)Rt Solutions Inc., Cambridge, MA, (7)Texas A&M Univ, College Station, TX, (8)Science Systems and Applications, Inc., Hampton, VA, (9)NASA npp postdoc, Hampton, VA, (10)NASA, Hampton, VA, (11)Jet Propulsion Laboratory, California Institute of Technology, Pasadena, CA, (12)Center for Astrophysics | Harvard & Smithsonian, Cambridge, MA, (13)NOAA College Park, College Park, MD, (14)University of Oklahoma, School of Meteorology, Norman, OK

- Friday, 16 December 2022
- 17:00 17:10
- McCormick Place E271ab (Lakeside, Level 2)

MR56A-08 - Diffusivity based screening approach for seal integrity for underground gas storage.

Sidi Mamoudou¹, Judah Odiachi¹, Ali Tinni¹, Son Thai Dang², Carl H Sondergeld²and Chandra S Rai², (1)University of Oklahoma, Norman, OK, (2)University of Oklahoma Norman Campus, Norman, OK,

- Friday, 16 December 2022
- 17:57 18:07
- McCormick Place S104b (South, Level 1)