

Earth Observing Systems XXIII

Tuesday - Thursday 21 - 23 August 2018

Conference Sessions At A Glance

SHOW | HIDE

- 1: Prelaunch Calibration
- 2: New Instruments and Technologies
- 3: GOES-16 I
- 4: GOES-16 II
- 5: New Missions
- 6: AIRS
- 7: CERES
- Remote Sensing Plenary Session
- 8: On-Orbit, Vicarious, and Inter-Instrument Calibration
- 9: MODIS
- Poster Session
- 10: Data Analysis and Algorithms
- 11: VIIRS I
- 12: VIIRS II

Important Dates

SHOW | HIDE

Abstract Due:
7 February 2018

Author Notification:
16 April 2018

Manuscript Due Date:
25 July 2018

Conference Committee

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Conference Chairs

[James J. Butler](#), NASA Goddard Space Flight Ctr. (United States)
[Xiaoxiong \(Jack\) Xiong](#), NASA Goddard Space Flight Ctr. (United States)
 Xingfa Gu, Institute of Remote Sensing Applications (China)

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 (United States)
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[Joel McCorkel](#), NASA Goddard Space Flight Ctr. (United States)
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[Thomas S. Pagano](#), Jet Propulsion Lab. (United States)
[Jeffery J. Puschell](#), Raytheon Space & Airborne Systems (United States)
[Mark A. Schwarz](#), SAIC (United States)

TUESDAY 21 AUGUST

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Session 1: Prelaunch Calibration

Tuesday 21 August 2018
 8:00 AM - 10:00 AM
 Location: Conv. Ctr. Room 30E


Session Chair: [Christopher N. Durell](#), Labsphere, Inc. (United States)

Prelaunch characterization and performance of JPSS-2 VIIRS reflective solar bands

Paper 10764-1

Time: 8:00 AM - 8:20 AM

Author(s): Amit Angal, Science Systems and Applications, Inc. (United States); David Moyer, The Aerospace Corp. (United States); Qiang Ji, Jeffrey McIntire, Hassan Oudrari, Science Systems and Applications, Inc. (United States); Xiaoxiong Xiong, NASA Goddard Space Flight Ctr. (United States)


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JPSS-1 VIIRS solar diffuser witness sample BRF calibration using a table-top goniometer at NASA GSFC

Paper 10764-2

Time: 8:20 AM - 8:40 AM

Author(s): Jinan Zeng, James J. Butler, Xiaoxiong Xiong, Nathan Kelley, NASA Goddard Space Flight Ctr. (United States)

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Spectral testing of the Landsat-9 OLI-2 instrument using the Goddard Laser Absolute Measurement of Radiance (GLAMR)

Paper 10764-3

Time: 8:40 AM - 9:00 AM

Author(s): Julia A. Barsi, Science Systems and Applications, Inc. (United States), NASA Goddard Space Flight Ctr. (United States); Joel McCorkel, Brendan

McAndrew, NASA Goddard Space Flight Ctr. (United States); Barbara J. Zukowski, Ball Aerospace (United States), NASA Goddard Space Flight Ctr. (United States); Timothy M. Shuman, Fibertek, Inc. (United States); Shaída Johnston, The Aerospace Corp. (United States); Brian L. Markham, NASA Goddard Space Flight Ctr. (United States)


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Landsat 9 Thermal Infrared Sensor 2 pre-launch characterization: initial imaging and spectral performance results

Paper 10764-4

Time: 9:00 AM - 9:20 AM

Author(s): Aaron J. Pearlman, GeoThinkTank, LLC (United States); Joel McCorkel, NASA Goddard Space Flight Ctr. (United States); Matthew Montanaro, Rochester Institute of Technology (United States); Boryana Efremova, GeoThinkTank, LLC (United States); Brian Wenny, Science Systems and Applications, Inc. (United States); Allen Lunsford, The Catholic Univ. of America (United States); Amy Simon, Jason Hair, Dennis Reuter, NASA Goddard Space Flight Ctr. (United States)


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Characterizations of a KHz pulsed laser detection system

Paper 10764-5

Time: 9:20 AM - 9:40 AM

Author(s): Leibo Ding, Science and Systems Applications, Inc. (United States); James J. Butler, NASA Goddard Space Flight Ctr. (United States); Jinan Zeng, Fibertek, Inc. (United States); Elaine N. Lalanne, Fibertek, Inc. (United States); John W. Cooper, Science and Systems Applications, Inc. (United States)


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ECOSTRESS end-to-end radiometric pre-flight calibration and validation (Conference Presentation)

Paper 10764-6

Time: 9:40 AM - 10:00 AM

Author(s): William R. Johnson, Jet Propulsion Lab. (United States)

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Coffee Break 10:00 AM - 10:30 AM

Session 2: New Instruments and Technologies

Tuesday 21 August 2018

10:30 AM - 11:50 AM

Location: Conv. Ctr. Room 30E


Session Chair: [Bertrand Fougnie](#), EUMETSAT (Germany)

Electro-optical sensors for Earth observation missions

Paper 10764-7

Time: 10:30 AM - 10:50 AM

Author(s): Ian Swindells, David Morris, Teledyne e2v UK Ltd. (United Kingdom)


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Hawkeye radiometric calibration methodology

Paper 10764-11

Time: 10:50 AM - 11:10 AM

Author(s): Shihyan Lee, SAIC (United States); Alan Holmes, Cloudland Instruments, Inc (United States); Gerhard Meister, NASA Goddard Space Flight Center, Code 616 (United States); Frederick S. Patt, Science Systems and Applications, Inc. (United States), NASA Goddard Space Flight Ctr. (United States); Gene Feldman, NASA Goddard Space Flight Center (United States)


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UAV-based remote sensing for NaTech accidents management

Paper 10764-9

Time: 11:10 AM - 11:30 AM

Author(s): Alessandra Marino, Mariano M. Ciucci, Linda Barbieri Vita, INAIL (Italy); Chiara Piccirilli, Ordine degli Ingegneri della Provincia di Roma (Italy)


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Prism spectrometer analysis for field use

Paper 10764-10

Time: 11:30 AM - 11:50 AM

Author(s): Adam Abdelatif, Nikolaus Anderson, Oscar Hernandez, Jeffrey S. Czaplá-Myers, College of Optical Sciences, The Univ. of Arizona (United States)

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Lunch/Exhibition Break 11:50 AM - 1:40 PM

Session 3: GOES-16 I


Tuesday 21 August 2018
 1:40 PM - 3:00 PM
 Location: Conv. Ctr. Room 30E

Characterization of GOES-16 ABI detector-level uniformity from post-launch north south scan collections of several earth targets

Paper 10764-12

Time: 1:40 PM - 2:00 PM

Author(s): Jason T. Casey, Francis P. Padula, GeoThinkTank, LLC (United States); Monica Cook, GeoThinkTank LLC (United States); Brent D. Bartlett, Aaron J. Pearlman, GeoThinkTank, LLC (United States); David R. Pogorzala, Integrity Applications, Inc. (United States); Changyong Cao, National Environmental Satellite, Data, and Information Service (United States)

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In-orbit response versus scan-angle (RVS) validation for the GOES-16 ABI solar reflective bands

Paper 10764-13

Time: 2:00 PM - 2:20 PM

Author(s): Fangfang Yu, Xi Shao, ERT, Inc. (United States); Xiangqian Wu, National Oceanic and Atmospheric Administration (United States); Haifeng Qian, ERT, Inc. (United States)


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Validation of GOES-16 ABI infrared spatial response uniformity

Paper 10764-14

Time: 2:20 PM - 2:40 PM

Author(s): Fangfang Yu, ERT, Inc. (United States); Xiangqian Wu, National Oceanic and Atmospheric Administration (United States); Haifeng Qian, ERT, Inc. (United States); John Van Naarden, Michael Ramirez, Harris Corp. (United States); Dan Lindsey, National Oceanic and Atmospheric Administration (United States); Chad Gravelle, National Oceanic and Atmospheric Administration (United States); Mathew Gunshor, Univ. of Wisconsin-Madison (United States); Tim Schmit, National Oceanic and Atmospheric Administration (United States); Xi Shao, Zhipeng Wang, Hyeelim Yoo, Robert Iacovazzi, Vladimir Kondratovich, ERT, Inc. (United States)


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GOES-16 ABI navigation assessment

Paper 10764-15

Time: 2:40 PM - 3:00 PM

Author(s): Bin Tan, NASA Goddard Space Flight Ctr. (United States), Science Systems and Applications, Inc. (United States); John Dellomo, NASA Goddard Space Flight Ctr. (United States), Global Science & Technology, Inc (United States); Robert E. Wolfe, NASA Goddard Space Flight Ctr. (United States); Alan D. Reth, NASA Goddard Space Flight Ctr. (United States), Chesapeake Aerospace, LLC (United States)

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Coffee Break 3:00 PM - 3:30 PM

**Session 4:
GOES-16 II**


Tuesday 21 August 2018
 3:30 PM - 4:30 PM
 Location: Conv. Ctr. Room 30E

Independent validation of the advanced baseline imager (ABI) on NOAA's GOES-16: post-launch ABI airborne science field campaign results

Paper 10764-16

Time: 3:30 PM - 3:50 PM

Author(s): Brent D. Bartlett, Jason T. Casey, Francis P. Padula, Aaron J. Pearlman, GeoThinkTank, LLC (United States); David R. Pogorzala, Integrity Applications, Inc. (United States); Changyong Cao, National Environmental Satellite, Data, and Information Service (United States)


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Validation of GOES-16 ABI reflective solar band calibration through reanalysis and comparison with field campaign data

Paper 10764-17

Time: 3:50 PM - 4:10 PM

Author(s): Xi Shao, ERT, Inc. (United States); Xiangqian Wu, National Oceanic and Atmospheric Administration (United States); Changyong Cao, National Environmental Satellite, Data, and Information Service (United States); Sirish Uprety, Univ. of Maryland, College Park (United States); Fangfang Yu, Haifeng Qian, ERT, Inc. (United States); Francis P. Padula, Aaron J. Pearlman, GeoThinkTank, LLC (United States); Taeyoung J. Choi, ERT, Inc. (United States); Brent D. Bartlett, Jason T. Casey, GeoThinkTank, LLC (United States)


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On-orbit validation of the geolocation accuracy of GOES-16 Geostationary Lightning Mapper (GLM) flashes using ground-based laser beacons

Paper 10764-18

Time: 4:10 PM - 4:30 PM

Author(s): Dennis Buechler, The Univ. of Alabama in Huntsville (United States); Tom Varghese, Cybioms Corp. (United States); Peter Armstrong, MIT Lincoln Lab. (United States); James Bremer, ASRC Federal Holding Co. (United States); Rivers Lamb, NASA Goddard Space Flight Ctr. (United States); Jon Fulbright, Arctic Slope Tech Services (United States); Steven Goodman, Thunderbolt Global Analytics (United States)

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**Session 5:
New Missions**

Tuesday 21 August 2018
4:30 PM - 5:30 PM
Location: Conv. Ctr. Room 30E

Session Chair: [Xiaoxiong Xiong](#), NASA Goddard Space Flight Ctr. (United States)


An update on EUMETSAT programmes and plans

Paper 10764-20
Time: 4:30 PM - 4:50 PM
Author(s): K. Dieter Klaes, EUMETSAT (Germany)

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The 3MI mission on-board EPS-SG: a multi-spectral multi-polarization multi-directional imager for operational characterization of aerosol and cloud

Paper 10764-21
Time: 4:50 PM - 5:10 PM
Author(s): Bertrand Fougne, Thierry Marbach, Antoine Lacan, Peter Schlüssel, Ruediger Lang, Gabriele Poli, Rosemary Munro, EUMETSAT (Germany)

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A new approach of remote sensing satellite programs in Taiwan

Paper 10764-22
Time: 5:10 PM - 5:30 PM
Author(s): Chia-Ray Chen, National Space Organization (Taiwan)

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WEDNESDAY 22 AUGUST

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Session 6: AIRS

Wednesday 22 August 2018
8:00 AM - 9:00 AM
Location: Conv. Ctr. Room 30E

Session Chair: [Armin W. Doerry](#), Sandia National Labs. (United States)


Reducing uncertainty in the AIRS radiometric calibration

Paper 10764-23
Time: 8:00 AM - 8:20 AM
Author(s): Thomas S. Pagano, Evan M. Manning, Steve Broberg, Hartmut H. Aumann, Margaret Weiler, Jet Propulsion Lab. (United States); Larrabee Strow, University of Maryland Baltimore County (United States)

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Radiometric stability in 16 years of AIRS hyperspectral infrared data

Paper 10764-24
Time: 8:20 AM - 8:40 AM
Author(s): Hartmut H. Aumann, Evan M. Manning, Steve Broberg, Jet Propulsion Lab. (United States)

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Stratified radiometric means for the evaluation of AIRS and CrIS

Paper 10764-25
Time: 8:40 AM - 9:00 AM
Author(s): Evan M. Manning, Hartmut H. Aumann, Brian H. Kahn, Jet Propulsion Lab. (United States)

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Session 7: CERES

Wednesday 22 August 2018
9:00 AM - 10:20 AM
Location: Conv. Ctr. Room 30E

Session Chair: [James J. Butler](#), NASA Goddard Space Flight Ctr. (United States)

Ensuring continuity of earth radiation budget observations initial results of CERES FM-6 on NOAA-20 (Conference Presentation)


Paper 10764-26
Time: 9:00 AM - 9:20 AM
Author(s): Kory J. Priestley, NASA Langley Research Ctr. (United States); Susan Thomas, Nathaniel P. Smith, Janet Daniels, Robert Wilson, Dale Walikainen, Science Systems and Applications, Inc. (United States); Anum Ashraf, NASA Langley Research Ctr. (United States)

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Early trends on the Clouds and the Earth's Radiant Energy System (CERES) Flight Model 6 (FM6) instrument's performance

Paper 10764-27
Time: 9:20 AM - 9:40 AM

Author(s): Nathaniel P. Smith, Science Systems and Applications, Inc. (United States); Robert S. Wilson, Z. Peter Szweczyk, Susan Thomas, Science Systems and Applications (United States); Kory J. Priestley, NASA Langley Research Center (United States)


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Numerical modeling for Earth radiation budget instruments (Conference Presentation)

Paper 10764-28

Time: 9:40 AM - 10:00 AM

Author(s): Anum Ashraf, Kory J. Priestley, NASA Langley Research Ctr. (United States); James R. Mahan, Virginia Polytechnic Institute and State Univ. (United States)

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Radiometric calibration discrepancy and root cause analysis for radiation budget instrument

Paper 10764-29

Time: 10:00 AM - 10:20 AM

Author(s): Yana Z. Williams, Mohan Shankar, NASA Langley Research Ctr. (United States); Loren Woody, Richard Hertel, Joseph P. Predina, Logistikos Engineering LLC (United States); Hyung Lee, Georgi Georgiev, Cindy L. Young, Christopher R. Randall, Kory J. Priestley, NASA Langley Research Ctr. (United States)

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Coffee Break 10:20 AM - 11:00 AM

Session Plen: Remote Sensing Plenary Session

Wednesday 22 August 2018

11:00 AM - 11:50 AM

Location: Conv. Ctr. Ballroom 20A


Session Chair: [James J. Butler](#), NASA Goddard Space Flight Ctr. (United States)

Remote sensing of weather, climate, and environment (Conference Presentation) (Plenary Presentation)

Paper 10764-401

Time: 11:00 AM - 11:50 AM

Author(s): K. Dieter Klaes, EUMETSAT (Germany)

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Lunch/Exhibition Break 11:50 AM - 1:10 PM

Session 8: On-Orbit, Vicarious, and Inter-Instrument Calibration

Wednesday 22 August 2018

1:10 PM - 3:30 PM

Location: Conv. Ctr. Room 30E


Session Chair: [James J. Butler](#), NASA Goddard Space Flight Ctr. (United States)

NOAA-20 VIIRS on-orbit calibration and characterization using the Moon

Paper 10764-30

Time: 1:10 PM - 1:30 PM

Author(s): Junqiang Sun, Global Science & Technology, Inc. (United States); Menghua Wang, Ctr. for Satellite Applications and Research (United States)


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MODIS and VIIRS on-orbit calibration and characterization using observations from spacecraft pitch maneuvers

Paper 10764-31

Time: 1:30 PM - 1:50 PM

Author(s): Xiaoxiong Xiong, NASA Goddard Space Flight Ctr. (United States); Aisheng Wu, Amit Angal, Vincent Chiang, Science Systems and Applications, Inc. (United States); James J. Butler, NASA Goddard Space Flight Ctr. (United States)


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Evaluation of early NOAA-20 VIIRS RSB radiometric performance using intercomparison with Aqua MODIS

Paper 10764-32

Time: 1:50 PM - 2:10 PM

Author(s): I-Wen Mike Chu, Colorado State Univ. (United States); Junqiang Sun, Global Science & Technology, Inc. (United States), Ctr. for Satellite Applications and Research (United States); Menghua Wang, Ctr. for Satellite Applications and Research (United States)


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Suomi NPP VIIRS DNB and RSB M bands detector-to-detector and HAM side calibration differences assessment using a homogenous ground target

Paper 10764-63

Time: 2:10 PM - 2:30 PM


Author(s): Xuexia Chen, Ning Lei, Science Systems and Applications, Inc. (United States); Xiaoxiong Xiong, NASA Goddard Space Flight Ctr. (United States)

[Add To My Schedule](#) **SBAF for cross-calibration of Landsat-8 OLI and Sentinel-2 MSI over North African PICS**

Paper 10764-34

Time: 2:30 PM - 2:50 PM


Author(s): Cibele Teixeira Pinto, Mahesh Shrestha, Nahid Hasan, Larry Leigh, Dennis Helder, South Dakota State Univ. (United States)

[Add To My Schedule](#) **Directional reflectance studies in support of the Radiometric Calibration Test Site (RadCaTS) at Railroad Valley**

Paper 10764-35

Time: 2:50 PM - 3:10 PM

Author(s): Jeffrey S. Czaplá-Myers, College of Optical Sciences, The Univ. of Arizona (United States); Craig Coburn, Dept of Geography, University of Lethbridge (Canada); Kurtis Thome, NASA Goddard Space Flight Ctr. (United States); Brian Wenny, Science Systems and Applications, Inc. (United States); Nikolaus Anderson, College of Optical Sciences, The Univ. of Arizona (United States)

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Coffee Break 3:30 PM - 4:00 PM

**Session 9:
MODIS**

Wednesday 22 August 2018

4:00 PM - 5:20 PM

Location: Conv. Ctr. Room 30E


Session Chair: [Jeffrey S. Czaplá-Myers](#), College of Optical Sciences, The Univ. of Arizona (United States)

MODIS cross-talk effects and areas of potential performance differences for Terra from Aqua characteristics

Paper 10764-37

Time: 4:00 PM - 4:20 PM


Author(s): Bruce Guenther, Stellar Solutions Inc. (United States); Junqiang Sun, Global Science & Technology, Inc. (United States); Christopher Moeller, Cooperative Institute for Meteorological Satellite Studies, University of Wisconsin (United States)

[Add To My Schedule](#) **Assessment of the on-orbit MODIS SRCA spectral uncertainty**

Paper 10764-38

Time: 4:20 PM - 4:40 PM


Author(s): Emily J. Aldoretta, Daniel Link, Kevin A. Twedt, Science Systems and Applications, Inc. (United States); Xiaoxiong Xiong, NASA Goddard Space Flight Ctr. (United States)

[Add To My Schedule](#) **Effects of time-varying relative spectral response on the calibration of MODIS reflective solar bands**

Paper 10764-39

Time: 4:40 PM - 5:00 PM


Author(s): Kevin A. Twedt, Amit Angal, Science Systems and Applications, Inc. (United States); Xiaoxiong Xiong, NASA Goddard Space Flight Ctr. (United States)

[Add To My Schedule](#) **MODIS solar diffuser degradation determination and its spectral dependency**

Paper 10764-40

Time: 5:00 PM - 5:20 PM

Author(s): Shihyan Lee, NASA Goddard Space Flight Ctr. (United States), SAIC (United States); Gerhard Meister, NASA Goddard Space Flight Ctr. (United States)

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**Session PWed:
Poster Session**

Wednesday 22 August 2018

5:30 PM - 7:30 PM

Location: Conv. Ctr. Room 20C

Conference attendees are invited to view the posters, enjoy light refreshments, ask questions, and network with colleagues in your field. Authors of poster papers will be present to answer questions concerning their papers. Attendees are required to wear their conference registration badges to the poster sessions. Poster authors, view poster presentation guidelines at <http://spie.org/OPPosterGuidelines>.

Cross comparison of the SNPP VIIRS, NOAA-20 VIIRS, and AQUA MODIS using simultaneous Nadir overpass images

Paper 10764-33

Time: 5:30 PM - 7:30 PM

Author(s): Xuexia Chen, Science Systems and Applications, Inc. (United States); Xiaoxiong Xiong, NASA Goddard Space Flight Ctr. (United States); Ning Lei, Science Systems and Applications, Inc. (United States)

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Ring laser in angle measurements

Paper 10764-56

Time: 5:30 PM - 7:30 PM


Author(s): Nkpoikanke A. Eno, Petr A. Pavlov, Yuri Filatov, Saint Petersburg Electrotechnical Univ. "LETI" (Russian Federation)

[Add To My Schedule](#) **Identification of seismic signals at the output of large ring laser gyroscopes**

Paper 10764-57

Time: 5:30 PM - 7:30 PM


Author(s): John Tari Bagshaw, Nkpoikanke A. Eno, Saint Petersburg Electrotechnical Univ. "LETI" (Russian Federation)

[Add To My Schedule](#) **Detection and characterization of striping in GOES-16 ABI VNIR/IR bands**

Paper 10764-58

Time: 5:30 PM - 7:30 PM


Author(s): Haifeng Qian, Xiangqian Wu, Fangfang Yu, Xi Shao, Robert Iacovazzi, Zhipeng Wang, Hyeelim Hyeelim, National Oceanic and Atmospheric Administration (United States)

[Add To My Schedule](#) **On-orbit performance of the Terra and Aqua MODIS solar diffuser stability monitor**

Paper 10764-59

Time: 5:30 PM - 7:30 PM


Author(s): Emily J. Aldoretta, Kevin A. Twedt, Amit Angal, Hongda Chen, Science Systems and Applications, Inc. (United States); Xiaoxiong Xiong, NASA Goddard Space Flight Ctr. (United States)

[Add To My Schedule](#) **Methods of Earth-view-based calibration of the response versus scan angle of the MODIS reflective solar bands**

Paper 10764-60

Time: 5:30 PM - 7:30 PM


Author(s): Kevin A. Twedt, Hongda Chen, Science Systems and Applications, Inc. (United States); Xiaoxiong Xiong, NASA Goddard Space Flight Ctr. (United States); Amit Angal, Xu Geng, Aisheng Wu, Science Systems and Applications, Inc. (United States)

[Add To My Schedule](#) **NOAA-20 VIIRS radiometric band saturation evaluation and comparison with Suomi NPP VIIRS using global probability distribution function method**

Paper 10764-61

Time: 5:30 PM - 7:30 PM


Author(s): Bin Zhang, ERT, Inc. (United States); Changyong Cao, National Oceanic and Atmospheric Administration (United States); Sirish Uprety, Xi Shao, Univ. of Maryland, College Park (United States)

[Add To My Schedule](#) **Six-year inters-RSB comparison of Aqua MODIS with SNPP VIIRS**

Paper 10764-62

Time: 5:30 PM - 7:30 PM


Author(s): I-Wen Mike Chu, Ctr. for Satellite Applications and Research (United States); Junqiang Sun, Global Science & Technology, Inc. (United States), Ctr. for Satellite Applications and Research (United States); Menghua Wang, Ctr. for Satellite Applications and Research (United States)

[Add To My Schedule](#) **Radiometric quality assessment of GOES-16 ABI L1b images**

Paper 10764-65

Time: 5:30 PM - 7:30 PM


Author(s): Zhipeng Wang, Science Systems and Applications, Inc. (United States); Xiangqian Wu, National Oceanic and Atmospheric Administration (United States); Haifeng Qian, Fangfang Yu, Robert Iacovazzi, Xi Shao, Vladimir Kondratovich, Hyeelim Yoo, ERT, Inc. (United States)

[Add To My Schedule](#) **Orbital variations and impacts on observations from SNPP, NOAA 18-20, and AQUA sun-synchronous satellites**

Paper 10764-66

Time: 5:30 PM - 7:30 PM


Author(s): Xi Shao, Univ. of Maryland, College Park (United States); Changyong Cao, National Environmental Satellite, Data, and Information Service (United States); Xiaoxiong Xiong, NASA Goddard Space Flight Ctr. (United States); Tung-Chang Liu, Bin Zhang, Sirish Uprety, Univ. of Maryland, College Park (United States)

[Add To My Schedule](#) **Comparison of the MODIS and VIIRS on-board SD and SDSM performance**

Paper 10764-67

Time: 5:30 PM - 7:30 PM


Author(s): Amit Angal, Science Systems and Applications, Inc. (United States); Xiaoxiong Xiong, NASA Goddard Space Flight Ctr. (United States); Ning Lei, Kevin A. Twedt, Science Systems and Applications, Inc. (United States)

[Add To My Schedule](#) **Object detection in multispectral and panchromatic image using superpixel segmentation and multisource feature**

Paper 10764-68

Time: 5:30 PM - 7:30 PM

Author(s): Di Wu, Ye Zhang, Qingle Guo, Harbin Institute of Technology (China)


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Saliency and density enhanced region-of-interest extraction for large-scale high-resolution remote sensing images

Paper 10764-69

Time: 5:30 PM - 7:30 PM


Author(s): Tong Li, Harbin Institute of Technology (China), Columbia Univ. (United States); Junping Zhang, Qingle Guo, Bin Zou, Harbin Institute of Technology (China)

[Add To My Schedule](#) **A land-cover classification method of high-resolution remote sensing imagery based on convolution neural network**

Paper 10764-71

Time: 5:30 PM - 7:30 PM


Author(s): Yuhan Wang, Lingjia Gu, Ruizhi Ren, Zheng Xu, Xintong Fan, Jilin Univ. (China)

[Add To My Schedule](#) **A building edge extraction method based on dual-scale classification with decision fusion for satellite image**

Paper 10764-72

Time: 5:30 PM - 7:30 PM


Author(s): Lechuan Hao, Ye Zhang, Harbin Institute of Technology (China); Zhimin Cao, Northeast Petroleum Univ. (China); Qingle Guo, Harbin Institute of Technology (China)

[Add To My Schedule](#) **Optical multi-spectral strip filter by lithography and ion beam assisted deposition for multi-spectral remote sensing instrument**

Paper 10764-73

Time: 5:30 PM - 7:30 PM

Author(s): Chien-Fu Huang, Morrison Opto-Electronics Ltd. (Taiwan); Po-Hsuan Huang, National Space Organization (Taiwan)

[Add To My Schedule](#) **THURSDAY 23 AUGUST**[Show All Abstracts](#)**Session 10:
Data Analysis and Algorithms**

Thursday 23 August 2018

8:15 AM - 9:55 AM


Location: Conv. Ctr. Room 30E

Session Chair: [Philip E. Ardanuy](#), Innovim, LLC (United States)**On the effectiveness of remote monitoring systems**

Paper 10764-41

Time: 8:15 AM - 8:35 AM


Author(s): Ferdenant A. Mkrtychyan, Kotelnikov Institute of Radio Engineering and Electronics (Russian Federation)

[Add To My Schedule](#) **Change detection for high resolution image based on pyramid mean shift smoothness and morphology**

Paper 10764-42

Time: 8:35 AM - 8:55 AM


Author(s): Qingle Guo, Junping Zhang, Ye Zhang, Harbin Institute of Technology (China)

[Add To My Schedule](#) **Hyperspectral image denoising using improved low-rank and sparsity constraints**

Paper 10764-43

Time: 8:55 AM - 9:15 AM


Author(s): Chongxiao Zhong, Junping Zhang, Qingle Guo, Harbin Institute of Technology (China)

[Add To My Schedule](#) **Enhancements to the open access spectral band adjustment factor online calculation tool for visible channels**

Paper 10764-44

Time: 9:15 AM - 9:35 AM


Author(s): Benjamin R. Scarino, Science Systems and Applications, Inc. (United States); David R. Doelling, NASA Langley Research Ctr. (United States); Arun Gopalan, Thad Chee, Rajendra Bhatt, Conor Haney, Science Systems and Applications, Inc. (United States)

[Add To My Schedule](#) **Generating Ab initio molecular spectra dataset for atmospheric and planetary studies (Conference Presentation)**

Paper 10764-74

Time: 9:35 AM - 9:55 AM

Author(s): Piotr Wcislo, Nicolaus Copernicus Univ. (Poland); Franck Thibault, Univ. de Rennes 1 (France); Nikodem Stolarczyk, Hubert Jóźwiak, Michał Stowiński, Magdalena Konefał, Nicolaus Copernicus Univ. (Poland); Samir Kassi, Aiain Campargue, Univ. Grenoble Alpes (France); Yan Tan, Jin Wang, Anwen Liu, Shui-Ming Hu, Univ. of Science and Technology of China (China); Konrad Patkowski, Auburn Univ. (United States); Roman V. Kochanov, Iouli E. Gordon, Harvard-Smithsonian Ctr. for Astrophysics (United States)

[Add To My Schedule](#) **Coffee Break 9:55 AM - 10:25 AM**

Session 11: VIIRS I

Thursday 23 August 2018
10:25 AM - 12:05 PM
Location: Conv. Ctr. Room 30E


Session Chair: [Thomas S. Pagano](#), Jet Propulsion Lab. (United States)

SNPP VIIRS reflective solar bands on-orbit calibration six-year update: extension and improvements

Paper 10764-45

Time: 10:25 AM - 10:45 AM

Author(s): Junqiang Sun, Global Science & Technology, Inc. (United States); Menghua Wang, Ctr. for Satellite Applications and Research (United States)


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Initial on-orbit radiometric calibration of the NOAA-20 VIIRS Reflective Solar Bands

Paper 10764-46

Time: 10:45 AM - 11:05 AM

Author(s): Taeyoung J. Choi, Slawomir Blonski, Changyong Cao, National Environmental Satellite, Data, and Information Service (United States)


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NOAA-20 VIIRS reflective solar bands on-orbit calibration using solar diffuser and solar diffuser stability monitor

Paper 10764-47

Time: 11:05 AM - 11:25 AM

Author(s): Junqiang Sun, Global Science & Technology, Inc. (United States); Menghua Wang, Ctr. for Satellite Applications and Research (United States)


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On-orbit RSB calibration of SNPP VIIRS using the full illumination profile of solar diffuser

Paper 10764-48

Time: 11:25 AM - 11:45 AM

Author(s): Junqiang Sun, Global Science & Technology, Inc. (United States); I-Wen Mike Chu, Colorado State Univ. (United States); Menghua Wang, Ctr. for Satellite Applications and Research (United States)

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Lunch/Exhibition Break 12:05 PM - 1:30 PM

Session 12: VIIRS II

Thursday 23 August 2018
1:30 PM - 3:10 PM
Location: Conv. Ctr. Room 30E


Session Chair: [Joel McCorkel](#), NASA Goddard Space Flight Ctr. (United States)

Analysis of S-NPP VIIRS RSB bands detector saturation status and its change with time

Paper 10764-50

Time: 1:30 PM - 1:50 PM

Author(s): Chengbo Sun, Global Science & Technology, Inc. (United States); Xuexia Chen, Ning Lei, Science Systems and Applications, Inc. (United States); Kwofu Chiang, Science Systems and Applications (United States); Xiaoxiong Xiong, NASA Goddard Space Flight Ctr. (United States)


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Polarization effect in NOAA-20 reflective solar bands and its mitigation in Earth view imagery and radiometry (Conference Presentation)

Paper 10764-51

Time: 1:50 PM - 2:10 PM

Author(s): Junqiang Sun, Global Science & Technology, Inc. (United States); Menghua Wang, Ctr. for Satellite Applications and Research (United States)


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JPSS-1/NOAA-20 VIIRS early on-orbit geometric performance

Paper 10764-52

Time: 2:10 PM - 2:30 PM

Author(s): Guoqing Lin, Science Systems and Applications, Inc. (United States), NASA Goddard Space Flight Ctr. (United States); Robert E. Wolfe, James C. Tilton, NASA Goddard Space Flight Ctr. (United States); Ping Zhang, Science Systems and Applications, Inc. (United States); John Dellomo, Global Science & Technology, Inc. (United States); Bin Tan, Science Systems and Applications, Inc. (United States)


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A light contamination ranking index-based method for automating VIIRS day/night band stray light correction

Paper 10764-53

Time: 2:30 PM - 2:50 PM

Author(s): Xi Shao, Tung-Chang Liu, Univ. of Maryland, College Park (United States); Sirish Uprety, Univ. of Maryland (United States); Wenhui Wang, ERT, Inc. (United States); Bin Zhang, Univ. of Maryland, College Park (United States); Changyong Cao, National Environmental Satellite, Data, and Information Service (United States)

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An improved algorithm for VIIRS Day/Night Band (DNB) high gain stage (HGS) dark offset determination

Paper 10764-54

Time: 2:50 PM - 3:10 PM

Author(s): Yalong Gu, ERT, Inc. (United States); Sirish Uprety, Univ. of Maryland, College Park (United States); Slawomir Blonski, Bin Zhang, ERT, Inc. (United States); Changyong Cao, National Environmental Satellite, Data, and Information Service (United States)

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